October 13, 2020

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661

TEL: (916) 786-3302
FAX:

Workorder No.: N042384

RE: PG&E Topock - GMP, RC000753.801D

Attention: Dan Bush

Enclosed are the results for sample(s) received on September 29, 2020 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Nancy Sibucao
Laboratory Director

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CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - GMP, RC000753.801D
Lab Order: N042384

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

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

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

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

Samples were analyzed within method holding time.

Analytical Comments for EPA 218.6:

Dilution was necessary for sample N042384-001 due to matrix interference. Sample was analyzed at lower dilution however matrix spike recovery and/or retention time criteria were not met indicating possible matrix interference. Sample was reported at dilution that meets matrix spike recovery limit and the detected peak within retention time window.

Because the results for total dissolved chromium (1.7 ug/L) and hexavalent chromium (0 ug/L) for sample N042384-001 (MW-72BR-200-Q320) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

Analytical Comments for EPA 6020_Dissolved:

Because the results for total dissolved chromium (1.7 ug/L) and hexavalent chromium (0 ug/L) for sample N042384-001 (MW-72BR-200-Q320) are discrepant, sample from both the total dissolved chromium and hexavalent chromium containers were redigested and analyzed for total dissolved chromium. The results from the redigested samples were 1.9 and 4.6 ug/L, respectively. Since these data confirmed the original result for total dissolved chromium, the original result is reported.

ASSET Laboratories

Date: *13-Oct-20*

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - GMP, RC000753.801D
Lab Order: N042384
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N042384-001A	MW-72BR-200-Q320	Groundwater	9/29/2020 1:45:00 PM	9/29/2020	10/13/2020
N042384-001B	MW-72BR-200-Q320	Groundwater	9/29/2020 1:45:00 PM	9/29/2020	10/13/2020
N042384-001C	MW-72BR-200-Q320	Groundwater	9/29/2020 1:45:00 PM	9/29/2020	10/13/2020
N042384-001D	MW-72BR-200-Q320	Groundwater	9/29/2020 1:45:00 PM	9/29/2020	10/13/2020
N042384-002A	MW-72-080-Q320	Groundwater	9/29/2020 2:40:00 PM	9/29/2020	10/13/2020
N042384-002B	MW-72-080-Q320	Groundwater	9/29/2020 2:40:00 PM	9/29/2020	10/13/2020
N042384-002C	MW-72-080-Q320	Groundwater	9/29/2020 2:40:00 PM	9/29/2020	10/13/2020
N042384-002D	MW-72-080-Q320	Groundwater	9/29/2020 2:40:00 PM	9/29/2020	10/13/2020
N042384-003A	MW-58BR-Q320	Groundwater	9/29/2020 12:34:00 PM	9/29/2020	10/13/2020
N042384-003B	MW-58BR-Q320	Groundwater	9/29/2020 12:34:00 PM	9/29/2020	10/13/2020
N042384-003C	MW-58BR-Q320	Groundwater	9/29/2020 12:34:00 PM	9/29/2020	10/13/2020
N042384-003D	MW-58BR-Q320	Groundwater	9/29/2020 12:34:00 PM	9/29/2020	10/13/2020
N042384-004A	MW-65-225-Q320	Groundwater	9/29/2020 8:51:00 AM	9/29/2020	10/13/2020
N042384-004B	MW-65-225-Q320	Groundwater	9/29/2020 8:51:00 AM	9/29/2020	10/13/2020
N042384-004C	MW-65-225-Q320	Groundwater	9/29/2020 8:51:00 AM	9/29/2020	10/13/2020
N042384-004D	MW-65-225-Q320	Groundwater	9/29/2020 8:51:00 AM	9/29/2020	10/13/2020
N042384-005A	MW-65-160-Q320	Groundwater	9/29/2020 9:25:00 AM	9/29/2020	10/13/2020
N042384-005B	MW-65-160-Q320	Groundwater	9/29/2020 9:25:00 AM	9/29/2020	10/13/2020
N042384-005C	MW-65-160-Q320	Groundwater	9/29/2020 9:25:00 AM	9/29/2020	10/13/2020
N042384-005D	MW-65-160-Q320	Groundwater	9/29/2020 9:25:00 AM	9/29/2020	10/13/2020
N042384-006A	MW-69-195-Q320	Groundwater	9/29/2020 10:36:00 AM	9/29/2020	10/13/2020
N042384-006B	MW-69-195-Q320	Groundwater	9/29/2020 10:36:00 AM	9/29/2020	10/13/2020
N042384-006C	MW-69-195-Q320	Groundwater	9/29/2020 10:36:00 AM	9/29/2020	10/13/2020
N042384-006D	MW-69-195-Q320	Groundwater	9/29/2020 10:36:00 AM	9/29/2020	10/13/2020
N042384-007A	MW-68-180-Q320	Groundwater	9/29/2020 11:36:00 AM	9/29/2020	10/13/2020
N042384-007B	MW-68-180-Q320	Groundwater	9/29/2020 11:36:00 AM	9/29/2020	10/13/2020
N042384-007C	MW-68-180-Q320	Groundwater	9/29/2020 11:36:00 AM	9/29/2020	10/13/2020
N042384-007D	MW-68-180-Q320	Groundwater	9/29/2020 11:36:00 AM	9/29/2020	10/13/2020
N042384-008A	EB-775-Q320	Groundwater	9/29/2020 3:00:00 PM	9/29/2020	10/13/2020

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ANALYTICAL RESULTS

Print Date: *13-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-72BR-200-Q320
Lab Order:	N042384	**Collection Date:**	9/29/2020 1:45:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042384-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200930B**	QC Batch: **R147682**			PrepDate:			Analyst: **LR**
Specific Conductance	14000	0.10	0.10		umhos/cm	1	9/30/2020 10:25 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *13-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-72-080-Q320
Lab Order:	N042384	**Collection Date:**	9/29/2020 2:40:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042384-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200930B**	QC Batch: **R147682**			PrepDate:			Analyst: **LR**
Specific Conductance	13000	0.10	0.10		umhos/cm	1	9/30/2020 10:25 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *13-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-58BR-Q320
Lab Order:	N042384	**Collection Date:**	9/29/2020 12:34:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042384-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200930B**	QC Batch: **R147682**			PrepDate:			Analyst: **LR**
Specific Conductance	6000	0.10	0.10		umhos/cm	1	9/30/2020 10:25 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *13-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-65-225-Q320
Lab Order:	N042384	**Collection Date:**	9/29/2020 8:51:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042384-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200930B**	QC Batch: **R147682**			PrepDate:			Analyst: **LR**
Specific Conductance	12000	0.10	0.10		umhos/cm	1	9/30/2020 10:25 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *13-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-65-160-Q320
Lab Order:	N042384	**Collection Date:**	9/29/2020 9:25:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042384-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200930B**	QC Batch: **R147682**			PrepDate:			Analyst: **LR**
Specific Conductance	3800	0.10	0.10		umhos/cm	1	9/30/2020 10:25 AM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *13-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-69-195-Q320
Lab Order:	N042384	**Collection Date:**	9/29/2020 10:36:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042384-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200930B**	QC Batch: **R147682**			PrepDate:			Analyst: **LR**
Specific Conductance	2500	0.10	0.10		umhos/cm	1	9/30/2020 10:25 AM

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-68-180-Q320
Lab Order:	N042384	**Collection Date:**	9/29/2020 11:36:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042384-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200930B**	QC Batch: **R147682**			PrepDate:			Analyst: **LR**
Specific Conductance	4900	0.10	0.10		umhos/cm	1	9/30/2020 10:25 AM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042384
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 120.1_WPGE

Sample ID: **N042372-001BDUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **147682**
Client ID: **ZZZZZZ** Batch ID: **R147682** TestNo: **EPA 120.1** Analysis Date: **9/30/2020** SeqNo: **3952625**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	4330.000	0.10						4320	0.231	2	

Sample ID: **N042384-005BDUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **147682**
Client ID: **ZZZZZZ** Batch ID: **R147682** TestNo: **EPA 120.1** Analysis Date: **9/30/2020** SeqNo: **3952631**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	3800.000	0.10						3790	0.264	2	

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *13-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-72BR-200-Q320
Lab Order:	N042384	**Collection Date:**	9/29/2020 1:45:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042384-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_201002A** QC Batch: **R147754** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.17	1.0		µg/L	5	10/2/2020 03:00 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200930C** QC Batch: **82360** PrepDate: **9/30/2020** Analyst: **CEI**							
Chromium	1.7	0.13	1.0		µg/L	1	9/30/2020 10:52 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *13-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-72-080-Q320
Lab Order:	N042384	**Collection Date:**	9/29/2020 2:40:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042384-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_201002A** QC Batch: **R147754** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	79	0.66	4.0		µg/L	20	10/2/2020 12:42 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200930C** QC Batch: **82360** PrepDate: **9/30/2020** Analyst: **CEI**							
Chromium	75	0.13	1.0		µg/L	1	9/30/2020 11:01 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N042384
Project: PG&E Topock - GMP, RC000753.801D
Lab ID: N042384-003

Client Sample ID: MW-58BR-Q320
Collection Date: 9/29/2020 12:34:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_201002A** QC Batch: **R147754** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	3.9	0.033	0.20		µg/L	1	10/2/2020 05:31 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200930C** QC Batch: **82360** PrepDate: **9/30/2020** Analyst: **CEI**							
Chromium	4.5	0.13	1.0		µg/L	1	9/30/2020 11:10 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *13-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-65-225-Q320
Lab Order:	N042384	**Collection Date:**	9/29/2020 8:51:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042384-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_201003A** QC Batch: **R147755** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	260	1.7	10		µg/L	50	10/3/2020 07:20 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200930C** QC Batch: **82360** PrepDate: **9/30/2020** Analyst: **CEI**							
Chromium	250	0.65	5.0		µg/L	5	9/30/2020 11:33 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *13-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-65-160-Q320
Lab Order:	N042384	**Collection Date:**	9/29/2020 9:25:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042384-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_201003A** QC Batch: **R147755** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	240	1.7	10		µg/L	50	10/3/2020 07:41 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200930C** QC Batch: **82360** PrepDate: **9/30/2020** Analyst: **CEI**							
Chromium	240	0.65	5.0		µg/L	5	9/30/2020 11:43 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *13-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-69-195-Q320
Lab Order:	N042384	**Collection Date:**	9/29/2020 10:36:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042384-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_201003A** QC Batch: **R147755** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	350	1.7	10		µg/L	50	10/3/2020 02:02 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200930C** QC Batch: **82360** PrepDate: **9/30/2020** Analyst: **CEI**							
Chromium	380	0.65	5.0		µg/L	5	9/30/2020 11:52 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *13-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-68-180-Q320
Lab Order:	N042384	**Collection Date:**	9/29/2020 11:36:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042384-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_201003A** QC Batch: **R147755** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	54000	170	1000		µg/L	5000	10/3/2020 08:19 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200930C** QC Batch: **82360** PrepDate: **9/30/2020** Analyst: **CEI**							
Chromium	51000	65	500		µg/L	500	10/1/2020 04:11 AM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	EB-775-Q320
Lab Order:	N042384	**Collection Date:**	9/29/2020 3:00:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042384-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_201003A** QC Batch: **R147755** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	10/3/2020 01:02 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042384
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **LCS-R147754** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147754**
Client ID: **LCSW** Batch ID: **R147754** TestNo: **EPA 218.6** Analysis Date: **10/2/2020** SeqNo: **3952700**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.945	0.20	5.000	0	98.9	90	110				

Sample ID: **MB-R147754** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147754**
Client ID: **PBW** Batch ID: **R147754** TestNo: **EPA 218.6** Analysis Date: **10/2/2020** SeqNo: **3952701**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **N042382-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147754**
Client ID: **ZZZZZZ** Batch ID: **R147754** TestNo: **EPA 218.6** Analysis Date: **10/2/2020** SeqNo: **3952710**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1815.960	40	1000	843.7	97.2	90	110				

Sample ID: **N042382-001AMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147754**
Client ID: **ZZZZZZ** Batch ID: **R147754** TestNo: **EPA 218.6** Analysis Date: **10/2/2020** SeqNo: **3952711**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1803.960	40	1000	843.7	96.0	90	110	1816	0.663	20	

Sample ID: **N042381-001ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147754**
Client ID: **ZZZZZZ** Batch ID: **R147754** TestNo: **EPA 218.6** Analysis Date: **10/2/2020** SeqNo: **3952713**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	20.406	1.0						20.45	0.220	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042384
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N042381-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147754**
Client ID: **ZZZZZZ** Batch ID: **R147754** TestNo: **EPA 218.6** Analysis Date: **10/2/2020** SeqNo: **3952714**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	45.376	1.0	25.00	20.45	99.7	90	110				

Sample ID: **N042382-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147754**
Client ID: **ZZZZZZ** Batch ID: **R147754** TestNo: **EPA 218.6** Analysis Date: **10/2/2020** SeqNo: **3952715**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	41.399	1.0	25.00	16.72	98.7	90	110				

Sample ID: **N042382-007AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147754**
Client ID: **ZZZZZZ** Batch ID: **R147754** TestNo: **EPA 218.6** Analysis Date: **10/2/2020** SeqNo: **3952716**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.176	0.20	1.000	1.154	102	90	110				

Sample ID: **N042357-008AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147754**
Client ID: **ZZZZZZ** Batch ID: **R147754** TestNo: **EPA 218.6** Analysis Date: **10/2/2020** SeqNo: **3952720**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.700	1.0	5.000	0	94.0	90	110				

Sample ID: **N042382-008AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147754**
Client ID: **ZZZZZZ** Batch ID: **R147754** TestNo: **EPA 218.6** Analysis Date: **10/2/2020** SeqNo: **3952721**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	97.122	2.0	50.00	47.99	98.3	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042384
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N042380-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147754**
Client ID: **ZZZZZZ** Batch ID: **R147754** TestNo: **EPA 218.6** Analysis Date: **10/2/2020** SeqNo: **3952725**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.968	0.20	1.000	0	96.8	90	110				

Sample ID: **N042384-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147754**
Client ID: **ZZZZZZ** Batch ID: **R147754** TestNo: **EPA 218.6** Analysis Date: **10/2/2020** SeqNo: **3952727**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	177.110	4.0	100.0	79.32	97.8	90	110				

Sample ID: **N042382-006AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147754**
Client ID: **ZZZZZZ** Batch ID: **R147754** TestNo: **EPA 218.6** Analysis Date: **10/2/2020** SeqNo: **3952731**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.420	0.20	1.000	0.4237	99.6	90	110				

Sample ID: **N042382-010AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147754**
Client ID: **ZZZZZZ** Batch ID: **R147754** TestNo: **EPA 218.6** Analysis Date: **10/2/2020** SeqNo: **3952733**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	14.194	1.0	5.000	9.411	95.7	90	110				

Sample ID: **N042382-012AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147754**
Client ID: **ZZZZZZ** Batch ID: **R147754** TestNo: **EPA 218.6** Analysis Date: **10/2/2020** SeqNo: **3952735**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.175	1.0	5.000	0.3470	96.6	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042384
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N042382-014AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147754**
Client ID: **ZZZZZZ** Batch ID: **R147754** TestNo: **EPA 218.6** Analysis Date: **10/2/2020** SeqNo: **3952737**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.868	1.0	5.000	0	97.4	90	110				

Sample ID: **N042384-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147754**
Client ID: **ZZZZZZ** Batch ID: **R147754** TestNo: **EPA 218.6** Analysis Date: **10/2/2020** SeqNo: **3952739**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.951	1.0	5.000	0	99.0	90	110				

Sample ID: **N042382-009AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147754**
Client ID: **ZZZZZZ** Batch ID: **R147754** TestNo: **EPA 218.6** Analysis Date: **10/2/2020** SeqNo: **3952743**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.956	0.20	1.000	0	95.6	90	110				

Sample ID: **N042382-013AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147754**
Client ID: **ZZZZZZ** Batch ID: **R147754** TestNo: **EPA 218.6** Analysis Date: **10/2/2020** SeqNo: **3952745**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.011	0.20	1.000	0	101	90	110				

Sample ID: **N042382-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147754**
Client ID: **ZZZZZZ** Batch ID: **R147754** TestNo: **EPA 218.6** Analysis Date: **10/2/2020** SeqNo: **3952747**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	41.564	1.0	25.00	17.14	97.7	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042384
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N042382-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147754**
Client ID: **ZZZZZZ** Batch ID: **R147754** TestNo: **EPA 218.6** Analysis Date: **10/2/2020** SeqNo: **3952748**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	8.582	0.20	5.000	3.540	101	90	110				

Sample ID: **N042382-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147754**
Client ID: **ZZZZZZ** Batch ID: **R147754** TestNo: **EPA 218.6** Analysis Date: **10/2/2020** SeqNo: **3952749**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	7.864	0.20	5.000	2.898	99.3	90	110				

Sample ID: **N042384-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147754**
Client ID: **ZZZZZZ** Batch ID: **R147754** TestNo: **EPA 218.6** Analysis Date: **10/2/2020** SeqNo: **3952753**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.000	0.20	5.000	3.906	102	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042384
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **MB-R147755** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **PBW** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952762**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **LCS-R147755** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **LCSW** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952763**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.953	0.20	5.000	0	99.1	90	110				

Sample ID: **N042382-011AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952765**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	121.667	2.0	50.00	71.75	99.8	90	110				

Sample ID: **N042404-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952767**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.343	1.0	5.000	0.4130	98.6	90	110				

Sample ID: **N042404-005AMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952768**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.206	1.0	5.000	0.4130	95.9	90	110	5.342	2.59	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042384
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N042382-011ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952771**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	71.001	2.0						71.75	1.05	20	

Sample ID: **N042384-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952773**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	518.735	10	250.0	261.8	103	90	110				

Sample ID: **N042384-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952775**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	492.570	10	250.0	244.1	99.4	90	110				

Sample ID: **N042384-007AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952777**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	78844.000	1000	25000	53840	100	90	110				

Sample ID: **N042403-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952781**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.780	0.20	1.000	0.7707	101	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042384
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N042403-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952783**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	49.928	1.0	25.00	24.42	102	90	110				

Sample ID: **N042403-006AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952785**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	15.048	0.20	5.000	9.949	102	90	110				

Sample ID: **N042403-007AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952789**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.439	0.20	1.000	1.366	107	90	110				

Sample ID: **N042403-008AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952791**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.362	0.20	5.000	4.140	104	90	110				

Sample ID: **N042404-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952793**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.298	0.20	1.000	1.264	103	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042384
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N042404-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952795**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1084.840	20	500.0	586.4	99.7	90	110				

Sample ID: **N042404-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952799**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	45.847	1.0	25.00	20.99	99.4	90	110				

Sample ID: **N042384-008AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952801**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.985	0.20	1.000	0	98.5	90	110				

Sample ID: **N042403-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952803**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.017	0.20	1.000	0	102	90	110				

Sample ID: **N042403-009AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952805**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.037	0.20	1.000	0	104	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042384
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N042384-006AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952807**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	597.630	10	250.0	354.2	97.4	90	110				

Sample ID: **N042403-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952811**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.448	1.0	5.000	0.6535	95.9	90	110				

Sample ID: **N042404-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952813**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.935	1.0	5.000	0	98.7	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042384
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: **MB-82360** SampType: **MBLK** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **9/30/2020** RunNo: **147780**
Client ID: **PBW** Batch ID: **82360** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **9/30/2020** SeqNo: **3954671**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID: **LCS-82360** SampType: **LCS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **9/30/2020** RunNo: **147780**
Client ID: **LCSW** Batch ID: **82360** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **9/30/2020** SeqNo: **3954672**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.729	1.0	10.00	0	97.3	85	115				

Sample ID: **N042381-001E-MS** SampType: **MS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **9/30/2020** RunNo: **147780**
Client ID: **ZZZZZZ** Batch ID: **82360** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **9/30/2020** SeqNo: **3954680**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	29.298	1.0	10.00	20.69	86.1	75	125				

Sample ID: **N042381-001E-MSD** SampType: **MSD** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **9/30/2020** RunNo: **147780**
Client ID: **ZZZZZZ** Batch ID: **82360** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **9/30/2020** SeqNo: **3954683**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	29.362	1.0	10.00	20.69	86.8	75	125	29.30	0.222	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *13-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-72BR-200-Q320
Lab Order:	N042384	**Collection Date:**	9/29/2020 1:45:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042384-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_201007E** QC Batch: **R147845** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	ND	0.032	0.050		mg/L	1	10/7/2020 05:02 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *13-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-72-080-Q320
Lab Order:	N042384	**Collection Date:**	9/29/2020 2:40:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042384-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_201007E** QC Batch: **R147845** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.59	0.032	0.050		mg/L	1	10/7/2020 05:14 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-58BR-Q320
Lab Order:	N042384	**Collection Date:**	9/29/2020 12:34:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042384-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_201007E** QC Batch: **R147845** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.39	0.032	0.050		mg/L	1	10/7/2020 05:13 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-65-225-Q320
Lab Order:	N042384	**Collection Date:**	9/29/2020 8:51:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042384-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_201007E** QC Batch: **R147845** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	4.0	0.32	0.50		mg/L	10	10/7/2020 05:15 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *13-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-65-160-Q320
Lab Order:	N042384	**Collection Date:**	9/29/2020 9:25:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042384-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_201007E** QC Batch: **R147845** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	13	0.63	1.0		mg/L	20	10/7/2020 05:17 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *13-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-69-195-Q320
Lab Order:	N042384	**Collection Date:**	9/29/2020 10:36:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042384-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_201007E** QC Batch: **R147845** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	20	0.63	1.0		mg/L	20	10/7/2020 05:16 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-68-180-Q320
Lab Order:	N042384	**Collection Date:**	9/29/2020 11:36:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042384-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_201008F** QC Batch: **R147883** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	35	1.6	2.5		mg/L	50	10/8/2020 04:17 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042384
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID: **MB-R147845** SampType: **MBLK** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147845**
Client ID: **PBW** Batch ID: **R147845** TestNo: **SM4500-NO3** Analysis Date: **10/7/2020** SeqNo: **3960634**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID: **LCS-R147845** SampType: **LCS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147845**
Client ID: **LCSW** Batch ID: **R147845** TestNo: **SM4500-NO3** Analysis Date: **10/7/2020** SeqNo: **3960635**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.468	0.050	0.5000	0	93.5	85	115				

Sample ID: **N042383-012BDUP** SampType: **DUP** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147845**
Client ID: **ZZZZZZ** Batch ID: **R147845** TestNo: **SM4500-NO3** Analysis Date: **10/7/2020** SeqNo: **3960638**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050						0.03450	0	20	

Sample ID: **N042383-012BMS** SampType: **MS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147845**
Client ID: **ZZZZZZ** Batch ID: **R147845** TestNo: **SM4500-NO3** Analysis Date: **10/7/2020** SeqNo: **3960639**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.528	0.050	0.5000	0.03450	98.7	75	125				

Sample ID: **N042383-012BMSD** SampType: **MSD** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147845**
Client ID: **ZZZZZZ** Batch ID: **R147845** TestNo: **SM4500-NO3** Analysis Date: **10/7/2020** SeqNo: **3960640**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.574	0.050	0.5000	0.03450	108	75	125	0.5279	8.35	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042384
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID: **MB-R147883** SampType: **MBLK** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147883**
Client ID: **PBW** Batch ID: **R147883** TestNo: **SM4500-NO3** Analysis Date: **10/8/2020** SeqNo: **3960954**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID: **LCS-R147883** SampType: **LCS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147883**
Client ID: **LCSW** Batch ID: **R147883** TestNo: **SM4500-NO3** Analysis Date: **10/8/2020** SeqNo: **3960955**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.533	0.050	0.5000	0	107	85	115				

Sample ID: **N042404-005CDUP** SampType: **DUP** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147883**
Client ID: **ZZZZZZ** Batch ID: **R147883** TestNo: **SM4500-NO3** Analysis Date: **10/8/2020** SeqNo: **3960958**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050						0	0	20	

Sample ID: **N042404-005CMS** SampType: **MS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147883**
Client ID: **ZZZZZZ** Batch ID: **R147883** TestNo: **SM4500-NO3** Analysis Date: **10/8/2020** SeqNo: **3960959**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.547	0.050	0.5000	0	109	75	125				

Sample ID: **N042404-005CMSD** SampType: **MSD** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147883**
Client ID: **ZZZZZZ** Batch ID: **R147883** TestNo: **SM4500-NO3** Analysis Date: **10/8/2020** SeqNo: **3960960**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.545	0.050	0.5000	0	109	75	125	0.5473	0.439	20	

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *13-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-72BR-200-Q320
Lab Order:	N042384	**Collection Date:**	9/29/2020 1:45:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042384-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_200930C**	QC Batch: **82360**			PrepDate:		**9/30/2020**	Analyst: **CEI**
Arsenic	13	0.081	0.10		µg/L	1	9/30/2020 10:52 PM
Manganese	150	0.26	0.50		µg/L	1	9/30/2020 10:52 PM
Molybdenum	83	0.21	0.50		µg/L	1	9/30/2020 10:52 PM
Selenium	ND	0.36	0.50		µg/L	1	9/30/2020 10:52 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N042384
Project: PG&E Topock - GMP, RC000753.801D
Lab ID: N042384-002

Client Sample ID: MW-72-080-Q320
Collection Date: 9/29/2020 2:40:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_200930C**	QC Batch: **82360**				PrepDate:	**9/30/2020**	Analyst: **CEI**
Arsenic	6.8	0.081	0.10		µg/L	1	9/30/2020 11:01 PM
Manganese	86	0.26	0.50		µg/L	1	9/30/2020 11:01 PM
Molybdenum	81	0.21	0.50		µg/L	1	9/30/2020 11:01 PM
Selenium	1.4	0.36	0.50		µg/L	1	9/30/2020 11:01 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *13-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-58BR-Q320
Lab Order:	N042384	**Collection Date:**	9/29/2020 12:34:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042384-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_200930C**	QC Batch: **82360**			PrepDate:		**9/30/2020**	Analyst: **CEI**
Arsenic	1.0	0.081	0.10		µg/L	1	9/30/2020 11:10 PM
Manganese	290	1.3	2.5		µg/L	5	9/30/2020 11:24 PM
Molybdenum	29	0.21	0.50		µg/L	1	9/30/2020 11:10 PM
Selenium	2.0	0.36	0.50		µg/L	1	9/30/2020 11:10 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *13-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-65-225-Q320
Lab Order:	N042384	**Collection Date:**	9/29/2020 8:51:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042384-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_200930C**	QC Batch: **82360**			PrepDate:		**9/30/2020**	Analyst: **CEI**
Arsenic	ND	0.081	0.10		µg/L	1	9/30/2020 11:29 PM
Manganese	45	0.26	0.50		µg/L	1	9/30/2020 11:29 PM
Molybdenum	43	0.21	0.50		µg/L	1	9/30/2020 11:29 PM
Selenium	3.7	0.36	0.50		µg/L	1	9/30/2020 11:29 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *13-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-65-160-Q320
Lab Order:	N042384	**Collection Date:**	9/29/2020 9:25:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042384-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_200930C**	QC Batch: **82360**			PrepDate:		**9/30/2020**	Analyst: **CEI**
Arsenic	0.35	0.081	0.10		µg/L	1	9/30/2020 11:38 PM
Manganese	29	0.26	0.50		µg/L	1	9/30/2020 11:38 PM
Molybdenum	26	0.21	0.50		µg/L	1	9/30/2020 11:38 PM
Selenium	9.7	0.36	0.50		µg/L	1	9/30/2020 11:38 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *13-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-69-195-Q320
Lab Order:	N042384	**Collection Date:**	9/29/2020 10:36:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042384-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_200930C**	QC Batch: **82360**			PrepDate:		**9/30/2020**	Analyst: **CEI**
Arsenic	3.3	0.081	0.10		µg/L	1	9/30/2020 11:47 PM
Manganese	160	0.26	0.50		µg/L	1	9/30/2020 11:47 PM
Molybdenum	58	0.21	0.50		µg/L	1	9/30/2020 11:47 PM
Selenium	10	0.36	0.50		µg/L	1	9/30/2020 11:47 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *13-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-68-180-Q320
Lab Order:	N042384	**Collection Date:**	9/29/2020 11:36:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042384-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_200930C**	QC Batch: **82360**			PrepDate:		**9/30/2020**	Analyst: **CEI**
Arsenic	2.4	0.081	0.10		µg/L	1	9/30/2020 11:56 PM
Manganese	6.9	0.26	0.50		µg/L	1	9/30/2020 11:56 PM
Molybdenum	57	0.21	0.50		µg/L	1	9/30/2020 11:56 PM
Selenium	28	0.36	0.50		µg/L	1	9/30/2020 11:56 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042384
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: **MB-82360** SampType: **MBLK** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **9/30/2020** RunNo: **147780**
Client ID: **PBW** Batch ID: **82360** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **9/30/2020** SeqNo: **3954908**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: **LCS-82360** SampType: **LCS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **9/30/2020** RunNo: **147780**
Client ID: **LCSW** Batch ID: **82360** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **9/30/2020** SeqNo: **3954909**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.005	0.10	10.00	0	100	85	115				
Manganese	98.474	0.50	100.0	0	98.5	85	115				
Molybdenum	9.653	0.50	10.00	0	96.5	85	115				
Selenium	9.621	0.50	10.00	0	96.2	85	115				

Sample ID: **N042381-001E-MS** SampType: **MS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **9/30/2020** RunNo: **147780**
Client ID: **ZZZZZZ** Batch ID: **82360** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **9/30/2020** SeqNo: **3954917**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.261	0.10	10.00	0	103	75	125				
Manganese	100.321	0.50	100.0	3.115	97.2	75	125				
Molybdenum	27.768	0.50	10.00	16.56	112	75	125				
Selenium	11.115	0.50	10.00	1.079	100	75	125				

Sample ID: **N042381-001E-MSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **9/30/2020** RunNo: **147780**
Client ID: **ZZZZZZ** Batch ID: **82360** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **9/30/2020** SeqNo: **3954920**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.203	0.10	10.00	0	102	75	125	10.26	0.573	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042384
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: **N042381-001E-MSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **9/30/2020** RunNo: **147780**
Client ID: **ZZZZZZ** Batch ID: **82360** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **9/30/2020** SeqNo: **3954920**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	100.979	0.50	100.0	3.115	97.9	75	125	100.3	0.655	20	
Molybdenum	27.795	0.50	10.00	16.56	112	75	125	27.77	0.0962	20	
Selenium	11.087	0.50	10.00	1.079	100	75	125	11.12	0.257	20	

Qualifiers:

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

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

Contact us:
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691
California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F:562.219.7436
www.assetlaboratories.com

Client: Arcadis
Address: 1410 Rocky Ridge Dr # 330
Address: Roseville, CA 95661
Phone: 916-786-3302 Fax: Riggie Tep
Submitted By: ~~Spencer Decillie~~
Title: Field Tech
Signature: Date: 9/29/20
I hereby authorize ASSET Labs to perform the tests indicated below.
Project Name: PG&E Topock - GMP
Project Number: RC000753.801D

Report to: Dan Bush
Company: Arcadis
Email: dan.bush@arcadis.com
daniel.moore@critigen.com
Address: 1410 Rocky Ridge Dr # 330
Roseville, CA 95661
Phone: 916-786-3302 Fax:
Sampled By: Riggie Tep
I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
Signature: Date: 9/29/20

Bill to: Marty Bloes
Address:
Address:
Email to: mbloes@pivox.com
P.O.# SWA-ASSET-C9817-057
Phone: 949-727-1400, ext 200
Fax:

EDD Requirement: Excel EDD; Geotracker; Labspec; Others Ü
Specify: RWQCB
Global ID:

QA/QC: RTNE; RWQCB Ü; CalTrans; LEVEL III; LEVEL IV; Regulatory
Specify State:

Sample Receipt Condition (Y / N):
1. Chilled ✓
2. Headspace
3. Container Intact ✓
4. Seal Present ✓
5. IR number 2
6. Method of Cooling: ICE
Sample Temp: 1.9°C / 32°F

Courier: ASSET
Tracking No.:

Matrix: Ground x; Sediment; Potable; Soil; NPDES; Other Solid; Surface

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (250 mL poly)	Oxygen and Deuterium Isotopes (CFIRM), Ice (250 mL poly)	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (2x250 mL poly)	Alkalinity, Total as CaCO3 (SM2320B) (1 liter poly)	Bromide, Sulfate, Chloride (EPA 300.0) (1 liter poly)	Fluoride (EPA 300.0) (1 liter poly)	Specific Conductance (EPA 120.1) (1 liter poly)	Total Dissolved Solids (SM92540) (1 liter poly)	Nitrate/Nitrite (SM4500N03) Nitrate; H2SO4 (125 mL poly)	Total Organic Carbon (SM5310C); H2SO4 (3x40 mL poly)	Dissolved metals (SW 6020), HNO3 As, Cr, Mn (500 mL poly)	Dissolved Metals (SW 6020B); HNO3 As, Cr, Mn, Mo, Se (500 mL poly)	Dissolved metals (SW 6020), HNO3 Cr, Mo, Se (500 mL poly)	Dissolved Metals (SW 6010B); HNO3 Chromium (500 mL poly)	Metals Dissolved (EPA7470A FF) Hg: HNO3 (500 mL poly)	Dissolved Metals (SW 6010B); HNO3 Potassium (500 mL poly)	Total metals, Chromium (non-[illegible]) (EPA 200.8), HNO3 (500 mL poly)	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
1	N042384-01	MW-72BR-200-Q320	9/29/2020	13:45		X						X		X			X						E	4	P	BNS	
2	-02	MW-72-080-Q320	9/29/2020	14:40		X						X		X			X						E	4	P	BNS	
3	-03	MW-58BR-Q320	9/29/2020	12:34		X						X		X			X						E	4	P	BNS	
4	-04	MW-65-225-Q320	9/29/2020	8:31		X						X		X			X						E	4	P	BNS	
5	-05	MW-65-160-Q320	9/29/2020	9:25		X						X		X			X						E	4	P	BNS	
6	-06	MW-69-195-Q320	9/29/2020	10:36		X						X		X			X						E	4	P	BNS	
7	-07	MW-68-180-Q320	9/29/2020	11:36		X						X		X			X						E	4	P	BNS	
8	-08	EB-775-Q320	9/29/2020	15:00		X																	E	1	P	BNS	
9																											
10																											
11																											
12																											

Relinquished by (Signature and Printed Name)	Date/Time	Received by (Signature and Printed Name)	Date/Time
Riggie Tep	9/29/20 1605	[illegible]	9/29/20 1605
[illegible]	9/29/20 1810	Noandra Rodriguez	9/29/20 1810

Turn Around Time (TAT)
- A < 24 Hrs or Same Day TAT
- B = Next Workday
- C = 2 Workdays
- D = 3 Workdays
- X E = Routine 5-7 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Special Instruction:
Tittle 22 Metals - Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
Less than 24 Hrs.=200% Next Day=100% 2 Workdays=50% 3 Workdays=35 % 4 Workdays=20%
3. Custom EDD formats will be an additional 3% of the total project price.
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
5. Trip Blanks and Equipment Blanks are billable sample.
6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
7. Terms are net 30 days.
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
9. For subcontract analysis, TAT and Surcharges will vary.5. Trip Blanks and Equipment Blanks are billable sample.
6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
7. Terms are net 30 days.
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.

Preservatives:
H=HCL; N=$HNO_{3N=HNO3}$; S=$H_2SO_{4S=H2}SO_4$; C=4°C=4°; Z=$Zn(AC)_{2Z=Zn(AC)2}$; O=NaOH; T=$Na_2S_2O_{3T=Na2S2}$; Others/Specify: B (NH4)2SO4/NH4OH

Container Type:
T=Tube; V=VOA; P=Pint; J=Jar; B=Tedlar; G=Glass; M=Metal; M=Metal; C=Can

White=Laboratory Copy
Yellow=Customer's Copy

ASSET Laboratories

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

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

Cooler Received/Opened On:	9/29/2020	Workorder:	N042384
Rep sample Temp (Deg C):	1.9/3.2	IR Gun ID:	2
Temp Blank:	☑ Yes ☐ No		
Carrier name:	ASSET		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

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

Comments: See Correspondence.

For:

Checklist Completed By: YR BHdez 9/30/2020

Reviewed By: MBC 10/02/2020

Subject: RE: PG&E Topock - GMP, RC000753.801D (ASSET Labs No. N042384)
From: "Madsen, Laura" <Laura.Madsen@arcadis.com>
Date: 9/30/2020, 3:23 PM
To: Yoandra Rodriguez <yoandra@assetlaboratories.com>
CC: Tina Rice <Tina.Rice@critigen.com>, "maryann.balilu@assetlaboratoriesph.com" <maryann.balilu@assetlaboratoriesph.com>, "rustico.aquino@assetlaboratoriesph.com" <rustico.aquino@assetlaboratoriesph.com>

Hi,
Please use the time on the labels, 8:51 am.

Thanks,
Laura

-----Original Message-----
From: Yoandra Rodriguez <yoandra@assetlaboratories.com>
Sent: Wednesday, September 30, 2020 5:14 PM
To: Madsen, Laura <Laura.Madsen@arcadis.com>
Cc: Tina Rice <Tina.Rice@critigen.com>; maryann.balilu@assetlaboratoriesph.com; rustico.aquino@assetlaboratoriesph.com
Subject: PG&E Topock - GMP, RC000753.801D (ASSET Labs No. N042384)

Hi Laura,

Please kindly advise on the following discrepancy for the attached COC:

- Sample 4 (MW-65-225-Q320): Collection time is 8:31 am on COC and 8:51 am on labels.

Thanks,

--
This email has been checked for viruses by Avast antivirus software.
https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.avast.com%2Fantivirus&data=02%7C01%7C%7Cff235e7ec8d8491b6f4608d8658df5e2%7C7f90057d3ea046feb07ce0568627081b%7C0%7C0%7C6373710078070601amp;sdata=DuTjguNrgwyRobMetPleK3p2EwksToNmcWAUlEjkBYY%3D&reserved=0
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ASSET Laboratories

WORK ORDER Summary

30-Sep-20

WorkOrder: N042384

Client ID: ARCUS02

Project: PG&E Topock - GMP, RC000753.801D **QC Level:** Level IV **Date Received:** 9/29/2020

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N042384-001A	MW-72BR-200-Q320	9/29/2020 1:45:00 PM	10/9/2020	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N042384-001B			10/9/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
N042384-001C			10/9/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N042384-001D			10/9/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			10/9/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			10/9/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N042384-002A	MW-72-080-Q320	9/29/2020 2:40:00 PM	10/9/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N042384-002B			10/9/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
N042384-002C			10/9/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N042384-002D			10/9/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			10/9/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			10/9/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N042384-003A	MW-58BR-Q320	9/29/2020 12:34:00 PM	10/9/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N042384-003B			10/9/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
N042384-003C			10/9/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N042384-003D			10/9/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			10/9/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			10/9/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N042384-004A	MW-65-225-Q320	9/29/2020 8:51:00 AM	10/9/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N042384-004B			10/9/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
N042384-004C			10/9/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

30-Sep-20

WorkOrder: N042384

Client ID: ARCUS02

Project: PG&E Topock - GMP, RC000753.801D **QC Level:** Level IV **Date Received:** 9/29/2020

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N042384-004D	MW-65-225-Q320	9/29/2020 8:51:00 AM	10/9/2020	Groundwater	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			10/9/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			10/9/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N042384-005A	MW-65-160-Q320	9/29/2020 9:25:00 AM	10/9/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N042384-005B			10/9/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
N042384-005C			10/9/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N042384-005D			10/9/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			10/9/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			10/9/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N042384-006A	MW-69-195-Q320	9/29/2020 10:36:00 AM	10/9/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N042384-006B			10/9/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
N042384-006C			10/9/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N042384-006D			10/9/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			10/9/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			10/9/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N042384-007A	MW-68-180-Q320	9/29/2020 11:36:00 AM	10/9/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N042384-007B			10/9/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
N042384-007C			10/9/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N042384-007D			10/9/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			10/9/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			10/9/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

30-Sep-20

WorkOrder: N042384

Client ID: ARCUS02

Project: PG&E Topock - GMP, RC000753.801D **QC Level:** Level IV **Date Received:** 9/29/2020

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N042384-008A	EB-775-Q320	9/29/2020 3:00:00 PM	10/9/2020	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N042384-009A	FOLDER	10/13/2020	10/9/2020		EDD	RWQCB	☐	☐	☐	LAB
			10/9/2020		Folder	Level IV Report	☐	☐	☐	LAB
			10/9/2020		Folder	Folder	☐	☐	☐	LAB
			10/13/2020		Folder	Folder	☐	☐	☐	LAB

October 14, 2020

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661

TEL: (916) 786-3302
FAX:

Workorder No.: N042404

RE: PG&E Topock - GMP, RC000753.801D

Attention: Dan Bush

Enclosed are the results for sample(s) received on September 30, 2020 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Nancy Sibucao
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - Las Vegas.

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

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

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

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

Samples were analyzed within method holding time.

Analytical Comments for EPA 218.6:

Because the results for total dissolved chromium (2.3 ug/L) and hexavalent chromium (1.3 ug/L) for sample N042404-004 (MW-63-065-Q320) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

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

Analytical Comments for EPA 6020_Dissolved:

Because the results for total dissolved chromium (2.3 ug/L) and hexavalent chromium (1.3 ug/L) for sample N042404-004 (MW-63-065-Q320) are discrepant, sample from both the total dissolved chromium and hexavalent chromium containers were redigested and analyzed for total dissolved chromium. The results from the redigested samples were 2.3 and 2.0 ug/L, respectively. Since these data confirmed the original result for total dissolved chromium, the original result is reported.

Matrix Spike (MS) is outside recovery criteria for Selenium in QC samples N042404-005DMS possibly due to matrix interference. Post Spike (PS) passed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

ASSET Laboratories

Date: *14-Oct-20*

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - GMP, RC000753.801D
Lab Order: N042404
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N042404-001A	MW-60BR-245-Q320	Groundwater	9/30/2020 8:21:00 AM	9/30/2020	10/14/2020
N042404-001B	MW-60BR-245-Q320	Groundwater	9/30/2020 8:21:00 AM	9/30/2020	10/14/2020
N042404-001C	MW-60BR-245-Q320	Groundwater	9/30/2020 8:21:00 AM	9/30/2020	10/14/2020
N042404-001D	MW-60BR-245-Q320	Groundwater	9/30/2020 8:21:00 AM	9/30/2020	10/14/2020
N042404-002A	MW-64BR-Q320	Groundwater	9/30/2020 9:08:00 AM	9/30/2020	10/14/2020
N042404-002B	MW-64BR-Q320	Groundwater	9/30/2020 9:08:00 AM	9/30/2020	10/14/2020
N042404-002C	MW-64BR-Q320	Groundwater	9/30/2020 9:08:00 AM	9/30/2020	10/14/2020
N042404-002D	MW-64BR-Q320	Groundwater	9/30/2020 9:08:00 AM	9/30/2020	10/14/2020
N042404-003A	MW-62-065-Q320	Groundwater	9/30/2020 2:52:00 PM	9/30/2020	10/14/2020
N042404-003B	MW-62-065-Q320	Groundwater	9/30/2020 2:52:00 PM	9/30/2020	10/14/2020
N042404-003C	MW-62-065-Q320	Groundwater	9/30/2020 2:52:00 PM	9/30/2020	10/14/2020
N042404-003D	MW-62-065-Q320	Groundwater	9/30/2020 2:52:00 PM	9/30/2020	10/14/2020
N042404-004A	MW-63-065-Q320	Groundwater	9/30/2020 1:56:00 PM	9/30/2020	10/14/2020
N042404-004B	MW-63-065-Q320	Groundwater	9/30/2020 1:56:00 PM	9/30/2020	10/14/2020
N042404-004C	MW-63-065-Q320	Groundwater	9/30/2020 1:56:00 PM	9/30/2020	10/14/2020
N042404-004D	MW-63-065-Q320	Groundwater	9/30/2020 1:56:00 PM	9/30/2020	10/14/2020
N042404-005A	MW-62-110-Q320	Groundwater	9/30/2020 3:20:00 PM	9/30/2020	10/14/2020
N042404-005B	MW-62-110-Q320	Groundwater	9/30/2020 3:20:00 PM	9/30/2020	10/14/2020
N042404-005C	MW-62-110-Q320	Groundwater	9/30/2020 3:20:00 PM	9/30/2020	10/14/2020
N042404-005D	MW-62-110-Q320	Groundwater	9/30/2020 3:20:00 PM	9/30/2020	10/14/2020
N042404-006A	MW-38S-SMT-Q320	Groundwater	9/30/2020 3:00:00 PM	9/30/2020	10/14/2020
N042404-006B	MW-38S-SMT-Q320	Groundwater	9/30/2020 3:00:00 PM	9/30/2020	10/14/2020
N042404-006C	MW-38S-SMT-Q320	Groundwater	9/30/2020 3:00:00 PM	9/30/2020	10/14/2020
N042404-006D	MW-38S-SMT-Q320	Groundwater	9/30/2020 3:00:00 PM	9/30/2020	10/14/2020
N042404-007A	MW-73-080-Q320	Groundwater	9/30/2020 10:21:00 AM	9/30/2020	10/14/2020
N042404-007B	MW-73-080-Q320	Groundwater	9/30/2020 10:21:00 AM	9/30/2020	10/14/2020
N042404-007C	MW-73-080-Q320	Groundwater	9/30/2020 10:21:00 AM	9/30/2020	10/14/2020
N042404-007D	MW-73-080-Q320	Groundwater	9/30/2020 10:21:00 AM	9/30/2020	10/14/2020
N042404-008A	EB-778-Q320	Groundwater	9/30/2020 3:15:00 PM	9/30/2020	10/14/2020

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *14-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-60BR-245-Q320
Lab Order:	N042404	**Collection Date:**	9/30/2020 8:21:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042404-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_201001C**	QC Batch: **R147685**			PrepDate:			Analyst: **LR**
Specific Conductance	17000	0.10	0.10		umhos/cm	1	10/1/2020 01:50 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *14-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-64BR-Q320
Lab Order:	N042404	**Collection Date:**	9/30/2020 9:08:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042404-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_201001C**	QC Batch: **R147685**			PrepDate:			Analyst: **LR**
Specific Conductance	13000	0.10	0.10		umhos/cm	1	10/1/2020 01:50 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *14-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-62-065-Q320
Lab Order:	N042404	**Collection Date:**	9/30/2020 2:52:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042404-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_201001C**	QC Batch: **R147685**			PrepDate:			Analyst: **LR**
Specific Conductance	6000	0.10	0.10		umhos/cm	1	10/1/2020 01:50 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *14-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-63-065-Q320
Lab Order:	N042404	**Collection Date:**	9/30/2020 1:56:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042404-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_201001C**	QC Batch: **R147685**			PrepDate:			Analyst: **LR**
Specific Conductance	6800	0.10	0.10		umhos/cm	1	10/1/2020 01:50 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-62-110-Q320
Lab Order:	N042404	**Collection Date:**	9/30/2020 3:20:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042404-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_201001C**	QC Batch: **R147685**			PrepDate:			Analyst: **LR**
Specific Conductance	12000	0.10	0.10		umhos/cm	1	10/1/2020 01:50 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *14-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-38S-SMT-Q320
Lab Order:	N042404	**Collection Date:**	9/30/2020 3:00:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042404-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_201001C**	QC Batch: **R147685**			PrepDate:			Analyst: **LR**
Specific Conductance	1600	0.10	0.10		umhos/cm	1	10/1/2020 01:50 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *14-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-73-080-Q320
Lab Order:	N042404	**Collection Date:**	9/30/2020 10:21:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042404-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_201001C**	QC Batch: **R147685**			PrepDate:			Analyst: **LR**
Specific Conductance	6400	0.10	0.10		umhos/cm	1	10/1/2020 01:50 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042404
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 120.1_WPGE

Sample ID: **N042404-001BDUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **147685**
Client ID: **ZZZZZZ** Batch ID: **R147685** TestNo: **EPA 120.1** Analysis Date: **10/1/2020** SeqNo: **3950234**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	17020.000	0.10						17030	0.0587	2	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *14-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-60BR-245-Q320
Lab Order:	N042404	**Collection Date:**	9/30/2020 8:21:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042404-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_201003A** QC Batch: **R147755** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	21	0.17	1.0		µg/L	5	10/3/2020 12:43 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_201003A** QC Batch: **82381** PrepDate: **10/1/2020** Analyst: **CEI**							
Chromium	22	0.13	1.0		µg/L	1	10/3/2020 01:45 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *14-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-64BR-Q320
Lab Order:	N042404	**Collection Date:**	9/30/2020 9:08:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042404-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_201003A** QC Batch: **R147755** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.17	1.0		µg/L	5	10/3/2020 02:59 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_201003A** QC Batch: **82381** PrepDate: **10/1/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	10/3/2020 01:59 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *14-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-62-065-Q320
Lab Order:	N042404	**Collection Date:**	9/30/2020 2:52:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042404-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_201003A** QC Batch: **R147755** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	590	3.3	20		µg/L	100	10/3/2020 12:06 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_201003A** QC Batch: **82381** PrepDate: **10/1/2020** Analyst: **CEI**							
Chromium	610	0.65	5.0		µg/L	5	10/3/2020 02:26 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-63-065-Q320
Lab Order:	N042404	**Collection Date:**	9/30/2020 1:56:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042404-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_201003A** QC Batch: **R147755** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	1.3	0.033	0.20		µg/L	1	10/3/2020 11:47 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_201003A** QC Batch: **82381** PrepDate: **10/1/2020** Analyst: **CEI**							
Chromium	2.3	0.13	1.0		µg/L	1	10/3/2020 02:36 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-62-110-Q320
Lab Order:	N042404	**Collection Date:**	9/30/2020 3:20:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042404-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_201003A** QC Batch: **R147755** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.17	1.0		µg/L	5	10/3/2020 06:10 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_201003A** QC Batch: **82381** PrepDate: **10/1/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	10/3/2020 10:31 AM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-38S-SMT-Q320
Lab Order:	N042404	**Collection Date:**	9/30/2020 3:00:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042404-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_201004A** QC Batch: **R147772** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	4.5	0.033	0.20		µg/L	1	10/4/2020 08:41 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_201003A** QC Batch: **82381** PrepDate: **10/1/2020** Analyst: **CEI**							
Chromium	5.4	0.13	1.0		µg/L	1	10/3/2020 02:49 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *14-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-73-080-Q320
Lab Order:	N042404	**Collection Date:**	9/30/2020 10:21:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042404-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_201004A** QC Batch: **R147772** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	18	0.17	1.0		µg/L	5	10/4/2020 08:51 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_201003A** QC Batch: **82381** PrepDate: **10/1/2020** Analyst: **CEI**							
Chromium	21	0.13	1.0		µg/L	1	10/3/2020 03:12 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	EB-778-Q320
Lab Order:	N042404	**Collection Date:**	9/30/2020 3:15:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042404-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_201004A** QC Batch: **R147772** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	10/4/2020 01:35 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042404
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **MB-R147755** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **PBW** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952762**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **LCS-R147755** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **LCSW** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952763**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.953	0.20	5.000	0	99.1	90	110				

Sample ID: **N042382-011AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952765**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	121.667	2.0	50.00	71.75	99.8	90	110				

Sample ID: **N042404-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952767**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.343	1.0	5.000	0.4130	98.6	90	110				

Sample ID: **N042404-005AMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952768**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.206	1.0	5.000	0.4130	95.9	90	110	5.342	2.59	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042404
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N042382-011ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952771**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	71.001	2.0						71.75	1.05	20	

Sample ID: **N042384-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952773**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	518.735	10	250.0	261.8	103	90	110				

Sample ID: **N042384-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952775**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	492.570	10	250.0	244.1	99.4	90	110				

Sample ID: **N042384-007AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952777**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	78844.000	1000	25000	53840	100	90	110				

Sample ID: **N042403-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952781**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.780	0.20	1.000	0.7707	101	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042404
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N042403-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952783**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	49.928	1.0	25.00	24.42	102	90	110				

Sample ID: **N042403-006AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952785**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	15.048	0.20	5.000	9.949	102	90	110				

Sample ID: **N042403-007AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952789**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.439	0.20	1.000	1.366	107	90	110				

Sample ID: **N042403-008AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952791**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.362	0.20	5.000	4.140	104	90	110				

Sample ID: **N042404-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952793**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.298	0.20	1.000	1.264	103	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042404
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N042404-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952795**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1084.840	20	500.0	586.4	99.7	90	110				

Sample ID: **N042404-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952799**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	45.847	1.0	25.00	20.99	99.4	90	110				

Sample ID: **N042384-008AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952801**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.985	0.20	1.000	0	98.5	90	110				

Sample ID: **N042403-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952803**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.017	0.20	1.000	0	102	90	110				

Sample ID: **N042403-009AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952805**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.037	0.20	1.000	0	104	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042404
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N042384-006AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952807**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	597.630	10	250.0	354.2	97.4	90	110				

Sample ID: **N042403-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952811**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.448	1.0	5.000	0.6535	95.9	90	110				

Sample ID: **N042404-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147755**
Client ID: **ZZZZZZ** Batch ID: **R147755** TestNo: **EPA 218.6** Analysis Date: **10/3/2020** SeqNo: **3952813**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.935	1.0	5.000	0	98.7	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042404
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **MB-R147772** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **PBW** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954239**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **LCS-R147772** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **LCSW** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954240**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.930	0.20	5.000	0	98.6	90	110				

Sample ID: **N042404-006AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954251**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.328	0.20	5.000	4.457	97.4	90	110				

Sample ID: **N042404-006AMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954252**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.528	0.20	5.000	4.457	101	90	110	9.328	2.12	20	

Sample ID: **N042434-001ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954253**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.971	0.20						0.9608	1.08	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042404
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N042434-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954254**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.945	0.20	1.000	0.9608	98.4	90	110				

Sample ID: **N042429-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954255**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1080.060	20	500.0	580.4	99.9	90	110				

Sample ID: **N042430-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954256**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	8.531	0.20	5.000	3.354	104	90	110				

Sample ID: **N042404-007AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954257**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	42.856	1.0	25.00	17.54	101	90	110				

Sample ID: **N042430-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954258**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	8.575	0.20	5.000	3.356	104	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042404
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N042430-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954259**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.006	0.20	1.000	0	101	90	110				

Sample ID: **N042430-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954263**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.894	1.0	5.000	5.082	96.2	90	110				

Sample ID: **N042435-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954265**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.543	0.20	1.000	0.5348	101	90	110				

Sample ID: **N042435-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954267**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.088	0.20	1.000	1.008	108	90	110				

Sample ID: **N042403-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954269**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.490	1.0	5.000	0.5955	97.9	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042404
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N042404-008AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954273**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.003	0.20	1.000	0	100	90	110				

Sample ID: **N042429-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954275**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.978	0.20	1.000	0	97.8	90	110				

Sample ID: **N042430-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954277**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.999	0.20	1.000	0	99.9	90	110				

Sample ID: **N042434-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954279**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.993	0.20	1.000	0	99.3	90	110				

Sample ID: **N042435-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954281**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.997	0.20	1.000	0	99.7	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042404
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: **MB-82381** SampType: **MBLK** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **10/1/2020** RunNo: **147846**
Client ID: **PBW** Batch ID: **82381** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/3/2020** SeqNo: **3958402**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID: **LCS-82381** SampType: **LCS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **10/1/2020** RunNo: **147846**
Client ID: **LCSW** Batch ID: **82381** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/3/2020** SeqNo: **3958403**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.634	1.0	10.00	0	96.3	85	115				

Sample ID: **N042404-005DMS** SampType: **MS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **10/1/2020** RunNo: **147846**
Client ID: **ZZZZZZ** Batch ID: **82381** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/3/2020** SeqNo: **3958411**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.997	1.0	10.00	0.9316	90.7	75	125				

Sample ID: **N042404-005DMSD** SampType: **MSD** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **10/1/2020** RunNo: **147846**
Client ID: **ZZZZZZ** Batch ID: **82381** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/3/2020** SeqNo: **3958416**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	10.124	1.0	10.00	0.9316	91.9	75	125	9.997	1.26	20	

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-60BR-245-Q320
Lab Order:	N042404	**Collection Date:**	9/30/2020 8:21:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042404-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_201008F** QC Batch: **R147883** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.18	0.032	0.050		mg/L	1	10/8/2020 04:05 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *14-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-64BR-Q320
Lab Order:	N042404	**Collection Date:**	9/30/2020 9:08:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042404-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_201008F** QC Batch: **R147883** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	ND	0.032	0.050		mg/L	1	10/8/2020 04:12 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *14-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-62-065-Q320
Lab Order:	N042404	**Collection Date:**	9/30/2020 2:52:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042404-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_201008F** QC Batch: **R147883** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	5.1	0.16	0.25		mg/L	5	10/8/2020 04:15 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *14-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-63-065-Q320
Lab Order:	N042404	**Collection Date:**	9/30/2020 1:56:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042404-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_201008F** QC Batch: **R147883** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	2.4	0.063	0.10		mg/L	2	10/8/2020 04:14 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *14-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-62-110-Q320
Lab Order:	N042404	**Collection Date:**	9/30/2020 3:20:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042404-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_201008F** QC Batch: **R147883** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	ND	0.032	0.050		mg/L	1	10/8/2020 04:06 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *14-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-38S-SMT-Q320
Lab Order:	N042404	**Collection Date:**	9/30/2020 3:00:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042404-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_201008F** QC Batch: **R147883** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	6.0	0.16	0.25		mg/L	5	10/8/2020 04:16 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *14-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-73-080-Q320
Lab Order:	N042404	**Collection Date:**	9/30/2020 10:21:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042404-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_201008F** QC Batch: **R147883** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	4.5	0.16	0.25		mg/L	5	10/8/2020 04:13 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042404
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID: **MB-R147883** SampType: **MBLK** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147883**
Client ID: **PBW** Batch ID: **R147883** TestNo: **SM4500-NO3** Analysis Date: **10/8/2020** SeqNo: **3960954**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID: **LCS-R147883** SampType: **LCS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147883**
Client ID: **LCSW** Batch ID: **R147883** TestNo: **SM4500-NO3** Analysis Date: **10/8/2020** SeqNo: **3960955**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.533	0.050	0.5000	0	107	85	115				

Sample ID: **N042404-005CDUP** SampType: **DUP** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147883**
Client ID: **ZZZZZZ** Batch ID: **R147883** TestNo: **SM4500-NO3** Analysis Date: **10/8/2020** SeqNo: **3960958**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050						0	0	20	

Sample ID: **N042404-005CMS** SampType: **MS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147883**
Client ID: **ZZZZZZ** Batch ID: **R147883** TestNo: **SM4500-NO3** Analysis Date: **10/8/2020** SeqNo: **3960959**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.547	0.050	0.5000	0	109	75	125				

Sample ID: **N042404-005CMSD** SampType: **MSD** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147883**
Client ID: **ZZZZZZ** Batch ID: **R147883** TestNo: **SM4500-NO3** Analysis Date: **10/8/2020** SeqNo: **3960960**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.545	0.050	0.5000	0	109	75	125	0.5473	0.439	20	

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *14-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-60BR-245-Q320
Lab Order:	N042404	**Collection Date:**	9/30/2020 8:21:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042404-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_201008A**	QC Batch: **82381**				PrepDate:	**10/1/2020**	Analyst: **CEI**
Arsenic	ND	0.081	0.10		µg/L	1	10/8/2020 03:06 PM
Manganese	2.0	0.26	0.50		µg/L	1	10/3/2020 01:45 PM
Molybdenum	63	0.21	0.50		µg/L	1	10/3/2020 01:45 PM
Selenium	3.4	0.36	0.50		µg/L	1	10/8/2020 03:06 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *14-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-64BR-Q320
Lab Order:	N042404	**Collection Date:**	9/30/2020 9:08:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042404-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_201008A**	QC Batch: **82381**				PrepDate:	**10/1/2020**	Analyst: **CEI**
Arsenic	ND	0.081	0.10		µg/L	1	10/8/2020 03:15 PM
Manganese	1000	6.4	12		µg/L	25	10/3/2020 02:17 PM
Molybdenum	66	0.21	0.50		µg/L	1	10/3/2020 01:59 PM
Selenium	ND	0.36	0.50		µg/L	1	10/8/2020 03:15 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *14-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-62-065-Q320
Lab Order:	N042404	**Collection Date:**	9/30/2020 2:52:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042404-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_201008A**	QC Batch: **82381**			PrepDate:		**10/1/2020**	Analyst: **CEI**
Arsenic	ND	0.081	0.10		µg/L	1	10/8/2020 12:03 PM
Manganese	3.3	0.26	0.50		µg/L	1	10/3/2020 02:22 PM
Molybdenum	13	0.21	0.50		µg/L	1	10/3/2020 02:22 PM
Selenium	4.7	0.36	0.50		µg/L	1	10/8/2020 12:03 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *14-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-63-065-Q320
Lab Order:	N042404	**Collection Date:**	9/30/2020 1:56:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042404-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_201008A**	QC Batch: **82381**			PrepDate:		**10/1/2020**	Analyst: **CEI**
Arsenic	ND	0.081	0.10		µg/L	1	10/8/2020 12:08 PM
Manganese	1.7	0.26	0.50		µg/L	1	10/3/2020 02:36 PM
Molybdenum	17	0.21	0.50		µg/L	1	10/3/2020 02:36 PM
Selenium	1.3	0.36	0.50		µg/L	1	10/8/2020 12:08 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *14-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-62-110-Q320
Lab Order:	N042404	**Collection Date:**	9/30/2020 3:20:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042404-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_201008A**	QC Batch: **82381**				PrepDate:	**10/1/2020**	Analyst: **CEI**
Arsenic	ND	0.081	0.10		µg/L	1	10/8/2020 10:50 AM
Manganese	140	1.3	2.5		µg/L	5	10/3/2020 10:36 AM
Molybdenum	47	0.21	0.50		µg/L	1	10/3/2020 10:31 AM
Selenium	ND	0.36	0.50		µg/L	1	10/8/2020 10:50 AM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *14-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-38S-SMT-Q320
Lab Order:	N042404	**Collection Date:**	9/30/2020 3:00:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042404-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_201008A**	QC Batch: **82381**			PrepDate:		**10/1/2020**	Analyst: **CEI**
Arsenic	6.3	0.081	0.10		µg/L	1	10/8/2020 12:13 PM
Manganese	140	0.26	0.50		µg/L	1	10/3/2020 02:49 PM
Molybdenum	22	0.21	0.50		µg/L	1	10/3/2020 02:49 PM
Selenium	3.9	0.36	0.50		µg/L	1	10/8/2020 12:13 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *14-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-73-080-Q320
Lab Order:	N042404	**Collection Date:**	9/30/2020 10:21:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042404-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_201008A**	QC Batch: **82381**			PrepDate:		**10/1/2020**	Analyst: **CEI**
Arsenic	0.29	0.081	0.10		µg/L	1	10/8/2020 12:31 PM
Manganese	8.3	0.26	0.50		µg/L	1	10/3/2020 03:12 PM
Molybdenum	47	0.21	0.50		µg/L	1	10/3/2020 03:12 PM
Selenium	4.6	0.36	0.50		µg/L	1	10/8/2020 12:31 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042404
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: **MB-82381** SampType: **MBLK** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/1/2020** RunNo: **147846**
Client ID: **PBW** Batch ID: **82381** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/3/2020** SeqNo: **3958564**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	0.50									
Molybdenum	ND	0.50									

Sample ID: **LCS-82381** SampType: **LCS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/1/2020** RunNo: **147846**
Client ID: **LCSW** Batch ID: **82381** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/3/2020** SeqNo: **3958565**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	97.670	0.50	100.0	0	97.7	85	115				
Molybdenum	9.673	0.50	10.00	0	96.7	85	115				

Sample ID: **N042404-005DMS** SampType: **MS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/1/2020** RunNo: **147846**
Client ID: **ZZZZZZ** Batch ID: **82381** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/3/2020** SeqNo: **3958573**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	57.615	0.50	10.00	46.51	111	75	125				

Sample ID: **N042404-005DMS** SampType: **MS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/1/2020** RunNo: **147846**
Client ID: **ZZZZZZ** Batch ID: **82381** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/3/2020** SeqNo: **3958576**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	239.818	2.5	100.0	143.6	96.3	75	125				

Sample ID: **N042404-005DMSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/1/2020** RunNo: **147846**
Client ID: **ZZZZZZ** Batch ID: **82381** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/3/2020** SeqNo: **3958578**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	57.788	0.50	10.00	46.51	113	75	125	57.61	0.301	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042404
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: **N042404-005DMSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/1/2020** RunNo: **147846**
Client ID: **ZZZZZZ** Batch ID: **82381** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/3/2020** SeqNo: **3958579**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	240.020	2.5	100.0	143.6	96.5	75	125	239.8	0.0838	20	

Sample ID: **MB-82381** SampType: **MBLK** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/1/2020** RunNo: **147959**
Client ID: **PBW** Batch ID: **82381** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/8/2020** SeqNo: **3965952**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Selenium	ND	0.50									

Sample ID: **LCS-82381** SampType: **LCS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/1/2020** RunNo: **147959**
Client ID: **LCSW** Batch ID: **82381** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/8/2020** SeqNo: **3965953**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.398	0.10	10.00	0	104	85	115				
Selenium	9.918	0.50	10.00	0	99.2	85	115				

Sample ID: **N042404-005DMS** SampType: **MS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/1/2020** RunNo: **147959**
Client ID: **ZZZZZZ** Batch ID: **82381** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/8/2020** SeqNo: **3965957**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.713	0.10	10.00	0	107	75	125				
Selenium	12.568	0.50	10.00	0	126	75	125				S

Sample ID: **N042404-005DMSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/1/2020** RunNo: **147959**
Client ID: **ZZZZZZ** Batch ID: **82381** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/8/2020** SeqNo: **3965958**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.397	0.10	10.00	0	104	75	125	10.71	2.99	20	
Selenium	11.284	0.50	10.00	0	113	75	125	12.57	10.8	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042404
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: **N042404-005D-PS** SampType: **PS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: RunNo: **147846**
Client ID: **ZZZZZZ** Batch ID: **82381** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/3/2020** SeqNo: **3958570**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	57.409	0.50	10.00	46.51	109	80	120				

Sample ID: **N042404-005D-PS** SampType: **PS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: RunNo: **147846**
Client ID: **ZZZZZZ** Batch ID: **82381** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/3/2020** SeqNo: **3958571**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	235.942	2.5	100.0	143.6	92.4	80	120				

Sample ID: **N042404-005D-PS** SampType: **PS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: RunNo: **147959**
Client ID: **ZZZZZZ** Batch ID: **82381** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/8/2020** SeqNo: **3965956**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.819	0.10	10.00	0	108	80	120				
Selenium	10.836	0.50	10.00	0	108	80	120				

Qualifiers:

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

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

Page 1 of 1

Contact us:
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691
California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F:562.219.7436
www.assetlaboratories.com

Client: Arcadis	Report to: Dan Bush	Bill to: Marty Bloes	
Address: 1410 Rocky Ridge Dr # 330	Company: Arcadis	Address:	
Address: Roseville, CA 95661	Email: dan.bush@arcadis.com, daniel.moore@critigen.com	Address:	
Phone: 916-786-3302 Fax: Riggie Tep	Address: 1410 Rocky Ridge Dr # 330 Roseville, CA 95661	Email to: mbloes@pivox.com	P.O.#: SWA-ASSET-C9817-057
Submitted By: ~~Spencer Doolittle~~		Phone: 949-727-1400, ext 200	Fax:
Title: Field Tech	Phone: 916-786-3302 Fax:		
Signature: Date: 9/30/20	Sampled By: Riggie Tep		
I hereby authorize ASSET Labs to perform the tests indicated below.	I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.		
Project Name: PG&E Topock - GMP	Signature: Date: 9/30/20		
Project Number: RC000753.801D			

EDD Requirement		QA/QC		Sample Receipt Condition	Y	N
Excel EDD		RTNE		1. Chilled	✓	
Geotracker		RWQCB	ü	2. Headspace		
Labspec		CalTrans		3. Container Intact	✓	
Others	ü	LEVEL III		4. Seal Present		✓
Specify: RWQCB		LEVEL IV		5. IR number	2	
Global ID:		Regulatory		6. Method of Cooling: ice		
		Specify State:		Sample Temp: 3.8/3.6		

Courier:
Tracking No.:

Matrix			
Ground	x	Sediment	
Potable		Soil	
NPDES		Other Solid	
Surface			

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH	Oxygen and Deuterium Isotopes (CFIRM), Ice	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH	Alkalinity, Total as CaCO3 (SM2320B)	Bromide, Sulfate, Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Specific Conductance (EPA 120.1)	Total Dissolved Solids (SM92540)	Nitrate/Nitrite (SM4500N03) Nitrate, H2SO4	Total Organic Carbon (SM5310C), H2SO4	Dissolved metals (SW 6020), HNO3 As, Cr, Mn	Dissolved Metals (SW 6020B); HNO3 As, Cr, Mn, Mo, Se	Dissolved metals (SW 6020), HNO3 Cr, Mo, Se	Dissolved Metals (SW 6010B); HNO3 Chromium	Metals Dissolved (EPA7470A FF) Hg, HNO3	Dissolved Metals (SW 6010B); HNO3 Potassium	Total metals, Chromium (non-filter) (EPA 200.8), HNO3	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
						250 mL poly	250 mL poly	2x250 mL poly	1 liter poly	1 liter poly	1 liter poly	1 liter poly	1 liter poly	125 mL poly	3x40 mL poly	500 mL poly	500 mL poly	500 mL poly	500 mL poly	500 mL poly	500 mL poly	500 mL poly					
1	N042404-01	MW-60BR-245-Q320		8:21		X						X		X			X						E	4	P	BNS	
2	-02	MW-64BR-Q320		9:08		X						X		X			X						E	4	P	BNS	
3	-03	MW-62-065-Q320		14:52		X						X		X			X						E	4	P	BNS	
4	-04	MW-63-065-Q320		13:56		X						X		X			X						E	4	P	BNS	
5	-05	MW-62-110-Q320		15:20		X						X		X			X						E	4	P	BNS	MS/MSD
6	-06	MW-38S-SMT-Q320		~~9:00~~	1500	X						X		X			X						E	4	P	BNS	
7	-07	MW-73-080-Q320		10:21		X						X		X			X						E	4	P	BNS	
8	-08	EB-778-Q320		~~10:35~~	1515	X																	E	1	P	BNS	
9																											
10																											
11																											
12																											

Reliquished by (Signature and Printed Name):	Date/Time:	Received by (Signature and Printed Name):	Date/Time:
Riggie Tep	9/30/20 1615	JLG	9/30/20 1615
JLG	9/30/20 1817	JLG	9/30/20 1817

Turn Around Time (TAT)

- [ ] A = < 24 Hrs or Same Day TAT
- [ ] B = Next Workday
- [ ] C = 2 Workdays
- [ ] D = 3 Workdays
- [x] E = Routine 5-7 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Special Instruction:
Tittle 22 Metals - Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
Less than 24 Hrs =200% Next Day=100% 2 Workdays=50% 3 Workdays=35 % 4 Workdays=20%
3. Custom EDD formats will be an additional 3% of the total project price.
4. Add 10% surcharge for Level III Data Packages. 15% for Level IV Data Packages. Surcharge applied on total project price Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
5. Trip Blanks and Equipment Blanks are billable sample.
6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
7. Terms are net 30 days.
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
9. For subcontract analysis, TAT and Surcharges will vary.5. Trip Blanks and Equipment Blanks are billable sample.
6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
7. Terms are net 30 days.
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.

Preservatives:

H=HCL	N=$HNO_{3N+HNO3}$	S=$H_2SO_{4S+H2}SO_4$	C=4°CC=4°	
Z=$Zn(AC)_{2Z+Zn(AC)2}$	O=NaOH	T=$Na_2S_2O_{3T+Na2}S_2$		
Others/Specify:	B	(NH4)2SO4/NH4OH		

Container Type:

T=Tube	V=VOA	P=Pint
J=Jar	B=Tedlar	G=Glass
M=Metal	M=Metal	C=Can

White=Laboratory Copy
Yellow=Customer's Copy

ASSET Laboratories

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

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

Cooler Received/Opened On:	9/30/2020	Workorder:	N042404
Rep sample Temp (Deg C):	3.8/3.6	IR Gun ID:	2
Temp Blank:	☑ Yes ☐ No		
Carrier name:	ASSET		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

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

Comments:

For:

Checklist Completed By: YR BHdez 10/1/2020

Reviewed By: MBC 10/02/2020

ASSET Laboratories

WORK ORDER Summary

01-Oct-20

WorkOrder: N042404

Client ID: ARCUS02

Project: PG&E Topock - GMP, RC000753. 801D **QC Level:** Level IV **Date Received:** 9/30/2020

Comments: Title 22 Metals- Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na.

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N042404-001A	MW-60BR-245-Q320	9/30/2020 8:21:00 AM	10/14/2020	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N042404-001B			10/14/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
N042404-001C			10/14/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N042404-001D			10/14/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			10/14/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			10/14/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N042404-002A	MW-64BR-Q320	9/30/2020 9:08:00 AM	10/14/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N042404-002B			10/14/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
N042404-002C			10/14/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N042404-002D			10/14/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			10/14/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			10/14/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N042404-003A	MW-62-065-Q320	9/30/2020 2:52:00 PM	10/14/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N042404-003B			10/14/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
N042404-003C			10/14/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N042404-003D			10/14/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			10/14/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			10/14/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N042404-004A	MW-63-065-Q320	9/30/2020 1:56:00 PM	10/14/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N042404-004B			10/14/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
N042404-004C			10/14/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

01-Oct-20

WorkOrder: N042404

Client ID: ARCUS02

Project: PG&E Topock - GMP, RC000753. 801D **QC Level:** Level IV **Date Received:** 9/30/2020

Comments: Title 22 Metals- Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na.

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N042404-004D	MW-63-065-Q320	9/30/2020 1:56:00 PM	10/14/2020	Groundwater	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			10/14/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			10/14/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N042404-005A	MW-62-110-Q320	9/30/2020 3:20:00 PM	10/14/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☑	☐	WW
N042404-005B			10/14/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☑	☐	WW
N042404-005C			10/14/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☑	☐	WW
N042404-005D			10/14/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☑	☐	WW
			10/14/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☑	☐	WW
			10/14/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☑	☐	WW
N042404-006A	MW-38S-SMT-Q320	9/30/2020 3:00:00 PM	10/14/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N042404-006B			10/14/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
N042404-006C			10/14/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N042404-006D			10/14/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			10/14/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			10/14/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N042404-007A	MW-73-080-Q320	9/30/2020 10:21:00 AM	10/14/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N042404-007B			10/14/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
N042404-007C			10/14/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N042404-007D			10/14/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			10/14/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			10/14/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

01-Oct-20

WorkOrder: N042404

Client ID: ARCUS02

Project: PG&E Topock - GMP, RC000753. 801D **QC Level:** Level IV **Date Received:** 9/30/2020

Comments: Title 22 Metals- Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na.

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N042404-008A	EB-778-Q320	9/30/2020 3:15:00 PM	10/14/2020	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N042404-009A	FOLDER	10/14/2020	10/14/2020		EDD	RWQCB	☐	☐	☐	LAB
			10/14/2020		Folder	Folder	☐	☐	☐	LAB
			10/14/2020		Folder	Level IV Report	☐	☐	☐	LAB
			10/14/2020		Folder	Folder	☐	☐	☐	LAB

October 20, 2020

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661

TEL: (916) 786-3302
FAX:

Workorder No.: N042429

RE: PG&E Topock - GMP, RC000753.801D

Attention: Dan Bush

Enclosed are the results for sample(s) received on October 01, 2020 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Nancy Sibucao
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - Las Vegas.

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

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

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

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

Samples were analyzed within method holding time.

Analytical Comments for EPA 300.0:

Dilution was necessary due to precipitation of sample upon the addition of eluent.

Analytical Comments for EPA 6010B_Dissolved:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Calcium and Sodium in QC samples N042405-001D-MS1, N042405-001D-MSD1, N042405-002D-MS2 and N042405-002D-MSD2 since the analyte concentration in the sample is disproportionate to the spike level. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 6020_Dissolved:

Matrix Spike (MS) is outside recovery criteria for Chromium in QC sample N042429-001D-MS since the analyte concentration in the sample is disproportionate to the spike level. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

ASSET Laboratories

Date: *20-Oct-20*

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - GMP, RC000753.801D
Lab Order: N042429
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N042429-001A	MW-60-125-Q420	Groundwater	10/1/2020 1:01:00 PM	10/1/2020	10/20/2020
N042429-001B	MW-60-125-Q420	Groundwater	10/1/2020 1:01:00 PM	10/1/2020	10/20/2020
N042429-001C	MW-60-125-Q420	Groundwater	10/1/2020 1:01:00 PM	10/1/2020	10/20/2020
N042429-001D	MW-60-125-Q420	Groundwater	10/1/2020 1:01:00 PM	10/1/2020	10/20/2020
N042429-002A	EB-701-Q420	Groundwater	10/1/2020 1:10:00 PM	10/1/2020	10/20/2020

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *20-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-60-125-Q420
Lab Order:	N042429	**Collection Date:**	10/1/2020 1:01:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042429-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_201002A**	QC Batch: **R147728**			PrepDate:			Analyst: **LR**
Specific Conductance	7800	0.10	0.10		umhos/cm	1	10/2/2020 09:45 AM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042429
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 120.1_WPGE

Sample ID **N042429-001BDUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **147728**
Client ID: **ZZZZZZ** Batch ID: **R147728** TestNo: **EPA 120.1** Analysis Date: **10/2/2020** SeqNo: **3951905**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	7820.000	0.10						7790	0.384	2	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *20-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-60-125-Q420
Lab Order:	N042429	**Collection Date:**	10/1/2020 1:01:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042429-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE							
			SM2540C				
RunID: **NV00922-WC_201002G**	QC Batch: **82414**			PrepDate:		**10/2/2020**	Analyst: **LR**
Total Dissolved Solids (Residue, Filterable)	6800	50	50		mg/L	1	10/2/2020 01:37 PM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042429
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.1_2540C_W

Sample ID **LCS-82414** SampType: **LCS** TestCode: **160.1_2540C** Units: **mg/L** Prep Date: **10/2/2020** RunNo: **147750**
Client ID: **LCSW** Batch ID: **82414** TestNo: **SM2540C** Analysis Date: **10/2/2020** SeqNo: **3952595**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	973.000	10	1000	0	97.3	80	120				

Sample ID **MB-82414** SampType: **MBLK** TestCode: **160.1_2540C** Units: **mg/L** Prep Date: **10/2/2020** RunNo: **147750**
Client ID: **PBW** Batch ID: **82414** TestNo: **SM2540C** Analysis Date: **10/2/2020** SeqNo: **3952596**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	ND	10									

Sample ID **N042429-001BDUP** SampType: **DUP** TestCode: **160.1_2540C** Units: **mg/L** Prep Date: **10/2/2020** RunNo: **147750**
Client ID: **ZZZZZZ** Batch ID: **82414** TestNo: **SM2540C** Analysis Date: **10/2/2020** SeqNo: **3952603**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	6715.000	50						6845	1.92	5	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *20-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-60-125-Q420
Lab Order:	N042429	**Collection Date:**	10/1/2020 1:01:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042429-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
			EPA 218.6				
RunID: **NV00922-IC7_201004A**	QC Batch: **R147772**			PrepDate:			Analyst: **RAB**
Hexavalent Chromium	580	3.3	20		µg/L	100	10/4/2020 10:06 AM
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_201005C**	QC Batch: **82424**			PrepDate:		**10/5/2020**	Analyst: **CEI**
Chromium	570	0.65	5.0		µg/L	5	10/6/2020 03:01 AM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	EB-701-Q420
Lab Order:	N042429	**Collection Date:**	10/1/2020 1:10:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042429-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_201004A** QC Batch: **R147772** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	10/4/2020 02:12 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042429
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **MB-R147772** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **PBW** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954239**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID **LCS-R147772** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **LCSW** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954240**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.930	0.20	5.000	0	98.6	90	110				

Sample ID **N042404-006AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954251**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.328	0.20	5.000	4.457	97.4	90	110				

Sample ID **N042404-006AMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954252**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.528	0.20	5.000	4.457	101	90	110	9.328	2.12	20	

Sample ID **N042434-001ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954253**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.971	0.20						0.9608	1.08	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042429
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N042434-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954254**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.945	0.20	1.000	0.9608	98.4	90	110				

Sample ID **N042429-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954255**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1080.060	20	500.0	580.4	99.9	90	110				

Sample ID **N042430-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954256**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	8.531	0.20	5.000	3.354	104	90	110				

Sample ID **N042404-007AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954257**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	42.856	1.0	25.00	17.54	101	90	110				

Sample ID **N042430-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954258**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	8.575	0.20	5.000	3.356	104	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042429
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N042430-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954259**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.006	0.20	1.000	0	101	90	110				

Sample ID **N042430-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954263**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.894	1.0	5.000	5.082	96.2	90	110				

Sample ID **N042435-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954265**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.543	0.20	1.000	0.5348	101	90	110				

Sample ID **N042435-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954267**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.088	0.20	1.000	1.008	108	90	110				

Sample ID **N042403-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954269**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.490	1.0	5.000	0.5955	97.9	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042429
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N042404-008AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954273**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.003	0.20	1.000	0	100	90	110				

Sample ID **N042429-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954275**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.978	0.20	1.000	0	97.8	90	110				

Sample ID **N042430-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954277**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.999	0.20	1.000	0	99.9	90	110				

Sample ID **N042434-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954279**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.993	0.20	1.000	0	99.3	90	110				

Sample ID **N042435-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954281**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.997	0.20	1.000	0	99.7	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042429
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID **MB-82424** SampType: **MBLK** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **10/5/2020** RunNo: **147863**
Client ID: **PBW** Batch ID: **82424** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/6/2020** SeqNo: **3959670**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID **LCS-82424** SampType: **LCS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **10/5/2020** RunNo: **147863**
Client ID: **LCSW** Batch ID: **82424** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/6/2020** SeqNo: **3959671**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.623	1.0	10.00	0	96.2	85	115				

Sample ID **N042429-001D-MS** SampType: **MS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **10/5/2020** RunNo: **147863**
Client ID: **ZZZZZZ** Batch ID: **82424** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/6/2020** SeqNo: **3959684**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	584.124	5.0	10.00	569.5	146	75	125				S

Sample ID **N042429-001D-MSD** SampType: **MSD** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **10/5/2020** RunNo: **147863**
Client ID: **ZZZZZZ** Batch ID: **82424** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/6/2020** SeqNo: **3959687**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	581.696	5.0	10.00	569.5	122	75	125	584.1	0.416	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042429
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID	**N042429-001D-PS**	SampType:	**PS**	TestCode:	**6020DIS_CrP**	Units:	**µg/L**	Prep Date:			RunNo:	**147863**
Client ID:	**ZZZZZZ**	Batch ID:	**82424**	TestNo:	**EPA 6020**		**EPA 3010A**	Analysis Date:	**10/6/2020**		SeqNo:	**3959681**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	576.607	5.0	10.00	569.5	71.3	80	120				S

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *20-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-60-125-Q420
Lab Order:	N042429	**Collection Date:**	10/1/2020 1:01:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042429-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ALKALINITY, SPECIATED							
			SM 2320 B				
RunID: **NV00922-WC_201002E**	QC Batch: **R147747**			PrepDate:			Analyst: **LR**
Alkalinity, Total (As CaCO3)	60	1.2	5.0		mg/L	1	10/2/2020 02:10 PM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042429
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 2320_W_SP

Sample ID **LCS-R147747** SampType: **LCS** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **147747**
Client ID: **LCSW** Batch ID: **R147747** TestNo: **SM 2320 B** Analysis Date: **10/2/2020** SeqNo: **3952548**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	98.326	5.0	100.0	0	98.3	85	115				

Sample ID **MB-R147747** SampType: **MBLK** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **147747**
Client ID: **PBW** Batch ID: **R147747** TestNo: **SM 2320 B** Analysis Date: **10/2/2020** SeqNo: **3952549**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	5.0									

Sample ID **N042429-001BDUP** SampType: **DUP** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **147747**
Client ID: **ZZZZZZ** Batch ID: **R147747** TestNo: **SM 2320 B** Analysis Date: **10/2/2020** SeqNo: **3952558**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	58.577	5.0						59.62	1.77	30	

Sample ID **N042429-001BMS** SampType: **MS** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **147747**
Client ID: **ZZZZZZ** Batch ID: **R147747** TestNo: **SM 2320 B** Analysis Date: **10/2/2020** SeqNo: **3952559**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	153.766	5.0	100.0	59.62	94.1	75	125				

Sample ID **N042429-001BMSD** SampType: **MSD** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **147747**
Client ID: **ZZZZZZ** Batch ID: **R147747** TestNo: **SM 2320 B** Analysis Date: **10/2/2020** SeqNo: **3952560**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	152.720	5.0	100.0	59.62	93.1	75	125	153.8	0.683	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N042429
Project: PG&E Topock - GMP, RC000753.801D
Lab ID: N042429-001

Client Sample ID: MW-60-125-Q420
Collection Date: 10/1/2020 1:01:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: **NV00922-IC8_201002A** QC Batch: **R147735** PrepDate: Analyst: **RAB**							
Bromide	ND	0.30	5.0		mg/L	10	10/2/2020 09:50 AM
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: **NV00922-IC8_201002A** QC Batch: **R147735** PrepDate: Analyst: **RAB**							
Chloride	2700	35	500		mg/L	1000	10/2/2020 11:41 PM
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: **NV00922-IC8_201002A** QC Batch: **R147735** PrepDate: Analyst: **RAB**							
Fluoride	1.5	0.096	1.0		mg/L	10	10/2/2020 09:50 AM
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: **NV00922-IC8_201002A** QC Batch: **R147735** PrepDate: Analyst: **RAB**							
Sulfate	460	4.0	50		mg/L	100	10/2/2020 11:26 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042429
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_BRPGE

Sample ID **MB-R147735_BR** SampType: **MBLK** TestCode: **300_W_BRP** Units: **mg/L** Prep Date: RunNo: **147735**
Client ID: **PBW** Batch ID: **R147735** TestNo: **EPA 300.0** Analysis Date: **10/2/2020** SeqNo: **3953330**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	ND	0.50									

Sample ID **LCS-R147735_BR** SampType: **LCS** TestCode: **300_W_BRP** Units: **mg/L** Prep Date: RunNo: **147735**
Client ID: **LCSW** Batch ID: **R147735** TestNo: **EPA 300.0** Analysis Date: **10/2/2020** SeqNo: **3953331**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	1.248	0.50	1.250	0	99.8	90	110				

Sample ID **N042405-001AMS** SampType: **MS** TestCode: **300_W_BRP** Units: **mg/L** Prep Date: RunNo: **147735**
Client ID: **ZZZZZZ** Batch ID: **R147735** TestNo: **EPA 300.0** Analysis Date: **10/2/2020** SeqNo: **3953333**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	12.300	5.0	12.50	0.3970	95.2	80	120				

Sample ID **N042405-001AMSD** SampType: **MSD** TestCode: **300_W_BRP** Units: **mg/L** Prep Date: RunNo: **147735**
Client ID: **ZZZZZZ** Batch ID: **R147735** TestNo: **EPA 300.0** Analysis Date: **10/2/2020** SeqNo: **3953334**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	12.699	5.0	12.50	0.3970	98.4	80	120	12.30	3.19	20	

Sample ID **N042405-004ADUP** SampType: **DUP** TestCode: **300_W_BRP** Units: **mg/L** Prep Date: RunNo: **147735**
Client ID: **ZZZZZZ** Batch ID: **R147735** TestNo: **EPA 300.0** Analysis Date: **10/2/2020** SeqNo: **3953338**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	0.491	5.0						0.3890	0	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042429
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CLPGE

Sample ID **MB-R147735_CL** SampType: **MBLK** TestCode: **300_W_CLP** Units: **mg/L** Prep Date: RunNo: **147735**
Client ID: **PBW** Batch ID: **R147735** TestNo: **EPA 300.0** Analysis Date: **10/2/2020** SeqNo: **3953282**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.50									

Sample ID **LCS-R147735_CL** SampType: **LCS** TestCode: **300_W_CLP** Units: **mg/L** Prep Date: RunNo: **147735**
Client ID: **LCSW** Batch ID: **R147735** TestNo: **EPA 300.0** Analysis Date: **10/2/2020** SeqNo: **3953283**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	2.010	0.50	2.000	0	101	90	110				

Sample ID **N042381-001BDUP** SampType: **DUP** TestCode: **300_W_CLP** Units: **mg/L** Prep Date: RunNo: **147735**
Client ID: **ZZZZZZ** Batch ID: **R147735** TestNo: **EPA 300.0** Analysis Date: **10/2/2020** SeqNo: **3953292**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	2647.800	500						2624	0.907	20	

Sample ID **N042381-001BMS** SampType: **MS** TestCode: **300_W_CLP** Units: **mg/L** Prep Date: RunNo: **147735**
Client ID: **ZZZZZZ** Batch ID: **R147735** TestNo: **EPA 300.0** Analysis Date: **10/2/2020** SeqNo: **3953293**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	4555.100	500	2000	2624	96.6	80	120				

Sample ID **N042388-001BDUP** SampType: **DUP** TestCode: **300_W_CLP** Units: **mg/L** Prep Date: RunNo: **147735**
Client ID: **ZZZZZZ** Batch ID: **R147735** TestNo: **EPA 300.0** Analysis Date: **10/2/2020** SeqNo: **3953295**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	443.660	100						444.9	0.275	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042429
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CLPGE

Sample ID	N042388-001BMS	SampType:	MS	TestCode:	300_W_CLP	Units:	mg/L	Prep Date:		RunNo:	147735
Client ID:	ZZZZZZ	Batch ID:	R147735	TestNo:	EPA 300.0			Analysis Date:	10/2/2020	SeqNo:	3953296

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	828.980	100	400.0	444.9	96.0	80	120				

Sample ID	N042388-001BMSD	SampType:	MSD	TestCode:	300_W_CLP	Units:	mg/L	Prep Date:		RunNo:	147735
Client ID:	ZZZZZZ	Batch ID:	R147735	TestNo:	EPA 300.0			Analysis Date:	10/2/2020	SeqNo:	3953297

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	822.780	100	400.0	444.9	94.5	80	120	829.0	0.751	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042429
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_FPGE

Sample ID **MB-R147735_F** SampType: **MBLK** TestCode: **300_W_FPGE** Units: **mg/L** Prep Date: RunNo: **147735**
Client ID: **PBW** Batch ID: **R147735** TestNo: **EPA 300.0** Analysis Date: **10/2/2020** SeqNo: **3953239**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	ND	0.10									

Sample ID **LCS-R147735_F** SampType: **LCS** TestCode: **300_W_FPGE** Units: **mg/L** Prep Date: RunNo: **147735**
Client ID: **LCSW** Batch ID: **R147735** TestNo: **EPA 300.0** Analysis Date: **10/2/2020** SeqNo: **3953240**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	1.319	0.10	1.250	0	106	90	110				

Sample ID **N042405-001AMS** SampType: **MS** TestCode: **300_W_FPGE** Units: **mg/L** Prep Date: RunNo: **147735**
Client ID: **ZZZZZZ** Batch ID: **R147735** TestNo: **EPA 300.0** Analysis Date: **10/2/2020** SeqNo: **3953243**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	16.903	1.0	12.50	4.272	101	80	120				

Sample ID **N042405-001AMSD** SampType: **MSD** TestCode: **300_W_FPGE** Units: **mg/L** Prep Date: RunNo: **147735**
Client ID: **ZZZZZZ** Batch ID: **R147735** TestNo: **EPA 300.0** Analysis Date: **10/2/2020** SeqNo: **3953244**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	16.920	1.0	12.50	4.272	101	80	120	16.90	0.101	20	

Sample ID **N042405-004ADUP** SampType: **DUP** TestCode: **300_W_FPGE** Units: **mg/L** Prep Date: RunNo: **147735**
Client ID: **ZZZZZZ** Batch ID: **R147735** TestNo: **EPA 300.0** Analysis Date: **10/2/2020** SeqNo: **3953248**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	2.281	1.0						2.047	10.8	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042429
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_FPGE

Sample ID **N042388-001BMS** SampType: **MS** TestCode: **300_W_FPGE** Units: **mg/L** Prep Date: RunNo: **147735**
Client ID: **ZZZZZZ** Batch ID: **R147735** TestNo: **EPA 300.0** Analysis Date: **10/2/2020** SeqNo: **3953267**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	8.179	0.50	6.250	2.106	97.2	80	120				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042429
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID **MB-R147735_SO4** SampType: **MBLK** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **147735**
Client ID: **PBW** Batch ID: **R147735** TestNo: **EPA 300.0** Analysis Date: **10/2/2020** SeqNo: **3953361**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.50									

Sample ID **LCS-R147735_SO4** SampType: **LCS** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **147735**
Client ID: **LCSW** Batch ID: **R147735** TestNo: **EPA 300.0** Analysis Date: **10/2/2020** SeqNo: **3953362**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.956	0.50	4.000	0	98.9	90	110				

Sample ID **N042381-001BDUP** SampType: **DUP** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **147735**
Client ID: **ZZZZZZ** Batch ID: **R147735** TestNo: **EPA 300.0** Analysis Date: **10/2/2020** SeqNo: **3953372**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	460.085	25						461.1	0.212	20	

Sample ID **N042381-001BMS** SampType: **MS** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **147735**
Client ID: **ZZZZZZ** Batch ID: **R147735** TestNo: **EPA 300.0** Analysis Date: **10/2/2020** SeqNo: **3953373**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	661.695	25	200.0	461.1	100	80	120				

Sample ID **N042388-001BDUP** SampType: **DUP** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **147735**
Client ID: **ZZZZZZ** Batch ID: **R147735** TestNo: **EPA 300.0** Analysis Date: **10/2/2020** SeqNo: **3953375**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	1897.500	100						1921	1.21	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042429
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID **N042388-001BMS** SampType: **MS** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **147735**
Client ID: **ZZZZZZ** Batch ID: **R147735** TestNo: **EPA 300.0** Analysis Date: **10/2/2020** SeqNo: **3953376**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	2727.400	100	800.0	1921	101	80	120				

Sample ID **N042388-001BMSD** SampType: **MSD** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **147735**
Client ID: **ZZZZZZ** Batch ID: **R147735** TestNo: **EPA 300.0** Analysis Date: **10/2/2020** SeqNo: **3953377**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	2730.100	100	800.0	1921	101	80	120	2727	0.0989	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *20-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-60-125-Q420
Lab Order:	N042429	**Collection Date:**	10/1/2020 1:01:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042429-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_201012B** QC Batch: **R147956** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	4.1	0.16	0.25		mg/L	5	10/12/2020 06:13 PM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042429
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID **MB-R147956** SampType: **MBLK** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147956**
Client ID: **PBW** Batch ID: **R147956** TestNo: **SM4500-NO3** Analysis Date: **10/12/2020** SeqNo: **3965856**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID **LCS-R147956** SampType: **LCS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147956**
Client ID: **LCSW** Batch ID: **R147956** TestNo: **SM4500-NO3** Analysis Date: **10/12/2020** SeqNo: **3965857**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.485	0.050	0.5000	0	97.1	85	115				

Sample ID **N042405-003BDUP** SampType: **DUP** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147956**
Client ID: **ZZZZZZ** Batch ID: **R147956** TestNo: **SM4500-NO3** Analysis Date: **10/12/2020** SeqNo: **3965859**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.688	0.050						0.6388	7.42	20	

Sample ID **N042405-003BMS** SampType: **MS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147956**
Client ID: **ZZZZZZ** Batch ID: **R147956** TestNo: **SM4500-NO3** Analysis Date: **10/12/2020** SeqNo: **3965860**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	1.154	0.050	0.5000	0.6388	103	75	125				

Sample ID **N042405-003BMSD** SampType: **MSD** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147956**
Client ID: **ZZZZZZ** Batch ID: **R147956** TestNo: **SM4500-NO3** Analysis Date: **10/12/2020** SeqNo: **3965861**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	1.122	0.050	0.5000	0.6388	96.7	75	125	1.154	2.78	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *20-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-60-125-Q420
Lab Order:	N042429	**Collection Date:**	10/1/2020 1:01:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042429-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A		**EPA 6010B**				
RunID: **NV00922-ICP2_201010B**	QC Batch: **82480**				PrepDate:	**10/8/2020**	Analyst: **DJ**
Boron	820	74	100		ug/L	1	10/10/2020 10:07 AM
Calcium	450000	85	500		ug/L	1	10/10/2020 10:07 AM
Iron	ND	18	20		ug/L	1	10/10/2020 10:07 AM
Sodium	1300000	9600	50000		ug/L	100	10/11/2020 12:35 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042429
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID **LCS1-82480** SampType: **LCS** TestCode: **6010_WDPG** Units: **ug/L** Prep Date: **10/8/2020** RunNo: **147927**
Client ID: **LCSW** Batch ID: **82480** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **10/10/2020** SeqNo: **3963236**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	5301.925	100	5000	0	106	85	115				
Calcium	10405.116	500	10000	0	104	85	115				
Iron	87.708	20	100.0	0	87.7	85	115				

Sample ID **N042405-001D-MS1** SampType: **MS** TestCode: **6010_WDPG** Units: **ug/L** Prep Date: **10/8/2020** RunNo: **147927**
Client ID: **ZZZZZZ** Batch ID: **82480** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **10/10/2020** SeqNo: **3963240**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	6636.985	100	5000	1494	103	75	125				
Calcium	239149.512	500	10000	234200	49.5	75	125				S
Iron	114.359	20	100.0	19.42	94.9	75	125				

Sample ID **N042405-001D-MSD** SampType: **MSD** TestCode: **6010_WDPG** Units: **ug/L** Prep Date: **10/8/2020** RunNo: **147927**
Client ID: **ZZZZZZ** Batch ID: **82480** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **10/10/2020** SeqNo: **3963241**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	6701.887	100	5000	1494	104	75	125	6637	0.973	20	
Calcium	238107.138	500	10000	234200	39.1	75	125	239100	0.437	20	S
Iron	118.450	20	100.0	19.42	99.0	75	125	114.4	3.51	20	

Sample ID **MB-82480** SampType: **MBLK** TestCode: **6010_WDPG** Units: **ug/L** Prep Date: **10/8/2020** RunNo: **147927**
Client ID: **PBW** Batch ID: **82480** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **10/10/2020** SeqNo: **3963247**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	ND	100									
Calcium	ND	500									
Iron	ND	20									

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042429
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID	MB-82480	SampType:	MBLK	TestCode:	6010_WDPG	Units:	ug/L	Prep Date:	10/8/2020	RunNo:	147938
Client ID:	PBW	Batch ID:	82480	TestNo:	EPA 6010B	EPA 3010A		Analysis Date:	10/11/2020	SeqNo:	3964164

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	ND	500									

Sample ID	LCS2-82480	SampType:	LCS	TestCode:	6010_WDPG	Units:	ug/L	Prep Date:	10/8/2020	RunNo:	147938
Client ID:	LCSW	Batch ID:	82480	TestNo:	EPA 6010B	EPA 3010A		Analysis Date:	10/11/2020	SeqNo:	3964165

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	20115.540	500	20000	0	101	85	115				

Sample ID	N042405-002D-MS2	SampType:	MS	TestCode:	6010_WDPG	Units:	ug/L	Prep Date:	10/8/2020	RunNo:	147938
Client ID:	ZZZZZZ	Batch ID:	82480	TestNo:	EPA 6010B	EPA 3010A		Analysis Date:	10/11/2020	SeqNo:	3964178

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	1595849.566	50000	20000	1664000	-343	75	125				S

Sample ID	N042405-002D-MSD	SampType:	MSD	TestCode:	6010_WDPG	Units:	ug/L	Prep Date:	10/8/2020	RunNo:	147938
Client ID:	ZZZZZZ	Batch ID:	82480	TestNo:	EPA 6010B	EPA 3010A		Analysis Date:	10/11/2020	SeqNo:	3964180

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	1572586.937	50000	20000	1664000	-459	75	125	1596000	1.47	20	S

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042429
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID **N042405-001D-PS** SampType: **PS** TestCode: **6010_WDPG** Units: **ug/L** Prep Date: RunNo: **147927**
Client ID: **ZZZZZZ** Batch ID: **82480** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **10/10/2020** SeqNo: **3963239**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	6635.385	100	5000	1494	103	80	120				
Calcium	232583.504	500	10000	234200	-16.1	80	120				S
Iron	175.471	20	100.0	19.42	156	80	120				S

Sample ID **N042405-002D-PS** SampType: **PS** TestCode: **6010_WDPG** Units: **ug/L** Prep Date: RunNo: **147938**
Client ID: **ZZZZZZ** Batch ID: **82480** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **10/11/2020** SeqNo: **3964184**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	1590890.598	50000	20000	1664000	-367	80	120				S

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *20-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-60-125-Q420
Lab Order:	N042429	**Collection Date:**	10/1/2020 1:01:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042429-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_201008A**	QC Batch: **82424**				PrepDate:	**10/5/2020**	Analyst: **CEI**
Arsenic	ND	0.081	0.10		µg/L	1	10/8/2020 04:47 PM
Manganese	5.0	0.26	0.50		µg/L	1	10/6/2020 02:57 AM
Molybdenum	18	0.21	0.50		µg/L	1	10/17/2020 06:02 PM
Selenium	6.5	0.36	0.50		µg/L	1	10/8/2020 04:47 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042429
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID **MB-82424** SampType: **MBLK** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/5/2020** RunNo: **147863**
Client ID: **PBW** Batch ID: **82424** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/6/2020** SeqNo: **3959777**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	0.50									

Sample ID **LCS-82424** SampType: **LCS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/5/2020** RunNo: **147863**
Client ID: **LCSW** Batch ID: **82424** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/6/2020** SeqNo: **3959778**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	97.194	0.50	100.0	0	97.2	85	115				

Sample ID **N042429-001D-MS** SampType: **MS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/5/2020** RunNo: **147863**
Client ID: **ZZZZZZ** Batch ID: **82424** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/6/2020** SeqNo: **3959790**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	96.514	0.50	100.0	4.969	91.5	75	125				

Sample ID **N042429-001D-MSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/5/2020** RunNo: **147863**
Client ID: **ZZZZZZ** Batch ID: **82424** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/6/2020** SeqNo: **3959793**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	97.137	0.50	100.0	4.969	92.2	75	125	96.51	0.643	20	

Sample ID **MB-82424** SampType: **MBLK** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/5/2020** RunNo: **147959**
Client ID: **PBW** Batch ID: **82424** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/8/2020** SeqNo: **3966022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Selenium	ND	0.50									

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042429
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID **LCS-82424** SampType: **LCS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/5/2020** RunNo: **147959**
Client ID: **LCSW** Batch ID: **82424** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/8/2020** SeqNo: **3966023**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.168	0.10	10.00	0	102	85	115				
Selenium	9.868	0.50	10.00	0	98.7	85	115				

Sample ID **N042429-001D-MS** SampType: **MS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/5/2020** RunNo: **147959**
Client ID: **ZZZZZZ** Batch ID: **82424** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/8/2020** SeqNo: **3966029**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.220	0.10	10.00	0	102	75	125				
Selenium	16.037	0.50	10.00	6.491	95.5	75	125				

Sample ID **N042429-001D-MSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/5/2020** RunNo: **147959**
Client ID: **ZZZZZZ** Batch ID: **82424** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/8/2020** SeqNo: **3966030**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.758	0.10	10.00	0	108	75	125	10.22	5.13	20	
Selenium	16.408	0.50	10.00	6.491	99.2	75	125	16.04	2.29	20	

Sample ID **MB-82424** SampType: **MBLK** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/5/2020** RunNo: **148091**
Client ID: **PBW** Batch ID: **82424** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/17/2020** SeqNo: **3972534**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	ND	0.50									

Sample ID **LCS-82424** SampType: **LCS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/5/2020** RunNo: **148091**
Client ID: **LCSW** Batch ID: **82424** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/17/2020** SeqNo: **3972535**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	9.586	0.50	10.00	0	95.9	85	115				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042429
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID	N042429-001D-MS	SampType:	MS	TestCode:	6020_DIS_TP	Units:	µg/L	Prep Date:	10/5/2020	RunNo:	148091
Client ID:	ZZZZZZ	Batch ID:	82424	TestNo:	EPA 6020	EPA 3010A		Analysis Date:	10/17/2020	SeqNo:	3972539

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	28.931	0.50	10.00	18.21	107	75	125				

Sample ID	N042429-001D-MSD	SampType:	MSD	TestCode:	6020_DIS_TP	Units:	µg/L	Prep Date:	10/5/2020	RunNo:	148091
Client ID:	ZZZZZZ	Batch ID:	82424	TestNo:	EPA 6020	EPA 3010A		Analysis Date:	10/17/2020	SeqNo:	3972540

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	29.093	0.50	10.00	18.21	109	75	125	28.93	0.558	20	

Qualifiers:

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

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

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P: 702.307.2659 F: 702.307.2691
California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F:562.219.7436
www.assetlaboratories.com

Client: Arcadis
Address: 1410 Rocky Ridge Dr # 330
Address: Roseville, CA 95661
Phone: 916-786-3302 Fax:
Submitted By: Riggie Tep
Title: Field Tech
Signature: RB Date: 10/01/20
I hereby authorize ASSET Labs to perform the tests indicated below.
Project Name: PG&E Topock - GMP
Project Number: RC000753.801D

Report to: Dan Bush
Company: Arcadis
Email: dan.bush@arcadis.com
daniel.moore@critigen.com
Address: 1410 Rocky Ridge Dr # 330
Roseville, CA 95661
Phone: 916-786-3302 Fax:
Sampled By: Riggie Tep
I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
Signature: RB Date: 10/01/20

Bill to: Marty Bloes
Address:
Address:
Email to: mbloes@pivox.com
P.O.# SWA-ASSET-C9817-057
Phone: 949-727-1400, ext 200
Fax:

EDD Requirement: Excel EDD; Geotracker; Labspec; Others ü; Specify: RWQCB; Global ID:

QA/QC: RTNE; RWQCB ü; CalTrans; LEVEL III; LEVEL IV; Regulatory; Specify State:

Sample Receipt Condition (Y / N):
1. Chilled ✓
2. Headspace
3. Container Intact ✓
4. Seal Present ✓
5. IR number 2
6. Method of Cooling: Ice
Sample Temp: 1.6°C

Courier:
Tracking No.:

Matrix: Ground x; Sediment; Potable; Soil; NPDES; Other Solid; Surface

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (250 mL poly)	Oxygen and Deuterium Isotopes (CFIRM), Ice (250 mL poly)	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (2x250 mL poly)	Alkalinity, Total as CaCO3 (SM2320B) (1 liter poly)	Bromide, Sulfate, Chloride (EPA 300.0) (1 liter poly)	Fluoride (EPA 300.0) (1 liter poly)	Specific Conductance (EPA 120.1) (1 liter poly)	Total Dissolved Solids (SM92540) (1 liter poly)	Nitrate/Nitrite (SM4500N03) Nitrate; H2SO4 (125 mL poly)	Total Organic Carbon (SM5310C); H2SO4 (3x40 mL poly)	Dissolved metals (SW 6020), HNO3 As, Cr, Mn (500 mL poly)	Dissolved Metals (SW 6020B); HNO3 As, Cr, Mn, Mo, Se (500 mL poly)	Dissolved metals (SW 6020), HNO3 Boron, Ca, Fe, Na (500 mL poly)	Dissolved Metals (SW 6010B); HNO3 Chromium (500 mL poly)	Metals Dissolved (EPA7470A FF) Hg; HNO3 (500 mL poly)	Dissolved Metals (SW 6010B); HNO3 Potassium (500 mL poly)	Total metals, Chromium (non-dissolved) (EPA 200.8), HNO3 (500 mL poly)	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
1	N042429-01	MW-60-125-Q420	10/1/2020	13:01		X			X	X	X	X	X	X			X	X					E	4	P	BNS	
2	-02	EB-701-Q420	10/1/2020	~~9:00~~	1310	X																	E	1	P	BNS	
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

Relinquished by (Signature and Printed Name): RB Riggie Tep Date/Time: 10/01/20 1537
Received by (Signature and Printed Name): [signature] Date/Time: 10/1/20 1537
Relinquished by (Signature and Printed Name): [signature] Date/Time: 10/1/20 1804
Received by (Signature and Printed Name): Joanna Rodriguez Date/Time: 10/1/20 1804
Relinquished by (Signature and Printed Name): Date/Time:
Received by (Signature and Printed Name): Date/Time:

Turn Around Time (TAT)
- A < 24 Hrs or Same Day TAT
- B = Next Workday
- C = 2 Workdays
- D = 3 Workdays
- X E = Routine 5-7 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Special Instruction:
Tittle 22 Metals - Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
Less than 24 Hrs.=200% Next Day=100% 2 Workdays=50% 3 Workdays=35 % 4 Workdays=20%
3. Custom EDD formats will be an additional 3% of the total project price.
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
5. Trip Blanks and Equipment Blanks are billable sample.
6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
7. Terms are net 30 days.
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed
9. For subcontract analysis, TAT and Surcharges will vary 5. Trip Blanks and Equipment Blanks are billable sample.
6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
7. Terms are net 30 days.
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed

Preservatives:

H=HCL	N=HNO_3	S=H_2SO_4	C=4°C	
Z=$Zn(AC)_2$	O=NaOH	T=$Na_2S_2O_3$		
Others/Specify:	B	(NH4)2SO4/NH4OH		

Container Type:

T=Tube	V=VOA	P=Pint
J=Jar	B=Tedlar	G=Glass
M=Metal	M=Metal	C=Can

White=Laboratory Copy
Yellow=Customer's Copy

ASSET Laboratories

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

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

Cooler Received/Opened On:	10/1/2020	Workorder:	N042429
Rep sample Temp (Deg C):	1.6	IR Gun ID:	2
Temp Blank:	☑ Yes ☐ No		
Carrier name:	ASSET		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

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

Comments: See Correspondence.

For:

Checklist Completed By: YR BHdez 10/2/2020

Reviewed By: MBC 10/05./2020

Subject: RE: PG&E Topock - GMP, RC000753.801D (ASSET Labs No. N042429)
From: "Madsen, Laura" <Laura.Madsen@arcadis.com>
Date: 10/5/2020, 12:10 PM
To: Yoandra Rodriguez <yoandra@assetlaboratories.com>
CC: Tina Rice <Tina.Rice@critigen.com>, "maryann.balilu@assetlaboratoriesph.com" <maryann.balilu@assetlaboratoriesph.com>, "rustico.aquino@assetlaboratoriesph.com" <rustico.aquino@assetlaboratoriesph.com>

Hi Yoandra,
This a Q4 sample and should use "Q420" at the end of the ID.

Thanks,
Laura

-----Original Message-----
From: Yoandra Rodriguez <yoandra@assetlaboratories.com>
Sent: Monday, October 5, 2020 1:20 PM
To: Madsen, Laura <Laura.Madsen@arcadis.com>
Cc: Tina Rice <Tina.Rice@critigen.com>; maryann.balilu@assetlaboratoriesph.com; rustico.aquino@assetlaboratoriesph.com
Subject: PG&E Topock - GMP, RC000753.801D (ASSET Labs No. N042429)

Hi Laura,

Please kindly advise on the following discrepancy for the attached COC:

- Sample 1: ID is MW-60-125-Q420 on COC and MW-60-125-Q320 on labels.

Thanks,

--
This email has been checked for viruses by Avast antivirus software.
https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.avast.com%2Fantivirus&data=02%7C01%7C%7C58f3b52dd435420cd91308d8695b015c%7C7f90057d3ea046feb07ce0568627081b%7C0%7C0%7C637375187007139 5amp;sdata=T5INHQItX6gJYjEwv9Ctm45vZJpWyddFDhoxEaXmafw%3D&reserved=0
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ASSET Laboratories

WORK ORDER Summary

06-Oct-20

WorkOrder: N042429

Client ID: ARCUS02

Project: PG&E Topock - GMP, RC000753.801D **QC Level:** Level IV **Date Received:** 10/1/2020

Comments: Title 22 Metals- Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na.

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N042429-001A	MW-60-125-Q420	10/1/2020 1:01:00 PM	10/15/2020	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N042429-001B			10/15/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			10/15/2020		SM2540C	TOTAL FILTERABLE RESIDUE	☐	☐	☐	WW
			10/15/2020			Total Dissolved Solids Prep	☐	☐	☐	WW
			10/15/2020		SM 2320 B	ALKALINITY, SPECIATED	☐	☐	☐	WW
			10/15/2020		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	☐	☐	☐	WW
			10/15/2020		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	☐	☐	☐	WW
			10/15/2020		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	☐	☐	☐	WW
			10/15/2020		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	☐	☐	☐	WW
			10/15/2020		SM 1030F1	Cation-Anion Balance Calculation	☐	☐	☐	WW
N042429-001C			10/15/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N042429-001D			10/15/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			10/15/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			10/15/2020		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			10/15/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			10/15/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N042429-002A	EB-701-Q420	10/1/2020 1:10:00 PM	10/15/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N042429-003A	FOLDER	10/15/2020	10/15/2020		EDD	RWQCB	☐	☐	☐	LAB
			10/15/2020		Folder	Folder	☐	☐	☐	LAB
			10/15/2020		Folder	Level IV Report	☐	☐	☐	LAB
			10/15/2020		Folder	Folder	☐	☐	☐	LAB

October 20, 2020

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661

TEL: (916) 786-3302
FAX:

Workorder No.: N042430

RE: PG&E Topock - GMP, RC000753.801D

Attention: Dan Bush

Enclosed are the results for sample(s) received on October 01, 2020 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Nancy Sibucao
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - Las Vegas.

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - GMP, RC000753.801D
Lab Order: N042430

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

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

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

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

Samples were analyzed within method holding time.

Analytical Comments for EPA 6020_Dissolved:

Matrix Spike (MS) is outside recovery criteria for Chromium in QC sample N042429-001D-MS since the analyte concentration in the sample is disproportionate to the spike level. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

ASSET Laboratories

Date: *20-Oct-20*

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - GMP, RC000753.801D
Lab Order: N042430
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N042430-001A	MW-44-115-Q320	Groundwater	10/1/2020 9:33:00 AM	10/1/2020	10/20/2020
N042430-001B	MW-44-115-Q320	Groundwater	10/1/2020 9:33:00 AM	10/1/2020	10/20/2020
N042430-001C	MW-44-115-Q320	Groundwater	10/1/2020 9:33:00 AM	10/1/2020	10/20/2020
N042430-001D	MW-44-115-Q320	Groundwater	10/1/2020 9:33:00 AM	10/1/2020	10/20/2020
N042430-002A	MW-907-Q320	Groundwater	10/1/2020 9:43:00 AM	10/1/2020	10/20/2020
N042430-002B	MW-907-Q320	Groundwater	10/1/2020 9:43:00 AM	10/1/2020	10/20/2020
N042430-002C	MW-907-Q320	Groundwater	10/1/2020 9:43:00 AM	10/1/2020	10/20/2020
N042430-002D	MW-907-Q320	Groundwater	10/1/2020 9:43:00 AM	10/1/2020	10/20/2020
N042430-003A	MW-46-175-Q320	Groundwater	10/1/2020 11:14:00 AM	10/1/2020	10/20/2020
N042430-003B	MW-46-175-Q320	Groundwater	10/1/2020 11:14:00 AM	10/1/2020	10/20/2020
N042430-003C	MW-46-175-Q320	Groundwater	10/1/2020 11:14:00 AM	10/1/2020	10/20/2020
N042430-003D	MW-46-175-Q320	Groundwater	10/1/2020 11:14:00 AM	10/1/2020	10/20/2020
N042430-004A	MW-34-100-Q320	Groundwater	10/1/2020 10:19:00 AM	10/1/2020	10/20/2020
N042430-004B	MW-34-100-Q320	Groundwater	10/1/2020 10:19:00 AM	10/1/2020	10/20/2020
N042430-004C	MW-34-100-Q320	Groundwater	10/1/2020 10:19:00 AM	10/1/2020	10/20/2020
N042430-004D	MW-34-100-Q320	Groundwater	10/1/2020 10:19:00 AM	10/1/2020	10/20/2020
N042430-005A	EB-781-Q320	Groundwater	10/1/2020 12:00:00 PM	10/1/2020	10/20/2020

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *20-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-44-115-Q320
Lab Order:	N042430	**Collection Date:**	10/1/2020 9:33:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042430-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_201002A**	QC Batch: **R147728**			PrepDate:			Analyst: **LR**
Specific Conductance	9600	0.10	0.10		umhos/cm	1	10/2/2020 09:45 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *20-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-907-Q320
Lab Order:	N042430	**Collection Date:**	10/1/2020 9:43:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042430-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_201002A**	QC Batch: **R147728**			PrepDate:			Analyst: **LR**
Specific Conductance	9300	0.10	0.10		umhos/cm	1	10/2/2020 09:45 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *20-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-46-175-Q320
Lab Order:	N042430	**Collection Date:**	10/1/2020 11:14:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042430-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_201002A**	QC Batch: **R147728**			PrepDate:			Analyst: **LR**
Specific Conductance	16000	0.10	0.10		umhos/cm	1	10/2/2020 09:45 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *20-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-34-100-Q320
Lab Order:	N042430	**Collection Date:**	10/1/2020 10:19:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042430-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_201002A**	QC Batch: **R147728**			PrepDate:			Analyst: **LR**
Specific Conductance	8500	0.10	0.10		umhos/cm	1	10/2/2020 09:45 AM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042430
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 120.1_WPGE

Sample ID **N042429-001BDUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **147728**
Client ID: **ZZZZZZ** Batch ID: **R147728** TestNo: **EPA 120.1** Analysis Date: **10/2/2020** SeqNo: **3951905**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	7820.000	0.10						7790	0.384	2	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *20-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-44-115-Q320
Lab Order:	N042430	**Collection Date:**	10/1/2020 9:33:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042430-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_201004A** QC Batch: **R147772** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	3.4	0.033	0.20		µg/L	1	10/4/2020 09:10 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_201005C** QC Batch: **82424** PrepDate: **10/5/2020** Analyst: **CEI**							
Chromium	4.1	0.13	1.0		µg/L	1	10/6/2020 04:34 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *20-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-907-Q320
Lab Order:	N042430	**Collection Date:**	10/1/2020 9:43:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042430-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_201004A** QC Batch: **R147772** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	3.4	0.033	0.20		µg/L	1	10/4/2020 09:19 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_201005C** QC Batch: **82424** PrepDate: **10/5/2020** Analyst: **CEI**							
Chromium	3.9	0.13	1.0		µg/L	1	10/6/2020 04:48 AM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-46-175-Q320
Lab Order:	N042430	**Collection Date:**	10/1/2020 11:14:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042430-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_201004A** QC Batch: **R147772** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	5.1	0.17	1.0		µg/L	5	10/4/2020 12:19 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_201005C** QC Batch: **82424** PrepDate: **10/5/2020** Analyst: **CEI**							
Chromium	5.5	0.13	1.0		µg/L	1	10/6/2020 05:02 AM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N042430
Project: PG&E Topock - GMP, RC000753.801D
Lab ID: N042430-004

Client Sample ID: MW-34-100-Q320
Collection Date: 10/1/2020 10:19:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_201004A** QC Batch: **R147772** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	10/4/2020 09:38 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_201005C** QC Batch: **82424** PrepDate: **10/5/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	10/6/2020 05:15 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *20-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	EB-781-Q320
Lab Order:	N042430	**Collection Date:**	10/1/2020 12:00:00 PM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042430-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_201004A** QC Batch: **R147772** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	10/4/2020 02:31 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042430
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **MB-R147772** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **PBW** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954239**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID **LCS-R147772** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **LCSW** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954240**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.930	0.20	5.000	0	98.6	90	110				

Sample ID **N042404-006AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954251**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.328	0.20	5.000	4.457	97.4	90	110				

Sample ID **N042404-006AMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954252**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.528	0.20	5.000	4.457	101	90	110	9.328	2.12	20	

Sample ID **N042434-001ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954253**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.971	0.20						0.9608	1.08	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042430
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N042434-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954254**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.945	0.20	1.000	0.9608	98.4	90	110				

Sample ID **N042429-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954255**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1080.060	20	500.0	580.4	99.9	90	110				

Sample ID **N042430-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954256**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	8.531	0.20	5.000	3.354	104	90	110				

Sample ID **N042404-007AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954257**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	42.856	1.0	25.00	17.54	101	90	110				

Sample ID **N042430-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954258**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	8.575	0.20	5.000	3.356	104	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042430
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N042430-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954259**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.006	0.20	1.000	0	101	90	110				

Sample ID **N042430-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954263**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.894	1.0	5.000	5.082	96.2	90	110				

Sample ID **N042435-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954265**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.543	0.20	1.000	0.5348	101	90	110				

Sample ID **N042435-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954267**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.088	0.20	1.000	1.008	108	90	110				

Sample ID **N042403-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954269**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.490	1.0	5.000	0.5955	97.9	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042430
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N042404-008AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954273**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.003	0.20	1.000	0	100	90	110				

Sample ID **N042429-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954275**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.978	0.20	1.000	0	97.8	90	110				

Sample ID **N042430-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954277**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.999	0.20	1.000	0	99.9	90	110				

Sample ID **N042434-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954279**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.993	0.20	1.000	0	99.3	90	110				

Sample ID **N042435-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147772**
Client ID: **ZZZZZZ** Batch ID: **R147772** TestNo: **EPA 218.6** Analysis Date: **10/4/2020** SeqNo: **3954281**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.997	0.20	1.000	0	99.7	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042430
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID **MB-82424** SampType: **MBLK** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **10/5/2020** RunNo: **147863**
Client ID: **PBW** Batch ID: **82424** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/6/2020** SeqNo: **3959670**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID **LCS-82424** SampType: **LCS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **10/5/2020** RunNo: **147863**
Client ID: **LCSW** Batch ID: **82424** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/6/2020** SeqNo: **3959671**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.623	1.0	10.00	0	96.2	85	115				

Sample ID **N042429-001D-MS** SampType: **MS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **10/5/2020** RunNo: **147863**
Client ID: **ZZZZZZ** Batch ID: **82424** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/6/2020** SeqNo: **3959684**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	584.124	5.0	10.00	569.5	146	75	125				S

Sample ID **N042429-001D-MSD** SampType: **MSD** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **10/5/2020** RunNo: **147863**
Client ID: **ZZZZZZ** Batch ID: **82424** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/6/2020** SeqNo: **3959687**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	581.696	5.0	10.00	569.5	122	75	125	584.1	0.416	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042430
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID	**N042429-001D-PS**	SampType:	**PS**	TestCode:	**6020DIS_CrP**	Units:	**µg/L**	Prep Date:			RunNo:	**147863**
Client ID:	**ZZZZZZ**	Batch ID:	**82424**	TestNo:	**EPA 6020**		**EPA 3010A**	Analysis Date:	**10/6/2020**		SeqNo:	**3959681**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	576.607	5.0	10.00	569.5	71.3	80	120				S

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *20-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-44-115-Q320
Lab Order:	N042430	**Collection Date:**	10/1/2020 9:33:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042430-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_201012B** QC Batch: **R147956** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	ND	0.032	0.050		mg/L	1	10/12/2020 06:09 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *20-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-907-Q320
Lab Order:	N042430	**Collection Date:**	10/1/2020 9:43:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042430-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_201012B** QC Batch: **R147956** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	ND	0.032	0.050		mg/L	1	10/12/2020 06:10 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-46-175-Q320
Lab Order:	N042430	**Collection Date:**	10/1/2020 11:14:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042430-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_201012B** QC Batch: **R147956** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.92	0.032	0.050		mg/L	1	10/12/2020 06:11 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *20-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-34-100-Q320
Lab Order:	N042430	**Collection Date:**	10/1/2020 10:19:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042430-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_201012B** QC Batch: **R147956** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	ND	0.032	0.050		mg/L	1	10/12/2020 06:09 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042430
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID **MB-R147956** SampType: **MBLK** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147956**
Client ID: **PBW** Batch ID: **R147956** TestNo: **SM4500-NO3** Analysis Date: **10/12/2020** SeqNo: **3965856**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID **LCS-R147956** SampType: **LCS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147956**
Client ID: **LCSW** Batch ID: **R147956** TestNo: **SM4500-NO3** Analysis Date: **10/12/2020** SeqNo: **3965857**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.485	0.050	0.5000	0	97.1	85	115				

Sample ID **N042405-003BDUP** SampType: **DUP** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147956**
Client ID: **ZZZZZZ** Batch ID: **R147956** TestNo: **SM4500-NO3** Analysis Date: **10/12/2020** SeqNo: **3965859**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.688	0.050						0.6388	7.42	20	

Sample ID **N042405-003BMS** SampType: **MS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147956**
Client ID: **ZZZZZZ** Batch ID: **R147956** TestNo: **SM4500-NO3** Analysis Date: **10/12/2020** SeqNo: **3965860**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	1.154	0.050	0.5000	0.6388	103	75	125				

Sample ID **N042405-003BMSD** SampType: **MSD** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147956**
Client ID: **ZZZZZZ** Batch ID: **R147956** TestNo: **SM4500-NO3** Analysis Date: **10/12/2020** SeqNo: **3965861**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	1.122	0.050	0.5000	0.6388	96.7	75	125	1.154	2.78	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *20-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-44-115-Q320
Lab Order:	N042430	**Collection Date:**	10/1/2020 9:33:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042430-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_201008A**	QC Batch: **82424**				PrepDate:	**10/5/2020**	Analyst: **CEI**
Arsenic	2.2	0.081	0.10		µg/L	1	10/8/2020 05:10 PM
Manganese	6.5	0.26	0.50		µg/L	1	10/6/2020 04:34 AM
Molybdenum	55	0.21	0.50		µg/L	1	10/17/2020 06:48 PM
Selenium	ND	0.36	0.50		µg/L	1	10/8/2020 05:10 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *20-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-907-Q320
Lab Order:	N042430	**Collection Date:**	10/1/2020 9:43:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042430-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_201008A**	QC Batch: **82424**				PrepDate:	**10/5/2020**	Analyst: **CEI**
Arsenic	1.9	0.081	0.10		µg/L	1	10/8/2020 05:15 PM
Manganese	5.9	0.26	0.50		µg/L	1	10/6/2020 04:48 AM
Molybdenum	84	0.21	0.50		µg/L	1	10/17/2020 06:29 PM
Selenium	ND	0.36	0.50		µg/L	1	10/8/2020 05:15 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *20-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-46-175-Q320
Lab Order:	N042430	**Collection Date:**	10/1/2020 11:14:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042430-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_201017A**	QC Batch: **82424**			PrepDate:		**10/5/2020**	Analyst: **CEI**
Molybdenum	190	1.1	2.5		µg/L	5	10/17/2020 08:33 PM
Selenium	1.0	0.36	0.50		µg/L	1	10/17/2020 06:34 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *20-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-34-100-Q320
Lab Order:	N042430	**Collection Date:**	10/1/2020 10:19:00 AM
Project:	PG&E Topock - GMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042430-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_201008A**	QC Batch: **82424**				PrepDate:	**10/5/2020**	Analyst: **CEI**
Arsenic	ND	0.081	0.10		µg/L	1	10/8/2020 05:24 PM
Manganese	190	1.3	2.5		µg/L	5	10/6/2020 05:29 AM
Molybdenum	85	0.21	0.50		µg/L	1	10/17/2020 06:25 PM
Selenium	ND	0.36	0.50		µg/L	1	10/17/2020 06:25 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042430
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID **MB-82424** SampType: **MBLK** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/5/2020** RunNo: **147863**
Client ID: **PBW** Batch ID: **82424** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/6/2020** SeqNo: **3959777**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	0.50									

Sample ID **LCS-82424** SampType: **LCS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/5/2020** RunNo: **147863**
Client ID: **LCSW** Batch ID: **82424** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/6/2020** SeqNo: **3959778**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	97.194	0.50	100.0	0	97.2	85	115				

Sample ID **N042429-001D-MS** SampType: **MS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/5/2020** RunNo: **147863**
Client ID: **ZZZZZZ** Batch ID: **82424** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/6/2020** SeqNo: **3959790**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	96.514	0.50	100.0	4.969	91.5	75	125				

Sample ID **N042429-001D-MSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/5/2020** RunNo: **147863**
Client ID: **ZZZZZZ** Batch ID: **82424** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/6/2020** SeqNo: **3959793**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	97.137	0.50	100.0	4.969	92.2	75	125	96.51	0.643	20	

Sample ID **MB-82424** SampType: **MBLK** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/5/2020** RunNo: **147959**
Client ID: **PBW** Batch ID: **82424** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/8/2020** SeqNo: **3966022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Selenium	ND	0.50									

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042430
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID **LCS-82424** SampType: **LCS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/5/2020** RunNo: **147959**
Client ID: **LCSW** Batch ID: **82424** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/8/2020** SeqNo: **3966023**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.168	0.10	10.00	0	102	85	115				
Selenium	9.868	0.50	10.00	0	98.7	85	115				

Sample ID **N042429-001D-MS** SampType: **MS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/5/2020** RunNo: **147959**
Client ID: **ZZZZZZ** Batch ID: **82424** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/8/2020** SeqNo: **3966029**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.220	0.10	10.00	0	102	75	125				
Selenium	16.037	0.50	10.00	6.491	95.5	75	125				

Sample ID **N042429-001D-MSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/5/2020** RunNo: **147959**
Client ID: **ZZZZZZ** Batch ID: **82424** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/8/2020** SeqNo: **3966030**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.758	0.10	10.00	0	108	75	125	10.22	5.13	20	
Selenium	16.408	0.50	10.00	6.491	99.2	75	125	16.04	2.29	20	

Sample ID **MB-82424** SampType: **MBLK** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/5/2020** RunNo: **148091**
Client ID: **PBW** Batch ID: **82424** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/17/2020** SeqNo: **3972534**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	ND	0.50									

Sample ID **LCS-82424** SampType: **LCS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **10/5/2020** RunNo: **148091**
Client ID: **LCSW** Batch ID: **82424** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **10/17/2020** SeqNo: **3972535**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	9.586	0.50	10.00	0	95.9	85	115				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042430
Project: PG&E Topock - GMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID	N042429-001D-MS	SampType:	MS	TestCode:	6020_DIS_TP	Units:	µg/L	Prep Date:	10/5/2020	RunNo:	148091
Client ID:	ZZZZZZ	Batch ID:	82424	TestNo:	EPA 6020	EPA 3010A		Analysis Date:	10/17/2020	SeqNo:	3972539

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	28.931	0.50	10.00	18.21	107	75	125				

Sample ID	N042429-001D-MSD	SampType:	MSD	TestCode:	6020_DIS_TP	Units:	µg/L	Prep Date:	10/5/2020	RunNo:	148091
Client ID:	ZZZZZZ	Batch ID:	82424	TestNo:	EPA 6020	EPA 3010A		Analysis Date:	10/17/2020	SeqNo:	3972540

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	29.093	0.50	10.00	18.21	109	75	125	28.93	0.558	20	

Qualifiers:

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

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

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P: 702.307.2659 F: 702.307.2691
California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F:562.219.7436
www.assetlaboratories.com

Client: Arcadis
Address: 1410 Rocky Ridge Dr # 330
Address: Roseville, CA 95661
Phone: 916-786-3302 Fax:
Submitted By: Riggie Tep
Title: Field Tech
Signature: Date: 10/01/20
I hereby authorize ASSET Labs to perform the tests indicated below.
Project Name: PG&E Topock - GMP
Project Number: RC000753.801D

Report to: Dan Bush
Company: Arcadis
Email: dan.bush@arcadis.com
daniel.moore@critigen.com
Address: 1410 Rocky Ridge Dr # 330
Roseville, CA 95661
Phone: 916-786-3302 Fax:
Sampled By: Riggie Tep
I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
Signature: Date: 10/01/20

Bill to: Marty Bloes
Address:
Address:
Email to: mbloes@pivox.com
P.O.# SWA-ASSET-C9817-057
Phone: 949-727-1400, ext 200
Fax:

EDD Requirement: Excel EDD; Geotracker; Labspec; Others ✓; Specify: RWQCB; Global ID:

QA/QC: RTNE; RWQCB ✓; CalTrans; LEVEL III; LEVEL IV; Regulatory; Specify State:

Sample Receipt Condition (Y / N):
1. Chilled ✓
2. Headspace ✓
3. Container Intact ✓
4. Seal Present ✓
5. IR number 12
6. Method of Cooling: ICE
Sample Temp: 1.6°C
Courier:
Tracking No.:

Matrix: Ground x; Sediment; Potable; Soil; NPDES; Other Solid; Surface

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (250 mL poly)	Oxygen and Deuterium Isotopes (CFIRM), Ice (250 mL poly)	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (2x250 mL poly)	Alkalinity, Total as CaCO3 (SM2320B) (1 liter poly)	Bromide, Sulfate, Chloride (EPA 300.0) (1 liter poly)	Fluoride (EPA 300.0) (1 liter poly)	Specific Conductance (EPA 120.1) (1 liter poly)	Total Dissolved Solids (SM92540) (1 liter poly)	Nitrate/Nitrite (SM4500N03) Nitrate; H2SO4 (125 mL poly)	Total Organic Carbon (SM5310C); H2SO4 (3x40 mL poly)	Dissolved metals (SW 6020), HNO3 As, Cr, Mn (500 mL poly)	Dissolved Metals (SW 6020B); HNO3 As, Cr, Mn, Mo, Se (500 mL poly)	Dissolved metals (SW 6020), HNO3 Cr, Mo, Se (500 mL poly)	Dissolved Metals (SW 6010B); HNO3 Chromium (500 mL poly)	Metals Dissolved (EPA7470A FF) Hg; HNO3 (500 mL poly)	Dissolved Metals (SW 6010B); HNO3 Potassium (500 mL poly)	Total metals, Chromium (EPA 200.8), HNO3 (500 mL poly)	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
1	N042430-01	MW-44-115-Q320	10/1/2020	9:33		X						X		X			X						E	4	P	BNS	
2	-02	MW-907-Q320	10/1/2020	9:43		X						X		X			X						E	4	P	BNS	
3	-03	MW-46-175-Q320	10/1/2020	11:14		X						X		X				X					E	4	P	BNS	
4	-04	MW-34-100-Q320	10/1/2020	10:19		X						X		X			X						E	4	P	BNS	
5	-05 (II)	~~EB-782-Q320~~ EB-781-Q320	10/1/2020	12:00		X																	E	1	P	BNS	
6																											
7																											
8																											
9																											
10																											
11																											
12																											

Relinquished by (Signature and Printed Name): Riggie Tep Date/Time: 10/01/20 1537
Received by (Signature and Printed Name): Date/Time: 10/01/20 1537
Relinquished by (Signature and Printed Name): Date/Time: 10/1/20 1804
Received by (Signature and Printed Name): Jocelyn Rodriguez Date/Time: 10/1/20 1804
Relinquished by (Signature and Printed Name): Date/Time:
Received by (Signature and Printed Name): Date/Time:

Turn Around Time (TAT)
- A = < 24 Hrs or Same Day TAT
- B = Next Workday
- C = 2 Workdays
- D = 3 Workdays
- X E = Routine 5-7 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Special Instruction:
Tittle 22 Metals - Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
Less than 24 Hrs.=200% Next Day=100% 2 Workdays=50% 3 Workdays=35 % 4 Workdays=20%
3. Custom EDD formats will be an additional 3% of the total project price
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
5. Trip Blanks and Equipment Blanks are billable sample.
6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
7. Terms are net 30 days.
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
9. For subcontract analysis, TAT and Surcharges will vary 5. Trip Blanks and Equipment Blanks are billable sample.
6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
7. Terms are net 30 days.
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.

Preservatives:
H=HCL; N=HNO_3 (5%HNO3); S=H_2SO_4 (5%H2); C=4°C=4°; Z=Zn$(AC)_2$ (2Z=Zn(AC)2); O=NaOH; T=$Na_2S_2O_3$ (5T=Na2); Other/Specify: B (NH4)2SO4/NH4OH

Container Type:
T=Tube; V=VOA; P=Pint; J=Jar; B=Tedlar; G=Glass; M=Metal; M=Metal; C=Can

White=Laboratory Copy
Yellow=Customer's Copy

ASSET Laboratories

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

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

Cooler Received/Opened On:	10/1/2020	Workorder:	N042430
Rep sample Temp (Deg C):	1.6	IR Gun ID:	2
Temp Blank:	☑ Yes ☐ No		
Carrier name:	ASSET		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

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

Comments:

For:

Checklist Completed By: YR BHdez 10/2/2020

Reviewed By: MBC 10/05/52020

ASSET Laboratories

WORK ORDER Summary

02-Oct-20

WorkOrder: N042430

Client ID: ARCUS02

Project: PG&E Topock - GMP, RC000753.801D **QC Level:** Level IV **Date Received:** 10/1/2020

Comments: Title 22 Metals- Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na.

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N042430-001A	MW-44-115-Q320	10/1/2020 9:33:00 AM	10/15/2020	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N042430-001B			10/15/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
N042430-001C			10/15/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N042430-001D			10/15/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			10/15/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			10/15/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N042430-002A	MW-907-Q320	10/1/2020 9:43:00 AM	10/15/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N042430-002B			10/15/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
N042430-002C			10/15/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N042430-002D			10/15/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			10/15/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			10/15/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N042430-003A	MW-46-175-Q320	10/1/2020 11:14:00 AM	10/15/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N042430-003B			10/15/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
N042430-003C			10/15/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N042430-003D			10/15/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			10/15/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			10/15/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N042430-004A	MW-34-100-Q320	10/1/2020 10:19:00 AM	10/15/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N042430-004B			10/15/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
N042430-004C			10/15/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

02-Oct-20

WorkOrder: N042430

Client ID: ARCUS02

Project: PG&E Topock - GMP, RC000753.801D **QC Level:** Level IV **Date Received:** 10/1/2020

Comments: Title 22 Metals- Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na.

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N042430-004D	MW-34-100-Q320	10/1/2020 10:19:00 AM	10/15/2020	Groundwater	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			10/15/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			10/15/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N042430-005A	EB-781-Q320	10/1/2020 12:00:00 PM	10/15/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N042430-006A	FOLDER	10/15/2020	10/15/2020		EDD	RWQCB	☐	☐	☐	LAB
			10/15/2020		Folder	Folder	☐	☐	☐	LAB
			10/15/2020		Folder	Level IV Report	☐	☐	☐	LAB
			10/15/2020		Folder	Folder	☐	☐	☐	LAB

October 21, 2020

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661

TEL: (916) 786-3302
FAX:

Workorder No.: N042508

RE: PG&E Topock - PMP, RC000753.801D

Attention: Dan Bush

Enclosed are the results for sample(s) received on October 07, 2020 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Nancy Sibucao
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - Las Vegas.

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

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

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

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

Samples were analyzed within method holding time except for pH. pH testing is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

Analytical Comments for EPA 200.7_Dissolved:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Calcium and Sodium in QC samples N042507-001E-MS1, N042507-001E-MSD1, N042513-008B-MS1, N042508-001B-MS2, N042508-001B-MSD2 and N042513-009B-MS2 since the analyte concentration in the sample is disproportionate to the spike level. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for some analytes in QC samples N042507-001E-MS1 and N042513-008B-MS1 possibly due to matrix interference. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

ASSET Laboratories

Date: *21-Oct-20*

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PMP, RC000753.801D
Lab Order: N042508
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N042508-001A	TW-03D-1020	Groundwater	10/7/2020 9:50:00 AM	10/7/2020	10/21/2020
N042508-001B	TW-03D-1020	Groundwater	10/7/2020 9:50:00 AM	10/7/2020	10/21/2020
N042508-001C	TW-03D-1020	Groundwater	10/7/2020 9:50:00 AM	10/7/2020	10/21/2020
N042508-001D	TW-03D-1020	Groundwater	10/7/2020 9:50:00 AM	10/7/2020	10/21/2020

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *21-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-1020
Lab Order:	N042508	**Collection Date:**	10/7/2020 9:50:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042508-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_201008B**	QC Batch: **R147873**			PrepDate:			Analyst: **QBM**
Specific Conductance	7000	0.10	0.10		umhos/cm	1	10/8/2020 11:15 AM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042508
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 120.1_WPGE

Sample ID: **N042513-009CDUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **147873**
Client ID: **ZZZZZZ** Batch ID: **R147873** TestNo: **EPA 120.1** Analysis Date: **10/8/2020** SeqNo: **3960532**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	6850.000	0.10						6810	0.586	2	

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-1020
Lab Order:	N042508	**Collection Date:**	10/7/2020 9:50:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042508-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_201008A**	QC Batch: **R147872**			PrepDate:			Analyst: **QBM**
pH	7.2	0.10	0.10	H	pH Units	1	10/8/2020 12:25 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	10/8/2020 12:25 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042508
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 150.1_4500H+B_W

Sample ID: **N042508-001CDUP** SampType: **DUP** TestCode: **150.1_4500H** Units: **pH Units** Prep Date: RunNo: **147872**
Client ID: **ZZZZZZ** Batch ID: **R147872** TestNo: **SM4500-H+B** Analysis Date: **10/8/2020** SeqNo: **3960521**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.290	0.10						7.250	0.550	10	H
Temp. at time of pH Analysis	25.000	0.10						25.00	0	10	H

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *21-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-1020
Lab Order:	N042508	**Collection Date:**	10/7/2020 9:50:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042508-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE							
			SM2540C				
RunID: **NV00922-WC_201008G**	QC Batch: **82488**			PrepDate:	**10/8/2020**		Analyst: **QBM**
Total Dissolved Solids (Residue, Filterable)	4400	50	50		mg/L	1	10/8/2020 08:15 AM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042508
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.1_2540C_W

Sample ID: **LCS-82488** SampType: **LCS** TestCode: **160.1_2540C_** Units: **mg/L** Prep Date: **10/8/2020** RunNo: **147904**
Client ID: **LCSW** Batch ID: **82488** TestNo: **SM2540C** Analysis Date: **10/8/2020** SeqNo: **3961556**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filterat	974.000	10	1000	0	97.4	80	120				

Sample ID: **MB-82488** SampType: **MBLK** TestCode: **160.1_2540C_** Units: **mg/L** Prep Date: **10/8/2020** RunNo: **147904**
Client ID: **PBW** Batch ID: **82488** TestNo: **SM2540C** Analysis Date: **10/8/2020** SeqNo: **3961557**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filterat	ND	10									

Sample ID: **N042508-001C-DUP** SampType: **DUP** TestCode: **160.1_2540C_** Units: **mg/L** Prep Date: **10/8/2020** RunNo: **147904**
Client ID: **ZZZZZZ** Batch ID: **82488** TestNo: **SM2540C** Analysis Date: **10/8/2020** SeqNo: **3961559**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filterat	4385.000	50						4390	0.114	5	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *21-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-1020
Lab Order:	N042508	**Collection Date:**	10/7/2020 9:50:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042508-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
			EPA 200.7				
RunID: **NV00922-ICP2_201014A**	QC Batch: **82532**			PrepDate:	**10/12/2020**		Analyst: **DJ**
Calcium	190000	85	500		µg/L	1	10/14/2020 09:17 AM
Iron	93	18	20		µg/L	1	10/14/2020 09:17 AM
Magnesium	37000	48	100		µg/L	1	10/14/2020 09:17 AM
Sodium	1500000	9600	50000		µg/L	100	10/14/2020 03:45 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042508
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WDPGEPPB

Sample ID: **LCS1-82532** SampType: **LCS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **10/12/2020** RunNo: **148004**
Client ID: **LCSW** Batch ID: **82532** TestNo: **EPA 200.7** Analysis Date: **10/14/2020** SeqNo: **3967908**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	9941.518	500	10000	0	99.4	85	115				
Iron	93.531	20	100.0	0	93.5	85	115				
Magnesium	11023.631	100	10000	0	110	85	115				

Sample ID: **N042507-001E-MS1** SampType: **MS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **10/12/2020** RunNo: **148004**
Client ID: **ZZZZZZ** Batch ID: **82532** TestNo: **EPA 200.7** Analysis Date: **10/14/2020** SeqNo: **3967911**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	175729.722	2500	10000	208000	-323	75	125				S
Iron	98.859	100	100.0	0	98.9	75	125				
Magnesium	38137.458	500	10000	33160	49.7	75	125				S

Sample ID: **N042507-001E-MSD** SampType: **MSD** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **10/12/2020** RunNo: **148004**
Client ID: **ZZZZZZ** Batch ID: **82532** TestNo: **EPA 200.7** Analysis Date: **10/14/2020** SeqNo: **3967912**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	182574.852	2500	10000	208000	-254	75	125	175700	3.82	20	S
Iron	114.393	100	100.0	0	114	75	125	98.86	14.6	20	
Magnesium	40845.286	500	10000	33160	76.8	75	125	38140	6.86	20	

Sample ID: **N042513-008B-MS1** SampType: **MS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **10/12/2020** RunNo: **148004**
Client ID: **ZZZZZZ** Batch ID: **82532** TestNo: **EPA 200.7** Analysis Date: **10/14/2020** SeqNo: **3967922**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	167972.876	2500	10000	151500	165	75	125				S
Iron	174.652	100	100.0	0	175	75	125				S
Magnesium	47102.553	500	10000	33090	140	75	125				S

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042508
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WDPGEPPB

Sample ID: **MB-82532** SampType: **MBLK** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **10/12/2020** RunNo: **148030**
Client ID: **PBW** Batch ID: **82532** TestNo: **EPA 200.7** Analysis Date: **10/14/2020** SeqNo: **3968713**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	ND	500									

Sample ID: **LCS2-82532** SampType: **LCS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **10/12/2020** RunNo: **148030**
Client ID: **LCSW** Batch ID: **82532** TestNo: **EPA 200.7** Analysis Date: **10/14/2020** SeqNo: **3968714**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	20140.079	500	20000	0	101	85	115				

Sample ID: **N042508-001B-MS2** SampType: **MS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **10/12/2020** RunNo: **148030**
Client ID: **ZZZZZZ** Batch ID: **82532** TestNo: **EPA 200.7** Analysis Date: **10/14/2020** SeqNo: **3968733**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	1229339.876	50000	20000	1468000	-1190	75	125				S

Sample ID: **N042508-001B-MSD** SampType: **MSD** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **10/12/2020** RunNo: **148030**
Client ID: **ZZZZZZ** Batch ID: **82532** TestNo: **EPA 200.7** Analysis Date: **10/14/2020** SeqNo: **3968737**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	1306854.834	50000	20000	1468000	-807	75	125	1229000	6.11	20	S

Sample ID: **N042513-009B-MS2** SampType: **MS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **10/12/2020** RunNo: **148030**
Client ID: **ZZZZZZ** Batch ID: **82532** TestNo: **EPA 200.7** Analysis Date: **10/14/2020** SeqNo: **3968768**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	654818.624	25000	20000	1398000	-3720	75	125				S

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042508
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WDPGEPPB

Sample ID: **MB-82532** SampType: **MBLK** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **10/12/2020** RunNo: **148037**
Client ID: **PBW** Batch ID: **82532** TestNo: **EPA 200.7** Analysis Date: **10/15/2020** SeqNo: **3969007**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	ND	500									
Iron	ND	20									
Magnesium	ND	100									

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042508
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WDPGEPPB

Sample ID: **N042507-001E-PS** SampType: **PS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: RunNo: **148004**
Client ID: **ZZZZZZ** Batch ID: **82532** TestNo: **EPA 200.7** Analysis Date: **10/14/2020** SeqNo: **3967910**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	191541.918	2500	10000	208000	-165	80	120				S
Iron	130.259	100	100.0	0	130	80	120				S
Magnesium	41749.624	500	10000	33160	85.9	80	120				

Sample ID: **N042508-001B-PS** SampType: **PS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: RunNo: **148030**
Client ID: **ZZZZZZ** Batch ID: **82532** TestNo: **EPA 200.7** Analysis Date: **10/14/2020** SeqNo: **3968731**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	1357528.426	50000	20000	1468000	-554	80	120				S

Sample ID: **N042513-009B-PS** SampType: **PS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: RunNo: **148030**
Client ID: **ZZZZZZ** Batch ID: **82532** TestNo: **EPA 200.7** Analysis Date: **10/14/2020** SeqNo: **3968767**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	908723.877	25000	20000	1398000	-2450	80	120				S

Sample ID: **N042513-008B-PS** SampType: **PS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: RunNo: **148037**
Client ID: **ZZZZZZ** Batch ID: **82532** TestNo: **EPA 200.7** Analysis Date: **10/15/2020** SeqNo: **3969009**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	132177.660	2500	10000	151500	-193	80	120				S
Iron	210.094	100	100.0	0	210	80	120				S
Magnesium	36528.181	500	10000	33090	34.4	80	120				S

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *21-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-1020
Lab Order:	N042508	**Collection Date:**	10/7/2020 9:50:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042508-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICPMS							
EPA 200.8							
RunID: **NV00922-ICP8_201012B** QC Batch: **82504** PrepDate: **10/10/2020** Analyst: **CEI**							
Manganese	19	0.26	0.50		µg/L	1	10/12/2020 01:42 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042508
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_WDISS_TPK

Sample ID: **MB-82504** SampType: **MBLK** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **10/10/2020** RunNo: **148068**
Client ID: **PBW** Batch ID: **82504** TestNo: **EPA 200.8** Analysis Date: **10/12/2020** SeqNo: **3970679**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	0.50									

Sample ID: **LCS-82504** SampType: **LCS** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **10/10/2020** RunNo: **148068**
Client ID: **LCSW** Batch ID: **82504** TestNo: **EPA 200.8** Analysis Date: **10/12/2020** SeqNo: **3970680**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	98.675	0.50	100.0	0	98.7	85	115				

Sample ID: **N042508-001B-MS** SampType: **MS** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **10/10/2020** RunNo: **148068**
Client ID: **ZZZZZZ** Batch ID: **82504** TestNo: **EPA 200.8** Analysis Date: **10/12/2020** SeqNo: **3970688**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	112.526	0.50	100.0	18.93	93.6	75	125				

Sample ID: **N042508-001B-MSD** SampType: **MSD** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **10/10/2020** RunNo: **148068**
Client ID: **ZZZZZZ** Batch ID: **82504** TestNo: **EPA 200.8** Analysis Date: **10/12/2020** SeqNo: **3970693**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	113.613	0.50	100.0	18.93	94.7	75	125	112.5	0.961	20	

Sample ID: **N042522-001C-MS** SampType: **MS** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **10/10/2020** RunNo: **148068**
Client ID: **ZZZZZZ** Batch ID: **82504** TestNo: **EPA 200.8** Analysis Date: **10/12/2020** SeqNo: **3970738**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	105.110	0.50	100.0	7.543	97.6	75	125				

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *21-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-1020
Lab Order:	N042508	**Collection Date:**	10/7/2020 9:50:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042508-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_201008A** QC Batch: **R147882** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	420	1.7	10		µg/L	50	10/8/2020 10:46 AM
DISSOLVED METALS BY ICP-MS							
EPA 200.8							
RunID: **NV00922-ICP8_201012B** QC Batch: **82504** PrepDate: **10/10/2020** Analyst: **CEI**							
Chromium	400	0.65	5.0		µg/L	5	10/12/2020 01:47 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042508
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8Dis_CrPGE_TPK

Sample ID: **MB-82504** SampType: **MBLK** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: **10/10/2020** RunNo: **148068**
Client ID: **PBW** Batch ID: **82504** TestNo: **EPA 200.8** Analysis Date: **10/12/2020** SeqNo: **3970486**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID: **LCS-82504** SampType: **LCS** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: **10/10/2020** RunNo: **148068**
Client ID: **LCSW** Batch ID: **82504** TestNo: **EPA 200.8** Analysis Date: **10/12/2020** SeqNo: **3970487**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.636	1.0	10.00	0	96.4	85	115				

Sample ID: **N042508-001B-MS** SampType: **MS** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: **10/10/2020** RunNo: **148068**
Client ID: **ZZZZZZ** Batch ID: **82504** TestNo: **EPA 200.8** Analysis Date: **10/12/2020** SeqNo: **3970498**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	408.147	5.0	10.00	397.3	109	75	125				

Sample ID: **N042508-001B-MSD** SampType: **MSD** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: **10/10/2020** RunNo: **148068**
Client ID: **ZZZZZZ** Batch ID: **82504** TestNo: **EPA 200.8** Analysis Date: **10/12/2020** SeqNo: **3970501**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	408.037	5.0	10.00	397.3	107	75	125	408.1	0.0270	20	

Sample ID: **N042522-001C-MS** SampType: **MS** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: **10/10/2020** RunNo: **148068**
Client ID: **ZZZZZZ** Batch ID: **82504** TestNo: **EPA 200.8** Analysis Date: **10/12/2020** SeqNo: **3970545**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	11.606	1.0	10.00	1.985	96.2	75	125				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042508
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **MB-R147882** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147882**
Client ID: **PBW** Batch ID: **R147882** TestNo: **EPA 218.6** Analysis Date: **10/8/2020** SeqNo: **3960865**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **LCS-R147882** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147882**
Client ID: **LCSW** Batch ID: **R147882** TestNo: **EPA 218.6** Analysis Date: **10/8/2020** SeqNo: **3960866**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.044	0.20	5.000	0	101	90	110				

Sample ID: **N042511-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147882**
Client ID: **ZZZZZZ** Batch ID: **R147882** TestNo: **EPA 218.6** Analysis Date: **10/8/2020** SeqNo: **3960867**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.241	0.20	1.000	1.237	100	90	110				

Sample ID: **N042511-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147882**
Client ID: **ZZZZZZ** Batch ID: **R147882** TestNo: **EPA 218.6** Analysis Date: **10/8/2020** SeqNo: **3960869**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.056	0.20	1.000	0.08220	97.3	90	110				

Sample ID: **N042511-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147882**
Client ID: **ZZZZZZ** Batch ID: **R147882** TestNo: **EPA 218.6** Analysis Date: **10/8/2020** SeqNo: **3960871**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.087	0.20	1.000	0.07780	101	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042508
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N042511-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147882**
Client ID: **ZZZZZZ** Batch ID: **R147882** TestNo: **EPA 218.6** Analysis Date: **10/8/2020** SeqNo: **3960873**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.721	0.20	1.000	0.7064	101	90	110				

Sample ID: **N042511-004AMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147882**
Client ID: **ZZZZZZ** Batch ID: **R147882** TestNo: **EPA 218.6** Analysis Date: **10/8/2020** SeqNo: **3960880**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.687	0.20	1.000	0.7064	98.1	90	110	1.721	2.00	20	

Sample ID: **N042512-001ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147882**
Client ID: **ZZZZZZ** Batch ID: **R147882** TestNo: **EPA 218.6** Analysis Date: **10/8/2020** SeqNo: **3960881**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	3.907	0.20						3.888	0.480	20	

Sample ID: **N042508-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147882**
Client ID: **ZZZZZZ** Batch ID: **R147882** TestNo: **EPA 218.6** Analysis Date: **10/8/2020** SeqNo: **3960883**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	660.500	10	250.0	424.6	94.4	90	110				

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-1020
Lab Order:	N042508	**Collection Date:**	10/7/2020 9:50:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042508-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ALKALINITY, SPECIATED							
			SM 2320 B				
RunID: **NV00922-WC_201009C**	QC Batch: **R147905**			PrepDate:			Analyst: **QBM**
Alkalinity, Total (As CaCO3)	150	1.2	5.0		mg/L	1	10/9/2020 09:20 AM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042508
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 2320_W_SP

Sample ID: **LCS-R147905** SampType: **LCS** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **147905**
Client ID: **LCSW** Batch ID: **R147905** TestNo: **SM 2320 B** Analysis Date: **10/9/2020** SeqNo: **3961569**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	100.423	5.0	100.0	0	100	85	115				

Sample ID: **MB-R147905** SampType: **MBLK** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **147905**
Client ID: **PBW** Batch ID: **R147905** TestNo: **SM 2320 B** Analysis Date: **10/9/2020** SeqNo: **3961570**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	5.0									

Sample ID: **N042508-001CDUP** SampType: **DUP** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **147905**
Client ID: **ZZZZZZ** Batch ID: **R147905** TestNo: **SM 2320 B** Analysis Date: **10/9/2020** SeqNo: **3961572**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	146.934	5.0						146.9	0	30	

Sample ID: **N042508-001CMS** SampType: **MS** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **147905**
Client ID: **ZZZZZZ** Batch ID: **R147905** TestNo: **SM 2320 B** Analysis Date: **10/9/2020** SeqNo: **3961573**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	244.186	5.0	100.0	146.9	97.3	75	125				

Sample ID: **N042508-001CMSD** SampType: **MSD** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **147905**
Client ID: **ZZZZZZ** Batch ID: **R147905** TestNo: **SM 2320 B** Analysis Date: **10/9/2020** SeqNo: **3961574**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	245.243	5.0	100.0	146.9	98.3	75	125	244.2	0.432	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N042508
Project: PG&E Topock - PMP, RC000753.801D
Lab ID: N042508-001

Client Sample ID: TW-03D-1020
Collection Date: 10/7/2020 9:50:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: **NV00922-IC8_201008A** QC Batch: **R147894** PrepDate: Analyst: **RAB**							
Chloride	2100	17	250		mg/L	500	10/8/2020 11:18 PM
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: **NV00922-IC8_201008A** QC Batch: **R147894** PrepDate: Analyst: **RAB**							
Sulfate	480	2.0	25		mg/L	50	10/8/2020 07:00 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042508
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CLPGE

Sample ID: **MB-R147894_CL** SampType: **MBLK** TestCode: **300_W_CLPG** Units: **mg/L** Prep Date: RunNo: **147894**
Client ID: **PBW** Batch ID: **R147894** TestNo: **EPA 300.0** Analysis Date: **10/8/2020** SeqNo: **3961313**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	0.160	0.50									

Sample ID: **LCS-R147894_CL** SampType: **LCS** TestCode: **300_W_CLPG** Units: **mg/L** Prep Date: RunNo: **147894**
Client ID: **LCSW** Batch ID: **R147894** TestNo: **EPA 300.0** Analysis Date: **10/8/2020** SeqNo: **3961314**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	2.003	0.50	2.000	0	100	90	110				

Sample ID: **N042513-001DMS** SampType: **MS** TestCode: **300_W_CLPG** Units: **mg/L** Prep Date: RunNo: **147894**
Client ID: **ZZZZZZ** Batch ID: **R147894** TestNo: **EPA 300.0** Analysis Date: **10/8/2020** SeqNo: **3961324**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	3210.100	250	1000	2166	104	80	120				

Sample ID: **N042513-001DMSD** SampType: **MSD** TestCode: **300_W_CLPG** Units: **mg/L** Prep Date: RunNo: **147894**
Client ID: **ZZZZZZ** Batch ID: **R147894** TestNo: **EPA 300.0** Analysis Date: **10/8/2020** SeqNo: **3961325**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	3219.650	250	1000	2166	105	80	120	3210	0.297	20	

Sample ID: **N042513-005CMS** SampType: **MS** TestCode: **300_W_CLPG** Units: **mg/L** Prep Date: RunNo: **147894**
Client ID: **ZZZZZZ** Batch ID: **R147894** TestNo: **EPA 300.0** Analysis Date: **10/8/2020** SeqNo: **3961327**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	3231.750	250	1000	2198	103	80	120				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042508
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CLPGE

Sample ID: **N042513-009CDUP** SampType: **DUP** TestCode: **300_W_CLPG** Units: **mg/L** Prep Date: RunNo: **147894**
Client ID: **ZZZZZZ** Batch ID: **R147894** TestNo: **EPA 300.0** Analysis Date: **10/8/2020** SeqNo: **3961329**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	2140.900	250						2142	0.0630	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042508
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: **MB-R147894_SO4** SampType: **MBLK** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **147894**
Client ID: **PBW** Batch ID: **R147894** TestNo: **EPA 300.0** Analysis Date: **10/8/2020** SeqNo: **3961369**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.50									

Sample ID: **LCS-R147894_SO4** SampType: **LCS** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **147894**
Client ID: **LCSW** Batch ID: **R147894** TestNo: **EPA 300.0** Analysis Date: **10/8/2020** SeqNo: **3961370**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.094	0.50	4.000	0	102	90	110				

Sample ID: **N042513-003DMS** SampType: **MS** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **147894**
Client ID: **ZZZZZZ** Batch ID: **R147894** TestNo: **EPA 300.0** Analysis Date: **10/8/2020** SeqNo: **3961376**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	716.700	25	200.0	506.1	105	80	120				

Sample ID: **N042513-003DMSD** SampType: **MSD** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **147894**
Client ID: **ZZZZZZ** Batch ID: **R147894** TestNo: **EPA 300.0** Analysis Date: **10/8/2020** SeqNo: **3961377**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	708.930	25	200.0	506.1	101	80	120	716.7	1.09	20	

Sample ID: **N042507-001BMS** SampType: **MS** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **147894**
Client ID: **ZZZZZZ** Batch ID: **R147894** TestNo: **EPA 300.0** Analysis Date: **10/8/2020** SeqNo: **3961379**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	695.125	25	200.0	488.2	103	80	120				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042508
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: **N042513-009CDUP** SampType: **DUP** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **147894**
Client ID: **ZZZZZZ** Batch ID: **R147894** TestNo: **EPA 300.0** Analysis Date: **10/8/2020** SeqNo: **3961383**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	467.170	25						470.9	0.792	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *21-Oct-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-1020
Lab Order:	N042508	**Collection Date:**	10/7/2020 9:50:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042508-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_201013A** QC Batch: **R147971** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	2.8	0.16	0.25		mg/L	5	10/13/2020 01:09 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042508
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID: **MB-R147971** SampType: **MBLK** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147971**
Client ID: **PBW** Batch ID: **R147971** TestNo: **SM4500-NO3** Analysis Date: **10/13/2020** SeqNo: **3966671**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID: **LCS-R147971** SampType: **LCS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147971**
Client ID: **LCSW** Batch ID: **R147971** TestNo: **SM4500-NO3** Analysis Date: **10/13/2020** SeqNo: **3966672**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.487	0.050	0.5000	0	97.3	85	115				

Sample ID: **N042507-001DDUP** SampType: **DUP** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147971**
Client ID: **ZZZZZZ** Batch ID: **R147971** TestNo: **SM4500-NO3** Analysis Date: **10/13/2020** SeqNo: **3966674**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	2.720	0.25						2.645	2.80	20	

Sample ID: **N042507-001DMS** SampType: **MS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147971**
Client ID: **ZZZZZZ** Batch ID: **R147971** TestNo: **SM4500-NO3** Analysis Date: **10/13/2020** SeqNo: **3966675**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	5.369	0.25	2.500	2.645	109	75	125				

Sample ID: **N042507-001DMSD** SampType: **MSD** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147971**
Client ID: **ZZZZZZ** Batch ID: **R147971** TestNo: **SM4500-NO3** Analysis Date: **10/13/2020** SeqNo: **3966676**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	5.266	0.25	2.500	2.645	105	75	125	5.369	1.94	20	

Qualifiers:

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

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

Contact us:
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691
California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F:562.219.7436
www.assetlaboratories.com

Client: Arcadis	Report to: Dan Bush	Bill to: Marty Bloes	
Address: 1410 Rocky Ridge Dr # 330	Company: Arcadis	Address:	
Address: Roseville, CA 95661	Email: [illegible]	Address:	
Phone: 916-786-3302 / Fax:	Address: 1410 Rocky Ridge Dr # 330, Roseville, CA 95661	Email to: mbloes@pivox.com	P.O.# SWA-ASSET-C9817-051
Submitted By: Spencer Doolittle		Phone: 949-727-1400, ext 200	Fax:
Title: Project Manager	Phone: 916-786-3302 / Fax:		
Signature: SDoolittle Date: 10/7/2020	Sampled By: Spencer Doolittle		
I hereby authorize ASSET Labs to perform the tests indicated below.	*I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.*		
Project Name: PG&E Topock - PMP	Signature: / Date: 10/7/2020		
Project Number: RC000753.801D			

Matrix			
Ground	x	Sediment	
Potable		Soil	
NPDES		Other Solid	
Surface			

EDD Requirement		QA/QC		Sample Receipt Condition	Y	N
Excel EDD		RTNE		1. Chilled	✓	
Geotracker		RWQCB	✓	2. Headspace		
Labspec		CalTrans		3. Container Intact	✓	
Others	✓	LEVEL III		4. Seal Present		
Specify: RWQCB		LEVEL IV		5. IR number	2	
		Regulatory		6. Method of Cooling: ICE		
Global ID:		Specify State:		Sample Temp: 4.9°C		

Courier:
Tracking No.:

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (250 mL poly)		Dissolved metals (EPA 200.8) FF; HNO3, 500 mL poly Cr, Mn (1 L poly)	Dissolved metals (EPA200.7) FF; HNO3 Ca, Mg, Fe, Na, (1 L poly)	Dissolved metals (SW6010B/SW6020Adis) FF; HNO3 As, Mn, Fe, Se, Mo, Ba (1 L poly)	Total metals (SW6010B); HNO3 Fe (500 mL poly)	Anions (E300.0); Cl, SO4 (1 liter poly)	Specific Conductance (E120.1) (1 liter poly)	pH (SM4500HB) (1 liter poly)	TDS (SM2540C) (1 liter poly)	Alkalinity (Total, reported as CaCO3) (SM2320B) (1 liter poly)	TSS (SM2540) (1 liter poly)	Nitrate/Nitrite (SM4500N03) Nitrate; H2SO4 (125 mL poly)	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
1	N042508-01	TW-03D-1020	10/7/20	0950		X		X	X			X	X	X	X	X		X	E	4	P	BN	
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							

Reliquished by (Signature and Printed Name):	Date/Time:	Reliquished by (Signature and Printed Name):	Date/Time:
SDoolittle Spencer Doolittle	10/7/2020 1450	FEx	10/7/20 1450
FEx	10/7/20 1917	FEx	10/7/20 1917

Turn Around Time (TAT)

- [ ] A < 24 Hrs or Same Day TAT
- [ ] B = Next Workday
- [ ] C = 2 Workdays
- [ ] D = 3 Workdays
- [x] E = Routine 5-7 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Special Instruction:
Tittle 22 Metals - Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
   Less than 24 Hrs.=200% Next Day=100% 2 Workdays=50% 3 Workdays=35 % 4 Workdays=20%
3. Custom EDD formats will be an additional 3% of the total project price.
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.
5. Trip Blanks and Equipment Blanks are billable sample.
6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
7. Terms are net 30 days.
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
9. For subcontract analysis, TAT and Surcharges will vary.

Preservatives:				Container Type:		
H=HCL	N=HNO_3	S=H_2SO_4	C=4°C	T=Tube	V=VOA	P=Pint
Z=$Zn(AC)_2$	O=NaOH	T=$Na_2S_2O_3$		J=Jar	B=Tedlar	G=Glass
Others/Specify:	B	(NH4)2SO4/NH4OH		M=Metal	M=Metal	C=Can

White=Laboratory Copy
Yellow=Customer's Copy

Ir #2

ASSET Laboratories

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

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

Cooler Received/Opened On:	10/7/2020	Workorder:	N042508
Rep sample Temp (Deg C):	4.9	IR Gun ID:	2
Temp Blank:	☑ Yes ☐ No		
Carrier name:	ASSET		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

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

Comments: Sample for pH received past holding time.

For:

Checklist Completed By: FR BHdez 10/8/2020

Reviewed By: MBC 10/08/2020

ASSET Laboratories

WORK ORDER Summary

08-Oct-20

WorkOrder: N042508

Client ID: ARCUS02

Project: PG&E Topock - PMP, RC000753.801D **QC Level:** Level IV **Date Received:** 10/7/2020

Comments: Title 22 Metals: Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni Se, Ag, Tl, V, Zn, K, Na.

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N042508-001A	TW-03D-1020	10/7/2020 9:50:00 AM	10/21/2020	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N042508-001B			10/21/2020			AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			10/21/2020		EPA 200.7	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			10/21/2020			AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			10/21/2020		EPA 200.8	DISSOLVED METALS BY ICPMS	☐	☐	☐	WW
			10/21/2020		EPA 200.8	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N042508-001C			10/21/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			10/21/2020		SM4500-H+B	pH	☐	☐	☐	WW
			10/21/2020		SM2540C	TOTAL FILTERABLE RESIDUE	☐	☐	☐	WW
			10/21/2020			Total Dissolved Solids Prep	☐	☐	☐	WW
			10/21/2020		SM 2320 B	ALKALINITY, SPECIATED	☐	☐	☐	WW
			10/21/2020		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	☐	☐	☐	WW
			10/21/2020		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	☐	☐	☐	WW
N042508-001D			10/21/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N042508-002A	FOLDER	10/21/2020	10/21/2020		EDD	RWQCB	☐	☐	☐	LAB
			10/21/2020		Folder	Folder	☐	☐	☐	LAB
			10/21/2020		Folder	Level IV Report	☐	☐	☐	LAB
			10/21/2020		Folder	Folder	☐	☐	☐	LAB

August 06, 2020

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661

TEL: (916) 786-3302
FAX:

Workorder No.: N041544

RE: PG&E Topock - PMP, RC000753.801D

Attention: Dan Bush

Enclosed are the results for sample(s) received on July 23, 2020 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Nancy Sibucao
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - Las Vegas.

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

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

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

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

Samples were analyzed within method holding time except for pH. pH testing is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

Analytical Comments for EPA 200.7_Dissolved:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for some analytes in QC samples N041544-001B-MS1, N041544-001B-MSD1, N041544-001B-MS2 and N041544-002B-MSD2 since the analyte concentration in the sample is disproportionate to the spike level. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 200.8_Dissolved:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Chromium in QC samples N041544-001B-MS and N041544-001B-MSD since the analyte concentration in the sample is disproportionate to the spike level. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

ASSET Laboratories

Date: *06-Aug-20*

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PMP, RC000753.801D
Lab Order: N041544
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N041544-001A	TW-03D-0720	Groundwater	7/23/2020 8:30:00 AM	7/23/2020	8/6/2020
N041544-001B	TW-03D-0720	Groundwater	7/23/2020 8:30:00 AM	7/23/2020	8/6/2020
N041544-001C	TW-03D-0720	Groundwater	7/23/2020 8:30:00 AM	7/23/2020	8/6/2020
N041544-001D	TW-03D-0720	Groundwater	7/23/2020 8:30:00 AM	7/23/2020	8/6/2020

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *06-Aug-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0720
Lab Order:	N041544	**Collection Date:**	7/23/2020 8:30:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041544-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200724C**	QC Batch: **R146024**			PrepDate:			Analyst: **LR**
Specific Conductance	7000	0.10	0.10		umhos/cm	1	7/24/2020 11:30 AM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041544
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 120.1_WPGE

Sample ID **N041544-001CDUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **146024**
Client ID: **ZZZZZZ** Batch ID: **R146024** TestNo: **EPA 120.1** Analysis Date: **7/24/2020** SeqNo: **3862264**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	7060.000	0.10						7050	0.142	2	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *06-Aug-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0720
Lab Order:	N041544	**Collection Date:**	7/23/2020 8:30:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041544-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200724B**	QC Batch: **R146023**			PrepDate:			Analyst: **LR**
pH	7.2	0.10	0.10	H	pH Units	1	7/24/2020 11:40 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	7/24/2020 11:40 AM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041544
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 150.1_4500H+B_W

Sample ID	**N041550-001ADUP**	SampType:	**DUP**	TestCode:	**150.1_4500H**	Units:	**pH Units**	Prep Date:				RunNo:	**146023**
Client ID:	**ZZZZZZ**	Batch ID:	**R146023**	TestNo:	**SM4500-H+B**			Analysis Date:	**7/24/2020**			SeqNo:	**3862262**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	6.810	0.10						6.790	0.294	10	H
Temp. at time of pH Analysis	25.000	0.10						25.00	0	10	H

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *06-Aug-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0720
Lab Order:	N041544	**Collection Date:**	7/23/2020 8:30:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041544-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE							
			SM2540C				
RunID: **NV00922-WC_200727E**	QC Batch: **80325**				PrepDate:	**7/27/2020**	Analyst: **LR**
Total Dissolved Solids (Residue, Filterable)	4500	50	50		mg/L	1	7/27/2020 01:00 PM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041544
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.1_2540C_W

Sample ID **LCS-80325** SampType: **LCS** TestCode: **160.1_2540C** Units: **mg/L** Prep Date: **7/27/2020** RunNo: **146125**
Client ID: **LCSW** Batch ID: **80325** TestNo: **SM2540C** Analysis Date: **7/27/2020** SeqNo: **3870052**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	989.000	10	1000	0	98.9	80	120				

Sample ID **MB-80325** SampType: **MBLK** TestCode: **160.1_2540C** Units: **mg/L** Prep Date: **7/27/2020** RunNo: **146125**
Client ID: **PBW** Batch ID: **80325** TestNo: **SM2540C** Analysis Date: **7/27/2020** SeqNo: **3870053**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	ND	10									

Sample ID **N041544-001CDUP** SampType: **DUP** TestCode: **160.1_2540C** Units: **mg/L** Prep Date: **7/27/2020** RunNo: **146125**
Client ID: **ZZZZZZ** Batch ID: **80325** TestNo: **SM2540C** Analysis Date: **7/27/2020** SeqNo: **3870055**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	4345.000	50						4490	3.28	5	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *06-Aug-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0720
Lab Order:	N041544	**Collection Date:**	7/23/2020 8:30:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041544-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
			EPA 200.7				
RunID: **NV00922-ICP2_200729A**	QC Batch: **80341**			PrepDate:	**7/29/2020**		Analyst: **DJ**
Calcium	170000	85	500		µg/L	1	7/29/2020 09:06 AM
Iron	ND	18	20		µg/L	1	7/29/2020 09:06 AM
Magnesium	27000	48	100		µg/L	1	7/29/2020 09:06 AM
Sodium	1400000	12000	62000		µg/L	125	7/29/2020 01:13 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041544
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WDPGEPPB

Sample ID **MB-80341** SampType: **MBLK** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **7/29/2020** RunNo: **146192**
Client ID: **PBW** Batch ID: **80341** TestNo: **EPA 200.7** Analysis Date: **7/29/2020** SeqNo: **3872086**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	ND	500									
Iron	ND	20									
Magnesium	ND	100									

Sample ID **LCS1-80341** SampType: **LCS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **7/29/2020** RunNo: **146192**
Client ID: **LCSW** Batch ID: **80341** TestNo: **EPA 200.7** Analysis Date: **7/29/2020** SeqNo: **3872087**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	9915.696	500	10000	0	99.2	85	115				
Iron	93.952	20	100.0	0	94.0	85	115				
Magnesium	10403.833	100	10000	0	104	85	115				

Sample ID **N041544-001B-MS1** SampType: **MS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **7/29/2020** RunNo: **146192**
Client ID: **ZZZZZZ** Batch ID: **80341** TestNo: **EPA 200.7** Analysis Date: **7/29/2020** SeqNo: **3872091**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	171882.750	500	10000	166200	56.9	75	125				S
Iron	89.900	20	100.0	0	89.9	75	125				
Magnesium	37222.086	100	10000	26740	105	75	125				

Sample ID **N041544-001B-MSD** SampType: **MSD** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **7/29/2020** RunNo: **146192**
Client ID: **ZZZZZZ** Batch ID: **80341** TestNo: **EPA 200.7** Analysis Date: **7/29/2020** SeqNo: **3872092**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	170534.669	500	10000	166200	43.4	75	125	171900	0.787	20	S
Iron	88.891	20	100.0	0	88.9	75	125	89.90	1.13	20	
Magnesium	37083.410	100	10000	26740	103	75	125	37220	0.373	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041544
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WDPGEPPB

Sample ID	MB-80341	SampType:	MBLK	TestCode:	200.7_WDPG	Units:	µg/L	Prep Date:	7/29/2020	RunNo:	146196
Client ID:	PBW	Batch ID:	80341	TestNo:	EPA 200.7			Analysis Date:	7/29/2020	SeqNo:	3872219

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	ND	500									

Sample ID	LCS2-80341	SampType:	LCS	TestCode:	200.7_WDPG	Units:	µg/L	Prep Date:	7/29/2020	RunNo:	146196
Client ID:	LCSW	Batch ID:	80341	TestNo:	EPA 200.7			Analysis Date:	7/29/2020	SeqNo:	3872220

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	20589.287	500	20000	0	103	85	115				

Sample ID	N041544-001B-MS2	SampType:	MS	TestCode:	200.7_WDPG	Units:	µg/L	Prep Date:	7/29/2020	RunNo:	146196
Client ID:	ZZZZZZ	Batch ID:	80341	TestNo:	EPA 200.7			Analysis Date:	7/29/2020	SeqNo:	3872228

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	1890851.226	62000	20000	1387000	2520	75	125				S

Sample ID	N041544-001B-MSD	SampType:	MSD	TestCode:	200.7_WDPG	Units:	µg/L	Prep Date:	7/29/2020	RunNo:	146196
Client ID:	ZZZZZZ	Batch ID:	80341	TestNo:	EPA 200.7			Analysis Date:	7/29/2020	SeqNo:	3872232

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	1859411.745	62000	20000	1387000	2360	75	125	1891000	1.68	20	S

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041544
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WDPGEPPB

Sample ID **N041544-001B-PS** SampType: **PS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: RunNo: **146192**
Client ID: **ZZZZZZ** Batch ID: **80341** TestNo: **EPA 200.7** Analysis Date: **7/29/2020** SeqNo: **3872090**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	170300.690	500	10000	166200	41.1	80	120				S
Iron	89.309	20	100.0	0	89.3	80	120				
Magnesium	36848.644	100	10000	26740	101	80	120				

Sample ID **N041544-001B-PS** SampType: **PS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: RunNo: **146196**
Client ID: **ZZZZZZ** Batch ID: **80341** TestNo: **EPA 200.7** Analysis Date: **7/29/2020** SeqNo: **3872226**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	1747952.536	62000	20000	1387000	1800	80	120				S

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0720
Lab Order:	N041544	**Collection Date:**	7/23/2020 8:30:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041544-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICPMS							
EPA 200.8							
RunID: **NV00922-ICP8_200728G** QC Batch: **80338** PrepDate: **7/29/2020** Analyst: **CEI**							
Manganese	19	0.26	0.50		µg/L	1	7/29/2020 08:37 AM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041544
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_WDISS_TPK

Sample ID **MB-80338** SampType: **MBLK** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **7/29/2020** RunNo: **146293**
Client ID: **PBW** Batch ID: **80338** TestNo: **EPA 200.8** Analysis Date: **7/29/2020** SeqNo: **3878130**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	0.50									

Sample ID **LCS-80338** SampType: **LCS** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **7/29/2020** RunNo: **146293**
Client ID: **LCSW** Batch ID: **80338** TestNo: **EPA 200.8** Analysis Date: **7/29/2020** SeqNo: **3878131**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	102.997	0.50	100.0	0	103	85	115				

Sample ID **N041544-001B-MS** SampType: **MS** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **7/29/2020** RunNo: **146293**
Client ID: **ZZZZZZ** Batch ID: **80338** TestNo: **EPA 200.8** Analysis Date: **7/29/2020** SeqNo: **3878140**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	115.183	0.50	100.0	19.16	96.0	75	125				

Sample ID **N041544-001B-MSD** SampType: **MSD** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **7/29/2020** RunNo: **146293**
Client ID: **ZZZZZZ** Batch ID: **80338** TestNo: **EPA 200.8** Analysis Date: **7/29/2020** SeqNo: **3878142**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	114.966	0.50	100.0	19.16	95.8	75	125	115.2	0.189	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N041544
Project: PG&E Topock - PMP, RC000753.801D
Lab ID: N041544-001

Client Sample ID: TW-03D-0720
Collection Date: 7/23/2020 8:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_200724C** QC Batch: **R146095** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	390	3.3	20		µg/L	100	7/24/2020 04:57 PM
DISSOLVED METALS BY ICP-MS							
EPA 200.8							
RunID: **NV00922-ICP8_200728G** QC Batch: **80338** PrepDate: **7/29/2020** Analyst: **CEI**							
Chromium	410	0.65	5.0		µg/L	5	7/29/2020 08:42 AM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041544
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8Dis_CrPGE_TPK

Sample ID **MB-80338** SampType: **MBLK** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: **7/29/2020** RunNo: **146293**
Client ID: **PBW** Batch ID: **80338** TestNo: **EPA 200.8** Analysis Date: **7/29/2020** SeqNo: **3877942**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.188	1.0									

Sample ID **LCS-80338** SampType: **LCS** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: **7/29/2020** RunNo: **146293**
Client ID: **LCSW** Batch ID: **80338** TestNo: **EPA 200.8** Analysis Date: **7/29/2020** SeqNo: **3877943**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	10.034	1.0	10.00	0	100	85	115				

Sample ID **N041544-001B-MS** SampType: **MS** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: **7/29/2020** RunNo: **146293**
Client ID: **ZZZZZZ** Batch ID: **80338** TestNo: **EPA 200.8** Analysis Date: **7/29/2020** SeqNo: **3877953**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	429.037	5.0	10.00	408.0	210	75	125				S

Sample ID **N041544-001B-MSD** SampType: **MSD** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: **7/29/2020** RunNo: **146293**
Client ID: **ZZZZZZ** Batch ID: **80338** TestNo: **EPA 200.8** Analysis Date: **7/29/2020** SeqNo: **3877955**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	431.570	5.0	10.00	408.0	236	75	125	429.0	0.589	20	S

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041544
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **MB-R146095** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **146095**
Client ID: **PBW** Batch ID: **R146095** TestNo: **EPA 218.6** Analysis Date: **7/24/2020** SeqNo: **3867736**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID **LCS-R146095** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **146095**
Client ID: **LCSW** Batch ID: **R146095** TestNo: **EPA 218.6** Analysis Date: **7/24/2020** SeqNo: **3867737**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.701	0.20	5.000	0	94.0	90	110				

Sample ID **N041544-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **146095**
Client ID: **ZZZZZZ** Batch ID: **R146095** TestNo: **EPA 218.6** Analysis Date: **7/24/2020** SeqNo: **3867739**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	856.870	20	500.0	388.0	93.8	90	110				

Sample ID **N041544-001AMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **146095**
Client ID: **ZZZZZZ** Batch ID: **R146095** TestNo: **EPA 218.6** Analysis Date: **7/24/2020** SeqNo: **3867740**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	863.790	20	500.0	388.0	95.1	90	110	856.9	0.804	20	

Sample ID **N041542-001ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **146095**
Client ID: **ZZZZZZ** Batch ID: **R146095** TestNo: **EPA 218.6** Analysis Date: **7/24/2020** SeqNo: **3867742**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	13.781	0.40						13.92	1.04	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041544
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID	**N041542-001AMS**	SampType:	**MS**	TestCode:	**218.6_WPGE**	Units:	**µg/L**	Prep Date:				RunNo:	**146095**
Client ID:	**ZZZZZZ**	Batch ID:	**R146095**	TestNo:	**EPA 218.6**			Analysis Date:	**7/24/2020**			SeqNo:	**3867743**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	23.352	0.40	10.00	13.92	94.3	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041544
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8Dis_CrPGE_TPK

Sample ID **N041544-001B-PS** SampType: **PS** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: RunNo: **146293**
Client ID: **ZZZZZZ** Batch ID: **80338** TestNo: **EPA 200.8** Analysis Date: **7/29/2020** SeqNo: **3877951**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	406.688	5.0	10.00	408.0	-13.0	80	120				S

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *06-Aug-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0720
Lab Order:	N041544	**Collection Date:**	7/23/2020 8:30:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041544-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ALKALINITY, SPECIATED							
			SM 2320 B				
RunID: **NV00922-WC_200724E**	QC Batch: **R146027**			PrepDate:			Analyst: **LR**
Alkalinity, Total (As CaCO3)	150	1.2	5.0		mg/L	1	7/24/2020 01:35 PM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041544
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 2320_W_SP

Sample ID **LCS-R146027** SampType: **LCS** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **146027**
Client ID: **LCSW** Batch ID: **R146027** TestNo: **SM 2320 B** Analysis Date: **7/24/2020** SeqNo: **3862280**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	95.833	5.0	100.0	0	95.8	85	115				

Sample ID **MB-R146027** SampType: **MBLK** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **146027**
Client ID: **PBW** Batch ID: **R146027** TestNo: **SM 2320 B** Analysis Date: **7/24/2020** SeqNo: **3862281**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	5.0									

Sample ID **N041548-004ADUP** SampType: **DUP** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **146027**
Client ID: **ZZZZZZ** Batch ID: **R146027** TestNo: **SM 2320 B** Analysis Date: **7/24/2020** SeqNo: **3862287**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	85.417	5.0						89.58	4.76	30	

Sample ID **N041548-004AMS** SampType: **MS** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **146027**
Client ID: **ZZZZZZ** Batch ID: **R146027** TestNo: **SM 2320 B** Analysis Date: **7/24/2020** SeqNo: **3862288**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	183.333	5.0	100.0	89.58	93.8	75	125				

Sample ID **N041548-004AMSD** SampType: **MSD** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **146027**
Client ID: **ZZZZZZ** Batch ID: **R146027** TestNo: **SM 2320 B** Analysis Date: **7/24/2020** SeqNo: **3862289**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	182.292	5.0	100.0	89.58	92.7	75	125	183.3	0.570	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *06-Aug-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0720
Lab Order:	N041544	**Collection Date:**	7/23/2020 8:30:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041544-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: **NV00922-IC8_200729A** QC Batch: **R146208** PrepDate: Analyst: **RAB**							
Chloride	2100	17	250		mg/L	500	7/30/2020 12:26 AM
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: **NV00922-IC8_200729A** QC Batch: **R146208** PrepDate: Analyst: **RAB**							
Sulfate	490	2.0	25		mg/L	50	7/29/2020 10:32 PM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041544
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CLPGE

Sample ID **MB-R146208_CL** SampType: **MBLK** TestCode: **300_W_CLP** Units: **mg/L** Prep Date: RunNo: **146208**
Client ID: **PBW** Batch ID: **R146208** TestNo: **EPA 300.0** Analysis Date: **7/29/2020** SeqNo: **3873153**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	0.124	0.50									

Sample ID **LCS-R146208_CL** SampType: **LCS** TestCode: **300_W_CLP** Units: **mg/L** Prep Date: RunNo: **146208**
Client ID: **LCSW** Batch ID: **R146208** TestNo: **EPA 300.0** Analysis Date: **7/29/2020** SeqNo: **3873154**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	1.947	0.50	2.000	0	97.3	90	110				

Sample ID **N041529-001AMS** SampType: **MS** TestCode: **300_W_CLP** Units: **mg/L** Prep Date: RunNo: **146208**
Client ID: **ZZZZZZ** Batch ID: **R146208** TestNo: **EPA 300.0** Analysis Date: **7/29/2020** SeqNo: **3873160**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	637.220	50	200.0	436.9	100	80	120				

Sample ID **N041529-001AMSD** SampType: **MSD** TestCode: **300_W_CLP** Units: **mg/L** Prep Date: RunNo: **146208**
Client ID: **ZZZZZZ** Batch ID: **R146208** TestNo: **EPA 300.0** Analysis Date: **7/29/2020** SeqNo: **3873161**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	637.620	50	200.0	436.9	100	80	120	637.2	0.0628	20	

Sample ID **N041529-005ADUP** SampType: **DUP** TestCode: **300_W_CLP** Units: **mg/L** Prep Date: RunNo: **146208**
Client ID: **ZZZZZZ** Batch ID: **R146208** TestNo: **EPA 300.0** Analysis Date: **7/29/2020** SeqNo: **3873163**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	611.840	100						608.1	0.613	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041544
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CLPGE

Sample ID	N041529-005AMS	SampType:	MS	TestCode:	300_W_CLP	Units:	mg/L	Prep Date:		RunNo:	146208
Client ID:	ZZZZZZ	Batch ID:	R146208	TestNo:	EPA 300.0			Analysis Date:	7/29/2020	SeqNo:	3873164

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	1005.560	100	400.0	608.1	99.4	80	120				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041544
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID **MB-R146208_SO4** SampType: **MBLK** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **146208**
Client ID: **PBW** Batch ID: **R146208** TestNo: **EPA 300.0** Analysis Date: **7/29/2020** SeqNo: **3873212**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.50									

Sample ID **LCS-R146208_SO4** SampType: **LCS** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **146208**
Client ID: **LCSW** Batch ID: **R146208** TestNo: **EPA 300.0** Analysis Date: **7/29/2020** SeqNo: **3873213**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.042	0.50	4.000	0	101	90	110				

Sample ID **N041529-001AMS** SampType: **MS** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **146208**
Client ID: **ZZZZZZ** Batch ID: **R146208** TestNo: **EPA 300.0** Analysis Date: **7/29/2020** SeqNo: **3873217**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	257.064	10	80.00	177.1	100	80	120				

Sample ID **N041529-001AMSD** SampType: **MSD** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **146208**
Client ID: **ZZZZZZ** Batch ID: **R146208** TestNo: **EPA 300.0** Analysis Date: **7/29/2020** SeqNo: **3873218**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	257.082	10	80.00	177.1	100	80	120	257.1	0.00700	20	

Sample ID **N041529-005ADUP** SampType: **DUP** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **146208**
Client ID: **ZZZZZZ** Batch ID: **R146208** TestNo: **EPA 300.0** Analysis Date: **7/29/2020** SeqNo: **3873222**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	159.304	10						159.6	0.182	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041544
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID	**N041529-005AMS**	SampType:	**MS**	TestCode:	**300_W_SO4P**	Units:	**mg/L**	Prep Date:				RunNo:	**146208**
Client ID:	**ZZZZZZ**	Batch ID:	**R146208**	TestNo:	**EPA 300.0**			Analysis Date:	**7/29/2020**			SeqNo:	**3873223**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	239.426	10	80.00	159.6	99.8	80	120				

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *06-Aug-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0720
Lab Order:	N041544	**Collection Date:**	7/23/2020 8:30:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041544-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_200731G** QC Batch: **R146259** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	2.3	0.16	0.25		mg/L	5	7/31/2020 04:47 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041544
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID **MB-R146259** SampType: **MBLK** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **146259**
Client ID: **PBW** Batch ID: **R146259** TestNo: **SM4500-NO3** Analysis Date: **7/31/2020** SeqNo: **3874899**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID **LCS-R146259** SampType: **LCS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **146259**
Client ID: **LCSW** Batch ID: **R146259** TestNo: **SM4500-NO3** Analysis Date: **7/31/2020** SeqNo: **3874900**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.445	0.050	0.5000	0	89.1	85	115				

Sample ID **N041541-009BMS** SampType: **MS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **146259**
Client ID: **ZZZZZZ** Batch ID: **R146259** TestNo: **SM4500-NO3** Analysis Date: **7/31/2020** SeqNo: **3874902**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.499	0.050	0.5000	0.04610	90.6	75	125				

Sample ID **N041541-009BMSD** SampType: **MSD** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **146259**
Client ID: **ZZZZZZ** Batch ID: **R146259** TestNo: **SM4500-NO3** Analysis Date: **7/31/2020** SeqNo: **3874903**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.527	0.050	0.5000	0.04610	96.2	75	125	0.4989	5.52	20	

Sample ID **N041530-010BDUP** SampType: **DUP** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **146259**
Client ID: **ZZZZZZ** Batch ID: **R146259** TestNo: **SM4500-NO3** Analysis Date: **7/31/2020** SeqNo: **3874905**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	11.991	0.50						11.01	8.54	20	

Qualifiers:

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

N041544

ASSET LABORATORIES

ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

Page 1 of 1

Contact us:
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P: 702.307.2659 F: 702.307.2691
California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F:562.219.7436
www.assetlaboratories.com

Client: Arcadis	Report to: Dan Bush	Bill to: Marty Bloes	
Address: 1410 Rocky Ridge Dr # 330	Company: Arcadis	Address:	
Address: Roseville, CA 95661	Email: dan.bush@arcadis.com, daniel.moore@critigen.com	Address:	
Phone: 916-786-3302 / Fax:	Address: 1410 Rocky Ridge Dr # 330, Roseville, CA 95661	Email to: mbloes@pivox.com	P.O.# SWA-ASSET-C9817-051
Submitted By: Craig Prunier		Phone: 949-727-1400, ext 200	Fax:
Title: Geologist	Phone: 916-786-3302 / Fax:		
Signature: Date: 7/23/20	Sampled By: Matt Trainotti		
I hereby authorize ASSET Labs to perform the tests indicated below.	I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for		
Project Name: PG&E Topock - PMP	Signature: / Date: 7-23-20		
Project Number: RC000753.801D			

Matrix			
Ground	x	Sediment	
Potable		Soil	
NPDES		Other Solid	
Surface			

EDD Requirement		QA/QC		Sample Receipt Condition	Y	N
Excel EDD		RTNE		1. Chilled	✓	
Geotracker		RWQCB	✓	2. Headspace		✓
Labspec		CalTrans		3. Container Intact	✓	
Others	✓	LEVEL III		4. Seal Present		✓
Specify: RWQCB		LEVEL IV		5. IR number	✓	
Global ID:		Regulatory		6. Method of Cooling: Ice		
		Specify State:		Sample Temp: 4.1°C		

Courier: ASSET

Tracking No.:

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (250 mL poly)		Dissolved metals (EPA 200.8) FF; HNO3, 500 mL poly Cr, Mn (1 L poly)	Dissolved metals (EPA200.7) FF; HNO3 Ca, Mg, Fe, Na, (1 L poly)	Dissolved metals (SW6010B/SW6020Adis) FF; HNO3 As, Mn, Fe, Se, Mo, Ba (1 L poly)	Total metals (SW6010B); HNO3 Fe (500 mL poly)	Anions (E300.0); Cl, SO4 (1 liter poly)	Specific Conductance (E120.1) (1 liter poly)	pH (SM4500HB) (1 liter poly)	TDS (SM2540C) (1 liter poly)	Alkalinity (Total, reported as CaCO3) (SM2320B) (1 liter poly)	TSS (SM2540) (1 liter poly)	Nitrate/Nitrite (SM4500N03) Nitrate; H2SO4 (125 mL poly)	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
1	N041544-01	TW-03D-0720	7-23-20	0830		X		X	X			X	X	X	X	X		X	E	4	P	BN
2		~~PE-01-0720~~				~~X~~		~~X~~	~~X~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		~~X~~	~~E~~	~~4~~	~~P~~	~~BN~~
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

Relinquished by (Signature and Printed Name):	Date/Time:	Relinquished by (Signature and Printed Name):	Date/Time:
Matt Trainotti	7-23-20 0855	Craig Prunier	7/23/20 0855
Craig Prunier	7/23/20 1112		7-23-20 1112
JLGo	7-23-20 2034	JLGo	7-23-20 2034

Turn Around Time (TAT)

- [ ] A < 24 Hrs or Same Day TAT
- [ ] B = Next Workday
- [ ] C = 2 Workdays
- [ ] D = 3 Workdays
- [x] E = Routine 5-7 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Special Instruction:
Title 22 Metals - Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
Less than 24 Hrs.=200% Next Day=100% 2 Workdays=50% 3 Workdays=35 % 4 Workdays=20%
3. Custom EDD formats will be an additional 3% of the total project price.
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.
5. Trip Blanks and Equipment Blanks are billable sample.
6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
7. Terms are net 30 days.
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
9. For subcontract analysis, TAT and Surcharges will vary.

Preservatives:				Container Type:		
H=HCL	N=HNO_3	S=H_2SO_4	C=4°C	T=Tube	V=VOA	P=Pint
Z=Zn(AC)2	O=NaOH	T=$Na_2S_2O_3$		J=Jar	B=Tedlar	G=Glass
Others/Specify:	B	(NH4)2SO4/NH4OH		M=Metal	M=Metal	C=Can

White=Laboratory Copy

Yellow=Customer's Copy

ASSET Laboratories

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

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

Cooler Received/Opened On:	7/23/2020	Workorder:	N041544
Rep sample Temp (Deg C):	4.1	IR Gun ID:	2
Temp Blank:	☑ Yes ☐ No		
Carrier name:	ASSET		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

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

Comments: Sample for pH received past holding time.

Checklist Completed By: YR YRJ 7/27/2020

Reviewed By: MBC MBC 8/1/2020

ASSET Laboratories

WORK ORDER Summary

24-Jul-20

WorkOrder: N041544

Client ID: ARCUS02

Project: PG&E Topock - PMP, RC000753.801D **QC Level:** Level IV **Date Received:** 7/23/2020

Comments: Title 22 Metals :Al, Sb, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N041544-001A	TW-03D-0720	7/23/2020 8:30:00 AM	8/6/2020	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N041544-001B			8/6/2020			AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/6/2020		EPA 200.7	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			8/6/2020			AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/6/2020		EPA 200.8	DISSOLVED METALS BY ICPMS	☐	☐	☐	WW
			8/6/2020		EPA 200.8	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N041544-001C			8/6/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			8/6/2020		SM4500-H+B	pH	☐	☐	☐	LSR
			8/6/2020		SM2540C	TOTAL FILTERABLE RESIDUE	☐	☐	☐	LSR
			8/6/2020			Total Dissolved Solids Prep	☐	☐	☐	LSR
			8/6/2020		SM 2320 B	ALKALINITY, SPECIATED	☐	☐	☐	LSR
			8/6/2020		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	☐	☐	☐	LSR
			8/6/2020		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	☐	☐	☐	LSR
			8/6/2020		SM 1030F1	Cation-Anion Balance Calculation	☐	☐	☐	LSR
N041544-001D			8/6/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N041544-002A	FOLDER	8/6/2020	8/6/2020		EDD	RWQCB	☐	☐	☐	LAB
			8/6/2020		Folder	Folder	☐	☐	☐	LAB
			8/6/2020		Folder	Level IV Report	☐	☐	☐	LAB
			8/6/2020		Folder	Folder	☐	☐	☐	LAB

August 18, 2020

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661

TEL: (916) 786-3302
FAX:

Workorder No.: N041672

RE: PG&E Topock - PMP, RC000753.801D

Attention: Dan Bush

Enclosed are the results for sample(s) received on August 04, 2020 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Nancy Sibucao
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - Las Vegas.

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

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

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

Samples were analyzed within method holding time except for pH. pH testing is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

Analytical Comments for EPA 200.7_Dissolved:

Dilution was necessary since plasma was extinguished when sample was analyzed at lower dilution.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Iron in QC samples N041660-001C-MS1 and N041660-001C-MSD1 possibly due to matrix interference. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for some analytes in QC samples N041660-001C-MSD1, N041672-001B-MS2 and N041672-001B-MSD2 since the analyte concentration in the sample is disproportionate to the spike level. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 200.8:_Dissolved:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Chromium in QC samples N041660-001C-MS and N041660-001C-MSD since the analyte concentration in the sample is disproportionate to the spike level. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

ASSET Laboratories

Date: *18-Aug-20*

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PMP, RC000753.801D
Lab Order: N041672
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N041672-001A	TW-03D-0820	Ground Water	8/4/2020 7:43:00 AM	8/4/2020	8/18/2020
N041672-001B	TW-03D-0820	Ground Water	8/4/2020 7:43:00 AM	8/4/2020	8/18/2020
N041672-001C	TW-03D-0820	Ground Water	8/4/2020 7:43:00 AM	8/4/2020	8/18/2020
N041672-001D	TW-03D-0820	Ground Water	8/4/2020 7:43:00 AM	8/4/2020	8/18/2020

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *18-Aug-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0820
Lab Order:	N041672	**Collection Date:**	8/4/2020 7:43:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUND WATER
Lab ID:	N041672-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200805A**	QC Batch: **R146348**			PrepDate:			Analyst: **LR**
Specific Conductance	7200	0.10	0.10		umhos/cm	1	8/5/2020 09:50 AM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041672
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 120.1_WPGE

Sample ID: **N041660-001ADUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **146348**
Client ID: **ZZZZZZ** Batch ID: **R146348** TestNo: **EPA 120.1** Analysis Date: **8/5/2020** SeqNo: **3882084**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	7130.000	0.10						7150	0.280	2	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *18-Aug-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0820
Lab Order:	N041672	**Collection Date:**	8/4/2020 7:43:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUND WATER
Lab ID:	N041672-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200805B**	QC Batch: **R146349**			PrepDate:			Analyst: **LR**
pH	7.2	0.10	0.10	H	pH Units	1	8/5/2020 09:35 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	8/5/2020 09:35 AM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041672
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 150.1_4500H+B_W

Sample ID: **N041672-001CDUP** SampType: **DUP** TestCode: **150.1_4500H** Units: **pH Units** Prep Date: RunNo: **146349**
Client ID: **ZZZZZZ** Batch ID: **R146349** TestNo: **SM4500-H+B** Analysis Date: **8/5/2020** SeqNo: **3882088**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.190	0.10						7.160	0.418	10	H
Temp. at time of pH Analysis	25.000	0.10						25.00	0	10	H

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *18-Aug-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0820
Lab Order:	N041672	**Collection Date:**	8/4/2020 7:43:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUND WATER
Lab ID:	N041672-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE							
			SM2540C				
RunID: **NV00922-WC_200805G**	QC Batch: **80464**				PrepDate:	**8/5/2020**	Analyst: **LR**
Total Dissolved Solids (Residue, Filterable)	4600	50	50		mg/L	1	8/5/2020 01:03 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041672
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.1_2540C_W

Sample ID: **LCS-80464** SampType: **LCS** TestCode: **160.1_2540C** Units: **mg/L** Prep Date: **8/5/2020** RunNo: **146382**
Client ID: **LCSW** Batch ID: **80464** TestNo: **SM2540C** Analysis Date: **8/5/2020** SeqNo: **3883553**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	978.000	10	1000	0	97.8	80	120				

Sample ID: **MB-80464** SampType: **MBLK** TestCode: **160.1_2540C** Units: **mg/L** Prep Date: **8/5/2020** RunNo: **146382**
Client ID: **PBW** Batch ID: **80464** TestNo: **SM2540C** Analysis Date: **8/5/2020** SeqNo: **3883554**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	ND	10									

Sample ID: **N041660-001ADUP** SampType: **DUP** TestCode: **160.1_2540C** Units: **mg/L** Prep Date: **8/5/2020** RunNo: **146382**
Client ID: **ZZZZZZ** Batch ID: **80464** TestNo: **SM2540C** Analysis Date: **8/5/2020** SeqNo: **3883556**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	4505.000	50						4370	3.04	5	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *18-Aug-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0820
Lab Order:	N041672	**Collection Date:**	8/4/2020 7:43:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUND WATER
Lab ID:	N041672-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
			EPA 200.7				
RunID: **NV00922-ICP2_200809A**	QC Batch: **80509**				PrepDate:	**8/7/2020**	Analyst: **DJ**
Calcium	190000	420	2500		µg/L	5	8/9/2020 10:59 AM
Iron	ND	89	100		µg/L	5	8/9/2020 10:59 AM
Magnesium	26000	240	500		µg/L	5	8/9/2020 10:59 AM
Sodium	1300000	9600	50000		µg/L	100	8/11/2020 06:59 AM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041672
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WDPGEPPB

Sample ID: **N041660-001C-MS1** SampType: **MS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **8/7/2020** RunNo: **146471**
Client ID: **ZZZZZZ** Batch ID: **80509** TestNo: **EPA 200.7** Analysis Date: **8/9/2020** SeqNo: **3887637**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	193063.719	2500	10000	183200	98.5	75	125				
Iron	ND	100	100.0	0	0	75	125				S
Magnesium	35387.409	500	10000	25930	94.5	75	125				

Sample ID: **MB-80509** SampType: **MBLK** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **8/7/2020** RunNo: **146471**
Client ID: **PBW** Batch ID: **80509** TestNo: **EPA 200.7** Analysis Date: **8/9/2020** SeqNo: **3887640**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	ND	500									
Iron	ND	20									
Magnesium	ND	100									

Sample ID: **LCS1-80509** SampType: **LCS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **8/7/2020** RunNo: **146471**
Client ID: **LCSW** Batch ID: **80509** TestNo: **EPA 200.7** Analysis Date: **8/9/2020** SeqNo: **3887641**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	10046.003	500	10000	0	100	85	115				
Iron	87.963	20	100.0	0	88.0	85	115				
Magnesium	9964.331	100	10000	0	99.6	85	115				

Sample ID: **N041660-001C-MSD** SampType: **MSD** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **8/7/2020** RunNo: **146471**
Client ID: **ZZZZZZ** Batch ID: **80509** TestNo: **EPA 200.7** Analysis Date: **8/9/2020** SeqNo: **3887642**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	205053.879	2500	10000	183200	218	75	125	193100	6.02	20	S
Iron	ND	100	100.0	0	0	75	125	0	0	20	S
Magnesium	36363.622	500	10000	25930	104	75	125	35390	2.72	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041672
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WDPGEPPB

Sample ID: **MB-80509** SampType: **MBLK** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **8/7/2020** RunNo: **146528**
Client ID: **PBW** Batch ID: **80509** TestNo: **EPA 200.7** Analysis Date: **8/11/2020** SeqNo: **3891499**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	ND	500									

Sample ID: **LCS2-80509** SampType: **LCS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **8/7/2020** RunNo: **146528**
Client ID: **LCSW** Batch ID: **80509** TestNo: **EPA 200.7** Analysis Date: **8/11/2020** SeqNo: **3891500**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	21008.584	500	20000	0	105	85	115				

Sample ID: **N041672-001B-MS2** SampType: **MS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **8/7/2020** RunNo: **146528**
Client ID: **ZZZZZZ** Batch ID: **80509** TestNo: **EPA 200.7** Analysis Date: **8/11/2020** SeqNo: **3891506**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	1423546.365	50000	20000	1344000	399	75	125				S

Sample ID: **N041672-001B-MSD** SampType: **MSD** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **8/7/2020** RunNo: **146528**
Client ID: **ZZZZZZ** Batch ID: **80509** TestNo: **EPA 200.7** Analysis Date: **8/11/2020** SeqNo: **3891507**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	1440411.630	50000	20000	1344000	483	75	125	1424000	1.18	20	S

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041672
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WDPGEPPB

Sample ID: **N041660-001C-PS** SampType: **PS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: RunNo: **146471**
Client ID: **ZZZZZZ** Batch ID: **80509** TestNo: **EPA 200.7** Analysis Date: **8/9/2020** SeqNo: **3887636**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	194830.135	2500	10000	183200	116	80	120				
Iron	ND	100	100.0	0	0	80	120				S
Magnesium	35802.502	500	10000	25930	98.7	80	120				

Sample ID: **N041672-001B-PS** SampType: **PS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: RunNo: **146528**
Client ID: **ZZZZZZ** Batch ID: **80509** TestNo: **EPA 200.7** Analysis Date: **8/11/2020** SeqNo: **3891505**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	1420959.303	50000	20000	1344000	386	80	120				S

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0820
Lab Order:	N041672	**Collection Date:**	8/4/2020 7:43:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUND WATER
Lab ID:	N041672-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICPMS							
EPA 200.8							
RunID: **NV00922-ICP8_200807C** QC Batch: **80508** PrepDate: **8/7/2020** Analyst: **CEI**							
Manganese	19	0.26	0.50		µg/L	1	8/7/2020 12:34 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041672
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_WDISS_TPK

Sample ID: **MB-80508** SampType: **MBLK** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **8/7/2020** RunNo: **146492**
Client ID: **PBW** Batch ID: **80508** TestNo: **EPA 200.8** Analysis Date: **8/7/2020** SeqNo: **3889240**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	0.50									

Sample ID: **LCS-80508** SampType: **LCS** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **8/7/2020** RunNo: **146492**
Client ID: **LCSW** Batch ID: **80508** TestNo: **EPA 200.8** Analysis Date: **8/7/2020** SeqNo: **3889241**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	101.339	0.50	100.0	0	101	85	115				

Sample ID: **N041660-001C-MS** SampType: **MS** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **8/7/2020** RunNo: **146492**
Client ID: **ZZZZZZ** Batch ID: **80508** TestNo: **EPA 200.8** Analysis Date: **8/7/2020** SeqNo: **3889247**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	105.907	0.50	100.0	7.084	98.8	75	125				

Sample ID: **N041660-001C-MSD** SampType: **MSD** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **8/7/2020** RunNo: **146492**
Client ID: **ZZZZZZ** Batch ID: **80508** TestNo: **EPA 200.8** Analysis Date: **8/7/2020** SeqNo: **3889249**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	105.180	0.50	100.0	7.084	98.1	75	125	105.9	0.690	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *18-Aug-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0820
Lab Order:	N041672	**Collection Date:**	8/4/2020 7:43:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUND WATER
Lab ID:	N041672-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_200805A** QC Batch: **R146357** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	440	1.7	10		µg/L	50	8/5/2020 01:17 PM
DISSOLVED METALS BY ICP-MS							
EPA 200.8							
RunID: **NV00922-ICP8_200807C** QC Batch: **80508** PrepDate: **8/7/2020** Analyst: **CEI**							
Chromium	430	0.65	5.0		µg/L	5	8/7/2020 12:39 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041672
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8Dis_CrPGE_TPK

Sample ID: **MB-80508** SampType: **MBLK** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: **8/7/2020** RunNo: **146492**
Client ID: **PBW** Batch ID: **80508** TestNo: **EPA 200.8** Analysis Date: **8/7/2020** SeqNo: **3889164**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.197	1.0									

Sample ID: **LCS-80508** SampType: **LCS** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: **8/7/2020** RunNo: **146492**
Client ID: **LCSW** Batch ID: **80508** TestNo: **EPA 200.8** Analysis Date: **8/7/2020** SeqNo: **3889165**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.878	1.0	10.00	0	98.8	85	115				

Sample ID: **N041660-001C-MS** SampType: **MS** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: **8/7/2020** RunNo: **146492**
Client ID: **ZZZZZZ** Batch ID: **80508** TestNo: **EPA 200.8** Analysis Date: **8/7/2020** SeqNo: **3889172**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	425.814	5.0	10.00	422.3	35.1	75	125				S

Sample ID: **N041660-001C-MSD** SampType: **MSD** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: **8/7/2020** RunNo: **146492**
Client ID: **ZZZZZZ** Batch ID: **80508** TestNo: **EPA 200.8** Analysis Date: **8/7/2020** SeqNo: **3889176**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	423.784	5.0	10.00	422.3	14.8	75	125	425.8	0.478	20	S

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041672
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **MB-R146357** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **146357**
Client ID: **PBW** Batch ID: **R146357** TestNo: **EPA 218.6** Analysis Date: **8/5/2020** SeqNo: **3882213**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **LCS-R146357** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **146357**
Client ID: **LCSW** Batch ID: **R146357** TestNo: **EPA 218.6** Analysis Date: **8/5/2020** SeqNo: **3882214**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.019	0.20	5.000	0	100	90	110				

Sample ID: **N041667-004ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **146357**
Client ID: **ZZZZZZ** Batch ID: **R146357** TestNo: **EPA 218.6** Analysis Date: **8/5/2020** SeqNo: **3882225**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.516	0.20						0.5072	1.78	20	

Sample ID: **N041660-001BMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **146357**
Client ID: **ZZZZZZ** Batch ID: **R146357** TestNo: **EPA 218.6** Analysis Date: **8/5/2020** SeqNo: **3882227**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	688.770	10	250.0	437.8	100	90	110				

Sample ID: **N041660-001BMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **146357**
Client ID: **ZZZZZZ** Batch ID: **R146357** TestNo: **EPA 218.6** Analysis Date: **8/5/2020** SeqNo: **3882228**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	690.135	10	250.0	437.8	101	90	110	688.8	0.198	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041672
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N041672-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **146357**
Client ID: **ZZZZZZ** Batch ID: **R146357** TestNo: **EPA 218.6** Analysis Date: **8/5/2020** SeqNo: **3882232**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	688.060	10	250.0	442.0	98.4	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041672
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8Dis_CrPGE_TPK

Sample ID: **N041660-001C-PS** SampType: **PS** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: RunNo: **146492**
Client ID: **ZZZZZZ** Batch ID: **80508** TestNo: **EPA 200.8** Analysis Date: **8/7/2020** SeqNo: **3889170**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	419.380	5.0	10.00	422.3	-29.2	80	120				S

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *18-Aug-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0820
Lab Order:	N041672	**Collection Date:**	8/4/2020 7:43:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUND WATER
Lab ID:	N041672-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ALKALINITY, SPECIATED							
			SM 2320 B				
RunID: **NV00922-WC_200806E**	QC Batch: **R146387**			PrepDate:			Analyst: **LR**
Alkalinity, Total (As CaCO3)	150	1.2	5.0		mg/L	1	8/6/2020 02:00 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041672
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 2320_W_SP

Sample ID: **LCS-R146387** SampType: **LCS** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **146387**
Client ID: **LCSW** Batch ID: **R146387** TestNo: **SM 2320 B** Analysis Date: **8/6/2020** SeqNo: **3883643**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	88.542	5.0	100.0	0	88.5	85	115				

Sample ID: **MB-R146387** SampType: **MBLK** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **146387**
Client ID: **PBW** Batch ID: **R146387** TestNo: **SM 2320 B** Analysis Date: **8/6/2020** SeqNo: **3883644**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	5.0									

Sample ID: **N041672-001CDUP** SampType: **DUP** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **146387**
Client ID: **ZZZZZZ** Batch ID: **R146387** TestNo: **SM 2320 B** Analysis Date: **8/6/2020** SeqNo: **3883646**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	147.917	5.0						147.9	0	30	

Sample ID: **N041672-001CMS** SampType: **MS** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **146387**
Client ID: **ZZZZZZ** Batch ID: **R146387** TestNo: **SM 2320 B** Analysis Date: **8/6/2020** SeqNo: **3883647**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	234.375	5.0	100.0	147.9	86.5	75	125				

Sample ID: **N041672-001CMSD** SampType: **MSD** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **146387**
Client ID: **ZZZZZZ** Batch ID: **R146387** TestNo: **SM 2320 B** Analysis Date: **8/6/2020** SeqNo: **3883648**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	234.375	5.0	100.0	147.9	86.5	75	125	234.4	0	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *18-Aug-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0820
Lab Order:	N041672	**Collection Date:**	8/4/2020 7:43:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUND WATER
Lab ID:	N041672-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: **NV00922-IC8_200805B** QC Batch: **R146373** PrepDate: Analyst: **RAB**							
Chloride	2100	17	250		mg/L	500	8/5/2020 10:38 PM
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: **NV00922-IC8_200805B** QC Batch: **R146373** PrepDate: Analyst: **RAB**							
Sulfate	490	2.0	25		mg/L	50	8/5/2020 10:23 PM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041672
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CLPGE

Sample ID: **MB-R146373_CL** SampType: **MBLK** TestCode: **300_W_CLP** Units: **mg/L** Prep Date: RunNo: **146373**
Client ID: **PBW** Batch ID: **R146373** TestNo: **EPA 300.0** Analysis Date: **8/5/2020** SeqNo: **3883187**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.50									

Sample ID: **LCS-R146373_CL** SampType: **LCS** TestCode: **300_W_CLP** Units: **mg/L** Prep Date: RunNo: **146373**
Client ID: **LCSW** Batch ID: **R146373** TestNo: **EPA 300.0** Analysis Date: **8/5/2020** SeqNo: **3883188**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	2.006	0.50	2.000	0	100	90	110				

Sample ID: **N041672-001CDUP** SampType: **DUP** TestCode: **300_W_CLP** Units: **mg/L** Prep Date: RunNo: **146373**
Client ID: **ZZZZZZ** Batch ID: **R146373** TestNo: **EPA 300.0** Analysis Date: **8/5/2020** SeqNo: **3883196**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	2054.950	250						2056	0.0705	20	

Sample ID: **N041672-001CMS** SampType: **MS** TestCode: **300_W_CLP** Units: **mg/L** Prep Date: RunNo: **146373**
Client ID: **ZZZZZZ** Batch ID: **R146373** TestNo: **EPA 300.0** Analysis Date: **8/5/2020** SeqNo: **3883197**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	3043.000	250	1000	2056	98.7	80	120				

Sample ID: **N041672-001CMSD** SampType: **MSD** TestCode: **300_W_CLP** Units: **mg/L** Prep Date: RunNo: **146373**
Client ID: **ZZZZZZ** Batch ID: **R146373** TestNo: **EPA 300.0** Analysis Date: **8/5/2020** SeqNo: **3883198**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	3047.250	250	1000	2056	99.1	80	120	3043	0.140	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041672
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: **MB-R146373_SO4** SampType: **MBLK** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **146373**
Client ID: **PBW** Batch ID: **R146373** TestNo: **EPA 300.0** Analysis Date: **8/5/2020** SeqNo: **3883230**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.50									

Sample ID: **LCS-R146373_SO4** SampType: **LCS** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **146373**
Client ID: **LCSW** Batch ID: **R146373** TestNo: **EPA 300.0** Analysis Date: **8/5/2020** SeqNo: **3883231**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.969	0.50	4.000	0	99.2	90	110				

Sample ID: **N041660-002BDUP** SampType: **DUP** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **146373**
Client ID: **ZZZZZZ** Batch ID: **R146373** TestNo: **EPA 300.0** Analysis Date: **8/5/2020** SeqNo: **3883237**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	479.440	25						483.6	0.861	20	

Sample ID: **N041660-002BMS** SampType: **MS** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **146373**
Client ID: **ZZZZZZ** Batch ID: **R146373** TestNo: **EPA 300.0** Analysis Date: **8/5/2020** SeqNo: **3883238**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	678.500	25	200.0	483.6	97.5	80	120				

Sample ID: **N041660-002BMSD** SampType: **MSD** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **146373**
Client ID: **ZZZZZZ** Batch ID: **R146373** TestNo: **EPA 300.0** Analysis Date: **8/5/2020** SeqNo: **3883239**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	686.160	25	200.0	483.6	101	80	120	678.5	1.12	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *18-Aug-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0820
Lab Order:	N041672	**Collection Date:**	8/4/2020 7:43:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUND WATER
Lab ID:	N041672-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
			SM4500-NO3F				
RunID: **NV00922-WC_200811A**	QC Batch: **R146525**			PrepDate:			Analyst: **JBB**
Nitrate/Nitrite as N	2.5	0.16	0.25		mg/L	5	8/11/2020 01:08 PM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041672
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID: **MB-R146525** SampType: **MBLK** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **146525**
Client ID: **PBW** Batch ID: **R146525** TestNo: **SM4500-NO3** Analysis Date: **8/11/2020** SeqNo: **3891401**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID: **LCS-R146525** SampType: **LCS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **146525**
Client ID: **LCSW** Batch ID: **R146525** TestNo: **SM4500-NO3** Analysis Date: **8/11/2020** SeqNo: **3891402**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.471	0.050	0.5000	0	94.2	85	115				

Sample ID: **N041672-001DMS** SampType: **MS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **146525**
Client ID: **ZZZZZZ** Batch ID: **R146525** TestNo: **SM4500-NO3** Analysis Date: **8/11/2020** SeqNo: **3891404**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	5.059	0.25	2.500	2.506	102	75	125				

Sample ID: **N041672-001DMSD** SampType: **MSD** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **146525**
Client ID: **ZZZZZZ** Batch ID: **R146525** TestNo: **SM4500-NO3** Analysis Date: **8/11/2020** SeqNo: **3891405**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	5.385	0.25	2.500	2.506	115	75	125	5.059	6.23	20	

Sample ID: **N041660-002DDUP** SampType: **DUP** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **146525**
Client ID: **ZZZZZZ** Batch ID: **R146525** TestNo: **SM4500-NO3** Analysis Date: **8/11/2020** SeqNo: **3891407**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	2.813	0.25						3.022	7.16	20	

Qualifiers:

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

ASSET LABORATORIES

ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

Page 1 of 1

Contact us:
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691
California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F:562.219.7436
www.assetlaboratories.com

Client: Arcadis	Report to: Dan Bush	Bill to: Marty Bloes	
Address: 1410 Rocky Ridge Dr # 330	Company: Arcadis	Address:	
Address: Roseville, CA 95661	Email: dan.bush@arcadis.com, daniel.moore@critigen.com	Address:	
Phone: 916-786-3302 / Fax:	Address: 1410 Rocky Ridge Dr # 330 Roseville, CA 95661	Email to: mbloes@pivox.com	P.O.#: SWA-ASSET-C9817-051
Submitted By: Rigoberto Tapia		Phone: 949-727-1400, ext 200	Fax:
Title: Field Tech	Phone: 916-786-3302 / Fax:		
Signature: RT Date: 8/4/20	Sampled By: Rigoberto Tapia		
I hereby authorize ASSET Labs to perform the tests indicated below.	I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for		
Project Name: PG&E Topock - PMP	Signature: RT / Date: 8/4/20		
Project Number: RC000753.801D			

EDD Requirement		QA/QC		Sample Receipt Condition	Y	N
Excel EDD		RTNE		1. Chilled	✓	
Geotracker		RWQCB	✓	2. Headspace		
Labspec		CalTrans		3. Container Intact	✓	
Others	✓	LEVEL III		4. Seal Present		✓
Specify: RWQCB		LEVEL IV		5. IR number	2	
		Regulatory		6. Method of Cooling: ICE		
Global ID:		Specify State:		Sample Temp: 7.3 °C		

Courier: ASSET

Tracking No.:

Matrix			
Ground	x	Sediment	
Potable		Soil	
NPDES		Other Solid	
Surface			

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (250 mL poly)	Dissolved metals (EPA 200.8) FF; HNO3, 500 mL poly Cr, Mn (1 L poly)	Dissolved metals (EPA200.7) FF; HNO3 Ca, Mg, Fe, Na, (1 L poly)	Dissolved metals (SW6010B/SW6020Adis) FF; HNO3 As, Mn, Fe, Se, Mo, Ba (1 L poly)	Total metals (SW6010B); HNO3 Fe (500 mL poly)	Anions (E300.0); Cl, SO4 (1 liter poly)	Specific Conductance (E120.1) (1 liter poly)	pH (SM4500HB) (1 liter poly)	TDS (SM2540C) (1 liter poly)	Alkalinity (Total, reported as CaCO3) (SM2320B) (1 liter poly)	TSS (SM2540) (1 liter poly)	Nitrate/Nitrite (SM4500N03) Nitrate; H2SO4 (125 mL poly)	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
1	N041672-01	TW-03D-0820	8/4/20	0743		X		X	X			X	X	X	X	X		X	E	4	P	BN	
2		~~PE-01-0820~~				X		X	X			X	X	X	X	X		X	E	4	P	BN	
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							

Relinquished by (Signature and Printed Name):	Date/Time:	Relinquished by (Signature and Printed Name):	Date/Time:
RT Rigoberto Tapia 8/4/20	1536	JLBC 8-4-20	1536
JLBC 8-4-20	1730	Joanna Rodriguez	8/4/20 1730

Turn Around Time (TAT)

- [ ] A < 24 Hrs or Same Day TAT
- [ ] B = Next Workday
- [ ] C = 2 Workdays
- [ ] D = 3 Workdays
- [x] E = Routine 5-7 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Special Instruction:
Tittle 22 Metals - Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
Less than 24 Hrs.=200% Next Day=100% 2 Workdays=50% 3 Workdays=35 % 4 Workdays=20%
3. Custom EDD formats will be an additional 3% of the total project price.
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.
5. Trip Blanks and Equipment Blanks are billable sample.
6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
7. Terms are net 30 days.
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
9. For subcontract analysis, TAT and Surcharges will vary.

Preservatives:			
H=HCL	N=HNO_3	S=H_2SO_4	C=4°C
Z=Zn(AC)$_2$	O=NaOH	T=$Na_2S_2O_3$	
Others/Specify:	B	(NH4)2SO4/NH4OH	

Container Type:		
T=Tube	V=VOA	P=Pint
J=Jar	B=Tedlar	G=Glass
M=Metal	M=Metal	C=Can

White=Laboratory Copy

Yellow=Customer's Copy

ASSET Laboratories

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

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

Cooler Received/Opened On:	8/4/2020	Workorder:	N041672
Rep sample Temp (Deg C):	4.3	IR Gun ID:	2
Temp Blank:	☑ Yes ☐ No		
Carrier name:	ASSET		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

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

Comments: Sample for pH received past holding time.

Checklist Completed By: YR YRJ 8/6/2020

Reviewed By: MBC MBC 8/9/2020

ASSET Laboratories

WORK ORDER Summary

05-Aug-20

WorkOrder: N041672

Client ID: ARCUS02

Project: PG&E Topock - PMP, RC000753.801D **QC Level:** Level IV **Date Received:** 8/4/2020

Comments: Title 22 Metals: Ab, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni Se, Ag, Tl, V, Zn, K, Na.

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N041672-001A	TW-03D-0820	8/4/2020 7:43:00 AM	8/18/2020	Ground Water	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N041672-001B			8/18/2020			AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/18/2020		EPA 200.7	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			8/18/2020			AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/18/2020		EPA 200.8	DISSOLVED METALS BY ICPMS	☐	☐	☐	WW
			8/18/2020		EPA 200.8	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N041672-001C			8/18/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			8/18/2020		SM4500-H+B	pH	☐	☐	☐	LSR
			8/18/2020		SM2540C	TOTAL FILTERABLE RESIDUE	☐	☐	☐	LSR
			8/18/2020			Total Dissolved Solids Prep	☐	☐	☐	LSR
			8/18/2020		SM 2320 B	ALKALINITY, SPECIATED	☐	☐	☐	LSR
			8/18/2020		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	☐	☐	☐	LSR
			8/18/2020		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	☐	☐	☐	LSR
			8/18/2020		SM 1030F1	Cation-Anion Balance Calculation	☐	☐	☐	LSR
N041672-001D			8/18/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N041672-002A	FOLDER	8/18/2020	8/18/2020		EDD	RWQCB	☐	☐	☐	LAB
			8/18/2020		Folder	Folder	☐	☐	☐	LAB
			8/18/2020		Folder	Level IV Report	☐	☐	☐	LAB
			8/18/2020		Folder	Folder	☐	☐	☐	LAB

September 03, 2020

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661

TEL: (916) 786-3302
FAX:

Workorder No.: N041912

RE: PG&E Topock - RMP, RC000753 0801

Attention: Dan Bush

Enclosed are the results for sample(s) received on August 19, 2020 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Nancy Sibucao
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - Las Vegas.

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

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

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

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

Samples were analyzed within method holding time except for pH. pH testing is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

Analytical Comments for EPA 6010B_Dissolved:

Matrix Spike Duplicate (MSD) is outside recovery criteria for Iron in QC sample N041912-001B-MSD possibly due to matrix interference. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 6010B_Total:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Iron in QC samples N041912-001C-MS and N041912-001C-MSD since the analyte concentration in the sample is disproportionate to the spike level. Post Spike (PS) passed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 6020_Dissolved:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Barium in QC samples N041912-001B-MS and N041912-001B-MSD possibly due to matrix interference. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

ASSET Laboratories

Date: *03-Sep-20*

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RMP, RC000753 0801
Lab Order: N041912
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N041912-001A	MW-909-Q320	Groundwater	8/19/2020 10:44:00 AM	8/19/2020	9/3/2020
N041912-001B	MW-909-Q320	Groundwater	8/19/2020 10:44:00 AM	8/19/2020	9/3/2020
N041912-001C	MW-909-Q320	Groundwater	8/19/2020 10:44:00 AM	8/19/2020	9/3/2020
N041912-001D	MW-909-Q320	Groundwater	8/19/2020 10:44:00 AM	8/19/2020	9/3/2020
N041912-001E	MW-909-Q320	Groundwater	8/19/2020 10:44:00 AM	8/19/2020	9/3/2020
N041912-002A	C-R22A-D-Q320	Groundwater	8/19/2020 9:25:00 AM	8/19/2020	9/3/2020
N041912-002B	C-R22A-D-Q320	Groundwater	8/19/2020 9:25:00 AM	8/19/2020	9/3/2020
N041912-002C	C-R22A-D-Q320	Groundwater	8/19/2020 9:25:00 AM	8/19/2020	9/3/2020
N041912-002D	C-R22A-D-Q320	Groundwater	8/19/2020 9:25:00 AM	8/19/2020	9/3/2020
N041912-002E	C-R22A-D-Q320	Groundwater	8/19/2020 9:25:00 AM	8/19/2020	9/3/2020
N041912-003A	C-R22A-S-Q320	Groundwater	8/19/2020 9:41:00 AM	8/19/2020	9/3/2020
N041912-003B	C-R22A-S-Q320	Groundwater	8/19/2020 9:41:00 AM	8/19/2020	9/3/2020
N041912-003C	C-R22A-S-Q320	Groundwater	8/19/2020 9:41:00 AM	8/19/2020	9/3/2020
N041912-003D	C-R22A-S-Q320	Groundwater	8/19/2020 9:41:00 AM	8/19/2020	9/3/2020
N041912-003E	C-R22A-S-Q320	Groundwater	8/19/2020 9:41:00 AM	8/19/2020	9/3/2020
N041912-004A	C-R27-D-Q320	Groundwater	8/19/2020 10:21:00 AM	8/19/2020	9/3/2020
N041912-004B	C-R27-D-Q320	Groundwater	8/19/2020 10:21:00 AM	8/19/2020	9/3/2020
N041912-004C	C-R27-D-Q320	Groundwater	8/19/2020 10:21:00 AM	8/19/2020	9/3/2020
N041912-004D	C-R27-D-Q320	Groundwater	8/19/2020 10:21:00 AM	8/19/2020	9/3/2020
N041912-004E	C-R27-D-Q320	Groundwater	8/19/2020 10:21:00 AM	8/19/2020	9/3/2020
N041912-005A	C-R27-S-Q320	Groundwater	8/19/2020 10:34:00 AM	8/19/2020	9/3/2020
N041912-005B	C-R27-S-Q320	Groundwater	8/19/2020 10:34:00 AM	8/19/2020	9/3/2020
N041912-005C	C-R27-S-Q320	Groundwater	8/19/2020 10:34:00 AM	8/19/2020	9/3/2020
N041912-005D	C-R27-S-Q320	Groundwater	8/19/2020 10:34:00 AM	8/19/2020	9/3/2020
N041912-005E	C-R27-S-Q320	Groundwater	8/19/2020 10:34:00 AM	8/19/2020	9/3/2020
N041912-006A	C-TAZ-D-Q320	Groundwater	8/19/2020 7:51:00 AM	8/19/2020	9/3/2020
N041912-006B	C-TAZ-D-Q320	Groundwater	8/19/2020 7:51:00 AM	8/19/2020	9/3/2020
N041912-006C	C-TAZ-D-Q320	Groundwater	8/19/2020 7:51:00 AM	8/19/2020	9/3/2020
N041912-006D	C-TAZ-D-Q320	Groundwater	8/19/2020 7:51:00 AM	8/19/2020	9/3/2020

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RMP, RC000753 0801
Lab Order: N041912
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N041912-006E	C-TAZ-D-Q320	Groundwater	8/19/2020 7:51:00 AM	8/19/2020	9/3/2020
N041912-007A	AB1-1-Q320	Groundwater	8/19/2020 10:47:00 AM	8/19/2020	9/3/2020
N041912-008A	C-TAZ-S-Q320	Groundwater	8/19/2020 8:05:00 AM	8/19/2020	9/3/2020
N041912-008B	C-TAZ-S-Q320	Groundwater	8/19/2020 8:05:00 AM	8/19/2020	9/3/2020
N041912-008C	C-TAZ-S-Q320	Groundwater	8/19/2020 8:05:00 AM	8/19/2020	9/3/2020
N041912-008D	C-TAZ-S-Q320	Groundwater	8/19/2020 8:05:00 AM	8/19/2020	9/3/2020
N041912-008E	C-TAZ-S-Q320	Groundwater	8/19/2020 8:05:00 AM	8/19/2020	9/3/2020
N041912-009A	AB2-2-Q320	Groundwater	8/19/2020 11:05:00 AM	8/19/2020	9/3/2020
N041912-010A	R-28-Q320	Groundwater	8/19/2020 10:59:00 AM	8/19/2020	9/3/2020
N041912-010B	R-28-Q320	Groundwater	8/19/2020 10:59:00 AM	8/19/2020	9/3/2020
N041912-010C	R-28-Q320	Groundwater	8/19/2020 10:59:00 AM	8/19/2020	9/3/2020
N041912-010D	R-28-Q320	Groundwater	8/19/2020 10:59:00 AM	8/19/2020	9/3/2020
N041912-010E	R-28-Q320	Groundwater	8/19/2020 10:59:00 AM	8/19/2020	9/3/2020
N041912-011A	R63-Q320	Groundwater	8/19/2020 9:05:00 AM	8/19/2020	9/3/2020
N041912-011B	R63-Q320	Groundwater	8/19/2020 9:05:00 AM	8/19/2020	9/3/2020
N041912-011C	R63-Q320	Groundwater	8/19/2020 9:05:00 AM	8/19/2020	9/3/2020
N041912-011D	R63-Q320	Groundwater	8/19/2020 9:05:00 AM	8/19/2020	9/3/2020
N041912-011E	R63-Q320	Groundwater	8/19/2020 9:05:00 AM	8/19/2020	9/3/2020
N041912-012A	C-BNS-Q320	Groundwater	8/19/2020 9:58:00 AM	8/19/2020	9/3/2020
N041912-012B	C-BNS-Q320	Groundwater	8/19/2020 9:58:00 AM	8/19/2020	9/3/2020
N041912-012C	C-BNS-Q320	Groundwater	8/19/2020 9:58:00 AM	8/19/2020	9/3/2020
N041912-012D	C-BNS-Q320	Groundwater	8/19/2020 9:58:00 AM	8/19/2020	9/3/2020
N041912-012E	C-BNS-Q320	Groundwater	8/19/2020 9:58:00 AM	8/19/2020	9/3/2020
N041912-013A	C-I-3-D-Q320	Groundwater	8/19/2020 8:31:00 AM	8/19/2020	9/3/2020
N041912-013B	C-I-3-D-Q320	Groundwater	8/19/2020 8:31:00 AM	8/19/2020	9/3/2020
N041912-013C	C-I-3-D-Q320	Groundwater	8/19/2020 8:31:00 AM	8/19/2020	9/3/2020
N041912-013D	C-I-3-D-Q320	Groundwater	8/19/2020 8:31:00 AM	8/19/2020	9/3/2020
N041912-013E	C-I-3-D-Q320	Groundwater	8/19/2020 8:31:00 AM	8/19/2020	9/3/2020
N041912-014A	C-I-3-S-Q320	Groundwater	8/19/2020 8:46:00 AM	8/19/2020	9/3/2020
N041912-014B	C-I-3-S-Q320	Groundwater	8/19/2020 8:46:00 AM	8/19/2020	9/3/2020

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RMP, RC000753 0801
Lab Order: N041912
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N041912-014C	C-I-3-S-Q320	Groundwater	8/19/2020 8:46:00 AM	8/19/2020	9/3/2020
N041912-014D	C-I-3-S-Q320	Groundwater	8/19/2020 8:46:00 AM	8/19/2020	9/3/2020
N041912-014E	C-I-3-S-Q320	Groundwater	8/19/2020 8:46:00 AM	8/19/2020	9/3/2020

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-909-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 10:44:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200819F**	QC Batch: **R146767**			PrepDate:			Analyst: **LR**
Specific Conductance	870	0.10	0.10		umhos/cm	1	8/19/2020 09:40 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-D-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 9:25:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200819F**	QC Batch: **R146767**			PrepDate:			Analyst: **LR**
Specific Conductance	800	0.10	0.10		umhos/cm	1	8/19/2020 09:40 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-S-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 9:41:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200819F**	QC Batch: **R146767**			PrepDate:			Analyst: **LR**
Specific Conductance	820	0.10	0.10		umhos/cm	1	8/19/2020 09:40 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-D-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 10:21:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200819F**	QC Batch: **R146767**			PrepDate:			Analyst: **LR**
Specific Conductance	860	0.10	0.10		umhos/cm	1	8/19/2020 09:40 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-S-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 10:34:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200819F**	QC Batch: **R146767**			PrepDate:			Analyst: **LR**
Specific Conductance	850	0.10	0.10		umhos/cm	1	8/19/2020 09:40 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-D-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 7:51:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200819F**	QC Batch: **R146767**			PrepDate:			Analyst: **LR**
Specific Conductance	880	0.10	0.10		umhos/cm	1	8/19/2020 09:40 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-S-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 8:05:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200819F**	QC Batch: **R146767**			PrepDate:			Analyst: **LR**
Specific Conductance	860	0.10	0.10		umhos/cm	1	8/19/2020 09:40 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-28-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 10:59:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200819F**	QC Batch: **R146767**			PrepDate:			Analyst: **LR**
Specific Conductance	860	0.10	0.10		umhos/cm	1	8/19/2020 09:40 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R63-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 9:05:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200819F**	QC Batch: **R146767**			PrepDate:			Analyst: **LR**
Specific Conductance	830	0.10	0.10		umhos/cm	1	8/19/2020 09:40 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-BNS-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 9:58:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200819F**	QC Batch: **R146767**			PrepDate:			Analyst: **LR**
Specific Conductance	880	0.10	0.10		umhos/cm	1	8/19/2020 09:40 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-D-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 8:31:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200819F**	QC Batch: **R146767**			PrepDate:			Analyst: **LR**
Specific Conductance	860	0.10	0.10		umhos/cm	1	8/19/2020 09:40 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-S-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 8:46:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200819F**	QC Batch: **R146767**			PrepDate:			Analyst: **LR**
Specific Conductance	880	0.10	0.10		umhos/cm	1	8/19/2020 09:40 PM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041912
Project: PG&E Topock - RMP, RC000753 0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 120.1_WPGE

Sample ID **N041912-001DDUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **146767**
Client ID: **ZZZZZZ** Batch ID: **R146767** TestNo: **EPA 120.1** Analysis Date: **8/19/2020** SeqNo: **3906681**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	877.000	0.10						874.0	0.343	2	

Sample ID **N041912-013DDUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **146767**
Client ID: **ZZZZZZ** Batch ID: **R146767** TestNo: **EPA 120.1** Analysis Date: **8/19/2020** SeqNo: **3906692**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	867.000	0.10						864.0	0.347	2	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-909-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 10:44:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200819H**	QC Batch: **R146769**			PrepDate:			Analyst: **LR**
pH	7.9	0.10	0.10	H	pH Units	1	8/19/2020 09:30 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	8/19/2020 09:30 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-D-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 9:25:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200819H**	QC Batch: **R146769**			PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	8/19/2020 09:30 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	8/19/2020 09:30 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-S-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 9:41:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200819H**	QC Batch: **R146769**			PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	8/19/2020 09:30 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	8/19/2020 09:30 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-D-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 10:21:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200819H**	QC Batch: **R146769**			PrepDate:			Analyst: **LR**
pH	7.4	0.10	0.10	H	pH Units	1	8/19/2020 09:30 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	8/19/2020 09:30 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-S-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 10:34:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200819H**	QC Batch: **R146769**			PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	8/19/2020 09:30 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	8/19/2020 09:30 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-D-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 7:51:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200819H**	QC Batch: **R146769**			PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	8/19/2020 09:30 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	8/19/2020 09:30 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-S-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 8:05:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200819H**	QC Batch: **R146769**			PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	8/19/2020 09:30 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	8/19/2020 09:30 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-28-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 10:59:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200819H**	QC Batch: **R146769**			PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	8/19/2020 09:30 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	8/19/2020 09:30 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R63-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 9:05:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200819H**	QC Batch: **R146769**			PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	8/19/2020 09:30 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	8/19/2020 09:30 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-BNS-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 9:58:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200819H**	QC Batch: **R146769**			PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	8/19/2020 09:30 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	8/19/2020 09:30 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-D-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 8:31:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200819H**	QC Batch: **R146769**			PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	8/19/2020 09:30 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	8/19/2020 09:30 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-S-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 8:46:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200819H**	QC Batch: **R146769**			PrepDate:			Analyst: **LR**
pH	7.9	0.10	0.10	H	pH Units	1	8/19/2020 09:30 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	8/19/2020 09:30 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041912
Project: PG&E Topock - RMP, RC000753 0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 150.1_4500H+B_W

Sample ID **N041912-001DDUP** SampType: **DUP** TestCode: **150.1_4500H** Units: **pH Units** Prep Date: RunNo: **146769**
Client ID: **ZZZZZZ** Batch ID: **R146769** TestNo: **SM4500-H+B** Analysis Date: **8/19/2020** SeqNo: **3906697**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.950	0.10						7.930	0.252	10	H
Temp. at time of pH Analysis	25.000	0.10						25.00	0	10	H

Sample ID **N041912-013DDUP** SampType: **DUP** TestCode: **150.1_4500H** Units: **pH Units** Prep Date: RunNo: **146769**
Client ID: **ZZZZZZ** Batch ID: **R146769** TestNo: **SM4500-H+B** Analysis Date: **8/19/2020** SeqNo: **3906708**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.970	0.10						7.950	0.251	10	H
Temp. at time of pH Analysis	25.000	0.10						25.00	0	10	H

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-909-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 10:44:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_200823A** QC Batch: **81880** PrepDate: **8/23/2020** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	8/23/2020 06:26 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-D-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 9:25:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_200823A** QC Batch: **81880** PrepDate: **8/23/2020** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	8/23/2020 06:26 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-S-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 9:41:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_200823A**	QC Batch: **81880**				PrepDate:	**8/23/2020**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	8/23/2020 06:26 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-D-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 10:21:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_200823A**	QC Batch: **81880**				PrepDate:	**8/23/2020**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	8/23/2020 06:26 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-S-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 10:34:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_200823A**	QC Batch: **81880**				PrepDate:	**8/23/2020**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	8/23/2020 06:26 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-D-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 7:51:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_200823A**	QC Batch: **81880**				PrepDate:	**8/23/2020**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	8/23/2020 06:26 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-S-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 8:05:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_200823A**	QC Batch: **81880**				PrepDate:	**8/23/2020**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	8/23/2020 06:26 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-28-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 10:59:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_200823A** QC Batch: **81880** PrepDate: **8/23/2020** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	8/23/2020 06:26 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R63-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 9:05:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_200823A** QC Batch: **81880** PrepDate: **8/23/2020** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	8/23/2020 06:26 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-BNS-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 9:58:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_200823A** QC Batch: **81880** PrepDate: **8/23/2020** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	8/23/2020 06:26 PM

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-D-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 8:31:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_200823B**	QC Batch: **81881**				PrepDate:	**8/23/2020**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	8/23/2020 06:26 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-S-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 8:46:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_200823B**	QC Batch: **81881**				PrepDate:	**8/23/2020**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	8/23/2020 06:26 PM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041912
Project: PG&E Topock - RMP, RC000753 0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID	LCS-81880	SampType:	LCS	TestCode:	160.2_2540D	Units:	mg/L	Prep Date:	8/23/2020	RunNo:	146840
Client ID:	LCSW	Batch ID:	81880	TestNo:	SM2540D			Analysis Date:	8/23/2020	SeqNo:	3909897

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	962.000	10	1000	0	96.2	80	120				

Sample ID	MB-81880	SampType:	MBLK	TestCode:	160.2_2540D	Units:	mg/L	Prep Date:	8/23/2020	RunNo:	146840
Client ID:	PBW	Batch ID:	81880	TestNo:	SM2540D			Analysis Date:	8/23/2020	SeqNo:	3909898

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10									

Sample ID	N041912-001DDUP	SampType:	DUP	TestCode:	160.2_2540D	Units:	mg/L	Prep Date:	8/23/2020	RunNo:	146840
Client ID:	ZZZZZZ	Batch ID:	81880	TestNo:	SM2540D			Analysis Date:	8/23/2020	SeqNo:	3909900

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	5.0						0	0	5	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041912
Project: PG&E Topock - RMP, RC000753 0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID	LCS-81881	SampType:	LCS	TestCode:	160.2_2540D	Units:	mg/L	Prep Date:	8/23/2020	RunNo:	146841
Client ID:	LCSW	Batch ID:	81881	TestNo:	SM2540D			Analysis Date:	8/23/2020	SeqNo:	3909910

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	974.000	10	1000	0	97.4	80	120				

Sample ID	MB-81881	SampType:	MBLK	TestCode:	160.2_2540D	Units:	mg/L	Prep Date:	8/23/2020	RunNo:	146841
Client ID:	PBW	Batch ID:	81881	TestNo:	SM2540D			Analysis Date:	8/23/2020	SeqNo:	3909911

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10									

Sample ID	N041932-004DDUP	SampType:	DUP	TestCode:	160.2_2540D	Units:	mg/L	Prep Date:	8/23/2020	RunNo:	146841
Client ID:	ZZZZZZ	Batch ID:	81881	TestNo:	SM2540D			Analysis Date:	8/23/2020	SeqNo:	3909918

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	5.0						0	0	5	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-909-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 10:44:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_200829A** QC Batch: **R147007** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	8/29/2020 08:10 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200831A** QC Batch: **81858** PrepDate: **8/22/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	8/31/2020 08:03 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-D-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 9:25:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_200828A** QC Batch: **R147004** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	8/28/2020 12:43 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200831A** QC Batch: **81858** PrepDate: **8/22/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	8/31/2020 08:07 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-S-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 9:41:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_200828A** QC Batch: **R147004** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	8/28/2020 01:02 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200831A** QC Batch: **81858** PrepDate: **8/22/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	8/31/2020 08:12 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-D-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 10:21:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_200828A** QC Batch: **R147004** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	8/28/2020 01:21 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200831A** QC Batch: **81858** PrepDate: **8/22/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	8/31/2020 08:17 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-S-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 10:34:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_200828A** QC Batch: **R147004** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	8/28/2020 01:40 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200831A** QC Batch: **81858** PrepDate: **8/22/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	8/31/2020 08:21 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-D-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 7:51:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_200828A** QC Batch: **R147004** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	8/28/2020 01:59 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200831A** QC Batch: **81858** PrepDate: **8/22/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	8/31/2020 08:26 AM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	AB1-1-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 10:47:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_200828A** QC Batch: **R147004** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	8/28/2020 02:37 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-S-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 8:05:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_200828A** QC Batch: **R147004** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	8/28/2020 02:56 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200831A** QC Batch: **81858** PrepDate: **8/22/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	8/31/2020 08:30 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	AB2-2-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 11:05:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-009		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_200828A** QC Batch: **R147004** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	8/28/2020 03:15 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-28-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 10:59:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_200828A** QC Batch: **R147004** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	8/28/2020 03:34 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200831A** QC Batch: **81858** PrepDate: **8/22/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	8/31/2020 08:35 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R63-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 9:05:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_200828A** QC Batch: **R147004** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	8/28/2020 03:52 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200831A** QC Batch: **81858** PrepDate: **8/22/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	8/31/2020 08:49 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-BNS-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 9:58:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_200828A** QC Batch: **R147004** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	8/28/2020 04:30 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200831A** QC Batch: **81858** PrepDate: **8/22/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	8/31/2020 08:54 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-D-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 8:31:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_200828A** QC Batch: **R147004** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	8/28/2020 04:49 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200831A** QC Batch: **81858** PrepDate: **8/22/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	8/31/2020 08:58 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-S-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 8:46:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_200828A** QC Batch: **R147004** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	8/28/2020 05:08 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200831A** QC Batch: **81858** PrepDate: **8/22/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	8/31/2020 09:03 AM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041912
Project: PG&E Topock - RMP, RC000753 0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **MB-R147004** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147004**
Client ID: **PBW** Batch ID: **R147004** TestNo: **EPA 218.6** Analysis Date: **8/28/2020** SeqNo: **3918424**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID **LCS-R147004** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147004**
Client ID: **LCSW** Batch ID: **R147004** TestNo: **EPA 218.6** Analysis Date: **8/28/2020** SeqNo: **3918425**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.178	0.20	5.000	0	104	90	110				

Sample ID **N041909-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147004**
Client ID: **ZZZZZZ** Batch ID: **R147004** TestNo: **EPA 218.6** Analysis Date: **8/28/2020** SeqNo: **3918427**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.077	0.20	1.000	0	108	90	110				

Sample ID **N041910-001ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147004**
Client ID: **ZZZZZZ** Batch ID: **R147004** TestNo: **EPA 218.6** Analysis Date: **8/28/2020** SeqNo: **3918429**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	23.691	0.40						23.71	0.0633	20	

Sample ID **N041910-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147004**
Client ID: **ZZZZZZ** Batch ID: **R147004** TestNo: **EPA 218.6** Analysis Date: **8/28/2020** SeqNo: **3918430**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	34.117	0.40	10.00	23.71	104	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041912
Project: PG&E Topock - RMP, RC000753 0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N041910-001AMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147004**
Client ID: **ZZZZZZ** Batch ID: **R147004** TestNo: **EPA 218.6** Analysis Date: **8/28/2020** SeqNo: **3918431**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	34.138	0.40	10.00	23.71	104	90	110	34.12	0.0609	20	

Sample ID **N041912-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147004**
Client ID: **ZZZZZZ** Batch ID: **R147004** TestNo: **EPA 218.6** Analysis Date: **8/28/2020** SeqNo: **3918435**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.073	0.20	1.000	0	107	90	110				

Sample ID **N041912-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147004**
Client ID: **ZZZZZZ** Batch ID: **R147004** TestNo: **EPA 218.6** Analysis Date: **8/28/2020** SeqNo: **3918437**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.055	0.20	1.000	0	105	90	110				

Sample ID **N041912-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147004**
Client ID: **ZZZZZZ** Batch ID: **R147004** TestNo: **EPA 218.6** Analysis Date: **8/28/2020** SeqNo: **3918439**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.086	0.20	1.000	0	109	90	110				

Sample ID **N041912-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147004**
Client ID: **ZZZZZZ** Batch ID: **R147004** TestNo: **EPA 218.6** Analysis Date: **8/28/2020** SeqNo: **3918441**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.100	0.20	1.000	0	110	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041912
Project: PG&E Topock - RMP, RC000753 0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N041912-006AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147004**
Client ID: **ZZZZZZ** Batch ID: **R147004** TestNo: **EPA 218.6** Analysis Date: **8/28/2020** SeqNo: **3918443**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.070	0.20	1.000	0	107	90	110				

Sample ID **N041912-007AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147004**
Client ID: **ZZZZZZ** Batch ID: **R147004** TestNo: **EPA 218.6** Analysis Date: **8/28/2020** SeqNo: **3918447**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.040	0.20	1.000	0	104	90	110				

Sample ID **N041912-008AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147004**
Client ID: **ZZZZZZ** Batch ID: **R147004** TestNo: **EPA 218.6** Analysis Date: **8/28/2020** SeqNo: **3918449**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.085	0.20	1.000	0	109	90	110				

Sample ID **N041912-009AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147004**
Client ID: **ZZZZZZ** Batch ID: **R147004** TestNo: **EPA 218.6** Analysis Date: **8/28/2020** SeqNo: **3918451**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.049	0.20	1.000	0	105	90	110				

Sample ID **N041912-010AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147004**
Client ID: **ZZZZZZ** Batch ID: **R147004** TestNo: **EPA 218.6** Analysis Date: **8/28/2020** SeqNo: **3918453**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.092	0.20	1.000	0	109	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041912
Project: PG&E Topock - RMP, RC000753 0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N041912-011AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147004**
Client ID: **ZZZZZZ** Batch ID: **R147004** TestNo: **EPA 218.6** Analysis Date: **8/28/2020** SeqNo: **3918455**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.069	0.20	1.000	0	107	90	110				

Sample ID **N041912-012AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147004**
Client ID: **ZZZZZZ** Batch ID: **R147004** TestNo: **EPA 218.6** Analysis Date: **8/28/2020** SeqNo: **3918459**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.052	0.20	1.000	0	105	90	110				

Sample ID **N041912-013AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147004**
Client ID: **ZZZZZZ** Batch ID: **R147004** TestNo: **EPA 218.6** Analysis Date: **8/28/2020** SeqNo: **3918461**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.067	0.20	1.000	0	107	90	110				

Sample ID **N041912-014AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147004**
Client ID: **ZZZZZZ** Batch ID: **R147004** TestNo: **EPA 218.6** Analysis Date: **8/28/2020** SeqNo: **3918463**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.100	0.20	1.000	0	110	90	110				

Sample ID **N041912-014ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147004**
Client ID: **ZZZZZZ** Batch ID: **R147004** TestNo: **EPA 218.6** Analysis Date: **8/28/2020** SeqNo: **3918464**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041912
Project: PG&E Topock - RMP, RC000753 0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **MB-R147007** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147007**
Client ID: **PBW** Batch ID: **R147007** TestNo: **EPA 218.6** Analysis Date: **8/29/2020** SeqNo: **3918553**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID **LCS-R147007** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147007**
Client ID: **LCSW** Batch ID: **R147007** TestNo: **EPA 218.6** Analysis Date: **8/29/2020** SeqNo: **3918554**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.008	0.20	5.000	0	100	90	110				

Sample ID **N041912-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147007**
Client ID: **ZZZZZZ** Batch ID: **R147007** TestNo: **EPA 218.6** Analysis Date: **8/29/2020** SeqNo: **3918556**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.055	0.20	1.000	0	106	90	110				

Sample ID **N041913-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147007**
Client ID: **ZZZZZZ** Batch ID: **R147007** TestNo: **EPA 218.6** Analysis Date: **8/29/2020** SeqNo: **3918558**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.856	1.0	5.000	0.8055	101	90	110				

Sample ID **N041913-008AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147007**
Client ID: **ZZZZZZ** Batch ID: **R147007** TestNo: **EPA 218.6** Analysis Date: **8/29/2020** SeqNo: **3918560**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.642	0.20	1.000	0.6079	103	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041912
Project: PG&E Topock - RMP, RC000753 0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N041913-010AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147007**
Client ID: **ZZZZZZ** Batch ID: **R147007** TestNo: **EPA 218.6** Analysis Date: **8/29/2020** SeqNo: **3918564**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.422	0.20	5.000	4.195	105	90	110				

Sample ID **N041927-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147007**
Client ID: **ZZZZZZ** Batch ID: **R147007** TestNo: **EPA 218.6** Analysis Date: **8/29/2020** SeqNo: **3918566**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.352	1.0	5.000	0	107	90	110				

Sample ID **N041927-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147007**
Client ID: **ZZZZZZ** Batch ID: **R147007** TestNo: **EPA 218.6** Analysis Date: **8/29/2020** SeqNo: **3918568**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.043	0.20	1.000	0	104	90	110				

Sample ID **N041927-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147007**
Client ID: **ZZZZZZ** Batch ID: **R147007** TestNo: **EPA 218.6** Analysis Date: **8/29/2020** SeqNo: **3918570**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.037	0.20	1.000	0	104	90	110				

Sample ID **N041927-004ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147007**
Client ID: **ZZZZZZ** Batch ID: **R147007** TestNo: **EPA 218.6** Analysis Date: **8/29/2020** SeqNo: **3918574**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.141	0.20						0.1424	0	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041912
Project: PG&E Topock - RMP, RC000753 0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N041927-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147007**
Client ID: **ZZZZZZ** Batch ID: **R147007** TestNo: **EPA 218.6** Analysis Date: **8/29/2020** SeqNo: **3918575**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.146	0.20	1.000	0.1424	100	90	110				

Sample ID **N041927-004AMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147007**
Client ID: **ZZZZZZ** Batch ID: **R147007** TestNo: **EPA 218.6** Analysis Date: **8/29/2020** SeqNo: **3918576**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.212	0.20	1.000	0.1424	107	90	110	1.146	5.62	20	

Sample ID **N041927-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147007**
Client ID: **ZZZZZZ** Batch ID: **R147007** TestNo: **EPA 218.6** Analysis Date: **8/29/2020** SeqNo: **3918578**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.989	0.20	1.000	0	98.9	90	110				

Sample ID **N041927-006AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147007**
Client ID: **ZZZZZZ** Batch ID: **R147007** TestNo: **EPA 218.6** Analysis Date: **8/29/2020** SeqNo: **3918580**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.270	0.20	1.000	0.1836	109	90	110				

Sample ID **N041927-008AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147007**
Client ID: **ZZZZZZ** Batch ID: **R147007** TestNo: **EPA 218.6** Analysis Date: **8/29/2020** SeqNo: **3918582**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.085	0.20	1.000	0	108	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041912
Project: PG&E Topock - RMP, RC000753 0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N041927-007AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147007**
Client ID: **ZZZZZZ** Batch ID: **R147007** TestNo: **EPA 218.6** Analysis Date: **8/29/2020** SeqNo: **3918586**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.033	1.0	5.000	0	101	90	110				

Sample ID **N041927-009AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147007**
Client ID: **ZZZZZZ** Batch ID: **R147007** TestNo: **EPA 218.6** Analysis Date: **8/29/2020** SeqNo: **3918588**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	8.254	0.20	5.000	2.881	107	90	110				

Sample ID **N041927-010AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147007**
Client ID: **ZZZZZZ** Batch ID: **R147007** TestNo: **EPA 218.6** Analysis Date: **8/29/2020** SeqNo: **3918590**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	8.163	0.20	5.000	2.954	104	90	110				

Sample ID **N041927-012AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147007**
Client ID: **ZZZZZZ** Batch ID: **R147007** TestNo: **EPA 218.6** Analysis Date: **8/29/2020** SeqNo: **3918592**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.078	0.20	1.000	0	108	90	110				

Sample ID **N041927-011ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147007**
Client ID: **ZZZZZZ** Batch ID: **R147007** TestNo: **EPA 218.6** Analysis Date: **8/29/2020** SeqNo: **3918596**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	53.467	2.0						53.58	0.202	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041912
Project: PG&E Topock - RMP, RC000753 0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID	N041927-011AMS	SampType:	MS	TestCode:	218.6_WPGE	Units:	µg/L	Prep Date:		RunNo:	147007
Client ID:	ZZZZZZ	Batch ID:	R147007	TestNo:	EPA 218.6			Analysis Date:	8/29/2020	SeqNo:	3918597

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	104.576	2.0	50.00	53.58	102	90	110				

Sample ID	N041927-013AMS	SampType:	MS	TestCode:	218.6_WPGE	Units:	µg/L	Prep Date:		RunNo:	147007
Client ID:	ZZZZZZ	Batch ID:	R147007	TestNo:	EPA 218.6			Analysis Date:	8/29/2020	SeqNo:	3918599

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.052	0.20	1.000	0	105	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041912
Project: PG&E Topock - RMP, RC000753 0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID **MB-81858** SampType: **MBLK** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **8/22/2020** RunNo: **147077**
Client ID: **PBW** Batch ID: **81858** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **8/31/2020** SeqNo: **3922660**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID **LCS-81858** SampType: **LCS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **8/22/2020** RunNo: **147077**
Client ID: **LCSW** Batch ID: **81858** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **8/31/2020** SeqNo: **3922661**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.815	1.0	10.00	0	98.2	85	115				

Sample ID **N041912-001B-MS** SampType: **MS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **8/22/2020** RunNo: **147077**
Client ID: **ZZZZZZ** Batch ID: **81858** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **8/31/2020** SeqNo: **3922678**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.406	1.0	10.00	0	94.1	75	125				

Sample ID **N041912-001B-MSD** SampType: **MSD** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **8/22/2020** RunNo: **147077**
Client ID: **ZZZZZZ** Batch ID: **81858** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **8/31/2020** SeqNo: **3922679**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.365	1.0	10.00	0	93.7	75	125	9.406	0.437	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-909-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 10:44:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_200825G** QC Batch: **R146893** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.36	0.032	0.050		mg/L	1	8/25/2020 05:08 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-D-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 9:25:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_200825G** QC Batch: **R146893** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.32	0.032	0.050		mg/L	1	8/25/2020 05:04 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-S-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 9:41:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_200825G** QC Batch: **R146893** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.30	0.032	0.050		mg/L	1	8/25/2020 05:13 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-D-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 10:21:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_200825G** QC Batch: **R146893** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.34	0.032	0.050		mg/L	1	8/25/2020 05:13 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-S-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 10:34:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_200825G** QC Batch: **R146893** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.34	0.032	0.050		mg/L	1	8/25/2020 05:14 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-D-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 7:51:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_200825G** QC Batch: **R146893** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.35	0.032	0.050		mg/L	1	8/25/2020 05:15 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-S-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 8:05:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_200825G** QC Batch: **R146893** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.43	0.032	0.050		mg/L	1	8/25/2020 05:07 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-28-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 10:59:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_200825G** QC Batch: **R146893** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.37	0.032	0.050		mg/L	1	8/25/2020 05:16 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R63-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 9:05:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_200825G** QC Batch: **R146893** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.35	0.032	0.050		mg/L	1	8/25/2020 05:17 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-BNS-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 9:58:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_200825G** QC Batch: **R146893** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.39	0.032	0.050		mg/L	1	8/25/2020 05:18 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-D-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 8:31:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_200825G** QC Batch: **R146893** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.38	0.032	0.050		mg/L	1	8/25/2020 05:19 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-S-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 8:46:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_200825G** QC Batch: **R146893** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.46	0.032	0.050		mg/L	1	8/25/2020 05:19 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041912
Project: PG&E Topock - RMP, RC000753 0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID **MB-R146893** SampType: **MBLK** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **146893**
Client ID: **PBW** Batch ID: **R146893** TestNo: **SM4500-NO3** Analysis Date: **8/25/2020** SeqNo: **3913302**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID **LCS-R146893** SampType: **LCS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **146893**
Client ID: **LCSW** Batch ID: **R146893** TestNo: **SM4500-NO3** Analysis Date: **8/25/2020** SeqNo: **3913303**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.454	0.050	0.5000	0	90.7	85	115				

Sample ID **N041912-002EMS** SampType: **MS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **146893**
Client ID: **ZZZZZZ** Batch ID: **R146893** TestNo: **SM4500-NO3** Analysis Date: **8/25/2020** SeqNo: **3913305**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.837	0.050	0.5000	0.3158	104	75	125				

Sample ID **N041912-002EMSD** SampType: **MSD** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **146893**
Client ID: **ZZZZZZ** Batch ID: **R146893** TestNo: **SM4500-NO3** Analysis Date: **8/25/2020** SeqNo: **3913306**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.937	0.050	0.5000	0.3158	124	75	125	0.8365	11.4	20	

Sample ID **N041912-008EDUP** SampType: **DUP** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **146893**
Client ID: **ZZZZZZ** Batch ID: **R146893** TestNo: **SM4500-NO3** Analysis Date: **8/25/2020** SeqNo: **3913308**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.405	0.050						0.4298	5.97	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-909-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 10:44:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829C**	QC Batch: **81849**				PrepDate:	**8/21/2020**	Analyst: **DJ**
Iron	26	18	20		ug/L	1	8/29/2020 10:17 AM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829B**	QC Batch: **81872**				PrepDate:	**8/22/2020**	Analyst: **DJ**
Iron	190	18	20		ug/L	1	8/29/2020 08:55 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-D-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 9:25:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829C**	QC Batch: **81849**			PrepDate:		**8/21/2020**	Analyst: **DJ**
Iron	37	18	20		ug/L	1	8/29/2020 10:36 AM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829B**	QC Batch: **81872**			PrepDate:		**8/22/2020**	Analyst: **DJ**
Iron	47	18	20		ug/L	1	8/29/2020 09:14 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-S-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 9:41:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829C**	QC Batch: **81849**			PrepDate:		**8/21/2020**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	8/29/2020 10:39 AM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829B**	QC Batch: **81872**			PrepDate:		**8/22/2020**	Analyst: **DJ**
Iron	58	18	20		ug/L	1	8/29/2020 09:17 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-D-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 10:21:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829C**	QC Batch: **81849**			PrepDate:		**8/21/2020**	Analyst: **DJ**
Iron	23	18	20		ug/L	1	8/29/2020 10:43 AM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829B**	QC Batch: **81872**			PrepDate:		**8/22/2020**	Analyst: **DJ**
Iron	54	18	20		ug/L	1	8/29/2020 09:21 AM

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

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ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-S-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 10:34:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829C**	QC Batch: **81849**			PrepDate:		**8/21/2020**	Analyst: **DJ**
Iron	22	18	20		ug/L	1	8/29/2020 10:47 AM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829B**	QC Batch: **81872**			PrepDate:		**8/22/2020**	Analyst: **DJ**
Iron	58	18	20		ug/L	1	8/29/2020 09:32 AM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-D-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 7:51:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829C**	QC Batch: **81849**			PrepDate:		**8/21/2020**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	8/29/2020 10:50 AM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829B**	QC Batch: **81872**			PrepDate:		**8/22/2020**	Analyst: **DJ**
Iron	53	18	20		ug/L	1	8/29/2020 09:36 AM

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

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ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-S-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 8:05:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829C**	QC Batch: **81849**			PrepDate:		**8/21/2020**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	8/29/2020 03:47 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829B**	QC Batch: **81872**			PrepDate:		**8/22/2020**	Analyst: **DJ**
Iron	39	18	20		ug/L	1	8/29/2020 09:40 AM

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

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ANALYTICAL RESULTS

Print Date: *03-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-28-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 10:59:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200903A**	QC Batch: **81849**				PrepDate:	**8/21/2020**	Analyst: **DJ**
Iron	41	18	20		ug/L	1	9/3/2020 11:54 AM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200903A**	QC Batch: **81872**				PrepDate:	**8/22/2020**	Analyst: **DJ**
Iron	38	18	20		ug/L	1	9/3/2020 12:38 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R63-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 9:05:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829C**	QC Batch: **81849**			PrepDate:		**8/21/2020**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	8/29/2020 06:46 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829B**	QC Batch: **81872**			PrepDate:		**8/22/2020**	Analyst: **DJ**
Iron	28	18	20		ug/L	1	8/29/2020 09:47 AM

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

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ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-BNS-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 9:58:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829C**	QC Batch: **81849**				PrepDate:	**8/21/2020**	Analyst: **DJ**
Iron	23	18	20		ug/L	1	8/29/2020 04:13 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829B**	QC Batch: **81872**				PrepDate:	**8/22/2020**	Analyst: **DJ**
Iron	51	18	20		ug/L	1	8/29/2020 09:51 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-D-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 8:31:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829C**	QC Batch: **81849**			PrepDate:		**8/21/2020**	Analyst: **DJ**
Iron	51	18	20		ug/L	1	8/29/2020 04:17 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829B**	QC Batch: **81872**			PrepDate:		**8/22/2020**	Analyst: **DJ**
Iron	56	18	20		ug/L	1	8/29/2020 09:55 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-S-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 8:46:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829C**	QC Batch: **81849**				PrepDate:	**8/21/2020**	Analyst: **DJ**
Iron	38	18	20		ug/L	1	8/29/2020 11:32 AM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829B**	QC Batch: **81872**				PrepDate:	**8/22/2020**	Analyst: **DJ**
Iron	40	18	20		ug/L	1	8/29/2020 09:58 AM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041912
Project: PG&E Topock - RMP, RC000753 0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID **MB-81849** SampType: **MBLK** TestCode: **6010_WDPG** Units: **ug/L** Prep Date: **8/21/2020** RunNo: **147022**
Client ID: **PBW** Batch ID: **81849** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **8/29/2020** SeqNo: **3920052**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	ND	20									

Sample ID **LCS-81849** SampType: **LCS** TestCode: **6010_WDPG** Units: **ug/L** Prep Date: **8/21/2020** RunNo: **147022**
Client ID: **LCSW** Batch ID: **81849** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **8/29/2020** SeqNo: **3920053**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	98.431	20	100.0	0	98.4	85	115				

Sample ID **N041912-001B-MS** SampType: **MS** TestCode: **6010_WDPG** Units: **ug/L** Prep Date: **8/21/2020** RunNo: **147022**
Client ID: **ZZZZZZ** Batch ID: **81849** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **8/29/2020** SeqNo: **3920059**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	101.661	20	100.0	25.56	76.1	75	125				

Sample ID **N041912-001B-MSD** SampType: **MSD** TestCode: **6010_WDPG** Units: **ug/L** Prep Date: **8/21/2020** RunNo: **147022**
Client ID: **ZZZZZZ** Batch ID: **81849** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **8/29/2020** SeqNo: **3920060**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	100.395	20	100.0	25.56	74.8	75	125	101.7	1.25	20	S

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041912
Project: PG&E Topock - RMP, RC000753 0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPGEPPB

Sample ID	MB-81872	SampType:	MBLK	TestCode:	6010_WPGE	Units:	ug/L	Prep Date:	8/22/2020	RunNo:	147021
Client ID:	PBW	Batch ID:	81872	TestNo:	EPA 6010B	EPA 3010A		Analysis Date:	8/29/2020	SeqNo:	3919897

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	ND	20									

Sample ID	LCS-81872	SampType:	LCS	TestCode:	6010_WPGE	Units:	ug/L	Prep Date:	8/22/2020	RunNo:	147021
Client ID:	LCSW	Batch ID:	81872	TestNo:	EPA 6010B	EPA 3010A		Analysis Date:	8/29/2020	SeqNo:	3919898

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	109.370	20	100.0	0	109	85	115				

Sample ID	N041912-001C-MS	SampType:	MS	TestCode:	6010_WPGE	Units:	ug/L	Prep Date:	8/22/2020	RunNo:	147021
Client ID:	ZZZZZZ	Batch ID:	81872	TestNo:	EPA 6010B	EPA 3010A		Analysis Date:	8/29/2020	SeqNo:	3919902

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	184.584	20	100.0	191.5	-6.88	75	125				S

Sample ID	N041912-001C-MSD	SampType:	MSD	TestCode:	6010_WPGE	Units:	ug/L	Prep Date:	8/22/2020	RunNo:	147021
Client ID:	ZZZZZZ	Batch ID:	81872	TestNo:	EPA 6010B	EPA 3010A		Analysis Date:	8/29/2020	SeqNo:	3919903

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	155.102	20	100.0	191.5	-36.4	75	125	184.6	17.4	20	S

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041912
Project: PG&E Topock - RMP, RC000753 0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID	**N041912-001B-PS**	SampType:	**PS**	TestCode:	**6010_WDPG**	Units:	**ug/L**	Prep Date:				RunNo:	**147022**
Client ID:	**ZZZZZZ**	Batch ID:	**81849**	TestNo:	**EPA 6010B**		**EPA 3010A**	Analysis Date:	**8/29/2020**			SeqNo:	**3920058**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	185.404	20	100.0	25.56	160	80	120				S

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041912
Project: PG&E Topock - RMP, RC000753 0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPGEPPB

Sample ID	**N041912-001C-PS**	SampType:	**PS**	TestCode:	**6010_WPGE**	Units:	**ug/L**	Prep Date:				RunNo:	**147021**
Client ID:	**ZZZZZZ**	Batch ID:	**81872**	TestNo:	**EPA 6010B**		**EPA 3010A**	Analysis Date:	**8/29/2020**			SeqNo:	**3919901**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	294.737	20	100.0	191.5	103	80	120				

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-909-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 10:44:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_200831A**	QC Batch: **81858**				PrepDate:	**8/22/2020**	Analyst: **CEI**
Arsenic	2.6	0.081	0.10		µg/L	1	8/31/2020 08:03 AM
Barium	120	0.15	1.0		µg/L	1	8/31/2020 08:03 AM
Manganese	0.69	0.26	0.50		µg/L	1	8/31/2020 08:03 AM
Molybdenum	4.9	0.21	0.50		µg/L	1	8/31/2020 08:03 AM
Selenium	1.5	0.36	0.50		µg/L	1	8/31/2020 08:03 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-D-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 9:25:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_200831A**	QC Batch: **81858**				PrepDate:	**8/22/2020**	Analyst: **CEI**
Arsenic	2.4	0.081	0.10		µg/L	1	8/31/2020 08:07 AM
Barium	110	0.15	1.0		µg/L	1	8/31/2020 08:07 AM
Manganese	0.65	0.26	0.50		µg/L	1	8/31/2020 08:07 AM
Molybdenum	4.6	0.21	0.50		µg/L	1	8/31/2020 08:07 AM
Selenium	1.4	0.36	0.50		µg/L	1	8/31/2020 08:07 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-S-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 9:41:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_200831A**	QC Batch: **81858**				PrepDate:	**8/22/2020**	Analyst: **CEI**
Arsenic	2.6	0.081	0.10		µg/L	1	8/31/2020 08:12 AM
Barium	110	0.15	1.0		µg/L	1	8/31/2020 08:12 AM
Manganese	0.74	0.26	0.50		µg/L	1	8/31/2020 08:12 AM
Molybdenum	4.8	0.21	0.50		µg/L	1	8/31/2020 08:12 AM
Selenium	1.4	0.36	0.50		µg/L	1	8/31/2020 08:12 AM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-D-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 10:21:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_200831A**	QC Batch: **81858**				PrepDate:	**8/22/2020**	Analyst: **CEI**
Arsenic	2.4	0.081	0.10		µg/L	1	8/31/2020 08:17 AM
Barium	110	0.15	1.0		µg/L	1	8/31/2020 08:17 AM
Manganese	0.67	0.26	0.50		µg/L	1	8/31/2020 08:17 AM
Molybdenum	4.6	0.21	0.50		µg/L	1	8/31/2020 08:17 AM
Selenium	1.5	0.36	0.50		µg/L	1	8/31/2020 08:17 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-S-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 10:34:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_200831A**	QC Batch: **81858**				PrepDate:	**8/22/2020**	Analyst: **CEI**
Arsenic	2.4	0.081	0.10		µg/L	1	8/31/2020 08:21 AM
Barium	110	0.15	1.0		µg/L	1	8/31/2020 08:21 AM
Manganese	0.60	0.26	0.50		µg/L	1	8/31/2020 08:21 AM
Molybdenum	4.6	0.21	0.50		µg/L	1	8/31/2020 08:21 AM
Selenium	1.4	0.36	0.50		µg/L	1	8/31/2020 08:21 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-D-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 7:51:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_200831A**	QC Batch: **81858**				PrepDate:	**8/22/2020**	Analyst: **CEI**
Arsenic	2.5	0.081	0.10		µg/L	1	8/31/2020 08:26 AM
Barium	120	0.15	1.0		µg/L	1	8/31/2020 08:26 AM
Manganese	ND	0.26	0.50		µg/L	1	8/31/2020 08:26 AM
Molybdenum	4.6	0.21	0.50		µg/L	1	8/31/2020 08:26 AM
Selenium	1.5	0.36	0.50		µg/L	1	8/31/2020 08:26 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-S-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 8:05:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_200831A**	QC Batch: **81858**				PrepDate:	**8/22/2020**	Analyst: **CEI**
Arsenic	2.5	0.081	0.10		µg/L	1	8/31/2020 08:30 AM
Barium	110	0.15	1.0		µg/L	1	8/31/2020 08:30 AM
Manganese	0.52	0.26	0.50		µg/L	1	8/31/2020 08:30 AM
Molybdenum	4.6	0.21	0.50		µg/L	1	8/31/2020 08:30 AM
Selenium	1.5	0.36	0.50		µg/L	1	8/31/2020 08:30 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-28-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 10:59:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_200831A**	QC Batch: **81858**				PrepDate:	**8/22/2020**	Analyst: **CEI**
Arsenic	2.5	0.081	0.10		µg/L	1	8/31/2020 08:35 AM
Barium	110	0.15	1.0		µg/L	1	8/31/2020 08:35 AM
Manganese	0.95	0.26	0.50		µg/L	1	8/31/2020 08:35 AM
Molybdenum	4.7	0.21	0.50		µg/L	1	8/31/2020 08:35 AM
Selenium	1.5	0.36	0.50		µg/L	1	8/31/2020 08:35 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R63-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 9:05:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_200831A**	QC Batch: **81858**				PrepDate:	**8/22/2020**	Analyst: **CEI**
Arsenic	2.6	0.081	0.10		µg/L	1	8/31/2020 08:49 AM
Barium	120	0.15	1.0		µg/L	1	8/31/2020 08:49 AM
Manganese	2.4	0.26	0.50		µg/L	1	8/31/2020 08:49 AM
Molybdenum	4.9	0.21	0.50		µg/L	1	8/31/2020 08:49 AM
Selenium	1.5	0.36	0.50		µg/L	1	8/31/2020 08:49 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-BNS-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 9:58:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_200831A**	QC Batch: **81858**				PrepDate:	**8/22/2020**	Analyst: **CEI**
Arsenic	2.6	0.081	0.10		µg/L	1	8/31/2020 08:54 AM
Barium	120	0.15	1.0		µg/L	1	8/31/2020 08:54 AM
Manganese	0.54	0.26	0.50		µg/L	1	8/31/2020 08:54 AM
Molybdenum	4.7	0.21	0.50		µg/L	1	8/31/2020 08:54 AM
Selenium	1.5	0.36	0.50		µg/L	1	8/31/2020 08:54 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-D-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 8:31:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_200831A**	QC Batch: **81858**				PrepDate:	**8/22/2020**	Analyst: **CEI**
Arsenic	2.6	0.081	0.10		µg/L	1	8/31/2020 08:58 AM
Barium	120	0.15	1.0		µg/L	1	8/31/2020 08:58 AM
Manganese	0.62	0.26	0.50		µg/L	1	8/31/2020 08:58 AM
Molybdenum	4.8	0.21	0.50		µg/L	1	8/31/2020 08:58 AM
Selenium	1.6	0.36	0.50		µg/L	1	8/31/2020 08:58 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *02-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-S-Q320
Lab Order:	N041912	**Collection Date:**	8/19/2020 8:46:00 AM
Project:	PG&E Topock - RMP, RC000753 0801	**Matrix:**	GROUNDWATER
Lab ID:	N041912-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_200831A**	QC Batch: **81858**				PrepDate:	**8/22/2020**	Analyst: **CEI**
Arsenic	2.5	0.081	0.10		µg/L	1	8/31/2020 09:03 AM
Barium	120	0.15	1.0		µg/L	1	8/31/2020 09:03 AM
Manganese	ND	0.26	0.50		µg/L	1	8/31/2020 09:03 AM
Molybdenum	4.7	0.21	0.50		µg/L	1	8/31/2020 09:03 AM
Selenium	1.6	0.36	0.50		µg/L	1	8/31/2020 09:03 AM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041912
Project: PG&E Topock - RMP, RC000753 0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID **MB-81858** SampType: **MBLK** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **8/22/2020** RunNo: **147077**
Client ID: **PBW** Batch ID: **81858** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **8/31/2020** SeqNo: **3922740**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID **LCS-81858** SampType: **LCS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **8/22/2020** RunNo: **147077**
Client ID: **LCSW** Batch ID: **81858** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **8/31/2020** SeqNo: **3922741**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.362	0.10	10.00	0	104	85	115				
Barium	10.347	1.0	10.00	0	103	85	115				
Manganese	102.150	0.50	100.0	0	102	85	115				
Molybdenum	10.235	0.50	10.00	0	102	85	115				
Selenium	10.028	0.50	10.00	0	100	85	115				

Sample ID **N041912-001B-MS** SampType: **MS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **8/22/2020** RunNo: **147077**
Client ID: **ZZZZZZ** Batch ID: **81858** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **8/31/2020** SeqNo: **3922758**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	13.023	0.10	10.00	2.640	104	75	125				
Barium	122.426	1.0	10.00	116.9	55.1	75	125				S
Manganese	103.669	0.50	100.0	0.6892	103	75	125				
Molybdenum	15.699	0.50	10.00	4.865	108	75	125				
Selenium	11.048	0.50	10.00	1.510	95.4	75	125				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041912
Project: PG&E Topock - RMP, RC000753 0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID **N041912-001B-MSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **8/22/2020** RunNo: **147077**
Client ID: **ZZZZZZ** Batch ID: **81858** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **8/31/2020** SeqNo: **3922759**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	13.124	0.10	10.00	2.640	105	75	125	13.02	0.779	20	
Barium	121.447	1.0	10.00	116.9	45.3	75	125	122.4	0.803	20	S
Manganese	103.503	0.50	100.0	0.6892	103	75	125	103.7	0.160	20	
Molybdenum	15.709	0.50	10.00	4.865	108	75	125	15.70	0.0625	20	
Selenium	11.151	0.50	10.00	1.510	96.4	75	125	11.05	0.928	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041912
Project: PG&E Topock - RMP, RC000753 0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID **N041912-001B-PS** SampType: **PS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: RunNo: **147077**
Client ID: **ZZZZZZ** Batch ID: **81858** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **8/31/2020** SeqNo: **3922757**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	13.016	0.10	10.00	2.640	104	80	120				
Barium	120.102	1.0	10.00	116.9	31.9	80	120				S
Manganese	102.372	0.50	100.0	0.6892	102	80	120				
Molybdenum	15.402	0.50	10.00	4.865	105	80	120				
Selenium	11.538	0.50	10.00	1.510	100	80	120				

Qualifiers:

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

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

Contact us:
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691
California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F:562.219.7436
www.assetlaboratories.com

Client: Arcadis
Address: 1410 Rocky Ridge Dr # 330
Address: Roseville, CA 95661
Phone: 916-786-3302 Fax:
Submitted By: Reggie Tey
Title: Field Tech
Signature: Date: 8/19/20
I hereby authorize ASSET Labs to perform the tests indicated below.

Report to: Dan Bush
Company: Arcadis
Email: dan.bush@arcadis.com
daniel.moore@critigen.com
Address: 1410 Rocky Ridge Dr # 330
Roseville, CA 95661
Phone: 916-786-3302 Fax:
Sampled By: Reggie Tey
I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
Signature: Date: 8/19/20

Project Name: PG&E Topock - RMP
Project Number: RC000753.0801

Bill to: Marty Bloes
Address:
Address:
Email to: mbloes@pivox.com P.O.#
Phone: 949-727-1400, ext 200 Fax:

EDD Requirement: Excel EDD; Geotracker; Labspec; Others ✓; Specify: RWQCB
Global ID:

QA/QC: RTNE; RWQCB ✓; CalTrans; LEVEL III; LEVEL IV; Regulatory
Specify State:

Sample Receipt Condition (Y N):
1. Chilled ✓
2. Headspace
3. Container Intact ✓
4. Seal Present ✓
5. IR number
6. Method of Cooling: Ice
Sample Temp: 5.1°/4.6°/4.3°

Courier:
Tracking No.:

Matrix: Ground x; Sediment; Potable; Soil; NPDES; Other Solid; Surface

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (3x250 mL poly)	Field QC Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (TRUE)	Dissolved metals (SW6010B/SW6020Acids) FF; HNO3 Cr (3x500mL poly)	Dissolved metals (SW6010B/SW6020Acids) FF; HNO3 Ca, Mg, K, Na, B (3x500mL poly)	Dissolved metals (SW6010B/SW6020Acids) FF; HNO3 As, Mn, Fe, Se, Mo, Ba (3x500mL poly)	Total metals (SW6010B), HNO3 Fe (500 mL poly)	Anions (E300.0); Br, Cl, SO4 (1 liter poly)	Specific Conductance (E120.1) (1 liter poly)	pH (SM4500HB) (1 liter poly)	TDS (SM2540C) (1 liter poly)	Alkalinity (Total, reported as CaCO3) (SM2320B) (1 liter poly)	TSS (SM2540) (1 liter poly)	Nitrate/Nitrite (SM4500N03) Nitrogen; H2SO4 (125 mL poly)	Oxygen and deuterium stable isotopes (CFIRM) (1 250 mL poly)	TRUE	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
1	N041912-01	MW-909-Q320	8/19/2020	10:44		X		X		X	X		X	X			X	X			E	7	P	BNS	
2	-02	C-R22A-D-Q320	8/19/2020	9:25		X		X		X	X		X	X			X	X			E	7	P	BNS	
3	-03	C-R22A-S-Q320	8/19/2020	9:41		X		X		X	X		X	X			X	X			E	7	P	BNS	
4	-04	C-R27-D-Q220	8/19/2020	10:21		X		X		X	X		X	X			X	X			E	7	P	BNS	
5	-05	C-R27-S-Q320	8/19/2020	10:34		X		X		X	X		X	X			X	X			E	7	P	BNS	
	-06	C-TAZ-D-Q320	8/19/2020	7:51		X		X		X	X		X	X			X	X			E	7	P	BNS	
7	-07	AB1-1-Q320	8/19/2020	10:47			X														E	1	P	BNS	
8	-08	C-TAZ-S-Q320	8/19/2020	8:05		X		X		X	X		X	X			X	X			E	7	P	BNS	
9	-09	AB2-2-Q320	8/19/2020	11:05			X														E	1	P	BNS	
10	-10	R-28-Q320	8/19/2020	10:59		X		X		X	X		X	X			X	X			E	7	P	BNS	
11	-11	R63-Q320	8/19/2020	9:05		X		X		X	X		X	X			X	X			E	7	P	BNS	
12	-12	C-BNS-Q320	8/19/2020	9:58		X		X		X	X		X	X			X	X			E	7	P	BNS	
13	-13	C-I-3-D-Q320	8/19/2020	8:31		X		X		X	X		X	X			X	X			E	7	P	BNS	
14	-14	C-I-3-S-Q320	8/19/2020	8:46		X		X		X	X		X	X			X	X			E	7	P	BNS	

Relinquished by (Signature and Printed Name): Reggie Tey Date/Time: 8/19/20 1540
Relinquished by (Signature and Printed Name): Date/Time: 8/19/20 1540
Relinquished by (Signature and Printed Name): Date/Time: 8/19/20 1800
Relinquished by (Signature and Printed Name): Leandra Rodriguez Date/Time: 8/19/20 1800
Relinquished by (Signature and Printed Name): Date/Time:
Relinquished by (Signature and Printed Name): Date/Time:

Turn Around Time (TAT):
- A < 24 Hrs or Same Day TAT
- B = Next Workday
- C = 2 Workdays
- D = 3 Workdays
- X E = Routine 5-7 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Special Instruction:

Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
Less than 24 Hrs=200% Next Day=100% 2 Workdays=50% 3 Workdays=35% 4 Workdays=20%
3. Custom EDD formats will be an additional 3% of the total project price.
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.

5. Trip Blanks and Equipment Blanks are billable sample.
6. Asset Laboratories is not responsible for samples collected using incorrect methodology;.
7. Terms are net 30 days
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed
9. For subcontract analysis, TAT and Surcharges will vary.

Preservatives:
H=HCL; N=HNO_3; S=H_2SO_4; C=4°C
Z=Zn(AC)$_2$; O=NaOH; T=$Na_2S_2O_3$
Others/Specify: B (NH4)2SO4/NH4OH

Container Type:
T=Tube; V=VOA; P=Pint
J=Jar; B=Tedlar; G=Glass
M=Metal; M=Metal; C=Can

White=Laboratory Copy
Yellow=Customer's Copy

ASSET Laboratories

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

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

Cooler Received/Opened On:	8/19/2020	Workorder:	N041912
Rep sample Temp (Deg C):	5.1/4.6/4.3	IR Gun ID:	2
Temp Blank:	☑ Yes ☐ No		
Carrier name:	ASSET		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

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

Comments: Samples received for pH past holding time.
See Correspondence.

Checklist Completed By: YR YRJ 8/24/2020

Reviewed By: _____

Subject: RE: PG&E Topock - RMP RC000753 0801 (ASSET Labs No. N041912)
From: "Madsen, Laura" <Laura.Madsen@arcadis.com>
Date: 8/24/2020, 9:56 AM
To: Yoandra Rodriguez <yoandra@assetlaboratories.com>
CC: Tina Rice <Tina.Rice@critigen.com>, "maryann.balilu@assetlaboratoriesph.com" <maryann.balilu@assetlaboratoriesph.com>, "sonny.lorenzo@assetlaboratories.com" <sonny.lorenzo@assetlaboratories.com>

Hi Yoandra,
The COC had a typo and the ID should have "Q320".

Thanks,
Laura

-----Original Message-----
From: Yoandra Rodriguez <yoandra@assetlaboratories.com>
Sent: Monday, August 24, 2020 11:55 AM
To: Madsen, Laura <Laura.Madsen@arcadis.com>
Cc: Tina Rice <Tina.Rice@critigen.com>; maryann.balilu@assetlaboratoriesph.com; sonny.lorenzo@assetlaboratories.com
Subject: PG&E Topock - RMP RC000753 0801 (ASSET Labs No. N041912)

Hi Laura,

Please kindly advise on the following discrepancy on the attached COC:

- Sample 4: ID is C-R27-D-Q220 on COC and C-R27-D-Q320 on sample labels.

Thanks,

--
This email has been checked for viruses by Avast antivirus software.
https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.avast.com%2Fantivirus&data=02%7C01%7C%7C5e9bc83070d94ed5efd308d8484e6b47%7C7f90057d3ea046feb07ce0568627081b%7C0%7C0%7C6373388492222299amp;sdata=LpLEbx5uE6sf4T36O2%2FnikNUxH17jOMe4y97PU4YRws%3D&reserved=0
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ASSET Laboratories

WORK ORDER Summary

31-Aug-20

WorkOrder: N041912

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753 0801 **QC Level:** Level IV **Date Received:** 8/19/2020

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N041912-001A	MW-909-Q320	8/19/2020 10:44:00 AM	8/31/2020	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N041912-001B			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			8/31/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			8/31/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N041912-001C			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N041912-001D			8/31/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			8/31/2020		SM4500-H+B	pH	☐	☐	☐	WW
			8/31/2020		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			8/31/2020			Total Suspended Solids Prep	☐	☐	☐	WW
N041912-001E			8/31/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N041912-002A	C-R22A-D-Q320	8/19/2020 9:25:00 AM	8/31/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N041912-002B			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			8/31/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			8/31/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N041912-002C			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N041912-002D			8/31/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

31-Aug-20

WorkOrder: N041912

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753 0801 **QC Level:** Level IV **Date Received:** 8/19/2020

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N041912-002D	C-R22A-D-Q320	8/19/2020 9:25:00 AM	8/31/2020	Groundwater	SM4500-H+B	pH	☐	☐	☐	WW
			8/31/2020		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			8/31/2020			Total Suspended Solids Prep	☐	☐	☐	WW
N041912-002E			8/31/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N041912-003A	C-R22A-S-Q320	8/19/2020 9:41:00 AM	8/31/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N041912-003B			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			8/31/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			8/31/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N041912-003C			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N041912-003D			8/31/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			8/31/2020		SM4500-H+B	pH	☐	☐	☐	WW
			8/31/2020		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			8/31/2020			Total Suspended Solids Prep	☐	☐	☐	WW
N041912-003E			8/31/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N041912-004A	C-R27-D-Q320	8/19/2020 10:21:00 AM	8/31/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N041912-004B			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

31-Aug-20

WorkOrder: N041912

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753 0801 **QC Level:** Level IV **Date Received:** 8/19/2020

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N041912-004B	C-R27-D-Q320	8/19/2020 10:21:00 AM	8/31/2020	Groundwater	EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			8/31/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N041912-004C			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N041912-004D			8/31/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			8/31/2020		SM4500-H+B	pH	☐	☐	☐	WW
			8/31/2020		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			8/31/2020			Total Suspended Solids Prep	☐	☐	☐	WW
N041912-004E			8/31/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N041912-005A	C-R27-S-Q320	8/19/2020 10:34:00 AM	8/31/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N041912-005B			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			8/31/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			8/31/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N041912-005C			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N041912-005D			8/31/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			8/31/2020		SM4500-H+B	pH	☐	☐	☐	WW
			8/31/2020		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			8/31/2020			Total Suspended Solids Prep	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

31-Aug-20

WorkOrder: N041912

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753 0801 **QC Level:** Level IV **Date Received:** 8/19/2020

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N041912-005E	C-R27-S-Q320	8/19/2020 10:34:00 AM	8/31/2020	Groundwater	SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N041912-006A	C-TAZ-D-Q320	8/19/2020 7:51:00 AM	8/31/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N041912-006B			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			8/31/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			8/31/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N041912-006C			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N041912-006D			8/31/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			8/31/2020		SM4500-H+B	pH	☐	☐	☐	WW
			8/31/2020		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			8/31/2020			Total Suspended Solids Prep	☐	☐	☐	WW
N041912-006E			8/31/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N041912-007A	AB1-1-Q320	8/19/2020 10:47:00 AM	8/31/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N041912-008A	C-TAZ-S-Q320	8/19/2020 8:05:00 AM	8/31/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N041912-008B			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			8/31/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			8/31/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

31-Aug-20

WorkOrder: N041912

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753 0801 **QC Level:** Level IV **Date Received:** 8/19/2020

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N041912-008C	C-TAZ-S-Q320	8/19/2020 8:05:00 AM	8/31/2020	Groundwater	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N041912-008D			8/31/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			8/31/2020		SM4500-H+B	pH	☐	☐	☐	WW
			8/31/2020		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			8/31/2020			Total Suspended Solids Prep	☐	☐	☐	WW
N041912-008E			8/31/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N041912-009A	AB2-2-Q320	8/19/2020 11:05:00 AM	8/31/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N041912-010A	R-28-Q320	8/19/2020 10:59:00 AM	8/31/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N041912-010B			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			8/31/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			8/31/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N041912-010C			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N041912-010D			8/31/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			8/31/2020		SM4500-H+B	pH	☐	☐	☐	WW
			8/31/2020		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			8/31/2020			Total Suspended Solids Prep	☐	☐	☐	WW
N041912-010E			8/31/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

31-Aug-20

WorkOrder: N041912

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753 0801 **QC Level:** Level IV **Date Received:** 8/19/2020

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N041912-011A	R63-Q320	8/19/2020 9:05:00 AM	8/31/2020	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N041912-011B			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			8/31/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			8/31/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N041912-011C			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N041912-011D			8/31/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			8/31/2020		SM4500-H+B	pH	☐	☐	☐	WW
			8/31/2020		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			8/31/2020			Total Suspended Solids Prep	☐	☐	☐	WW
N041912-011E			8/31/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N041912-012A	C-BNS-Q320	8/19/2020 9:58:00 AM	8/31/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N041912-012B			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			8/31/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			8/31/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N041912-012C			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N041912-012D			8/31/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

31-Aug-20

WorkOrder: N041912

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753 0801 **QC Level:** Level IV **Date Received:** 8/19/2020

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N041912-012D	C-BNS-Q320	8/19/2020 9:58:00 AM	8/31/2020	Groundwater	SM4500-H+B	pH	☐	☐	☐	WW
			8/31/2020		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			8/31/2020			Total Suspended Solids Prep	☐	☐	☐	WW
N041912-012E			8/31/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N041912-013A	C-I-3-D-Q320	8/19/2020 8:31:00 AM	8/31/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N041912-013B			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			8/31/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			8/31/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N041912-013C			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N041912-013D			8/31/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			8/31/2020		SM4500-H+B	pH	☐	☐	☐	WW
			8/31/2020		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			8/31/2020			Total Suspended Solids Prep	☐	☐	☐	WW
N041912-013E			8/31/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N041912-014A	C-I-3-S-Q320	8/19/2020 8:46:00 AM	8/31/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N041912-014B			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

31-Aug-20

WorkOrder: N041912

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753 0801 **QC Level:** Level IV **Date Received:** 8/19/2020

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N041912-014B	C-I-3-S-Q320	8/19/2020 8:46:00 AM	8/31/2020	Groundwater	EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			8/31/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N041912-014C			8/31/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			8/31/2020		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N041912-014D			8/31/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			8/31/2020		SM4500-H+B	pH	☐	☐	☐	WW
			8/31/2020		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			8/31/2020			Total Suspended Solids Prep	☐	☐	☐	WW
N041912-014E			8/31/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N041912-015A	FOLDER	9/2/2020	8/31/2020		EDD	RWQCB	☐	☐	☐	LAB
			8/31/2020		Folder	Level IV Report	☐	☐	☐	LAB
			8/31/2020		Folder	Folder	☐	☐	☐	LAB
			9/2/2020		Folder	Folder	☐	☐	☐	LAB

September 09, 2020

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661

TEL: (916) 786-3302
FAX:

Workorder No.: N041932

RE: PG&E Topock - RMP, RC000753.801D

Attention: Dan Bush

Enclosed are the results for sample(s) received on August 20, 2020 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Nancy Sibucao
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - Las Vegas.

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

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

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

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

Samples were analyzed within method holding time except for pH. pH testing is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

Sample N041932-017 was on-hold as per COC, thus sample was not analyzed.

Analytical Comments for EPA 6010B_Dissolved:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Iron in QC samples N041932-004BMS and N041932-004BMSD possibly due to matrix interference. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 6010B_Total:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Iron in QC samples N041932-004CMS and N041932-004CMSD possibly due to matrix interference. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 6020_Dissolved:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Barium in QC samples N041932-007BMS and N041932-007BMSD possibly due to matrix interference. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

ASSET Laboratories

Date: *09-Sep-20*

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RMP, RC000753.801D
Lab Order: N041932
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N041932-001A	C-CON-D-Q320	Groundwater	8/20/2020 8:40:00 AM	8/20/2020	9/9/2020
N041932-001B	C-CON-D-Q320	Groundwater	8/20/2020 8:40:00 AM	8/20/2020	9/9/2020
N041932-001C	C-CON-D-Q320	Groundwater	8/20/2020 8:40:00 AM	8/20/2020	9/9/2020
N041932-001D	C-CON-D-Q320	Groundwater	8/20/2020 8:40:00 AM	8/20/2020	9/9/2020
N041932-001E	C-CON-D-Q320	Groundwater	8/20/2020 8:40:00 AM	8/20/2020	9/9/2020
N041932-002A	C-CON-S-Q320	Groundwater	8/20/2020 8:54:00 AM	8/20/2020	9/9/2020
N041932-002B	C-CON-S-Q320	Groundwater	8/20/2020 8:54:00 AM	8/20/2020	9/9/2020
N041932-002C	C-CON-S-Q320	Groundwater	8/20/2020 8:54:00 AM	8/20/2020	9/9/2020
N041932-002D	C-CON-S-Q320	Groundwater	8/20/2020 8:54:00 AM	8/20/2020	9/9/2020
N041932-002E	C-CON-S-Q320	Groundwater	8/20/2020 8:54:00 AM	8/20/2020	9/9/2020
N041932-003A	C-NR4-S-Q320	Groundwater	8/20/2020 10:57:00 AM	8/20/2020	9/9/2020
N041932-003B	C-NR4-S-Q320	Groundwater	8/20/2020 10:57:00 AM	8/20/2020	9/9/2020
N041932-003C	C-NR4-S-Q320	Groundwater	8/20/2020 10:57:00 AM	8/20/2020	9/9/2020
N041932-003D	C-NR4-S-Q320	Groundwater	8/20/2020 10:57:00 AM	8/20/2020	9/9/2020
N041932-003E	C-NR4-S-Q320	Groundwater	8/20/2020 10:57:00 AM	8/20/2020	9/9/2020
N041932-004A	C-NR1-D-Q320	Groundwater	8/20/2020 9:17:00 AM	8/20/2020	9/9/2020
N041932-004B	C-NR1-D-Q320	Groundwater	8/20/2020 9:17:00 AM	8/20/2020	9/9/2020
N041932-004C	C-NR1-D-Q320	Groundwater	8/20/2020 9:17:00 AM	8/20/2020	9/9/2020
N041932-004D	C-NR1-D-Q320	Groundwater	8/20/2020 9:17:00 AM	8/20/2020	9/9/2020
N041932-004E	C-NR1-D-Q320	Groundwater	8/20/2020 9:17:00 AM	8/20/2020	9/9/2020
N041932-005A	C-NR1-S-Q320	Groundwater	8/20/2020 9:33:00 AM	8/20/2020	9/9/2020
N041932-005B	C-NR1-S-Q320	Groundwater	8/20/2020 9:33:00 AM	8/20/2020	9/9/2020
N041932-005C	C-NR1-S-Q320	Groundwater	8/20/2020 9:33:00 AM	8/20/2020	9/9/2020
N041932-005D	C-NR1-S-Q320	Groundwater	8/20/2020 9:33:00 AM	8/20/2020	9/9/2020
N041932-005E	C-NR1-S-Q320	Groundwater	8/20/2020 9:33:00 AM	8/20/2020	9/9/2020
N041932-006A	C-NR3-D-Q320	Groundwater	8/20/2020 9:56:00 AM	8/20/2020	9/9/2020
N041932-006B	C-NR3-D-Q320	Groundwater	8/20/2020 9:56:00 AM	8/20/2020	9/9/2020
N041932-006C	C-NR3-D-Q320	Groundwater	8/20/2020 9:56:00 AM	8/20/2020	9/9/2020
N041932-006D	C-NR3-D-Q320	Groundwater	8/20/2020 9:56:00 AM	8/20/2020	9/9/2020

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RMP, RC000753.801D
Lab Order: N041932
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N041932-006E	C-NR3-D-Q320	Groundwater	8/20/2020 9:56:00 AM	8/20/2020	9/9/2020
N041932-007A	C-MAR-D-Q320	Groundwater	8/20/2020 7:25:00 AM	8/20/2020	9/9/2020
N041932-007B	C-MAR-D-Q320	Groundwater	8/20/2020 7:25:00 AM	8/20/2020	9/9/2020
N041932-007C	C-MAR-D-Q320	Groundwater	8/20/2020 7:25:00 AM	8/20/2020	9/9/2020
N041932-007D	C-MAR-D-Q320	Groundwater	8/20/2020 7:25:00 AM	8/20/2020	9/9/2020
N041932-007E	C-MAR-D-Q320	Groundwater	8/20/2020 7:25:00 AM	8/20/2020	9/9/2020
N041932-008A	C-MAR-S-Q320	Groundwater	8/20/2020 7:47:00 AM	8/20/2020	9/9/2020
N041932-008B	C-MAR-S-Q320	Groundwater	8/20/2020 7:47:00 AM	8/20/2020	9/9/2020
N041932-008C	C-MAR-S-Q320	Groundwater	8/20/2020 7:47:00 AM	8/20/2020	9/9/2020
N041932-008D	C-MAR-S-Q320	Groundwater	8/20/2020 7:47:00 AM	8/20/2020	9/9/2020
N041932-008E	C-MAR-S-Q320	Groundwater	8/20/2020 7:47:00 AM	8/20/2020	9/9/2020
N041932-009A	C-NR3-S-Q320	Groundwater	8/20/2020 10:11:00 AM	8/20/2020	9/9/2020
N041932-009B	C-NR3-S-Q320	Groundwater	8/20/2020 10:11:00 AM	8/20/2020	9/9/2020
N041932-009C	C-NR3-S-Q320	Groundwater	8/20/2020 10:11:00 AM	8/20/2020	9/9/2020
N041932-009D	C-NR3-S-Q320	Groundwater	8/20/2020 10:11:00 AM	8/20/2020	9/9/2020
N041932-009E	C-NR3-S-Q320	Groundwater	8/20/2020 10:11:00 AM	8/20/2020	9/9/2020
N041932-010A	R-19-Q320	Groundwater	8/20/2020 8:14:00 AM	8/20/2020	9/9/2020
N041932-010B	R-19-Q320	Groundwater	8/20/2020 8:14:00 AM	8/20/2020	9/9/2020
N041932-010C	R-19-Q320	Groundwater	8/20/2020 8:14:00 AM	8/20/2020	9/9/2020
N041932-010D	R-19-Q320	Groundwater	8/20/2020 8:14:00 AM	8/20/2020	9/9/2020
N041932-010E	R-19-Q320	Groundwater	8/20/2020 8:14:00 AM	8/20/2020	9/9/2020
N041932-011A	RRB-Q320	Groundwater	8/20/2020 11:20:00 AM	8/20/2020	9/9/2020
N041932-011B	RRB-Q320	Groundwater	8/20/2020 11:20:00 AM	8/20/2020	9/9/2020
N041932-011C	RRB-Q320	Groundwater	8/20/2020 11:20:00 AM	8/20/2020	9/9/2020
N041932-011D	RRB-Q320	Groundwater	8/20/2020 11:20:00 AM	8/20/2020	9/9/2020
N041932-011E	RRB-Q320	Groundwater	8/20/2020 11:20:00 AM	8/20/2020	9/9/2020
N041932-012A	MW-908-Q320	Groundwater	8/20/2020 7:35:00 AM	8/20/2020	9/9/2020
N041932-012B	MW-908-Q320	Groundwater	8/20/2020 7:35:00 AM	8/20/2020	9/9/2020
N041932-012C	MW-908-Q320	Groundwater	8/20/2020 7:35:00 AM	8/20/2020	9/9/2020
N041932-012D	MW-908-Q320	Groundwater	8/20/2020 7:35:00 AM	8/20/2020	9/9/2020

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RMP, RC000753.801D
Lab Order: N041932
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N041932-012E	MW-908-Q320	Groundwater	8/20/2020 7:35:00 AM	8/20/2020	9/9/2020
N041932-013A	MW-910-Q320	Groundwater	8/20/2020 10:47:00 AM	8/20/2020	9/9/2020
N041932-013B	MW-910-Q320	Groundwater	8/20/2020 10:47:00 AM	8/20/2020	9/9/2020
N041932-013C	MW-910-Q320	Groundwater	8/20/2020 10:47:00 AM	8/20/2020	9/9/2020
N041932-013D	MW-910-Q320	Groundwater	8/20/2020 10:47:00 AM	8/20/2020	9/9/2020
N041932-013E	MW-910-Q320	Groundwater	8/20/2020 10:47:00 AM	8/20/2020	9/9/2020
N041932-014A	C-NR4-D-Q320	Groundwater	8/20/2020 10:37:00 AM	8/20/2020	9/9/2020
N041932-014B	C-NR4-D-Q320	Groundwater	8/20/2020 10:37:00 AM	8/20/2020	9/9/2020
N041932-014C	C-NR4-D-Q320	Groundwater	8/20/2020 10:37:00 AM	8/20/2020	9/9/2020
N041932-014D	C-NR4-D-Q320	Groundwater	8/20/2020 10:37:00 AM	8/20/2020	9/9/2020
N041932-014E	C-NR4-D-Q320	Groundwater	8/20/2020 10:37:00 AM	8/20/2020	9/9/2020
N041932-015A	SW1-Q320	Groundwater	8/20/2020 2:10:00 PM	8/20/2020	9/9/2020
N041932-015B	SW1-Q320	Groundwater	8/20/2020 2:10:00 PM	8/20/2020	9/9/2020
N041932-015C	SW1-Q320	Groundwater	8/20/2020 2:10:00 PM	8/20/2020	9/9/2020
N041932-016A	SW2-Q320	Groundwater	8/20/2020 2:27:00 PM	8/20/2020	9/9/2020
N041932-016B	SW2-Q320	Groundwater	8/20/2020 2:27:00 PM	8/20/2020	9/9/2020
N041932-016C	SW2-Q320	Groundwater	8/20/2020 2:27:00 PM	8/20/2020	9/9/2020
N041932-017A	AB3-3-Q320	GroundWater	8/20/2020 11:00:00 AM	8/20/2020	9/9/2020

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 8:40:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200820E**	QC Batch: **R146792**			PrepDate:			Analyst: **LR**
Specific Conductance	820	0.10	0.10		umhos/cm	1	8/20/2020 08:45 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 8:54:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200820E**	QC Batch: **R146792**			PrepDate:			Analyst: **LR**
Specific Conductance	770	0.10	0.10		umhos/cm	1	8/20/2020 08:45 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 10:57:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200820E**	QC Batch: **R146792**			PrepDate:			Analyst: **LR**
Specific Conductance	820	0.10	0.10		umhos/cm	1	8/20/2020 08:45 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 9:17:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200820E**	QC Batch: **R146792**			PrepDate:			Analyst: **LR**
Specific Conductance	750	0.10	0.10		umhos/cm	1	8/20/2020 08:45 PM

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 9:33:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200820E**	QC Batch: **R146792**			PrepDate:			Analyst: **LR**
Specific Conductance	780	0.10	0.10		umhos/cm	1	8/20/2020 08:45 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 9:56:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200820E**	QC Batch: **R146792**			PrepDate:			Analyst: **LR**
Specific Conductance	800	0.10	0.10		umhos/cm	1	8/20/2020 08:45 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 7:25:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
EPA 120.1							
RunID: **NV00922-WC_200820E** QC Batch: **R146792** PrepDate: Analyst: **LR**							
Specific Conductance	840	0.10	0.10		umhos/cm	1	8/20/2020 08:45 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 7:47:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200820E**	QC Batch: **R146792**			PrepDate:			Analyst: **LR**
Specific Conductance	790	0.10	0.10		umhos/cm	1	8/20/2020 08:45 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 10:11:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-009		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200820E**	QC Batch: **R146792**			PrepDate:			Analyst: **LR**
Specific Conductance	800	0.10	0.10		umhos/cm	1	8/20/2020 08:45 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-19-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 8:14:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200820E**	QC Batch: **R146792**			PrepDate:			Analyst: **LR**
Specific Conductance	800	0.10	0.10		umhos/cm	1	8/20/2020 08:45 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	RRB-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 11:20:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200820E**	QC Batch: **R146792**			PrepDate:			Analyst: **LR**
Specific Conductance	850	0.10	0.10		umhos/cm	1	8/20/2020 08:45 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-908-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 7:35:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200820E**	QC Batch: **R146792**			PrepDate:			Analyst: **LR**
Specific Conductance	800	0.10	0.10		umhos/cm	1	8/20/2020 08:45 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-910-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 10:47:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200820E**	QC Batch: **R146792**			PrepDate:			Analyst: **LR**
Specific Conductance	780	0.10	0.10		umhos/cm	1	8/20/2020 08:45 PM

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

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N041932
Project: PG&E Topock - RMP, RC000753.801D
Lab ID: N041932-014

Client Sample ID: C-NR4-D-Q320
Collection Date: 8/20/2020 10:37:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
EPA 120.1							
RunID: **NV00922-WC_200820E** QC Batch: **R146792** PrepDate: Analyst: **LR**							
Specific Conductance	850	0.10	0.10		umhos/cm	1	8/20/2020 08:45 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	SW1-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 2:10:00 PM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-015		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200820E**	QC Batch: **R146792**			PrepDate:			Analyst: **LR**
Specific Conductance	880	0.10	0.10		umhos/cm	1	8/20/2020 08:45 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	SW2-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 2:27:00 PM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-016		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200820E**	QC Batch: **R146792**			PrepDate:			Analyst: **LR**
Specific Conductance	850	0.10	0.10		umhos/cm	1	8/20/2020 08:45 PM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 120.1_WPGE

Sample ID: **N041932-005DDUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **146792**
Client ID: **ZZZZZZ** Batch ID: **R146792** TestNo: **EPA 120.1** Analysis Date: **8/20/2020** SeqNo: **3907891**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	780.000	0.10						778.0	0.257	2	

Sample ID: **N041932-015CDUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **146792**
Client ID: **ZZZZZZ** Batch ID: **R146792** TestNo: **EPA 120.1** Analysis Date: **8/20/2020** SeqNo: **3907902**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	873.000	0.10						875.0	0.229	2	

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 8:40:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200820D**	QC Batch: **R146791**			PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	8/20/2020 08:35 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	8/20/2020 08:35 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 8:54:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200820D**	QC Batch: **R146791**			PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	8/20/2020 08:35 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	8/20/2020 08:35 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 10:57:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200820D**	QC Batch: **R146791**			PrepDate:			Analyst: **LR**
pH	7.8	0.10	0.10	H	pH Units	1	8/20/2020 08:35 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	8/20/2020 08:35 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 9:17:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200820D**	QC Batch: **R146791**			PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	8/20/2020 08:35 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	8/20/2020 08:35 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N041932
Project: PG&E Topock - RMP, RC000753.801D
Lab ID: N041932-005

Client Sample ID: C-NR1-S-Q320
Collection Date: 8/20/2020 9:33:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200820D**	QC Batch: **R146791**			PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	8/20/2020 08:35 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	8/20/2020 08:35 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 9:56:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200820D**	QC Batch: **R146791**			PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	8/20/2020 08:35 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	8/20/2020 08:35 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 7:25:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200820D**	QC Batch: **R146791**			PrepDate:			Analyst: **LR**
pH	8.1	0.10	0.10	H	pH Units	1	8/20/2020 08:35 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	8/20/2020 08:35 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 7:47:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200820D**	QC Batch: **R146791**			PrepDate:			Analyst: **LR**
pH	8.1	0.10	0.10	H	pH Units	1	8/20/2020 08:35 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	8/20/2020 08:35 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 10:11:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-009		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200820D**	QC Batch: **R146791**			PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	8/20/2020 08:35 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	8/20/2020 08:35 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N041932
Project: PG&E Topock - RMP, RC000753.801D
Lab ID: N041932-010

Client Sample ID: R-19-Q320
Collection Date: 8/20/2020 8:14:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200820D**	QC Batch: **R146791**			PrepDate:			Analyst: **LR**
pH	8.1	0.10	0.10	H	pH Units	1	8/20/2020 08:35 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	8/20/2020 08:35 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	RRB-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 11:20:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200820D**	QC Batch: **R146791**			PrepDate:			Analyst: **LR**
pH	7.7	0.10	0.10	H	pH Units	1	8/20/2020 08:35 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	8/20/2020 08:35 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-908-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 7:35:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200820D**	QC Batch: **R146791**			PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	8/20/2020 08:35 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	8/20/2020 08:35 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-910-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 10:47:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200820D**	QC Batch: **R146791**			PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	8/20/2020 08:35 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	8/20/2020 08:35 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 10:37:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200820D**	QC Batch: **R146791**			PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	8/20/2020 08:35 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	8/20/2020 08:35 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	SW1-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 2:10:00 PM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-015		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200820D**	QC Batch: **R146791**			PrepDate:			Analyst: **LR**
pH	7.7	0.10	0.10	H	pH Units	1	8/20/2020 08:35 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	8/20/2020 08:35 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N041932
Project: PG&E Topock - RMP, RC000753.801D
Lab ID: N041932-016

Client Sample ID: SW2-Q320
Collection Date: 8/20/2020 2:27:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200820D**	QC Batch: **R146791**			PrepDate:			Analyst: **LR**
pH	7.4	0.10	0.10	H	pH Units	1	8/20/2020 08:35 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	8/20/2020 08:35 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 150.1_4500H+B_W

Sample ID: **N041932-005DDUP** SampType: **DUP** TestCode: **150.1_4500H** Units: **pH Units** Prep Date: RunNo: **146791**
Client ID: **ZZZZZZ** Batch ID: **R146791** TestNo: **SM4500-H+B** Analysis Date: **8/20/2020** SeqNo: **3907873**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.050	0.10						8.020	0.373	10	H
Temp. at time of pH Analysis	25.000	0.10						25.00	0	10	H

Sample ID: **N041932-015CDUP** SampType: **DUP** TestCode: **150.1_4500H** Units: **pH Units** Prep Date: RunNo: **146791**
Client ID: **ZZZZZZ** Batch ID: **R146791** TestNo: **SM4500-H+B** Analysis Date: **8/20/2020** SeqNo: **3907884**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.720	0.10						7.710	0.130	10	H
Temp. at time of pH Analysis	25.000	0.10						25.00	0	10	H

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 8:40:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_200823B**	QC Batch: **81881**				PrepDate:	**8/23/2020**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	8/23/2020 06:26 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 8:54:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_200823B**	QC Batch: **81881**				PrepDate:	**8/23/2020**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	8/23/2020 06:26 PM

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 10:57:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_200823B**	QC Batch: **81881**				PrepDate:	**8/23/2020**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	8/23/2020 06:26 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 9:17:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_200823B**	QC Batch: **81881**				PrepDate:	**8/23/2020**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	8/23/2020 06:26 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 9:33:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_200823B**	QC Batch: **81881**				PrepDate:	**8/23/2020**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	8/23/2020 06:26 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 9:56:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_200823B**	QC Batch: **81881**				PrepDate:	**8/23/2020**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	8/23/2020 06:26 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 7:25:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_200823B** QC Batch: **81881** PrepDate: **8/23/2020** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	9.0	5.0	5.0		mg/L	1	8/23/2020 06:26 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 7:47:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_200823B**	QC Batch: **81881**				PrepDate:	**8/23/2020**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	11	5.0	5.0		mg/L	1	8/23/2020 06:26 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 10:11:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-009		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_200825D**	QC Batch: **81905**				PrepDate:	**8/25/2020**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	8/25/2020 10:45 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-19-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 8:14:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_200825D**	QC Batch: **81905**				PrepDate:	**8/25/2020**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	8/25/2020 10:45 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	RRB-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 11:20:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_200825D**	QC Batch: **81905**				PrepDate:	**8/25/2020**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	8/25/2020 10:45 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-908-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 7:35:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_200825D** QC Batch: **81905** PrepDate: **8/25/2020** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	5.5	5.0	5.0		mg/L	1	8/25/2020 10:45 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-910-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 10:47:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_200825D**	QC Batch: **81905**				PrepDate:	**8/25/2020**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	8/25/2020 10:45 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 10:37:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_200825D**	QC Batch: **81905**				PrepDate:	**8/25/2020**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	8/25/2020 10:45 AM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID: **LCS-81881** SampType: **LCS** TestCode: **160.2_2540D** Units: **mg/L** Prep Date: **8/23/2020** RunNo: **146841**
Client ID: **LCSW** Batch ID: **81881** TestNo: **SM2540D** Analysis Date: **8/23/2020** SeqNo: **3909910**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	974.000	10	1000	0	97.4	80	120				

Sample ID: **MB-81881** SampType: **MBLK** TestCode: **160.2_2540D** Units: **mg/L** Prep Date: **8/23/2020** RunNo: **146841**
Client ID: **PBW** Batch ID: **81881** TestNo: **SM2540D** Analysis Date: **8/23/2020** SeqNo: **3909911**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10									

Sample ID: **N041932-004DDUP** SampType: **DUP** TestCode: **160.2_2540D** Units: **mg/L** Prep Date: **8/23/2020** RunNo: **146841**
Client ID: **ZZZZZZ** Batch ID: **81881** TestNo: **SM2540D** Analysis Date: **8/23/2020** SeqNo: **3909918**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	5.0						0	0	5	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID: **LCS-81905** SampType: **LCS** TestCode: **160.2_2540D** Units: **mg/L** Prep Date: **8/25/2020** RunNo: **146886**
Client ID: **LCSW** Batch ID: **81905** TestNo: **SM2540D** Analysis Date: **8/25/2020** SeqNo: **3912689**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	994.000	10	1000	0	99.4	80	120				

Sample ID: **MB-81905** SampType: **MBLK** TestCode: **160.2_2540D** Units: **mg/L** Prep Date: **8/25/2020** RunNo: **146886**
Client ID: **PBW** Batch ID: **81905** TestNo: **SM2540D** Analysis Date: **8/25/2020** SeqNo: **3912690**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10									

Sample ID: **N041952-001ADUP** SampType: **DUP** TestCode: **160.2_2540D** Units: **mg/L** Prep Date: **8/25/2020** RunNo: **146886**
Client ID: **ZZZZZZ** Batch ID: **81905** TestNo: **SM2540D** Analysis Date: **8/25/2020** SeqNo: **3912699**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	495.000	50						475.0	4.12	5	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 8:40:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **CA01638-IC01_200831A** QC Batch: **R147082** PrepDate: Analyst: **AG**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	8/31/2020 06:14 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200831A** QC Batch: **81859** PrepDate: **8/22/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	8/31/2020 09:54 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 8:54:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **CA01638-IC01_200831A** QC Batch: **R147082** PrepDate: Analyst: **AG**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	9/1/2020 01:05 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200831A** QC Batch: **81859** PrepDate: **8/22/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	8/31/2020 09:58 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 10:57:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **CA01638-IC01_200831A** QC Batch: **R147082** PrepDate: Analyst: **AG**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	8/31/2020 07:23 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200831A** QC Batch: **81859** PrepDate: **8/22/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	8/31/2020 10:03 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 9:17:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **CA01638-IC01_200908A** QC Batch: **R147240** PrepDate: Analyst: **AG**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	9/8/2020 06:16 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200831A** QC Batch: **81859** PrepDate: **8/22/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	8/31/2020 10:08 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 9:33:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **CA01638-IC01_200831A** QC Batch: **R147082** PrepDate: Analyst: **AG**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	8/31/2020 08:08 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200831A** QC Batch: **81859** PrepDate: **8/22/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	8/31/2020 10:31 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 9:56:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **CA01638-IC01_200831A** QC Batch: **R147082** PrepDate: Analyst: **AG**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	8/31/2020 08:31 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200831A** QC Batch: **81859** PrepDate: **8/22/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	8/31/2020 10:36 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 7:25:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **CA01638-IC01_200908A** QC Batch: **R147240** PrepDate: Analyst: **AG**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	9/8/2020 07:02 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200831A** QC Batch: **81859** PrepDate: **8/22/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	8/31/2020 10:49 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 7:47:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **CA01638-IC01_200831A** QC Batch: **R147082** PrepDate: Analyst: **AG**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	8/31/2020 09:39 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200831A** QC Batch: **81859** PrepDate: **8/22/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	8/31/2020 11:12 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 10:11:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-009		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **CA01638-IC01_200831A** QC Batch: **R147082** PrepDate: Analyst: **AG**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	8/31/2020 10:02 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200831A** QC Batch: **81859** PrepDate: **8/22/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	8/31/2020 11:17 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-19-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 8:14:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **CA01638-IC01_200831A** QC Batch: **R147082** PrepDate: Analyst: **AG**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	8/31/2020 10:25 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200831A** QC Batch: **81859** PrepDate: **8/22/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	8/31/2020 11:22 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	RRB-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 11:20:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **CA01638-IC01_200831A** QC Batch: **R147082** PrepDate: Analyst: **AG**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	8/31/2020 10:48 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200831A** QC Batch: **81859** PrepDate: **8/22/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	8/31/2020 11:26 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-908-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 7:35:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **CA01638-IC01_200831A** QC Batch: **R147082** PrepDate: Analyst: **AG**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	8/31/2020 11:11 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200831A** QC Batch: **81859** PrepDate: **8/22/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	8/31/2020 11:31 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-910-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 10:47:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **CA01638-IC01_200831B** QC Batch: **R147089** PrepDate: Analyst: **AG**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	9/1/2020 02:02 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200831A** QC Batch: **81859** PrepDate: **8/22/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	8/31/2020 11:45 AM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 10:37:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **CA01638-IC01_200831B** QC Batch: **R147089** PrepDate: Analyst: **AG**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	9/1/2020 02:47 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200831A** QC Batch: **81859** PrepDate: **8/22/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	8/31/2020 11:50 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	SW1-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 2:10:00 PM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-015		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **CA01638-IC01_200831B** QC Batch: **R147089** PrepDate: Analyst: **AG**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	9/1/2020 03:10 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200831A** QC Batch: **81859** PrepDate: **8/22/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	8/31/2020 11:54 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	SW2-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 2:27:00 PM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-016		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **CA01638-IC01_200831B** QC Batch: **R147089** PrepDate: Analyst: **AG**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	9/1/2020 03:33 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_200831A** QC Batch: **81859** PrepDate: **8/22/2020** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	8/31/2020 11:59 AM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **LCS1-R147082** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147082**
Client ID: **LCSW** Batch ID: **R147082** TestNo: **EPA 218.6** Analysis Date: **8/31/2020** SeqNo: **3922879**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.993	0.20	5.000	0	99.9	90	110				

Sample ID: **MB1-R147082** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147082**
Client ID: **PBW** Batch ID: **R147082** TestNo: **EPA 218.6** Analysis Date: **8/31/2020** SeqNo: **3922880**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **N041876-001A-DUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147082**
Client ID: **ZZZZZZ** Batch ID: **R147082** TestNo: **EPA 218.6** Analysis Date: **8/31/2020** SeqNo: **3922886**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.666	1.0						1.618	2.89	20	

Sample ID: **N041876-001A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147082**
Client ID: **ZZZZZZ** Batch ID: **R147082** TestNo: **EPA 218.6** Analysis Date: **8/31/2020** SeqNo: **3922889**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	6.909	1.0	5.000	1.618	106	90	110				

Sample ID: **N041876-001A-MSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147082**
Client ID: **ZZZZZZ** Batch ID: **R147082** TestNo: **EPA 218.6** Analysis Date: **8/31/2020** SeqNo: **3922890**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	6.991	1.0	5.000	1.618	107	90	110	6.909	1.18	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N041894-014A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147082**
Client ID: **ZZZZZZ** Batch ID: **R147082** TestNo: **EPA 218.6** Analysis Date: **8/31/2020** SeqNo: **3922898**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1193.420	20	500.0	694.3	99.8	90	110				

Sample ID: **N041894-015A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147082**
Client ID: **ZZZZZZ** Batch ID: **R147082** TestNo: **EPA 218.6** Analysis Date: **8/31/2020** SeqNo: **3922902**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2620.460	40	1000	1625	99.5	90	110				

Sample ID: **N041894-017A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147082**
Client ID: **ZZZZZZ** Batch ID: **R147082** TestNo: **EPA 218.6** Analysis Date: **8/31/2020** SeqNo: **3922904**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.063	0.20	1.000	0	106	90	110				

Sample ID: **N041894-018A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147082**
Client ID: **ZZZZZZ** Batch ID: **R147082** TestNo: **EPA 218.6** Analysis Date: **8/31/2020** SeqNo: **3922906**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.045	0.20	1.000	0	104	90	110				

Sample ID: **N041932-001A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147082**
Client ID: **ZZZZZZ** Batch ID: **R147082** TestNo: **EPA 218.6** Analysis Date: **8/31/2020** SeqNo: **3922908**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.092	0.20	1.000	0.1006	99.2	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N041932-002A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147082**
Client ID: **ZZZZZZ** Batch ID: **R147082** TestNo: **EPA 218.6** Analysis Date: **8/31/2020** SeqNo: **3922910**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.062	0.20	1.000	0.09740	96.4	90	110				

Sample ID: **N041932-003A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147082**
Client ID: **ZZZZZZ** Batch ID: **R147082** TestNo: **EPA 218.6** Analysis Date: **8/31/2020** SeqNo: **3922914**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.105	0.20	1.000	0.08450	102	90	110				

Sample ID: **N041932-005A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147082**
Client ID: **ZZZZZZ** Batch ID: **R147082** TestNo: **EPA 218.6** Analysis Date: **8/31/2020** SeqNo: **3922918**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.084	0.20	1.000	0.09820	98.6	90	110				

Sample ID: **N041932-006A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147082**
Client ID: **ZZZZZZ** Batch ID: **R147082** TestNo: **EPA 218.6** Analysis Date: **8/31/2020** SeqNo: **3922920**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.111	0.20	1.000	0.08710	102	90	110				

Sample ID: **N041932-008A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147082**
Client ID: **ZZZZZZ** Batch ID: **R147082** TestNo: **EPA 218.6** Analysis Date: **8/31/2020** SeqNo: **3922926**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.114	0.20	1.000	0.08360	103	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N041932-009A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147082**
Client ID: **ZZZZZZ** Batch ID: **R147082** TestNo: **EPA 218.6** Analysis Date: **8/31/2020** SeqNo: **3922928**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.114	0.20	1.000	0.1036	101	90	110				

Sample ID: **N041932-010A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147082**
Client ID: **ZZZZZZ** Batch ID: **R147082** TestNo: **EPA 218.6** Analysis Date: **8/31/2020** SeqNo: **3922930**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.100	0.20	1.000	0.08700	101	90	110				

Sample ID: **N041932-011A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147082**
Client ID: **ZZZZZZ** Batch ID: **R147082** TestNo: **EPA 218.6** Analysis Date: **8/31/2020** SeqNo: **3922932**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.087	0.20	1.000	0.08952	99.7	90	110				

Sample ID: **N041932-012A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147082**
Client ID: **ZZZZZZ** Batch ID: **R147082** TestNo: **EPA 218.6** Analysis Date: **8/31/2020** SeqNo: **3922934**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.092	0.20	1.000	0.07850	101	90	110				

Sample ID: **N041894-011A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147082**
Client ID: **ZZZZZZ** Batch ID: **R147082** TestNo: **EPA 218.6** Analysis Date: **9/1/2020** SeqNo: **3922938**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2988.240	40	1000	1994	99.5	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N041894-012A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147082**
Client ID: **ZZZZZZ** Batch ID: **R147082** TestNo: **EPA 218.6** Analysis Date: **9/1/2020** SeqNo: **3922940**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	3028.320	40	1000	2022	101	90	110				

Sample ID: **N041894-013A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147082**
Client ID: **ZZZZZZ** Batch ID: **R147082** TestNo: **EPA 218.6** Analysis Date: **9/1/2020** SeqNo: **3922942**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.476	1.0	5.000	0.6095	97.3	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **LCS2-R147089** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147089**
Client ID: **LCSW** Batch ID: **R147089** TestNo: **EPA 218.6** Analysis Date: **9/1/2020** SeqNo: **3923196**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.037	0.20	5.000	0	101	90	110				

Sample ID: **MB2-R147089** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147089**
Client ID: **PBW** Batch ID: **R147089** TestNo: **EPA 218.6** Analysis Date: **9/1/2020** SeqNo: **3923197**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **N041932-013A-DUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147089**
Client ID: **ZZZZZZ** Batch ID: **R147089** TestNo: **EPA 218.6** Analysis Date: **9/1/2020** SeqNo: **3923201**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.082	0.20						0.09800	0	20	

Sample ID: **N041932-013A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147089**
Client ID: **ZZZZZZ** Batch ID: **R147089** TestNo: **EPA 218.6** Analysis Date: **9/1/2020** SeqNo: **3923202**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.031	0.20	1.000	0.09800	93.3	90	110				

Sample ID: **N041932-013A-MSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147089**
Client ID: **ZZZZZZ** Batch ID: **R147089** TestNo: **EPA 218.6** Analysis Date: **9/1/2020** SeqNo: **3923203**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.071	0.20	1.000	0.09800	97.3	90	110	1.031	3.80	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N041932-014A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147089**
Client ID: **ZZZZZZ** Batch ID: **R147089** TestNo: **EPA 218.6** Analysis Date: **9/1/2020** SeqNo: **3923205**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.047	0.20	1.000	0.1012	94.6	90	110				

Sample ID: **N041932-015A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147089**
Client ID: **ZZZZZZ** Batch ID: **R147089** TestNo: **EPA 218.6** Analysis Date: **9/1/2020** SeqNo: **3923207**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.079	0.20	1.000	0.08390	99.5	90	110				

Sample ID: **N041932-016A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147089**
Client ID: **ZZZZZZ** Batch ID: **R147089** TestNo: **EPA 218.6** Analysis Date: **9/1/2020** SeqNo: **3923209**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.065	0.20	1.000	0.08840	97.7	90	110				

Sample ID: **N041940-004A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147089**
Client ID: **ZZZZZZ** Batch ID: **R147089** TestNo: **EPA 218.6** Analysis Date: **9/1/2020** SeqNo: **3923219**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	273.403	5.0	125.0	142.6	105	90	110				

Sample ID: **N041940-005A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147089**
Client ID: **ZZZZZZ** Batch ID: **R147089** TestNo: **EPA 218.6** Analysis Date: **9/1/2020** SeqNo: **3923221**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	3417.100	40	1000	2339	108	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N041940-007A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147089**
Client ID: **ZZZZZZ** Batch ID: **R147089** TestNo: **EPA 218.6** Analysis Date: **9/1/2020** SeqNo: **3923227**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	53.183	1.0	25.00	27.52	103	90	110				

Sample ID: **N041940-008A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147089**
Client ID: **ZZZZZZ** Batch ID: **R147089** TestNo: **EPA 218.6** Analysis Date: **9/1/2020** SeqNo: **3923229**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1583.230	20	500.0	1066	103	90	110				

Sample ID: **N041940-009A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147089**
Client ID: **ZZZZZZ** Batch ID: **R147089** TestNo: **EPA 218.6** Analysis Date: **9/1/2020** SeqNo: **3923231**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.080	0.20	1.000	0	108	90	110				

Sample ID: **N041940-010A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147089**
Client ID: **ZZZZZZ** Batch ID: **R147089** TestNo: **EPA 218.6** Analysis Date: **9/1/2020** SeqNo: **3923233**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.094	0.20	1.000	0	109	90	110				

Sample ID: **N041940-011A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147089**
Client ID: **ZZZZZZ** Batch ID: **R147089** TestNo: **EPA 218.6** Analysis Date: **9/1/2020** SeqNo: **3923237**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.080	0.20	1.000	0	108	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N041958-001A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147089**
Client ID: **ZZZZZZ** Batch ID: **R147089** TestNo: **EPA 218.6** Analysis Date: **9/1/2020** SeqNo: **3923239**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	25.082	0.40	10.00	14.74	103	90	110				

Sample ID: **N041958-002A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147089**
Client ID: **ZZZZZZ** Batch ID: **R147089** TestNo: **EPA 218.6** Analysis Date: **9/1/2020** SeqNo: **3923241**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	14.724	0.20	5.000	9.376	107	90	110				

Sample ID: **N041958-003A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147089**
Client ID: **ZZZZZZ** Batch ID: **R147089** TestNo: **EPA 218.6** Analysis Date: **9/1/2020** SeqNo: **3923243**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	46.917	1.0	25.00	21.22	103	90	110				

Sample ID: **N041958-004A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147089**
Client ID: **ZZZZZZ** Batch ID: **R147089** TestNo: **EPA 218.6** Analysis Date: **9/1/2020** SeqNo: **3923245**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	31.625	0.40	10.00	21.38	102	90	110				

Sample ID: **N041958-005A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147089**
Client ID: **ZZZZZZ** Batch ID: **R147089** TestNo: **EPA 218.6** Analysis Date: **9/1/2020** SeqNo: **3923249**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.066	0.20	1.000	0	107	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N041940-001A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147089**
Client ID: **ZZZZZZ** Batch ID: **R147089** TestNo: **EPA 218.6** Analysis Date: **9/1/2020** SeqNo: **3923258**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	602.770	10	250.0	334.0	108	90	110				

Sample ID: **N041940-002A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147089**
Client ID: **ZZZZZZ** Batch ID: **R147089** TestNo: **EPA 218.6** Analysis Date: **9/1/2020** SeqNo: **3923260**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	622.905	10	250.0	370.9	101	90	110				

Sample ID: **N041940-003A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147089**
Client ID: **ZZZZZZ** Batch ID: **R147089** TestNo: **EPA 218.6** Analysis Date: **9/1/2020** SeqNo: **3923262**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	603.545	10	250.0	346.0	103	90	110				

Sample ID: **N041940-006A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147089**
Client ID: **ZZZZZZ** Batch ID: **R147089** TestNo: **EPA 218.6** Analysis Date: **9/1/2020** SeqNo: **3923265**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	6.087	1.0	5.000	1.113	99.5	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **LCS1-R147240** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147240**
Client ID: **LCSW** Batch ID: **R147240** TestNo: **EPA 218.6** Analysis Date: **9/8/2020** SeqNo: **3929220**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.833	0.20	5.000	0	96.7	90	110				

Sample ID: **MB1-R147240** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147240**
Client ID: **PBW** Batch ID: **R147240** TestNo: **EPA 218.6** Analysis Date: **9/8/2020** SeqNo: **3929221**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **N041932-004A-DUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147240**
Client ID: **ZZZZZZ** Batch ID: **R147240** TestNo: **EPA 218.6** Analysis Date: **9/8/2020** SeqNo: **3929223**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.086	0.20						0.08700	0	20	

Sample ID: **N041932-007A-DUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147240**
Client ID: **ZZZZZZ** Batch ID: **R147240** TestNo: **EPA 218.6** Analysis Date: **9/8/2020** SeqNo: **3929227**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.087	0.20						0.08720	0	20	

Sample ID: **N041991-011A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147240**
Client ID: **ZZZZZZ** Batch ID: **R147240** TestNo: **EPA 218.6** Analysis Date: **9/8/2020** SeqNo: **3929237**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.023	0.20	1.000	0	102	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N041991-012A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147240**
Client ID: **ZZZZZZ** Batch ID: **R147240** TestNo: **EPA 218.6** Analysis Date: **9/8/2020** SeqNo: **3929239**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.993	0.20	1.000	0	99.3	90	110				

Sample ID: **N042007-002A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147240**
Client ID: **ZZZZZZ** Batch ID: **R147240** TestNo: **EPA 218.6** Analysis Date: **9/9/2020** SeqNo: **3929247**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	160.430	2.0	50.00	109.6	102	90	110				

Sample ID: **N042007-001A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147240**
Client ID: **ZZZZZZ** Batch ID: **R147240** TestNo: **EPA 218.6** Analysis Date: **9/9/2020** SeqNo: **3929249**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1615.810	20	500.0	1095	104	90	110				

Sample ID: **N041932-004A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147240**
Client ID: **ZZZZZZ** Batch ID: **R147240** TestNo: **EPA 218.6** Analysis Date: **9/9/2020** SeqNo: **3929259**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.046	0.20	1.000	0.08700	95.9	90	110				

Sample ID: **N041932-004A-MSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147240**
Client ID: **ZZZZZZ** Batch ID: **R147240** TestNo: **EPA 218.6** Analysis Date: **9/9/2020** SeqNo: **3929260**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.035	0.20	1.000	0.08700	94.8	90	110	1.046	0.999	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N041932-007A-MS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147240**
Client ID: **ZZZZZZ** Batch ID: **R147240** TestNo: **EPA 218.6** Analysis Date: **9/9/2020** SeqNo: **3929261**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.002	0.20	1.000	0.08720	91.5	90	110				

Sample ID: **N041932-007A-MSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147240**
Client ID: **ZZZZZZ** Batch ID: **R147240** TestNo: **EPA 218.6** Analysis Date: **9/9/2020** SeqNo: **3929262**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.065	0.20	1.000	0.08720	97.7	90	110	1.002	6.03	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: **MB-81859** SampType: **MBLK** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **8/22/2020** RunNo: **147077**
Client ID: **PBW** Batch ID: **81859** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **8/31/2020** SeqNo: **3922680**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID: **LCS-81859** SampType: **LCS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **8/22/2020** RunNo: **147077**
Client ID: **LCSW** Batch ID: **81859** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **8/31/2020** SeqNo: **3922681**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.828	1.0	10.00	0	98.3	85	115				

Sample ID: **N041932-004BMS** SampType: **MS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **8/22/2020** RunNo: **147077**
Client ID: **ZZZZZZ** Batch ID: **81859** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **8/31/2020** SeqNo: **3922692**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.414	1.0	10.00	0	94.1	75	125				

Sample ID: **N041932-004BMSD** SampType: **MSD** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **8/22/2020** RunNo: **147077**
Client ID: **ZZZZZZ** Batch ID: **81859** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **8/31/2020** SeqNo: **3922693**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.420	1.0	10.00	0	94.2	75	125	9.414	0.0677	20	

Sample ID: **N041932-007BMS** SampType: **MS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **8/22/2020** RunNo: **147077**
Client ID: **ZZZZZZ** Batch ID: **81859** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **8/31/2020** SeqNo: **3922701**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.300	1.0	10.00	0	93.0	75	125				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: **N041932-007BMSD** SampType: **MSD** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **8/22/2020** RunNo: **147077**
Client ID: **ZZZZZZ** Batch ID: **81859** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **8/31/2020** SeqNo: **3922702**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.290	1.0	10.00	0	92.9	75	125	9.300	0.111	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 8:40:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_200901B** QC Batch: **R147081** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.43	0.032	0.050		mg/L	1	9/1/2020 03:25 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 8:54:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_200831D** QC Batch: **R147052** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.39	0.032	0.050		mg/L	1	8/31/2020 04:10 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 10:57:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_200831D** QC Batch: **R147052** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.43	0.032	0.050		mg/L	1	8/31/2020 04:08 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 9:17:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_200831D** QC Batch: **R147052** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.35	0.032	0.050		mg/L	1	8/31/2020 04:05 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 9:33:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_200831D** QC Batch: **R147052** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.37	0.032	0.050		mg/L	1	8/31/2020 04:16 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 9:56:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_200831D** QC Batch: **R147052** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.39	0.032	0.050		mg/L	1	8/31/2020 04:17 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 7:25:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_200901B** QC Batch: **R147081** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.35	0.032	0.050		mg/L	1	9/1/2020 03:20 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 7:47:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_200831D** QC Batch: **R147052** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.39	0.032	0.050		mg/L	1	8/31/2020 04:17 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 10:11:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-009		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_200831D** QC Batch: **R147052** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.38	0.032	0.050		mg/L	1	8/31/2020 04:18 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-19-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 8:14:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_200831D** QC Batch: **R147052** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.36	0.032	0.050		mg/L	1	8/31/2020 04:19 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	RRB-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 11:20:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_200831D** QC Batch: **R147052** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.25	0.032	0.050		mg/L	1	8/31/2020 04:20 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-908-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 7:35:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_200831D** QC Batch: **R147052** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.36	0.032	0.050		mg/L	1	8/31/2020 04:15 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-910-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 10:47:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_200831D** QC Batch: **R147052** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.54	0.16	0.25		mg/L	5	8/31/2020 04:21 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 10:37:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_200901B** QC Batch: **R147081** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.44	0.032	0.050		mg/L	1	9/1/2020 03:23 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID: **MB-R147052** SampType: **MBLK** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147052**
Client ID: **PBW** Batch ID: **R147052** TestNo: **SM4500-NO3** Analysis Date: **8/31/2020** SeqNo: **3921782**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID: **LCS-R147052** SampType: **LCS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147052**
Client ID: **LCSW** Batch ID: **R147052** TestNo: **SM4500-NO3** Analysis Date: **8/31/2020** SeqNo: **3921783**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.469	0.050	0.5000	0	93.7	85	115				

Sample ID: **N041932-004EMS** SampType: **MS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147052**
Client ID: **ZZZZZZ** Batch ID: **R147052** TestNo: **SM4500-NO3** Analysis Date: **8/31/2020** SeqNo: **3921785**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.812	0.050	0.5000	0.3507	92.2	75	125				

Sample ID: **N041932-004EMSD** SampType: **MSD** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147052**
Client ID: **ZZZZZZ** Batch ID: **R147052** TestNo: **SM4500-NO3** Analysis Date: **8/31/2020** SeqNo: **3921786**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.898	0.050	0.5000	0.3507	109	75	125	0.8118	10.0	20	

Sample ID: **N041932-003EDUP** SampType: **DUP** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147052**
Client ID: **ZZZZZZ** Batch ID: **R147052** TestNo: **SM4500-NO3** Analysis Date: **8/31/2020** SeqNo: **3921788**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.401	0.050						0.4303	7.02	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID: **MB-R147081** SampType: **MBLK** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147081**
Client ID: **PBW** Batch ID: **R147081** TestNo: **SM4500-NO3** Analysis Date: **9/1/2020** SeqNo: **3922851**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID: **LCS-R147081** SampType: **LCS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147081**
Client ID: **LCSW** Batch ID: **R147081** TestNo: **SM4500-NO3** Analysis Date: **9/1/2020** SeqNo: **3922852**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.463	0.050	0.5000	0	92.6	85	115				

Sample ID: **N041932-007EMS** SampType: **MS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147081**
Client ID: **ZZZZZZ** Batch ID: **R147081** TestNo: **SM4500-NO3** Analysis Date: **9/1/2020** SeqNo: **3922854**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.858	0.050	0.5000	0.3503	101	75	125				

Sample ID: **N041932-007EMSD** SampType: **MSD** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147081**
Client ID: **ZZZZZZ** Batch ID: **R147081** TestNo: **SM4500-NO3** Analysis Date: **9/1/2020** SeqNo: **3922855**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.880	0.050	0.5000	0.3503	106	75	125	0.8576	2.61	20	

Sample ID: **N041932-014EDUP** SampType: **DUP** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147081**
Client ID: **ZZZZZZ** Batch ID: **R147081** TestNo: **SM4500-NO3** Analysis Date: **9/1/2020** SeqNo: **3922857**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.434	0.050						0.4436	2.12	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 8:40:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A		**EPA 6010B**				
RunID: **NV00922-ICP2_200829C**	QC Batch: **81877**				PrepDate:	**8/23/2020**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	8/29/2020 02:55 PM
TOTAL METALS BY ICP							
	EPA 3010A		**EPA 6010B**				
RunID: **NV00922-ICP2_200829B**	QC Batch: **81878**				PrepDate:	**8/23/2020**	Analyst: **DJ**
Iron	32	18	20		ug/L	1	8/29/2020 12:28 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 8:54:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829C**	QC Batch: **81877**			PrepDate:		**8/23/2020**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	8/29/2020 02:58 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829B**	QC Batch: **81878**			PrepDate:		**8/23/2020**	Analyst: **DJ**
Iron	25	18	20		ug/L	1	8/29/2020 12:32 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 10:57:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			**EPA 6010B**			
RunID: **NV00922-ICP2_200829C**	QC Batch: **81877**			PrepDate:		**8/23/2020**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	8/29/2020 03:02 PM
TOTAL METALS BY ICP							
	EPA 3010A			**EPA 6010B**			
RunID: **NV00922-ICP2_200829B**	QC Batch: **81878**			PrepDate:		**8/23/2020**	Analyst: **DJ**
Iron	31	18	20		ug/L	1	8/29/2020 12:43 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 9:17:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			**EPA 6010B**			
RunID: **NV00922-ICP2_200829C**	QC Batch: **81877**			PrepDate:		**8/23/2020**	Analyst: **DJ**
Iron	200	18	20		ug/L	1	8/29/2020 02:10 PM
TOTAL METALS BY ICP							
	EPA 3010A			**EPA 6010B**			
RunID: **NV00922-ICP2_200829B**	QC Batch: **81878**			PrepDate:		**8/23/2020**	Analyst: **DJ**
Iron	150	18	20		ug/L	1	8/29/2020 11:43 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 9:33:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			**EPA 6010B**			
RunID: **NV00922-ICP2_200829C**	QC Batch: **81877**			PrepDate:		**8/23/2020**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	8/29/2020 03:13 PM
TOTAL METALS BY ICP							
	EPA 3010A			**EPA 6010B**			
RunID: **NV00922-ICP2_200829B**	QC Batch: **81878**			PrepDate:		**8/23/2020**	Analyst: **DJ**
Iron	22	18	20		ug/L	1	8/29/2020 12:46 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 9:56:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829C**	QC Batch: **81877**			PrepDate:		**8/23/2020**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	8/29/2020 03:17 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829B**	QC Batch: **81878**			PrepDate:		**8/23/2020**	Analyst: **DJ**
Iron	25	18	20		ug/L	1	8/29/2020 12:50 PM

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

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ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 7:25:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			**EPA 6010B**			
RunID: **NV00922-ICP2_200829C**	QC Batch: **81877**			PrepDate:		**8/23/2020**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	8/29/2020 02:36 PM
TOTAL METALS BY ICP							
	EPA 3010A			**EPA 6010B**			
RunID: **NV00922-ICP2_200829B**	QC Batch: **81878**			PrepDate:		**8/23/2020**	Analyst: **DJ**
Iron	150	18	20		ug/L	1	8/29/2020 12:09 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 7:47:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			**EPA 6010B**			
RunID: **NV00922-ICP2_200829C**	QC Batch: **81877**			PrepDate:		**8/23/2020**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	8/29/2020 03:21 PM
TOTAL METALS BY ICP							
	EPA 3010A			**EPA 6010B**			
RunID: **NV00922-ICP2_200829B**	QC Batch: **81878**			PrepDate:		**8/23/2020**	Analyst: **DJ**
Iron	200	18	20		ug/L	1	8/29/2020 12:54 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 10:11:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-009		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829C**	QC Batch: **81877**			PrepDate:		**8/23/2020**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	8/29/2020 03:24 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829B**	QC Batch: **81878**			PrepDate:		**8/23/2020**	Analyst: **DJ**
Iron	22	18	20		ug/L	1	8/29/2020 12:58 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-19-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 8:14:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829C**	QC Batch: **81877**			PrepDate:		**8/23/2020**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	8/29/2020 03:28 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829B**	QC Batch: **81878**			PrepDate:		**8/23/2020**	Analyst: **DJ**
Iron	41	18	20		ug/L	1	8/29/2020 01:01 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	RRB-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 11:20:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			**EPA 6010B**			
RunID: **NV00922-ICP2_200829C**	QC Batch: **81877**				PrepDate:	**8/23/2020**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	8/29/2020 03:32 PM
TOTAL METALS BY ICP							
	EPA 3010A			**EPA 6010B**			
RunID: **NV00922-ICP2_200829B**	QC Batch: **81878**				PrepDate:	**8/23/2020**	Analyst: **DJ**
Iron	30	18	20		ug/L	1	8/29/2020 01:05 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-908-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 7:35:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829C**	QC Batch: **81877**			PrepDate:		**8/23/2020**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	8/29/2020 03:35 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829B**	QC Batch: **81878**			PrepDate:		**8/23/2020**	Analyst: **DJ**
Iron	200	18	20		ug/L	1	8/29/2020 01:09 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-910-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 10:47:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829C**	QC Batch: **81877**				PrepDate:	**8/23/2020**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	8/29/2020 03:39 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829B**	QC Batch: **81878**				PrepDate:	**8/23/2020**	Analyst: **DJ**
Iron	27	18	20		ug/L	1	8/29/2020 01:12 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 10:37:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829C**	QC Batch: **81877**			PrepDate:		**8/23/2020**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	8/29/2020 03:43 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_200829B**	QC Batch: **81878**			PrepDate:		**8/23/2020**	Analyst: **DJ**
Iron	21	18	20		ug/L	1	8/29/2020 01:16 PM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID: **MB-81877** SampType: **MBLK** TestCode: **6010_WDPG** Units: **ug/L** Prep Date: **8/23/2020** RunNo: **147022**
Client ID: **PBW** Batch ID: **81877** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **8/29/2020** SeqNo: **3920113**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	ND	20									

Sample ID: **LCS-81877** SampType: **LCS** TestCode: **6010_WDPG** Units: **ug/L** Prep Date: **8/23/2020** RunNo: **147022**
Client ID: **LCSW** Batch ID: **81877** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **8/29/2020** SeqNo: **3920114**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	110.128	20	100.0	0	110	85	115				

Sample ID: **N041932-004BMS** SampType: **MS** TestCode: **6010_WDPG** Units: **ug/L** Prep Date: **8/23/2020** RunNo: **147022**
Client ID: **ZZZZZZ** Batch ID: **81877** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **8/29/2020** SeqNo: **3920120**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	115.519	20	100.0	203.8	-88.2	75	125				S

Sample ID: **N041932-004BMSD** SampType: **MSD** TestCode: **6010_WDPG** Units: **ug/L** Prep Date: **8/23/2020** RunNo: **147022**
Client ID: **ZZZZZZ** Batch ID: **81877** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **8/29/2020** SeqNo: **3920121**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	110.383	20	100.0	203.8	-93.4	75	125	115.5	4.55	20	S

Sample ID: **N041932-007BMS** SampType: **MS** TestCode: **6010_WDPG** Units: **ug/L** Prep Date: **8/23/2020** RunNo: **147022**
Client ID: **ZZZZZZ** Batch ID: **81877** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **8/29/2020** SeqNo: **3920125**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	108.727	20	100.0	0	109	75	125				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID: **N041932-007BMSD** SampType: **MSD** TestCode: **6010_WDPG** Units: **ug/L** Prep Date: **8/23/2020** RunNo: **147022**
Client ID: **ZZZZZZ** Batch ID: **81877** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **8/29/2020** SeqNo: **3920126**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	109.744	20	100.0	0	110	75	125	108.7	0.931	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPGEPPB

Sample ID: **LCS-81878** SampType: **LCS** TestCode: **6010_WPGE** Units: **ug/L** Prep Date: **8/23/2020** RunNo: **147021**
Client ID: **LCSW** Batch ID: **81878** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **8/29/2020** SeqNo: **3919942**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	109.056	20	100.0	0	109	85	115				

Sample ID: **N041932-004CMS** SampType: **MS** TestCode: **6010_WPGE** Units: **ug/L** Prep Date: **8/23/2020** RunNo: **147021**
Client ID: **ZZZZZZ** Batch ID: **81878** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **8/29/2020** SeqNo: **3919948**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	157.834	20	100.0	152.7	5.16	75	125				S

Sample ID: **N041932-004CMSD** SampType: **MSD** TestCode: **6010_WPGE** Units: **ug/L** Prep Date: **8/23/2020** RunNo: **147021**
Client ID: **ZZZZZZ** Batch ID: **81878** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **8/29/2020** SeqNo: **3919949**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	141.285	20	100.0	152.7	-11.4	75	125	157.8	11.1	20	S

Sample ID: **N041932-007CMS** SampType: **MS** TestCode: **6010_WPGE** Units: **ug/L** Prep Date: **8/23/2020** RunNo: **147021**
Client ID: **ZZZZZZ** Batch ID: **81878** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **8/29/2020** SeqNo: **3919953**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	254.159	20	100.0	146.6	108	75	125				

Sample ID: **N041932-007CMSD** SampType: **MSD** TestCode: **6010_WPGE** Units: **ug/L** Prep Date: **8/23/2020** RunNo: **147021**
Client ID: **ZZZZZZ** Batch ID: **81878** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **8/29/2020** SeqNo: **3919954**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	251.810	20	100.0	146.6	105	75	125	254.2	0.929	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPGEPPB

Sample ID:	**MB-81878**	SampType:	**MBLK**	TestCode:	**6010_WPGE**	Units:	**ug/L**		Prep Date:	**8/23/2020**		RunNo:	**147021**
Client ID:	**PBW**	Batch ID:	**81878**	TestNo:	**EPA 6010B**	**EPA 3010A**			Analysis Date:	**8/29/2020**		SeqNo:	**3920019**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	ND	20									

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID: **N041932-004B-PS** SampType: **PS** TestCode: **6010_WDPG** Units: **ug/L** Prep Date: RunNo: **147022**
Client ID: **ZZZZZZ** Batch ID: **81877** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **8/29/2020** SeqNo: **3920117**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	119.661	20	100.0	203.8	-84.1	80	120				S

Sample ID: **N041932-007B-PS** SampType: **PS** TestCode: **6010_WDPG** Units: **ug/L** Prep Date: RunNo: **147022**
Client ID: **ZZZZZZ** Batch ID: **81877** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **8/29/2020** SeqNo: **3920124**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	107.198	20	100.0	0	107	80	120				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPGEPPB

Sample ID: **N041932-004C-PS** SampType: **PS** TestCode: **6010_WPGE** Units: **ug/L** Prep Date: RunNo: **147021**
Client ID: **ZZZZZZ** Batch ID: **81878** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **8/29/2020** SeqNo: **3919947**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	182.291	20	100.0	152.7	29.6	80	120				S

Sample ID: **N041932-007C-PS** SampType: **PS** TestCode: **6010_WPGE** Units: **ug/L** Prep Date: RunNo: **147021**
Client ID: **ZZZZZZ** Batch ID: **81878** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **8/29/2020** SeqNo: **3919952**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	256.543	20	100.0	146.6	110	80	120				

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 8:40:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_200831A**	QC Batch: **81859**				PrepDate:	**8/22/2020**	Analyst: **CEI**
Arsenic	2.6	0.081	0.10		µg/L	1	8/31/2020 09:54 AM
Barium	110	0.15	1.0		µg/L	1	8/31/2020 09:54 AM
Manganese	2.1	0.26	0.50		µg/L	1	8/31/2020 09:54 AM
Molybdenum	4.8	0.21	0.50		µg/L	1	8/31/2020 09:54 AM
Selenium	1.6	0.36	0.50		µg/L	1	8/31/2020 09:54 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 8:54:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_200831A**	QC Batch: **81859**				PrepDate:	**8/22/2020**	Analyst: **CEI**
Arsenic	2.5	0.081	0.10		µg/L	1	8/31/2020 09:58 AM
Barium	110	0.15	1.0		µg/L	1	8/31/2020 09:58 AM
Manganese	0.62	0.26	0.50		µg/L	1	8/31/2020 09:58 AM
Molybdenum	4.5	0.21	0.50		µg/L	1	8/31/2020 09:58 AM
Selenium	1.4	0.36	0.50		µg/L	1	8/31/2020 09:58 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 10:57:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_200831A**	QC Batch: **81859**				PrepDate:	**8/22/2020**	Analyst: **CEI**
Arsenic	2.5	0.081	0.10		µg/L	1	8/31/2020 10:03 AM
Barium	110	0.15	1.0		µg/L	1	8/31/2020 10:03 AM
Manganese	0.65	0.26	0.50		µg/L	1	8/31/2020 10:03 AM
Molybdenum	4.7	0.21	0.50		µg/L	1	8/31/2020 10:03 AM
Selenium	1.5	0.36	0.50		µg/L	1	8/31/2020 10:03 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 9:17:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_200831A**	QC Batch: **81859**				PrepDate:	**8/22/2020**	Analyst: **CEI**
Arsenic	2.4	0.081	0.10		µg/L	1	8/31/2020 10:08 AM
Barium	110	0.15	1.0		µg/L	1	8/31/2020 10:08 AM
Manganese	0.51	0.26	0.50		µg/L	1	8/31/2020 10:08 AM
Molybdenum	4.6	0.21	0.50		µg/L	1	8/31/2020 10:08 AM
Selenium	1.5	0.36	0.50		µg/L	1	8/31/2020 10:08 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 9:33:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_200831A**	QC Batch: **81859**				PrepDate:	**8/22/2020**	Analyst: **CEI**
Arsenic	2.4	0.081	0.10		µg/L	1	8/31/2020 12:03 PM
Barium	110	0.15	1.0		µg/L	1	8/31/2020 12:03 PM
Manganese	0.59	0.26	0.50		µg/L	1	8/31/2020 12:03 PM
Molybdenum	4.5	0.21	0.50		µg/L	1	8/31/2020 12:03 PM
Selenium	1.5	0.36	0.50		µg/L	1	8/31/2020 12:03 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 9:56:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_200831A**	QC Batch: **81859**				PrepDate:	**8/22/2020**	Analyst: **CEI**
Arsenic	2.4	0.081	0.10		µg/L	1	8/31/2020 10:36 AM
Barium	110	0.15	1.0		µg/L	1	8/31/2020 10:36 AM
Manganese	0.60	0.26	0.50		µg/L	1	8/31/2020 10:36 AM
Molybdenum	4.6	0.21	0.50		µg/L	1	8/31/2020 10:36 AM
Selenium	1.4	0.36	0.50		µg/L	1	8/31/2020 10:36 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 7:25:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_200831A**	QC Batch: **81859**				PrepDate:	**8/22/2020**	Analyst: **CEI**
Arsenic	2.5	0.081	0.10		µg/L	1	8/31/2020 10:49 AM
Barium	110	0.15	1.0		µg/L	1	8/31/2020 10:49 AM
Manganese	3.8	0.26	0.50		µg/L	1	8/31/2020 10:49 AM
Molybdenum	4.7	0.21	0.50		µg/L	1	8/31/2020 10:49 AM
Selenium	1.5	0.36	0.50		µg/L	1	8/31/2020 10:49 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 7:47:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_200831A**	QC Batch: **81859**				PrepDate:	**8/22/2020**	Analyst: **CEI**
Arsenic	2.6	0.081	0.10		µg/L	1	8/31/2020 11:12 AM
Barium	110	0.15	1.0		µg/L	1	8/31/2020 11:12 AM
Manganese	5.5	0.26	0.50		µg/L	1	8/31/2020 11:12 AM
Molybdenum	4.9	0.21	0.50		µg/L	1	8/31/2020 11:12 AM
Selenium	1.5	0.36	0.50		µg/L	1	8/31/2020 11:12 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-S-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 10:11:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-009		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_200831A**	QC Batch: **81859**				PrepDate:	**8/22/2020**	Analyst: **CEI**
Arsenic	2.4	0.081	0.10		µg/L	1	8/31/2020 11:17 AM
Barium	110	0.15	1.0		µg/L	1	8/31/2020 11:17 AM
Manganese	0.57	0.26	0.50		µg/L	1	8/31/2020 11:17 AM
Molybdenum	4.6	0.21	0.50		µg/L	1	8/31/2020 11:17 AM
Selenium	1.5	0.36	0.50		µg/L	1	8/31/2020 11:17 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-19-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 8:14:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_200831A**	QC Batch: **81859**				PrepDate:	**8/22/2020**	Analyst: **CEI**
Arsenic	2.5	0.081	0.10		µg/L	1	8/31/2020 11:22 AM
Barium	110	0.15	1.0		µg/L	1	8/31/2020 11:22 AM
Manganese	0.72	0.26	0.50		µg/L	1	8/31/2020 11:22 AM
Molybdenum	4.5	0.21	0.50		µg/L	1	8/31/2020 11:22 AM
Selenium	1.5	0.36	0.50		µg/L	1	8/31/2020 11:22 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	RRB-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 11:20:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_200831A**	QC Batch: **81859**				PrepDate:	**8/22/2020**	Analyst: **CEI**
Arsenic	2.3	0.081	0.10		µg/L	1	8/31/2020 11:26 AM
Barium	110	0.15	1.0		µg/L	1	8/31/2020 11:26 AM
Manganese	7.1	0.26	0.50		µg/L	1	8/31/2020 11:26 AM
Molybdenum	4.7	0.21	0.50		µg/L	1	8/31/2020 11:26 AM
Selenium	1.4	0.36	0.50		µg/L	1	8/31/2020 11:26 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-908-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 7:35:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_200831A**	QC Batch: **81859**				PrepDate:	**8/22/2020**	Analyst: **CEI**
Arsenic	2.4	0.081	0.10		µg/L	1	8/31/2020 11:31 AM
Barium	110	0.15	1.0		µg/L	1	8/31/2020 11:31 AM
Manganese	2.5	0.26	0.50		µg/L	1	8/31/2020 11:31 AM
Molybdenum	4.8	0.21	0.50		µg/L	1	8/31/2020 11:31 AM
Selenium	1.6	0.36	0.50		µg/L	1	8/31/2020 11:31 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-910-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 10:47:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_200831A**	QC Batch: **81859**			PrepDate:		**8/22/2020**	Analyst: **CEI**
Arsenic	2.4	0.081	0.10		µg/L	1	8/31/2020 11:45 AM
Barium	110	0.15	1.0		µg/L	1	8/31/2020 11:45 AM
Manganese	1.0	0.26	0.50		µg/L	1	8/31/2020 11:45 AM
Molybdenum	4.7	0.21	0.50		µg/L	1	8/31/2020 11:45 AM
Selenium	1.6	0.36	0.50		µg/L	1	8/31/2020 11:45 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *09-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-D-Q320
Lab Order:	N041932	**Collection Date:**	8/20/2020 10:37:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N041932-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_200831A**	QC Batch: **81859**				PrepDate:	**8/22/2020**	Analyst: **CEI**
Arsenic	2.4	0.081	0.10		µg/L	1	8/31/2020 11:50 AM
Barium	110	0.15	1.0		µg/L	1	8/31/2020 11:50 AM
Manganese	0.71	0.26	0.50		µg/L	1	8/31/2020 11:50 AM
Molybdenum	4.7	0.21	0.50		µg/L	1	8/31/2020 11:50 AM
Selenium	1.5	0.36	0.50		µg/L	1	8/31/2020 11:50 AM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: **MB-81859** SampType: **MBLK** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **8/22/2020** RunNo: **147077**
Client ID: **PBW** Batch ID: **81859** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **8/31/2020** SeqNo: **3922760**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: **LCS-81859** SampType: **LCS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **8/22/2020** RunNo: **147077**
Client ID: **LCSW** Batch ID: **81859** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **8/31/2020** SeqNo: **3922761**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.096	0.10	10.00	0	101	85	115				
Barium	9.915	1.0	10.00	0	99.2	85	115				
Manganese	102.676	0.50	100.0	0	103	85	115				
Molybdenum	10.146	0.50	10.00	0	101	85	115				
Selenium	10.145	0.50	10.00	0	101	85	115				

Sample ID: **N041932-004BMS** SampType: **MS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **8/22/2020** RunNo: **147077**
Client ID: **ZZZZZZ** Batch ID: **81859** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **8/31/2020** SeqNo: **3922772**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	13.238	0.10	10.00	2.426	108	75	125				
Barium	115.450	1.0	10.00	107.2	82.8	75	125				
Manganese	103.423	0.50	100.0	0.5052	103	75	125				
Molybdenum	15.701	0.50	10.00	4.640	111	75	125				
Selenium	11.201	0.50	10.00	1.472	97.3	75	125				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: **N041932-004BMSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **8/22/2020** RunNo: **147077**
Client ID: **ZZZZZZ** Batch ID: **81859** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **8/31/2020** SeqNo: **3922773**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	13.343	0.10	10.00	2.426	109	75	125	13.24	0.788	20	
Barium	116.019	1.0	10.00	107.2	88.5	75	125	115.4	0.491	20	
Manganese	103.553	0.50	100.0	0.5052	103	75	125	103.4	0.125	20	
Molybdenum	15.814	0.50	10.00	4.640	112	75	125	15.70	0.717	20	
Selenium	11.197	0.50	10.00	1.472	97.2	75	125	11.20	0.0405	20	

Sample ID: **N041932-007BMS** SampType: **MS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **8/22/2020** RunNo: **147077**
Client ID: **ZZZZZZ** Batch ID: **81859** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **8/31/2020** SeqNo: **3922781**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	13.072	0.10	10.00	2.464	106	75	125				
Barium	116.224	1.0	10.00	109.3	69.6	75	125				S
Manganese	106.755	0.50	100.0	3.775	103	75	125				
Molybdenum	16.024	0.50	10.00	4.660	114	75	125				
Selenium	11.705	0.50	10.00	1.489	102	75	125				

Sample ID: **N041932-007BMSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **8/22/2020** RunNo: **147077**
Client ID: **ZZZZZZ** Batch ID: **81859** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **8/31/2020** SeqNo: **3922782**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	13.023	0.10	10.00	2.464	106	75	125	13.07	0.381	20	
Barium	115.412	1.0	10.00	109.3	61.4	75	125	116.2	0.701	20	S
Manganese	107.479	0.50	100.0	3.775	104	75	125	106.8	0.676	20	
Molybdenum	15.603	0.50	10.00	4.660	109	75	125	16.02	2.66	20	
Selenium	11.041	0.50	10.00	1.489	95.5	75	125	11.71	5.84	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N041932
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: **N041932-004B-PS** SampType: **PS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: RunNo: **147077**
Client ID: **ZZZZZZ** Batch ID: **81859** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **8/31/2020** SeqNo: **3922771**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	13.059	0.10	10.00	2.426	106	80	120				
Barium	116.140	1.0	10.00	107.2	89.7	80	120				
Manganese	104.069	0.50	100.0	0.5052	104	80	120				
Molybdenum	15.930	0.50	10.00	4.640	113	80	120				
Selenium	11.292	0.50	10.00	1.472	98.2	80	120				

Sample ID: **N041932-007B-PS** SampType: **PS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: RunNo: **147077**
Client ID: **ZZZZZZ** Batch ID: **81859** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **8/31/2020** SeqNo: **3922780**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	13.247	0.10	10.00	2.464	108	80	120				
Barium	114.446	1.0	10.00	109.3	51.8	80	120				S
Manganese	106.547	0.50	100.0	3.775	103	80	120				
Molybdenum	15.522	0.50	10.00	4.660	109	80	120				
Selenium	11.335	0.50	10.00	1.489	98.5	80	120				

Qualifiers:

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

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

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Client: Arcadis	Report to: Dan Bush	Bill to: Marty Bloes	EDD Requirement
Address: 1410 Rocky Ridge Dr # 330	Company: Arcadis	Address:	Excel EDD
Address: Roseville, CA 95661	Email: dan.bush@arcadis.com, daniel.moore@critigen.com	Address:	Geotracker
Phone: 916-786-3302 Fax:	Address: 1410 Rocky Ridge Dr # 330 Roseville, CA 95661	Email to: mbloes@pivox.com	P.O.#
Submitted By: Rissie Top		Phone: 949-727-1400, ext 200	Fax:
Title: Field Tech	Phone: 916-786-3302 Fax:		
Signature: Date: 8/20/20	Sampled By: Rissie Top		
I hereby authorize ASSET Labs to perform the tests indicated below.	I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.		
Project Name: PG&E Topock - RMP	Signature: Date: 8/20/20		
Project Number: RC000753.801D			

EDD Requirement	
Excel EDD	
Geotracker	
Labspec	
Others	Ü
Specify: RWQCB	
Global ID:	

QA/QC	
RTNE	
RWQCB	Ü
CalTrans	
LEVEL III	
LEVEL IV	
Regulatory	
Specify State:	

Sample Receipt Condition	Y	N
1. Chilled	✓	
2. Headspace		
3. Container Intact	✓	
4. Seal Present		✓
5. IR number	2	
6. Method of Cooling: Ice		
Sample Temp: 3.1/3.7/1.4c		

Courier: ASSET
Tracking No.:

Matrix			
Ground	x	Sediment	
Potable		Soil	
NPDES		Other Solid	
Surface			

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (3x250 mL poly)	Field QC Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (TRUE)	Dissolved metals (SW6010B/SW6020Adis) FF; HNO3 (3x500mL poly) Cr	Dissolved metals (SW6010B/SW6020Adis) FF; HNO3 (3x500mL poly) Ca, Mg, K, Na, B	Dissolved metals (SW6010B/SW6020Adis) FF; HNO3 (3x500mL poly) As, Mn, Fe, Se, Mo, Ba	Total metals (SW6010B), HNO3 (500 mL poly) Fe	Anions (E300.0); Br, Cl, SO4 (1 liter poly)	Specific Conductance (E120.1) (1 liter poly)	pH (SM4500HB) (1 liter poly)	TDS (SM2540C) (1 liter poly)	Alkalinity (Total, reported as CaCO3) (SM2320B) (1 liter poly)	TSS (SM2540) (1 liter poly)	Nitrate/Nitrite (SM4500N03) Nitrogen; H2SO4 (125 mL poly)	TRUE	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
1	N041932-01	C-CON-D-Q320	8/20/2020	8:40		X		X		X	X		X	X			X	X		E	7	P	BNS	
2	-02	C-CON-S-Q320	8/20/2020	8:54		X		X		X	X		X	X			X	X		E	7	P	BNS	
3	-03	C-NR4-S-Q320	8/20/2020	10:57		X		X		X	X		X	X			X	X		E	7	P	BNS	
4	-04	C-NR1-D-Q320	8/20/2020	9:17		X		X		X	X		X	X			X	X		E	7	P	BNS	
5	-05	C-NR1-S-Q320	8/20/2020	9:33		X		X		X	X		X	X			X	X		E	7	P	BNS	
6	-06	C-NR3-D-Q320	8/20/2020	9:56		X		X		X	X		X	X			X	X		E	7	P	BNS	
7	-07	C-MAR-D-Q320	8/20/2020	7:25		X		X		X	X		X	X			X	X		E	7	P	BNS	MS/MSD
8	-08	C-MAR-S-Q320	8/20/2020	7:47		X		X		X	X		X	X			X	X		E	7	P	BNS	
9	-09	C-NR3-S-Q320	8/20/2020	10:11		X		X		X	X		X	X			X	X		E	7	P	BNS	
10	-10	R-19-Q320	8/20/2020	8:14		X		X		X	X		X	X			X	X		E	7	P	BNS	
11	-11	RRB-Q320	8/20/2020	11:20		X		X		X	X		X	X			X	X		E	7	P	BNS	
12	-12	MW-908-Q320	8/20/2020	7:35		X		X		X	X		X	X			X	X		E	7	P	BNS	
13	-13	MW-910-Q320	8/20/2020	10:47		X		X		X	X		X	X			X	X		E	7	P	BNS	
14	-14	C-NR4-D-Q320	8/20/2020	10:37		X		X		X	X		X	X			X	X		E	7	P	BNS	

Reliquished by (Signature and Printed Name):	Date/Time:	Reliquished by (Signature and Printed Name):	Date/Time:
Rissie Top	8/20/20 1520		8/20/20 1520
Reliquished by (Signature and Printed Name):	Date/Time:	Reliquished by (Signature and Printed Name):	Date/Time:
	8-20-20 1740	Joaudra Rodriguez	8/20/20 1740
Reliquished by (Signature and Printed Name):	Date/Time:	Reliquished by (Signature and Printed Name):	Date/Time:

Turn Around Time (TAT)

- [ ] A = < 24 Hrs or Same Day TAT
- [ ] B = Next Workday
- [ ] C = 2 Workdays
- [ ] D = 3 Workdays
- [x] E = Routine 5-7 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Special Instruction:

Terms
1 All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
2 Regular TAT is 5-7 business days, surcharges will apply for rush analysis
Less than 24 Hrs =200% Next Day=100% 2 Workdays=50% 3 Workdays=35 % 4 Workdays=20%
3 Custom EDD formats will be an additional 3% of the total project price
4 Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price
5 Trip Blanks and Equipment Blanks are billable sample.
6 Asset Laboratories is not responsible for samples collected using incorrect methodology.
7 Terms are net 30 days.
8 All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
9 For subcontract analysis, TAT and Surcharges will vary

Preservatives:				Container Type:		
H=HCL	N=HNO_3	S=H_2SO_4	C=4°C	T=Tube	V=VOA	P=Pint
Z=Zn(AC)$_2$	O=NaOH	T=$Na_2S_2O_3$		J=Jar	B=Tedlar	G=Glass
Others/Specify:	B	(NH4)2SO4/NH4OH		M=Metal	M=Metal	C=Can

White=Laboratory Copy
Yellow=Customer's Copy

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

Contact us:
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691
California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F:562.219.7436
www.assetlaboratories.com

Client: Arcadis	Report to: Dan Bush	Bill to: Marty Bloes
Address: 1410 Rocky Ridge Dr # 330	Company: Arcadis	Address:
Address: Roseville, CA 95661	Email: dan.bush@arcadis.com; daniel.moore@critigen.com	Address:
Phone: 916-786-3302 Fax:	Address: 1410 Rocky Ridge Dr # 330 Roseville, CA 95661	Email to: mbloes@pivox.com P.O.#
Submitted By: Ryan Fay		Phone: 949-727-1400, ext 200 Fax:
Title: Field Tech	Phone: 916-786-3302 Fax:	
Signature: Date: 8/20/20	Sampled By: Ryan Fay	
I hereby authorize ASSET Labs to perform the tests indicated below	I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.	
Project Name: PG&E Topock - RMF	Signature: Date: 8/20/20	
Project Number: RC000753.0801		

Matrix			
Ground	x	Sediment	
Potable		Soil	
NPDES		Other Solid	
Surface			

EDD Requirement		QA/QC	
Excel EDD		RTNE	
Geotracker		RWQCB	Ü
Labspec		CalTrans	
Others	Ü	LEVEL III	
Specify: RWQCB		LEVEL IV	
		Regulatory	
Global ID:		Specify State:	

Sample Receipt Condition	Y	N
1. Chilled	✓	
2. Headspace		✓
3. Container Intact	✓	
4. Seal Present		✓
5. IR number		✓
6. Method of Cooling: ICE		
Sample Temp: 3.1/3.7/1.4°C		
Courier: ASSET		
Tracking No.:		

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (3x250 mL poly)	Field QC Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (250 ml Poly)	Dissolved metals (SW6010B/SW6020Adis) FF; HNO3 Cr (3x500mL poly)	Dissolved metals (SW6010B/SW6020Adis) FF; HNO3 Ca, Mg, K, Na, B (3x500mL poly)	Dissolved metals (SW6010B/SW6020Adis) FF; HNO3 As, Mn, Fe, Se, Mo, Ba (3x500mL poly)	Total metals (SW6010B); HNO3 Fe (500 mL poly)	Anions (E300.0); Br, Cl, SO4 (1 liter poly)	Specific Conductance (E120.1) (1 liter poly)	pH (SM4500HB) (1 liter poly)	TDS (SM2540C) (1 liter poly)	Alkalinity (Total, reported as CaCO3) (SM2320B) (1 liter poly)	TSS (SM2540) (1 liter poly)	Nitrate/Nitrite (SM4500N03) Nitrogen; H2SO4 (125 mL poly)	TRUE	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
	N041932-15	SW1-Q220	8/20/2020	14:10		X		X					X	X						E	5	P	BNS	
	-16	SW2-Q220	8/20/2020	14:27		X		X					X	X						E	5	P	BNS	
	-17	AB3-3-Q320	8/20/2020	11:00			X													E	1	P	BN	Hold

Relinquished by (Signature and Printed Name)	Date/Time	Relinquished by (Signature and Printed Name)	Date/Time
Ryan Fay	8/20/20 1520		8/20/20 1520
	8-20-20 1740	Joaquin Rodriguez	8/20/20 1740

Turn Around Time (TAT)

- [ ] A = < 24 Hrs or Same Day TAT
- [ ] B = Next Workday
- [ ] C = 2 Workdays
- [ ] D = 3 Workdays
- [x] E = Routine 5-7 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Special Instruction:

Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
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Less than 24 Hrs.=200% Next Day=100% 2 Workdays=50% 3 Workdays=35 % 4 Workdays=20%
3. Custom EDD formats will be an additional 3% of the total project price
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.
5. Trip Blanks and Equipment Blanks are billable sample.
6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
7. Terms are net 30 days.
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
9. For subcontract analyses, TAT and Surcharges will vary.

Preservatives:			
H=HCL	N=HNO_3	S=H_2SO_4	C=4°C
Z=Zn(AC)$_2$	O=NaOH	T=$Na_2S_2O_3$	
Others/Specify:	B	(NH4)2SO4/NH4OH	

Container Type:		
T=Tube	V=VOA	P=Pint
J=Jar	B=Tedlar	G=Glass
M=Metal	M=Metal	C=Can

White=Laboratory Copy

Yellow=Customer's Copy

ASSET Laboratories

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

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

Cooler Received/Opened On:	8/20/2020	Workorder:	N041932
Rep sample Temp (Deg C):	3.1/3.7/1.4	IR Gun ID:	2
Temp Blank:	☑ Yes ☐ No		
Carrier name:	ASSET		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

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

Comments: Samples for pH received past holding time.
See client's Correspondence.

Checklist Completed By: YR YRJ 8/21/2020

Reviewed By: MBC MBC 8/22/2020

Subject: Topock - Sample ID Updates
From: Tina Rice <Tina.Rice@critigen.com>
Date: 8/21/2020, 3:30 PM
To: Yoandra Rodriguez <yoandra@assetlaboratories.com>
CC: "Laura.Madsen@arcadis.com" <Laura.Madsen@arcadis.com>

Hi Yoandra,

Please make the following sample ID updates:

WorkOrder	ClientSampID	Correct ClientSampID
N041932	SW1-Q220	SW1-Q320
N041932	SW1-Q220	SW1-Q320
N041932	SW1-Q220	SW1-Q320
N041932	SW1-Q220	SW1-Q320
N041932	SW2-Q220	SW2-Q320
N041932	SW2-Q220	SW2-Q320
N041932	SW2-Q220	SW2-Q320
N041932	SW2-Q220	SW2-Q320
N041928	MW-916-Q320	MW-916-0820

Thanks!

Tina

Tina Rice

Sr EDM Analyst

CRITIGEN

ASSET Laboratories

WORK ORDER Summary

21-Aug-20

WorkOrder: N041932

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.801D **QC Level:** Level IV **Date Received:** 8/20/2020

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N041932-001A	C-CON-D-Q320	8/20/2020 8:40:00 AM	9/1/2020	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N041932-001B			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			9/1/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			9/3/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N041932-001C			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N041932-001D			9/1/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			9/1/2020		SM4500-H+B	pH	☐	☐	☐	LSR
			9/1/2020		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	LSR
			9/1/2020			Total Suspended Solids Prep	☐	☐	☐	LSR
N041932-001E			9/3/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N041932-002A	C-CON-S-Q320	8/20/2020 8:54:00 AM	9/1/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N041932-002B			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			9/1/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			9/1/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N041932-002C			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N041932-002D			9/1/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR

ASSET Laboratories

WORK ORDER Summary

21-Aug-20

WorkOrder: N041932

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.801D **QC Level:** Level IV **Date Received:** 8/20/2020

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N041932-002D	C-CON-S-Q320	8/20/2020 8:54:00 AM	9/1/2020	Groundwater	SM4500-H+B	pH	☐	☐	☐	LSR
			9/1/2020		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	LSR
			9/1/2020			Total Suspended Solids Prep	☐	☐	☐	LSR
N041932-002E			9/1/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N041932-003A	C-NR4-S-Q320	8/20/2020 10:57:00 AM	9/1/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N041932-003B			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			9/1/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			9/1/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N041932-003C			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N041932-003D			9/1/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			9/1/2020		SM4500-H+B	pH	☐	☐	☐	LSR
			9/1/2020		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	LSR
			9/1/2020			Total Suspended Solids Prep	☐	☐	☐	LSR
N041932-003E			9/1/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N041932-004A	C-NR1-D-Q320	8/20/2020 9:17:00 AM	9/1/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☑	☐	WW
N041932-004B			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☑	☐	WW
			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☑	☐	WW
			9/1/2020		EPA 6010B	DISSOLVED METALS BY ICP	☐	☑	☐	WW

ASSET Laboratories

WORK ORDER Summary

21-Aug-20

WorkOrder: N041932

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.801D **QC Level:** Level IV **Date Received:** 8/20/2020

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N041932-004B	C-NR1-D-Q320	8/20/2020 9:17:00 AM	9/1/2020	Groundwater	EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☑	☐	WW
			9/1/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☑	☐	WW
N041932-004C			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☑	☐	WW
			9/1/2020		EPA 6010B	TOTAL METALS BY ICP	☐	☑	☐	WW
N041932-004D			9/1/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☑	☐	LSR
			9/1/2020		SM4500-H+B	pH	☐	☑	☐	LSR
			9/1/2020		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☑	☐	LSR
			9/1/2020			Total Suspended Solids Prep	☐	☑	☐	LSR
N041932-004E			9/1/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☑	☐	WW
N041932-005A	C-NR1-S-Q320	8/20/2020 9:33:00 AM	9/1/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N041932-005B			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			9/1/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			9/1/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N041932-005C			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N041932-005D			9/1/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			9/1/2020		SM4500-H+B	pH	☐	☐	☐	LSR
			9/1/2020		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	LSR
			9/1/2020			Total Suspended Solids Prep	☐	☐	☐	LSR

ASSET Laboratories

WORK ORDER Summary

21-Aug-20

WorkOrder: N041932

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.801D **QC Level:** Level IV **Date Received:** 8/20/2020

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N041932-005E	C-NR1-S-Q320	8/20/2020 9:33:00 AM	9/1/2020	Groundwater	SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N041932-006A	C-NR3-D-Q320	8/20/2020 9:56:00 AM	9/1/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N041932-006B			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			9/1/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			9/1/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N041932-006C			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N041932-006D			9/1/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			9/1/2020		SM4500-H+B	pH	☐	☐	☐	LSR
			9/1/2020		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	LSR
			9/1/2020			Total Suspended Solids Prep	☐	☐	☐	LSR
N041932-006E			9/1/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N041932-007A	C-MAR-D-Q320	8/20/2020 7:25:00 AM	9/1/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☑	☐	WW
N041932-007B			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☑	☐	WW
			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☑	☐	WW
			9/1/2020		EPA 6010B	DISSOLVED METALS BY ICP	☐	☑	☐	WW
			9/1/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☑	☐	WW
			9/1/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☑	☐	WW
N041932-007C			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☑	☐	WW

ASSET Laboratories

WORK ORDER Summary

21-Aug-20

WorkOrder: N041932

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.801D **QC Level:** Level IV **Date Received:** 8/20/2020

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N041932-007C	C-MAR-D-Q320	8/20/2020 7:25:00 AM	9/1/2020	Groundwater	EPA 6010B	TOTAL METALS BY ICP	☐	☑	☐	WW
N041932-007D			9/1/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☑	☐	LSR
			9/1/2020		SM4500-H+B	pH	☐	☑	☐	LSR
			9/1/2020		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☑	☐	LSR
			9/1/2020			Total Suspended Solids Prep	☐	☑	☐	LSR
N041932-007E			9/1/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☑	☐	WW
N041932-008A	C-MAR-S-Q320	8/20/2020 7:47:00 AM	9/1/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N041932-008B			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			9/1/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			9/1/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N041932-008C			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N041932-008D			9/1/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			9/1/2020		SM4500-H+B	pH	☐	☐	☐	LSR
			9/1/2020		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	LSR
			9/1/2020			Total Suspended Solids Prep	☐	☐	☐	LSR
N041932-008E			9/1/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N041932-009A	C-NR3-S-Q320	8/20/2020 10:11:00 AM	9/1/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N041932-009B			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

21-Aug-20

WorkOrder: N041932

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.801D **QC Level:** Level IV **Date Received:** 8/20/2020

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N041932-009B	C-NR3-S-Q320	8/20/2020 10:11:00 AM	9/1/2020	Groundwater	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			9/1/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			9/1/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N041932-009C			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N041932-009D			9/1/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			9/1/2020		SM4500-H+B	pH	☐	☐	☐	LSR
			9/1/2020		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	LSR
			9/1/2020			Total Suspended Solids Prep	☐	☐	☐	LSR
N041932-009E			9/1/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N041932-010A	R-19-Q320	8/20/2020 8:14:00 AM	9/1/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N041932-010B			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			9/1/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			9/1/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N041932-010C			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N041932-010D			9/1/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			9/1/2020		SM4500-H+B	pH	☐	☐	☐	LSR
			9/1/2020		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	LSR

ASSET Laboratories

WORK ORDER Summary

21-Aug-20

WorkOrder: N041932

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.801D **QC Level:** Level IV **Date Received:** 8/20/2020

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N041932-010D	R-19-Q320	8/20/2020 8:14:00 AM	9/1/2020	Groundwater		Total Suspended Solids Prep	☐	☐	☐	LSR
N041932-010E			9/1/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N041932-011A	RRB-Q320	8/20/2020 11:20:00 AM	9/1/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N041932-011B			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			9/1/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			9/1/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N041932-011C			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N041932-011D			9/1/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			9/1/2020		SM4500-H+B	pH	☐	☐	☐	LSR
			9/1/2020		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	LSR
			9/1/2020			Total Suspended Solids Prep	☐	☐	☐	LSR
N041932-011E			9/1/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N041932-012A	MW-908-Q320	8/20/2020 7:35:00 AM	9/1/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N041932-012B			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			9/1/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			9/1/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

21-Aug-20

WorkOrder: N041932

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.801D **QC Level:** Level IV **Date Received:** 8/20/2020

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N041932-012C	MW-908-Q320	8/20/2020 7:35:00 AM	9/1/2020	Groundwater	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N041932-012D			9/1/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			9/1/2020		SM4500-H+B	pH	☐	☐	☐	LSR
			9/1/2020		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	LSR
			9/1/2020			Total Suspended Solids Prep	☐	☐	☐	LSR
N041932-012E			9/1/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N041932-013A	MW-910-Q320	8/20/2020 10:47:00 AM	9/1/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N041932-013B			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			9/1/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			9/1/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N041932-013C			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N041932-013D			9/1/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			9/1/2020		SM4500-H+B	pH	☐	☐	☐	LSR
			9/1/2020		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	LSR
			9/1/2020			Total Suspended Solids Prep	☐	☐	☐	LSR
N041932-013E			9/1/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N041932-014A	C-NR4-D-Q320	8/20/2020 10:37:00 AM	9/1/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

21-Aug-20

WorkOrder: N041932

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.801D **QC Level:** Level IV **Date Received:** 8/20/2020

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N041932-014B	C-NR4-D-Q320	8/20/2020 10:37:00 AM	9/1/2020	Groundwater	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			9/1/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			9/1/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N041932-014C			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N041932-014D			9/1/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			9/1/2020		SM4500-H+B	pH	☐	☐	☐	LSR
			9/1/2020		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	LSR
			9/1/2020			Total Suspended Solids Prep	☐	☐	☐	LSR
N041932-014E			9/1/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N041932-015A	SW1-Q320	8/20/2020 2:10:00 PM	9/1/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N041932-015B			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N041932-015C			9/1/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			9/1/2020		SM4500-H+B	pH	☐	☐	☐	LSR
N041932-016A	SW2-Q320	8/20/2020 2:27:00 PM	9/1/2020		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N041932-016B			9/1/2020		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/1/2020		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N041932-016C			9/1/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			9/1/2020		SM4500-H+B	pH	☐	☐	☐	LSR

ASSET Laboratories

WORK ORDER Summary

21-Aug-20

WorkOrder: N041932

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.801D **QC Level:** Level IV **Date Received:** 8/20/2020

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N041932-017A	AB3-3-Q320	8/20/2020 11:00:00 AM	9/1/2020	GroundWater	EPA 218.6	Hexavalent Chromium by IC	☑	☐	☐	WW
N041932-018A	FOLDER	9/3/2020	9/1/2020		EDD	RWQCB	☐	☐	☐	LAB
			9/1/2020		Folder	Level IV Report	☐	☐	☐	LAB
			9/1/2020		Folder	Folder	☐	☐	☐	LAB
			9/3/2020		Folder	Folder	☐	☐	☐	LAB

September 17, 2020

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661

TEL: (916) 786-3302
FAX:

Workorder No.: N042067

RE: PG&E Topock - PMP, RC000753.801D

Attention: Dan Bush

Enclosed are the results for sample(s) received on September 01, 2020 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Nancy Sibucao
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - Las Vegas.

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

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

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

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

Samples were analyzed within method holding time except for pH. pH testing is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

Analytical Comments for EPA 200.7_Dissolved:

Matrix Spike (MS) is outside recovery criteria for Iron in QC sample N042064-001C-MS1 possibly due to matrix interference. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for some analytes in QC samples N042064-001C-MS1, N042064-001C-MSD1, N042067-001B-MS2 and N042067-001B-MSD2 since the analyte concentration in the sample is disproportionate to the spike level. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

RPD for Matrix Spike (MS) and Matrix Spike Duplicate (MSD) is outside criteria for Iron ; however, the associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 200.8_Dissolved:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Chromium in QC samples N042067-001B-MS and N042067-001B-MSD since the analyte concentration in the sample is disproportionate to the spike level. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

ASSET Laboratories

Date: *17-Sep-20*

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PMP, RC000753.801D
Lab Order: N042067
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N042067-001A	TW-03D-0920	Groundwater	9/1/2020 6:15:00 AM	9/1/2020	9/17/2020
N042067-001B	TW-03D-0920	Groundwater	9/1/2020 6:15:00 AM	9/1/2020	9/17/2020
N042067-001C	TW-03D-0920	Groundwater	9/1/2020 6:15:00 AM	9/1/2020	9/17/2020
N042067-001D	TW-03D-0920	Groundwater	9/1/2020 6:15:00 AM	9/1/2020	9/17/2020

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *17-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0920
Lab Order:	N042067	**Collection Date:**	9/1/2020 6:15:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042067-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_200902D**	QC Batch: **R147106**			PrepDate:			Analyst: **LR**
Specific Conductance	7000	0.10	0.10		umhos/cm	1	9/2/2020 11:00 AM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042067
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 120.1_WPGE

Sample ID: **N042064-001ADUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **147106**
Client ID: **ZZZZZZ** Batch ID: **R147106** TestNo: **EPA 120.1** Analysis Date: **9/2/2020** SeqNo: **3924097**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	7010.000	0.10						7020	0.143	2	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *17-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0920
Lab Order:	N042067	**Collection Date:**	9/1/2020 6:15:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042067-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_200902B**	QC Batch: **R147104**			PrepDate:			Analyst: **LR**
pH	7.3	0.10	0.10	H	pH Units	1	9/2/2020 09:55 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	9/2/2020 09:55 AM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042067
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 150.1_4500H+B_W

Sample ID: **N042067-001CDUP** SampType: **DUP** TestCode: **150.1_4500H** Units: **pH Units** Prep Date: RunNo: **147104**
Client ID: **ZZZZZZ** Batch ID: **R147104** TestNo: **SM4500-H+B** Analysis Date: **9/2/2020** SeqNo: **3924089**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.290	0.10						7.280	0.137	10	H
Temp. at time of pH Analysis	25.000	0.10						25.00	0	10	H

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *17-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0920
Lab Order:	N042067	**Collection Date:**	9/1/2020 6:15:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042067-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE							
			SM2540C				
RunID: **NV00922-WC_200902H**	QC Batch: **82030**				PrepDate:	**9/2/2020**	Analyst: **LR**
Total Dissolved Solids (Residue, Filterable)	4500	50	50		mg/L	1	9/2/2020 01:12 PM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042067
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.1_2540C_W

Sample ID: **LCS-82030** SampType: **LCS** TestCode: **160.1_2540C** Units: **mg/L** Prep Date: **9/2/2020** RunNo: **147135**
Client ID: **LCSW** Batch ID: **82030** TestNo: **SM2540C** Analysis Date: **9/2/2020** SeqNo: **3924707**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	972.000	10	1000	0	97.2	80	120				

Sample ID: **MB-82030** SampType: **MBLK** TestCode: **160.1_2540C** Units: **mg/L** Prep Date: **9/2/2020** RunNo: **147135**
Client ID: **PBW** Batch ID: **82030** TestNo: **SM2540C** Analysis Date: **9/2/2020** SeqNo: **3924708**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	ND	10									

Sample ID: **N042067-001CDUP** SampType: **DUP** TestCode: **160.1_2540C** Units: **mg/L** Prep Date: **9/2/2020** RunNo: **147135**
Client ID: **ZZZZZZ** Batch ID: **82030** TestNo: **SM2540C** Analysis Date: **9/2/2020** SeqNo: **3924718**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	4500.000	50						4540	0.885	5	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *17-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0920
Lab Order:	N042067	**Collection Date:**	9/1/2020 6:15:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042067-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
			EPA 200.7				
RunID: **NV00922-ICP2_200908A**	QC Batch: **82045**			PrepDate:	**9/3/2020**		Analyst: **DJ**
Calcium	200000	85	500		µg/L	1	9/8/2020 08:35 AM
Iron	36	18	20		µg/L	1	9/8/2020 08:35 AM
Magnesium	29000	48	100		µg/L	1	9/8/2020 08:35 AM
Sodium	1400000	9600	50000		µg/L	100	9/16/2020 10:51 AM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042067
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WDPGEPPB

Sample ID: **N042064-001C-MS1** SampType: **MS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **9/3/2020** RunNo: **147219**
Client ID: **ZZZZZZ** Batch ID: **82045** TestNo: **EPA 200.7** Analysis Date: **9/8/2020** SeqNo: **3928282**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	191864.130	500	10000	176100	157	75	125				S
Iron	139.254	20	100.0	142.4	-3.12	75	125				S
Magnesium	36671.856	100	10000	26100	106	75	125				

Sample ID: **N042064-001C-MSD** SampType: **MSD** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **9/3/2020** RunNo: **147219**
Client ID: **ZZZZZZ** Batch ID: **82045** TestNo: **EPA 200.7** Analysis Date: **9/8/2020** SeqNo: **3928283**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	198753.745	500	10000	176100	226	75	125	191900	3.53	20	S
Iron	223.705	20	100.0	142.4	81.3	75	125	139.3	46.5	20	R
Magnesium	38393.236	100	10000	26100	123	75	125	36670	4.59	20	

Sample ID: **MB-82045** SampType: **MBLK** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **9/3/2020** RunNo: **147219**
Client ID: **PBW** Batch ID: **82045** TestNo: **EPA 200.7** Analysis Date: **9/8/2020** SeqNo: **3928288**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	99.649	500									
Iron	ND	20									
Magnesium	ND	100									

Sample ID: **LCS1-82045** SampType: **LCS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **9/3/2020** RunNo: **147219**
Client ID: **LCSW** Batch ID: **82045** TestNo: **EPA 200.7** Analysis Date: **9/8/2020** SeqNo: **3928289**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	10974.654	500	10000	0	110	85	115				
Iron	91.016	20	100.0	0	91.0	85	115				
Magnesium	10744.516	100	10000	0	107	85	115				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042067
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WDPGEPPB

Sample ID: **MB-82045** SampType: **MBLK** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **9/3/2020** RunNo: **147356**
Client ID: **PBW** Batch ID: **82045** TestNo: **EPA 200.7** Analysis Date: **9/16/2020** SeqNo: **3935924**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	ND	500									

Sample ID: **LCS2-82045** SampType: **LCS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **9/3/2020** RunNo: **147356**
Client ID: **LCSW** Batch ID: **82045** TestNo: **EPA 200.7** Analysis Date: **9/16/2020** SeqNo: **3935925**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	22044.952	500	20000	0	110	85	115				

Sample ID: **N042067-001B-MS2** SampType: **MS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **9/3/2020** RunNo: **147356**
Client ID: **ZZZZZZ** Batch ID: **82045** TestNo: **EPA 200.7** Analysis Date: **9/16/2020** SeqNo: **3935929**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	1433045.591	50000	20000	1439000	-32.2	75	125				S

Sample ID: **N042067-001B-MSD** SampType: **MSD** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **9/3/2020** RunNo: **147356**
Client ID: **ZZZZZZ** Batch ID: **82045** TestNo: **EPA 200.7** Analysis Date: **9/16/2020** SeqNo: **3935930**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	1434434.762	50000	20000	1439000	-25.3	75	125	1433000	0.0969	20	S

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042067
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WDPGEPPB

Sample ID: **N042064-001C-PS** SampType: **PS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: RunNo: **147219**
Client ID: **ZZZZZZ** Batch ID: **82045** TestNo: **EPA 200.7** Analysis Date: **9/8/2020** SeqNo: **3928281**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	194504.111	500	10000	176100	184	80	120				S
Iron	173.532	20	100.0	142.4	31.2	80	120				S
Magnesium	37206.231	100	10000	26100	111	80	120				

Sample ID: **N042067-001B-PS** SampType: **PS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: RunNo: **147356**
Client ID: **ZZZZZZ** Batch ID: **82045** TestNo: **EPA 200.7** Analysis Date: **9/16/2020** SeqNo: **3935928**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	1428741.971	50000	20000	1439000	-53.7	80	120				S

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *17-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0920
Lab Order:	N042067	**Collection Date:**	9/1/2020 6:15:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042067-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICPMS							
EPA 200.8							
RunID: **NV00922-ICP8_200904C** QC Batch: **82043** PrepDate: **9/3/2020** Analyst: **CEI**							
Manganese	20	0.26	0.50		µg/L	1	9/4/2020 02:18 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042067
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_WDISS_TPK

Sample ID: **MB-82043** SampType: **MBLK** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **9/3/2020** RunNo: **147192**
Client ID: **PBW** Batch ID: **82043** TestNo: **EPA 200.8** Analysis Date: **9/4/2020** SeqNo: **3927480**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	0.50									

Sample ID: **LCS-82043** SampType: **LCS** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **9/3/2020** RunNo: **147192**
Client ID: **LCSW** Batch ID: **82043** TestNo: **EPA 200.8** Analysis Date: **9/4/2020** SeqNo: **3927483**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	103.920	0.50	100.0	0	104	85	115				

Sample ID: **N042067-001B-MS** SampType: **MS** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **9/3/2020** RunNo: **147192**
Client ID: **ZZZZZZ** Batch ID: **82043** TestNo: **EPA 200.8** Analysis Date: **9/4/2020** SeqNo: **3927490**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	117.249	0.50	100.0	20.32	96.9	75	125				

Sample ID: **N042067-001B-MSD** SampType: **MSD** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **9/3/2020** RunNo: **147192**
Client ID: **ZZZZZZ** Batch ID: **82043** TestNo: **EPA 200.8** Analysis Date: **9/4/2020** SeqNo: **3927492**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	116.517	0.50	100.0	20.32	96.2	75	125	117.2	0.626	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *17-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0920
Lab Order:	N042067	**Collection Date:**	9/1/2020 6:15:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042067-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_200903A** QC Batch: **R147159** PrepDate: Analyst: **QBM**							
Hexavalent Chromium	430	1.7	10		µg/L	50	9/3/2020 04:09 PM
DISSOLVED METALS BY ICP-MS							
EPA 200.8							
RunID: **NV00922-ICP8_200904C** QC Batch: **82043** PrepDate: **9/3/2020** Analyst: **CEI**							
Chromium	420	0.65	5.0		µg/L	5	9/4/2020 02:22 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042067
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8Dis_CrPGE_TPK

Sample ID: **MB-82043** SampType: **MBLK** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: **9/3/2020** RunNo: **147192**
Client ID: **PBW** Batch ID: **82043** TestNo: **EPA 200.8** Analysis Date: **9/4/2020** SeqNo: **3927424**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID: **LCS-82043** SampType: **LCS** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: **9/3/2020** RunNo: **147192**
Client ID: **LCSW** Batch ID: **82043** TestNo: **EPA 200.8** Analysis Date: **9/4/2020** SeqNo: **3927427**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	10.031	1.0	10.00	0	100	85	115				

Sample ID: **N042067-001B-MS** SampType: **MS** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: **9/3/2020** RunNo: **147192**
Client ID: **ZZZZZZ** Batch ID: **82043** TestNo: **EPA 200.8** Analysis Date: **9/4/2020** SeqNo: **3927435**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	434.202	5.0	10.00	418.2	160	75	125				S

Sample ID: **N042067-001B-MSD** SampType: **MSD** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: **9/3/2020** RunNo: **147192**
Client ID: **ZZZZZZ** Batch ID: **82043** TestNo: **EPA 200.8** Analysis Date: **9/4/2020** SeqNo: **3927439**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	436.441	5.0	10.00	418.2	182	75	125	434.2	0.514	20	S

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042067
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **MB-R147159** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147159**
Client ID: **PBW** Batch ID: **R147159** TestNo: **EPA 218.6** Analysis Date: **9/3/2020** SeqNo: **3925494**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **LCS-R147159** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147159**
Client ID: **LCSW** Batch ID: **R147159** TestNo: **EPA 218.6** Analysis Date: **9/3/2020** SeqNo: **3925495**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.942	0.20	5.000	0	98.8	90	110				

Sample ID: **N042079-001BDUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147159**
Client ID: **ZZZZZZ** Batch ID: **R147159** TestNo: **EPA 218.6** Analysis Date: **9/3/2020** SeqNo: **3925499**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	821.040	20						814.0	0.862	20	

Sample ID: **N042079-001BMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147159**
Client ID: **ZZZZZZ** Batch ID: **R147159** TestNo: **EPA 218.6** Analysis Date: **9/3/2020** SeqNo: **3925500**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1339.450	20	500.0	814.0	105	90	110				

Sample ID: **N042080-001BMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147159**
Client ID: **ZZZZZZ** Batch ID: **R147159** TestNo: **EPA 218.6** Analysis Date: **9/3/2020** SeqNo: **3925501**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	140.211	2.0	50.00	90.29	99.9	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042067
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N042080-001BMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147159**
Client ID: **ZZZZZZ** Batch ID: **R147159** TestNo: **EPA 218.6** Analysis Date: **9/3/2020** SeqNo: **3925502**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	140.010	2.0	50.00	90.29	99.4	90	110	140.2	0.143	20	

Sample ID: **N042046-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147159**
Client ID: **ZZZZZZ** Batch ID: **R147159** TestNo: **EPA 218.6** Analysis Date: **9/3/2020** SeqNo: **3925505**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.948	0.20	1.000	0.9550	99.3	90	110				

Sample ID: **N042044-001ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147159**
Client ID: **ZZZZZZ** Batch ID: **R147159** TestNo: **EPA 218.6** Analysis Date: **9/3/2020** SeqNo: **3925507**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	3.712	0.20						3.732	0.527	20	

Sample ID: **N042064-001BMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147159**
Client ID: **ZZZZZZ** Batch ID: **R147159** TestNo: **EPA 218.6** Analysis Date: **9/3/2020** SeqNo: **3925521**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	678.815	10	250.0	424.2	102	90	110				

Sample ID: **N042064-002CMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147159**
Client ID: **ZZZZZZ** Batch ID: **R147159** TestNo: **EPA 218.6** Analysis Date: **9/3/2020** SeqNo: **3925523**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.147	0.20	1.000	0.1327	101	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042067
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N042067-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **147159**
Client ID: **ZZZZZZ** Batch ID: **R147159** TestNo: **EPA 218.6** Analysis Date: **9/3/2020** SeqNo: **3925527**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	680.465	10	250.0	427.7	101	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042067
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8Dis_CrPGE_TPK

Sample ID: **N042067-001B-PS** SampType: **PS** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: RunNo: **147192**
Client ID: **ZZZZZZ** Batch ID: **82043** TestNo: **EPA 200.8** Analysis Date: **9/4/2020** SeqNo: **3927433**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	425.767	5.0	10.00	418.2	75.7	80	120				S

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *17-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0920
Lab Order:	N042067	**Collection Date:**	9/1/2020 6:15:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042067-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ALKALINITY, SPECIATED							
			SM 2320 B				
RunID: **NV00922-WC_200904B**	QC Batch: **R147158**			PrepDate:			Analyst: **LR**
Alkalinity, Total (As CaCO3)	150	1.2	5.0		mg/L	1	9/4/2020 09:35 AM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042067
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 2320_W_SP

Sample ID: **LCS-R147158** SampType: **LCS** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **147158**
Client ID: **LCSW** Batch ID: **R147158** TestNo: **SM 2320 B** Analysis Date: **9/4/2020** SeqNo: **3925483**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	97.280	5.0	100.0	0	97.3	85	115				

Sample ID: **MB-R147158** SampType: **MBLK** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **147158**
Client ID: **PBW** Batch ID: **R147158** TestNo: **SM 2320 B** Analysis Date: **9/4/2020** SeqNo: **3925484**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	5.0									

Sample ID: **N042081-001BDUP** SampType: **DUP** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **147158**
Client ID: **ZZZZZZ** Batch ID: **R147158** TestNo: **SM 2320 B** Analysis Date: **9/4/2020** SeqNo: **3925487**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	35.565	5.0						35.56	0	30	

Sample ID: **N042081-002BMS** SampType: **MS** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **147158**
Client ID: **ZZZZZZ** Batch ID: **R147158** TestNo: **SM 2320 B** Analysis Date: **9/4/2020** SeqNo: **3925489**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	164.226	5.0	100.0	70.08	94.1	75	125				

Sample ID: **N042081-002BMSD** SampType: **MSD** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **147158**
Client ID: **ZZZZZZ** Batch ID: **R147158** TestNo: **SM 2320 B** Analysis Date: **9/4/2020** SeqNo: **3925490**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	165.272	5.0	100.0	70.08	95.2	75	125	164.2	0.635	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *17-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0920
Lab Order:	N042067	**Collection Date:**	9/1/2020 6:15:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042067-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: **NV00922-IC8_200911B** QC Batch: **R147296** PrepDate: Analyst: **JBB**							
Chloride	2000	17	250		mg/L	500	9/11/2020 05:37 PM
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: **NV00922-IC8_200916B** QC Batch: **R147360** PrepDate: Analyst: **JBB**							
Sulfate	470	2.0	25		mg/L	50	9/16/2020 06:32 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042067
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CLPGE

Sample ID: **MB-R147296_CL** SampType: **MBLK** TestCode: **300_W_CLPG** Units: **mg/L** Prep Date: RunNo: **147296**
Client ID: **PBW** Batch ID: **R147296** TestNo: **EPA 300.0** Analysis Date: **9/11/2020** SeqNo: **3932472**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.50									

Sample ID: **LCS-R147296_CL** SampType: **LCS** TestCode: **300_W_CLPG** Units: **mg/L** Prep Date: RunNo: **147296**
Client ID: **LCSW** Batch ID: **R147296** TestNo: **EPA 300.0** Analysis Date: **9/11/2020** SeqNo: **3932473**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	1.986	0.50	2.000	0	99.3	90	110				

Sample ID: **N042067-001CDUP** SampType: **DUP** TestCode: **300_W_CLPG** Units: **mg/L** Prep Date: RunNo: **147296**
Client ID: **ZZZZZZ** Batch ID: **R147296** TestNo: **EPA 300.0** Analysis Date: **9/11/2020** SeqNo: **3932477**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	2020.350	250						2029	0.412	20	

Sample ID: **N042067-001CMS** SampType: **MS** TestCode: **300_W_CLPG** Units: **mg/L** Prep Date: RunNo: **147296**
Client ID: **ZZZZZZ** Batch ID: **R147296** TestNo: **EPA 300.0** Analysis Date: **9/11/2020** SeqNo: **3932478**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	3035.900	250	1000	2029	101	80	120				

Sample ID: **N042067-001CMSD** SampType: **MSD** TestCode: **300_W_CLPG** Units: **mg/L** Prep Date: RunNo: **147296**
Client ID: **ZZZZZZ** Batch ID: **R147296** TestNo: **EPA 300.0** Analysis Date: **9/11/2020** SeqNo: **3932479**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	3050.000	250	1000	2029	102	80	120	3036	0.463	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042067
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: **MB2-R147360_SO4** SampType: **MBLK** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **147360**
Client ID: **PBW** Batch ID: **R147360** TestNo: **EPA 300.0** Analysis Date: **9/16/2020** SeqNo: **3936434**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.50									

Sample ID: **LCS2-R147360_SO4** SampType: **LCS** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **147360**
Client ID: **LCSW** Batch ID: **R147360** TestNo: **EPA 300.0** Analysis Date: **9/16/2020** SeqNo: **3936435**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.937	0.50	4.000	0	98.4	90	110				

Sample ID: **N042067-001CDUP** SampType: **DUP** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **147360**
Client ID: **ZZZZZZ** Batch ID: **R147360** TestNo: **EPA 300.0** Analysis Date: **9/16/2020** SeqNo: **3936437**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	473.380	25						474.0	0.138	20	

Sample ID: **N042067-001CMS** SampType: **MS** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **147360**
Client ID: **ZZZZZZ** Batch ID: **R147360** TestNo: **EPA 300.0** Analysis Date: **9/16/2020** SeqNo: **3936438**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	675.025	25	200.0	474.0	100	80	120				

Sample ID: **N042067-001CMSD** SampType: **MSD** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **147360**
Client ID: **ZZZZZZ** Batch ID: **R147360** TestNo: **EPA 300.0** Analysis Date: **9/16/2020** SeqNo: **3936439**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	679.260	25	200.0	474.0	103	80	120	675.0	0.625	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *17-Sep-20*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0920
Lab Order:	N042067	**Collection Date:**	9/1/2020 6:15:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N042067-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_200910B** QC Batch: **R147263** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	2.9	0.16	0.25		mg/L	5	9/10/2020 12:43 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N042067
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID: **MB-R147263** SampType: **MBLK** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147263**
Client ID: **PBW** Batch ID: **R147263** TestNo: **SM4500-NO3** Analysis Date: **9/10/2020** SeqNo: **3930743**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID: **LCS-R147263** SampType: **LCS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147263**
Client ID: **LCSW** Batch ID: **R147263** TestNo: **SM4500-NO3** Analysis Date: **9/10/2020** SeqNo: **3930744**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.497	0.050	0.5000	0	99.3	85	115				

Sample ID: **N042113-001CMS** SampType: **MS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147263**
Client ID: **ZZZZZZ** Batch ID: **R147263** TestNo: **SM4500-NO3** Analysis Date: **9/10/2020** SeqNo: **3930746**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.565	0.050	0.5000	0.1383	85.3	75	125				

Sample ID: **N042113-001CMSD** SampType: **MSD** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147263**
Client ID: **ZZZZZZ** Batch ID: **R147263** TestNo: **SM4500-NO3** Analysis Date: **9/10/2020** SeqNo: **3930747**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.618	0.050	0.5000	0.1383	96.0	75	125	0.5648	9.01	20	

Sample ID: **N042067-001DDUP** SampType: **DUP** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **147263**
Client ID: **ZZZZZZ** Batch ID: **R147263** TestNo: **SM4500-NO3** Analysis Date: **9/10/2020** SeqNo: **3930749**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	2.785	0.25						2.923	4.84	20	

Qualifiers:

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

ARCUS02 C: 9/15/2020 12:00 AM
FOLDER R: 9/1/2020
N042067-002A 1 of 1

ASSET LABORATORIES

ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

Page 1 of 1

Client: Arcadis	Report to: Dan Bush	Bill to: Marty Bloes	
Address: 1410 Rocky Ridge Dr # 330	Company: Arcadis	Address:	
Address: Roseville, CA 95661	Email: dan.bush@arcadis.com, daniel.moore@critigen.com	Address:	
Phone: 916-786-3302 / Fax:	Address: 1410 Rocky Ridge Dr # 330, Roseville, CA 95661	Email to: mbloes@pivox.com	P.O.#: SWA-ASSET-C9817-051
Submitted By: Riggie Tep		Phone: 949-727-1400, ext 200	Fax:
Title: Field Tech	Phone: 916-786-3302 / Fax:		
Signature: RT Date: 9/1/20	Sampled By: Riggie Tep		
I hereby authorize ASSET Labs to perform the tests indicated below.	I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for		
Project Name: PG&E Topock - PMP	Signature: RT Date: 9/1/20		
Project Number: RC000753.801D			

EDD Requirement		QAPP		Sample Receipt Condition	Y	N
Excel EDD		RTNE		1. Chilled	X	
Geotracker		RWQCB	✓	2. Headspace		
Labspec		CalTrans		3. Container Intact	X	
Others	✓	LEVEL III		4. Seal Present		
Specify: RWQCB		LEVEL IV		5. IR number 2		
Global ID:		Regulatory		6. Method of Cooling: ICE		
		Specify State:		Sample Temp: 1.8°C		

Courier: ASSET
Tracking No.:

Matrix			
Ground	x	Sediment	
Potable		Soil	
NPDES		Other Solid	
Surface			

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH		Dissolved metals (EPA 200.8) FF; HNO3, 500 mL poly Cr, Mn	Dissolved metals (EPA200.7) FF; HNO3 Ca, Mg, Fe, Na,	Dissolved metals (SW6010B/SW6020Adis) FF; HNO3 As, Mn, Fe, Se, Mo, Ba	Total metals (SW6010B); HNO3 Fe	Anions (E300.0); Cl, SO4	Specific Conductance (E120.1)	pH (SM4500HB)	TDS (SM2540C)	Alkalinity (Total, reported as CaCO3) (SM2320B)	TSS (SM2540)	Nitrate/Nitrite (SM4500N03) Nitrate; H2SO4	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
						250 mL poly		1 L poly	1 L poly	1 L poly	500 mL poly	1 liter poly	1 liter poly	1 liter poly	1 liter poly	1 liter poly	1 liter poly	125 mL poly					
1	N042067-01	TW-03D-0920	~~9/1/20 1015~~ @ 9/1/20	0615		X		X	X			X	X	X	X	X		X	E	4	P	BN	
2		~~PE-01-0920~~				X		X	X			X	X	X	X	X		X	E	4	P	BN	
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							

Relinquished by (Signature and Printed Name):	Date/Time:	Relinquished by (Signature and Printed Name):	Date/Time:
RT Riggie Tep 9/1/20	1650	MB CARTIN	9/1/20 @ 1650
REL/REC! MBCARTIN			9/1/20 @ 1830

Turn Around Time (TAT)

	A	< 24 Hrs or Same Day TAT
	B	= Next Workday
	C	= 2 Workdays
	D	= 3 Workdays
X	E	= Routine 5-7 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Special Instruction:
Tittle 22 Metals - Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
   Less than 24 Hrs.=200% Next Day=100% 2 Workdays=50% 3 Workdays=35 % 4 Workdays=20%
3. Custom EDD formats will be an additional 3% of the total project price.
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.
5. Trip Blanks and Equipment Blanks are billable sample.
6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
7. Terms are net 30 days.
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
9. For subcontract analysis, TAT and Surcharges will vary.

Preservatives:

H=HCL	N=HNO_3	S=H_2SO_4	C=4°C
Z=$Zn(AC)_2$	O=NaOH	T=$Na_2S_2O_3$	
Others/Specify:	B	(NH4)2SO4/NH4OH	

Container Type:

T=Tube	V=VOA	P=Pint
J=Jar	B=Tedlar	G=Glass
M=Metal	M=Metal	C=Can

White=Laboratory Copy Yellow=Customer's Copy

ASSET Laboratories

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

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

Cooler Received/Opened On:	9/1/2020	Workorder:	N042067
Rep sample Temp (Deg C):	1.8	IR Gun ID:	2
Temp Blank:	☑ Yes ☐ No		
Carrier name:	ASSET		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

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

Comments: Sample for pH received past holding time.

For:

Checklist Completed By: MBC YRJ 9/2/2020

Reviewed By: MBC 9/2/2020

ASSET Laboratories

WORK ORDER Summary

02-Sep-20

WorkOrder: N042067

Client ID: ARCUS02

Project: PG&E Topock - PMP, RC000753.801D **QC Level:** Level IV **Date Received:** 9/1/2020

Comments: Title 22 Metals: Ab, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni Se, Ag, Tl, V, Zn, K, Na.

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N042067-001A	TW-03D-0920	9/1/2020 6:15:00 AM	9/16/2020	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N042067-001B			9/16/2020			AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/16/2020		EPA 200.7	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			9/16/2020			AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			9/16/2020		EPA 200.8	DISSOLVED METALS BY ICPMS	☐	☐	☐	WW
			9/16/2020		EPA 200.8	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N042067-001C			9/16/2020		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			9/16/2020		SM4500-H+B	pH	☐	☐	☐	LSR
			9/16/2020		SM2540C	TOTAL FILTERABLE RESIDUE	☐	☐	☐	LSR
			9/16/2020			Total Dissolved Solids Prep	☐	☐	☐	LSR
			9/16/2020		SM 2320 B	ALKALINITY, SPECIATED	☐	☐	☐	LSR
			9/16/2020		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	☐	☐	☐	LSR
			9/16/2020		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	☐	☐	☐	LSR
			9/16/2020		SM 1030F1	Cation-Anion Balance Calculation	☐	☐	☐	LSR
N042067-001D			9/16/2020		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N042067-002A	FOLDER	9/16/2020	9/16/2020		EDD	RWQCB	☐	☐	☐	LAB
			9/16/2020		Folder	Folder	☐	☐	☐	LAB
			9/16/2020		Folder	Level IV Report	☐	☐	☐	LAB
			9/16/2020		Folder	Folder	☐	☐	☐	LAB