

Unvalidated PCM 2022-05 Sampling

Location ID	Sample ID	Sample Type	Sample Method	Parent Sample Code	Matrix	Sample Date	Arsenic, dissolved by method SW 6020 (ug/L)	Barium, dissolved by method SW 6020 (ug/L)	Chromium, Hexavalent by method EPA 218.6 (ug/L)	Iron by method SW 6010B (ug/L)	Iron, dissolved by method SW 6010B (ug/L)
IRZ-09-100	IRZ-09-100-0522	N	R	N/A	GW	5/18/2022	-	-	15	140	< 20 U
IRZ-13D-210	IRZ-13D-210-0522	N	R	N/A	GW	5/17/2022	-	-	500	< 100 U	< 20 U
IRZ-13S-095	IRZ-13S-095-0522	N	R	N/A	GW	5/17/2022	-	-	23	54	< 20 U
IRZ-23-143	IRZ-23-143-0522	N	R	N/A	GW	5/17/2022	-	-	650	< 20 U	< 20 U
MW-20-070	MW-20-070-0522	N	LF	N/A	GW	5/20/2022	1.1	29	330	-	< 20 U
MW-20-070	MW-915-Q222	FD	N/A	MW-20-070-0522	GW	5/20/2022	0.95	26	330	-	< 20 U
MW-20-100	MW-20-100-0522	N	LF	N/A	GW	5/20/2022	< 0.10 U	62	880	-	< 20 U
MW-20-130	MW-20-130-0522	N	LF	N/A	GW	5/20/2022	< 0.10 U	32	2000	-	< 20 U
MW-21	MW-21-0522	N	LF	N/A	GW	5/18/2022	7.6	35	< 0.20 U	-	930
MW-26	MW-26-0522	N	LF	N/A	GW	5/20/2022	< 0.10 U	87	340	-	< 20 U
MW-31-060	MW-31-060-0522	N	LF	N/A	GW	5/20/2022	< 0.10 U	79	48	-	140
MW-31-135	MW-31-135-0522	N	LF	N/A	GW	5/20/2022	< 0.10 U	51	26	-	< 20 U
MW-51	MW-51-0522	N	LF	N/A	GW	5/20/2022	< 0.10 U	29	870	-	< 20 U
MW-71-035	MW-71-035-0522	N	LF	N/A	GW	5/18/2022	< 0.10 U	41	< 1.0 U	-	58
MW-76-039	MW-76-039-0522	N	LF	N/A	GW	5/16/2022	< 0.10 U	70	44	-	< 20 U
MW-76-156	MW-76-156-0522	N	LF	N/A	GW	5/16/2022	< 0.10 U	43	5.5	-	< 100 U
MW-76-156	MW-914-Q222	FD	N/A	MW-76-156-0522	GW	5/16/2022	< 0.10 U	44	5.5	-	23
MW-76-181	MW-76-181-0522	N	LF	N/A	GW	5/16/2022	< 0.10 U	56	2000	-	< 100 U
MW-76-218	MW-76-218-0522	N	LF	N/A	GW	5/16/2022	3.6	54	120	-	< 100 U
MW-78-070	MW-78-070-0522	N	LF	N/A	GW	5/19/2022	< 0.10 U	120	660	-	< 20 U
MW-78-142	MW-78-142-0522	N	LF	N/A	GW	5/19/2022	< 0.10 U	26	5200	-	< 20 U
MW-79-058	MW-79-058-0522	N	LF	N/A	GW	5/19/2022	< 0.10 U	76	2900	-	< 20 U
MW-79-102	MW-79-102-0522	N	LF	N/A	GW	5/19/2022	< 0.10 U	40	2300	-	< 20 U
MW-79-102	MW-934-Q222	FD	N/A	MW-79-102-0522	GW	5/19/2022	< 0.10 U	39	2200	-	< 20 U
MW-80-057	MW-80-057-0522	N	LF	N/A	GW	5/18/2022	< 0.10 U	61	1000	-	50
MW-80-082	MW-80-082-0522	N	LF	N/A	GW	5/18/2022	< 0.10 U	42	470	-	< 20 U
TW-02D	TW-02D-0522	N	3V	N/A	GW	5/19/2022	< 0.10 U	51	8.5	-	560
TW-02S	TW-02S-0522	N	3V	N/A	GW	5/19/2022	0.57	52	97	-	< 20 U
TW-03D	TW-03D-0522	N	3V	N/A	GW	5/19/2022	< 0.10 U	43	610	-	< 20 U

Notes:

All samples were sent to Asset for analyses.

< = analyte not detected at the reporting limit shown

Acronyms and Abbreviations:

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Unvalidated PCM 2022-05 Sampling

Location ID	Sample ID	Sample Type	Sample Method	Parent Sample Code	Matrix	Sample Date	Manganese, dissolved by method SW 6020 (ug/L)	Nitrate (as nitrogen) by method EPA 300.0 (mg/L)	Sulfate by method EPA 300.0 (mg/L)	Total organic carbon by method SM 5310 C (mg/L)
IRZ-09-100	IRZ-09-100-0522	N	R	N/A	GW	5/18/2022	< 0.50 U	-	-	< 1.0 U
IRZ-13D-210	IRZ-13D-210-0522	N	R	N/A	GW	5/17/2022	2.5	-	-	< 1.0 U
IRZ-13S-095	IRZ-13S-095-0522	N	R	N/A	GW	5/17/2022	< 0.50 U	-	-	< 1.0 U
IRZ-23-143	IRZ-23-143-0522	N	R	N/A	GW	5/17/2022	< 0.50 U	-	-	< 1.0 U
MW-20-070	MW-20-070-0522	N	LF	N/A	GW	5/20/2022	1.6	16	280	< 1.0 U
MW-20-070	MW-915-Q222	FD	N/A	MW-20-070-0522	GW	5/20/2022	1.3	16	270	< 1.0 U
MW-20-100	MW-20-100-0522	N	LF	N/A	GW	5/20/2022	< 0.50 U	4.3	650	< 1.0 U
MW-20-130	MW-20-130-0522	N	LF	N/A	GW	5/20/2022	3.2	4	1400	< 1.0 U
MW-21	MW-21-0522	N	LF	N/A	GW	5/18/2022	480	< 0.50 U	2000	< 1.0 U
MW-26	MW-26-0522	N	LF	N/A	GW	5/20/2022	120	1.2	560	< 1.0 U
MW-31-060	MW-31-060-0522	N	LF	N/A	GW	5/20/2022	690	< 0.50 U	560	< 1.0 U
MW-31-135	MW-31-135-0522	N	LF	N/A	GW	5/20/2022	3	1.5	720	< 50 U
MW-51	MW-51-0522	N	LF	N/A	GW	5/20/2022	< 0.50 U	2.1	590	< 1.0 U
MW-71-035	MW-71-035-0522	N	LF	N/A	GW	5/18/2022	45	< 0.50 U	1100	< 1.0 U
MW-76-039	MW-76-039-0522	N	LF	N/A	GW	5/16/2022	1.4	2.2	230	< 10 U
MW-76-156	MW-76-156-0522	N	LF	N/A	GW	5/16/2022	71	1.5	730	< 1.0 U
MW-76-156	MW-914-Q222	FD	N/A	MW-76-156-0522	GW	5/16/2022	70	1.5	740	< 1.0 U
MW-76-181	MW-76-181-0522	N	LF	N/A	GW	5/16/2022	16	2.7	910	< 1.0 U
MW-76-218	MW-76-218-0522	N	LF	N/A	GW	5/16/2022	140	1.1	940	< 1.0 U
MW-78-070	MW-78-070-0522	N	LF	N/A	GW	5/19/2022	470	1.6	360	< 1.0 U
MW-78-142	MW-78-142-0522	N	LF	N/A	GW	5/19/2022	1.6	9.6	910	< 1.0 U
MW-79-058	MW-79-058-0522	N	LF	N/A	GW	5/19/2022	< 0.50 U	11	410	< 1.0 U
MW-79-102	MW-79-102-0522	N	LF	N/A	GW	5/19/2022	< 0.50 U	7.5	690	< 1.0 U
MW-79-102	MW-934-Q222	FD	N/A	MW-79-102-0522	GW	5/19/2022	< 0.50 U	7.5	700	< 1.0 U
MW-80-057	MW-80-057-0522	N	LF	N/A	GW	5/18/2022	5.9	11	520	< 10 U
MW-80-082	MW-80-082-0522	N	LF	N/A	GW	5/18/2022	4	1.9	560	< 1.0 U
TW-02D	TW-02D-0522	N	3V	N/A	GW	5/19/2022	270	0.36	400	< 1.0 U
TW-02S	TW-02S-0522	N	3V	N/A	GW	5/19/2022	< 0.50 U	3.4	190	< 1.0 U
TW-03D	TW-03D-0522	N	3V	N/A	GW	5/19/2022	150	1.5	850	< 1.0 U

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N/A = not applicable

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Unvalidated Hyd6 2022-05 Sampling

Location ID	Sample ID	Sample Type	Sample Method	Parent Sample Code	Matrix	Sample Date	Deuterium by method CFIRM (0/00)	Oxygen 18 by method CFIRM (0/00)
HNWR-01A	HNWR-01A-98-Q222	N	3V	N/A	GW	5/18/2022	-74	-10.05
HNWR-01A	HNWR-01A-174-Q222	N	3V	N/A	GW	5/18/2022	-74.9	-10.17
MARINA-1	MARINA-1-Q222	N	EP	N/A	GW	5/17/2022	-75.7	-10.23
MTS-1	MTS-1-Q222	N	EP	N/A	GW	5/17/2022	-72	-9.56
MTS-2	MTS-2-Q222	N	EP	N/A	GW	5/17/2022	-72.3	-9.75
MW-94-030	MW-94-030-Q222	N	LF	N/A	GW	5/17/2022	-73.6	-10.09
MW-94-100	MW-94-100-Q222	N	LF	N/A	GW	5/17/2022	-74.3	-10.14
MW-94-100	MW-901-Q222	FD	LF	MW-94-100-Q222	GW	5/17/2022	-72.3	-9.76
MW-94-175	MW-94-175-Q222	N	LF	N/A	GW	5/17/2022	-75.5	-10.08
MW-99-060	MW-99-060-Q222	N	LF	N/A	GW	5/19/2022	-75.9	-10.22
MW-99-140	MW-99-140-Q222	N	LF	N/A	GW	5/19/2022	-77.7	-10.29
PGE-09N	PGE-09N-Q222	N	3V	N/A	GW	5/19/2022	-72.8	-9.91
PGE-09S	PGE-09S-Q222	N	3V	N/A	GW	5/19/2022	-73.1	-9.81
PGE-09S	MW-902-Q222	FD	3V	PGE-09S-Q222	GW	5/19/2022	-76.9	-10.23
SITE B	SITE B-165-Q222	N	3V	N/A	GW	5/18/2022	-72.7	-9.58
SITE B	SITE B-220-Q222	N	3V	N/A	GW	5/18/2022	-72.7	-9.93
SITE B	SITE B-285-Q222	N	3V	N/A	GW	5/18/2022	-76.1	-9.82
TOPOCK-2	TOPOCK-2-Q222	N	EP	N/A	GW	5/18/2022	-77.6	-10.04
TOPOCK-3	TOPOCK-3-Q222	N	EP	N/A	GW	5/18/2022	-77.8	-10.07

Notes:

Oxygen 18 and Deuterium samples were analyzed by Isotech Labs.

Acronyms and Abbreviations:

GW = groundwater

N = Normal

FD = field duplicate

N/A = Not applicable

Unvalidated OMM 2022-Q2 Sampling

Location ID	Sample ID	Sample Type	Matrix	Sample Date	Chromium, Hexavalent by method EPA 218.6 (ug/L)	Chromium, total by method SW 6020 (ug/L)	Ethanol by method SW 8260B (ug/L)	Iron, dissolved by method SW 6010B (ug/L)	Manganese, dissolved by method SW 6020 (ug/L)	Total organic carbon by method SM 5310 B (mg/L)
BACKWASH POST-FILTER	BACKWASH POST-FILTER-041122	N	WATER	4/11/2022	420	420	-	< 20 U	71	-
BACKWASH POST-FILTER	BACKWASH POST-FILTER-052322	N	WATER	5/23/2022	390	450	-	< 20 U	5.2	-
BACKWASH PRE-FILTER	BACKWASH PRE-FILTER-041122	N	WATER	4/11/2022	410	380	-	< 20 U	70	-
BACKWASH PRE-FILTER	BACKWASH PRE-FILTER-052322	N	WATER	5/23/2022	400	400	-	25	5.1	-
CAB_MIXER_606	CAB_MIXER_606-050922	N	WATER	5/9/2022	-	-	1000000 J	-	-	-
CAB_MIXER_606	CAB_MIXER_606-052422	N	WATER	5/24/2022	-	-	2200000	-	-	790
CAB_MIXER_606	CAB_MIXER_606-060722	N	WATER	6/7/2022	-	-	1100000	-	-	-
CAB_MIXER_607	CAB_MIXER_607-041322	N	WATER	4/13/2022	-	-	1400000	-	-	-
CAB_MIXER_607	CAB_MIXER_607-050922	N	WATER	5/9/2022	-	-	1300000 J	-	-	-
CAB_MIXER_607	CAB_MIXER_607-052422	N	WATER	5/24/2022	-	-	1500000	-	-	490
CAB_MIXER_607	CAB_MIXER_607-060722	N	WATER	6/7/2022	-	-	670000	-	-	-

Notes:

All samples were sent to Asset for analyses with the exception of additional TOC analyses (SM 5310B) analyzed by Enthalpy Labs.

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GW = groundwater

J = estimated result value

N = Normal

SM =standard method

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Unvalidated OMM 2022-Q2 Sampling

Location ID	Sample ID	Sample Type	Matrix	Sample Date	Total organic carbon by method SM 5310 C (mg/L)
BACKWASH POST-FILTER	BACKWASH POST-FILTER-041122	N	WATER	4/11/2022	-
BACKWASH POST-FILTER	BACKWASH POST-FILTER-052322	N	WATER	5/23/2022	-
BACKWASH PRE-FILTER	BACKWASH PRE-FILTER-041122	N	WATER	4/11/2022	-
BACKWASH PRE-FILTER	BACKWASH PRE-FILTER-052322	N	WATER	5/23/2022	-
CAB_MIXER_606	CAB_MIXER_606-050922	N	WATER	5/9/2022	690
CAB_MIXER_606	CAB_MIXER_606-052422	N	WATER	5/24/2022	860
CAB_MIXER_606	CAB_MIXER_606-060722	N	WATER	6/7/2022	640
CAB_MIXER_607	CAB_MIXER_607-041322	N	WATER	4/13/2022	3.6
CAB_MIXER_607	CAB_MIXER_607-050922	N	WATER	5/9/2022	640
CAB_MIXER_607	CAB_MIXER_607-052422	N	WATER	5/24/2022	700
CAB_MIXER_607	CAB_MIXER_607-060722	N	WATER	6/7/2022	450

Notes:

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Unvalidated Phase 2a Construction

Location ID	Sample ID	Sample Type	Parent Sample Code	Matrix	Sample Date	Alkalinity, total as CaCO3 by method SM 2320 B (mg/L)	Aluminum by method SW 6010B (ug/L)	Aluminum, dissolved by method SW 6010B (ug/L)	Ammonia as nitrogen by method SM 4500-NH3 G (mg/L)	Antimony by method SW 6020 (ug/L)	Antimony, dissolved by method SW 6020 (ug/L)	Arsenic by method SW 6020 (ug/L)	Arsenic, dissolved by method SW 6020 (ug/L)	Barium by method SW 6020 (ug/L)
ER-1	ER-1-136-060122	N	N/A	GW	6/1/2022	-	-	-	-	-	-	-	< 0.10 U	-
ER-1	ER-1-SC-45-136	N	N/A	GW	6/2/2022	84	< 50 U	< 50 U	< 0.22 U	< 0.50 U	< 0.50 U	< 0.10 U	< 0.10 U	45
ER-6	ER-6-050922	N	N/A	GW	5/9/2022	-	-	-	-	-	-	-	< 0.10 U	-
ER-6	ER-6-SC-130-223	N	N/A	GW	5/11/2022	-	-	-	-	-	-	-	< 0.10 U	-
FW-02A	FW-02A-VAS-117-122	N	N/A	GW	4/22/2022	-	-	-	-	-	-	-	< 0.10 U	-
FW-02A	FW-02A-VAS-127-132	N	N/A	GW	4/23/2022	-	-	-	-	-	-	-	< 0.10 U	-
FW-02A	FW-02A-VAS-137-142	N	N/A	GW	4/23/2022	-	-	-	-	-	-	-	< 0.10 U	-
FW-02A	FW-02A-VAS-147-152	N	N/A	GW	4/24/2022	-	-	-	-	-	-	-	< 0.10 U	-
FW-02A	FW-02A-VAS-157-162	N	N/A	GW	4/25/2022	-	-	-	-	-	-	-	< 0.10 U	-
FW-02A	FW-02A-VAS-167-172	N	N/A	GW	4/25/2022	-	-	-	-	-	-	-	< 0.10 U	-
FW-02A	FW-02A-VAS-177-182	N	N/A	GW	4/26/2022	-	-	-	-	-	-	-	< 0.10 U	-
TCS-1	TCS-1-VAS-164-169	N	N/A	GW	4/3/2022	-	-	-	-	-	-	-	< 0.10 U	-
TCS-1	TCS-1-VAS-192-197	N	N/A	GW	4/4/2022	-	-	-	-	-	-	-	< 0.10 U	-
TCS-1	TCS-1-VAS-221-226	N	N/A	GW	4/5/2022	-	-	-	-	-	-	-	< 0.10 U	-
TCS-1	TCS-1-VAS-254-259	N	N/A	GW	4/7/2022	-	-	-	-	-	-	-	< 0.10 U	-
TCS-1	TCS-1-VAS-266-271	N	N/A	GW	4/13/2022	-	-	-	-	-	-	-	< 0.10 U	-
TCS-2	TCS-2-VAS-131-136	N	N/A	GW	4/19/2022	-	-	-	-	-	-	-	< 0.50 U	-
TCS-2	TCS-2-VAS-147-152	N	N/A	GW	4/20/2022	-	-	-	-	-	-	-	< 0.10 U	-
TCS-2	TCS-2-VAS-161.5-166.5	N	N/A	GW	4/21/2022	-	-	-	-	-	-	-	< 0.10 U	-
TCS-2	TCS-2-VAS-181-186	N	N/A	GW	4/21/2022	-	-	-	-	-	-	-	< 0.10 U	-
TCS-2	TCS-2-VAS-202-207	N	N/A	GW	4/22/2022	-	-	-	-	-	-	-	< 0.10 U	-
TCS-2	TCS-2-VAS-211.5-216.5	N	N/A	GW	4/23/2022	-	-	-	-	-	-	-	< 0.10 U	-
TCS-2	TCS-2-VAS-220-225	N	N/A	GW	4/23/2022	-	-	-	-	-	-	-	< 0.10 U	-
TCS-2	DUP-01-042022	FD	TCS-2-VAS-147-152	GW	4/20/2022	-	-	-	-	-	-	-	< 0.10 U	-
TWB-01		N	N/A	GW	3/18/2022	-	-	-	-	-	-	-	0.65	-
TWB-01	TWB-1-VAS-87-92	N	N/A	GW	3/20/2022	-	-	-	-	-	-	-	< 0.10 U	-
TWB-01	TWB-1-VAS-97-102	N	N/A	GW	3/20/2022	-	-	-	-	-	-	-	0.48	-
TWB-01	TWB-1-VAS-110-115	N	N/A	GW	3/21/2022	-	-	-	-	-	-	-	< 0.10 U	-
TWB-01	TWB-1-VAS-122-127	N	N/A	GW	3/21/2022	-	-	-	-	-	-	-	< 0.10 U	-
TWB-01	TWB-1-TEMP-042722	N	N/A	GW	4/27/2022	-	-	-	-	-	-	-	< 0.10 U	-
TWB-01	DUP-1-VAS-032022	FD	TWB-1-VAS-87-92	GW	3/20/2022	-	-	-	-	-	-	-	< 0.10 U	-
TWB-02	TWB-2-VAS-97-102	N	N/A	GW	3/29/2022	-	-	-	-	-	-	-	-	-
TWB-03	TWB-3-VAS-47-52	N	N/A	GW	5/6/2022	-	-	-	-	-	-	-	< 0.10 U	-
TWB-03	TWB-3-VAS-57-62	N	N/A	GW	5/6/2022	-	-	-	-	-	-	-	< 0.10 U	-
TWB-03	TWB-3-VAS-67-72	N	N/A	GW	5/7/2022	-	-	-	-	-	-	-	< 0.10 U	-
TWB-03	TWB-3-VAS-76-81	N	N/A	GW	5/8/2022	-	-	-	-	-	-	-	< 0.10 U	-

Notes:

All samples were sent to Asset for analyses with the exception of ammonia, nitrate/nitrate N, sulfide and TKN which were analyzed by BC Labs.

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Unvalidated Phase 2a Construction

Location ID	Sample ID	Sample Type	Parent Sample Code	Matrix	Sample Date	Barium, dissolved by method SW 6020 (ug/L)	Beryllium by method SW 6020 (ug/L)	Beryllium, dissolved by method SW 6020 (ug/L)	Boron by method SW 6010B (ug/L)	Boron, dissolved by method SW 6010B (mg/L)	Bromide by method EPA 300.0 (mg/L)	Cadmium by method SW 6020 (ug/L)	Cadmium, dissolved by method SW 6020 (ug/L)	Calcium by method SW 6010B (ug/L)
ER-1	ER-1-136-060122	N	N/A	GW	6/1/2022	-	-	-	-	-	-	-	-	-
ER-1	ER-1-SC-45-136	N	N/A	GW	6/2/2022	48	< 0.50 U	< 0.50 U	1200	1.2	< 5.0 U	< 0.50 U	< 0.50 U	250000
ER-6	ER-6-050922	N	N/A	GW	5/9/2022	-	-	-	-	-	-	-	-	-
ER-6	ER-6-SC-130-223	N	N/A	GW	5/11/2022	-	-	-	-	-	-	-	-	-
FW-02A	FW-02A-VAS-117-122	N	N/A	GW	4/22/2022	-	-	-	-	-	-	-	-	-
FW-02A	FW-02A-VAS-127-132	N	N/A	GW	4/23/2022	-	-	-	-	-	-	-	-	-
FW-02A	FW-02A-VAS-137-142	N	N/A	GW	4/23/2022	-	-	-	-	-	-	-	-	-
FW-02A	FW-02A-VAS-147-152	N	N/A	GW	4/24/2022	-	-	-	-	-	-	-	-	-
FW-02A	FW-02A-VAS-157-162	N	N/A	GW	4/25/2022	-	-	-	-	-	-	-	-	-
FW-02A	FW-02A-VAS-167-172	N	N/A	GW	4/25/2022	-	-	-	-	-	-	-	-	-
FW-02A	FW-02A-VAS-177-182	N	N/A	GW	4/26/2022	-	-	-	-	-	-	-	-	-
TCS-1	TCS-1-VAS-164-169	N	N/A	GW	4/3/2022	-	-	-	-	-	-	-	-	-
TCS-1	TCS-1-VAS-192-197	N	N/A	GW	4/4/2022	-	-	-	-	-	-	-	-	-
TCS-1	TCS-1-VAS-221-226	N	N/A	GW	4/5/2022	-	-	-	-	-	-	-	-	-
TCS-1	TCS-1-VAS-254-259	N	N/A	GW	4/7/2022	-	-	-	-	-	-	-	-	-
TCS-1	TCS-1-VAS-266-271	N	N/A	GW	4/13/2022	-	-	-	-	-	-	-	-	-
TCS-2	TCS-2-VAS-131-136	N	N/A	GW	4/19/2022	-	-	-	-	-	-	-	-	-
TCS-2	TCS-2-VAS-147-152	N	N/A	GW	4/20/2022	-	-	-	-	-	-	-	-	-
TCS-2	TCS-2-VAS-161.5-166.5	N	N/A	GW	4/21/2022	-	-	-	-	-	-	-	-	-
TCS-2	TCS-2-VAS-181-186	N	N/A	GW	4/21/2022	-	-	-	-	-	-	-	-	-
TCS-2	TCS-2-VAS-202-207	N	N/A	GW	4/22/2022	-	-	-	-	-	-	-	-	-
TCS-2	TCS-2-VAS-211.5-216.5	N	N/A	GW	4/23/2022	-	-	-	-	-	-	-	-	-
TCS-2	TCS-2-VAS-220-225	N	N/A	GW	4/23/2022	-	-	-	-	-	-	-	-	-
TCS-2	DUP-01-042022	FD	TCS-2-VAS-147-152	GW	4/20/2022	-	-	-	-	-	-	-	-	-
TWB-01		N	N/A	GW	3/18/2022	-	-	-	-	-	-	-	-	-
TWB-01	TWB-1-VAS-87-92	N	N/A	GW	3/20/2022	-	-	-	-	-	-	-	-	-
TWB-01	TWB-1-VAS-97-102	N	N/A	GW	3/20/2022	-	-	-	-	-	-	-	-	-
TWB-01	TWB-1-VAS-110-115	N	N/A	GW	3/21/2022	-	-	-	-	-	-	-	-	-
TWB-01	TWB-1-VAS-122-127	N	N/A	GW	3/21/2022	-	-	-	-	-	-	-	-	-
TWB-01	TWB-1-TEMP-042722	N	N/A	GW	4/27/2022	-	-	-	-	-	-	-	-	-
TWB-01	DUP-1-VAS-032022	FD	TWB-1-VAS-87-92	GW	3/20/2022	-	-	-	-	-	-	-	-	-
TWB-02	TWB-2-VAS-97-102	N	N/A	GW	3/29/2022	-	-	-	-	-	-	-	-	-
TWB-03	TWB-3-VAS-47-52	N	N/A	GW	5/6/2022	-	-	-	-	-	-	-	-	-
TWB-03	TWB-3-VAS-57-62	N	N/A	GW	5/6/2022	-	-	-	-	-	-	-	-	-
TWB-03	TWB-3-VAS-67-72	N	N/A	GW	5/7/2022	-	-	-	-	-	-	-	-	-
TWB-03	TWB-3-VAS-76-81	N	N/A	GW	5/8/2022	-	-	-	-	-	-	-	-	-

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mg/L = milligrams per liter

N = Normal

SM = standard method

SW = solid waste

U = analyte not detected

N/A = not applicable

- = no data

Unvalidated Phase 2a Construction

Location ID	Sample ID	Sample Type	Parent Sample Code	Matrix	Sample Date	Calcium, dissolved by method SW 6010B (mg/L)	Chloride by method EPA 300.0 (mg/L)	Chromium, Hexavalent by method EPA 218.6 (ug/L)	Chromium, total by method SW 6020 (ug/L)	Chromium, total dissolved by method SW 6020 (ug/L)	Cobalt by method SW 6020 (ug/L)	Cobalt, dissolved by method SW 6020 (ug/L)	Copper by method SW 6020 (ug/L)	Copper, dissolved by method SW 6020 (ug/L)
ER-1	ER-1-136-060122	N	N/A	GW	6/1/2022	-	-	1400	-	1300	-	-	-	-
ER-1	ER-1-SC-45-136	N	N/A	GW	6/2/2022	250	3100	1400	1400	1400	< 0.50 U	< 0.50 U	1.4	1.1
ER-6	ER-6-050922	N	N/A	GW	5/9/2022	-	-	1600	-	1400	-	-	-	-
ER-6	ER-6-SC-130-223	N	N/A	GW	5/11/2022	-	-	1600	-	1500	-	-	-	-
FW-02A	FW-02A-VAS-117-122	N	N/A	GW	4/22/2022	-	-	< 0.20 U	-	< 1.0 U	-	-	-	-
FW-02A	FW-02A-VAS-127-132	N	N/A	GW	4/23/2022	-	-	< 0.20 U	-	2	-	-	-	-
FW-02A	FW-02A-VAS-137-142	N	N/A	GW	4/23/2022	-	-	< 0.20 U	-	< 1.0 U	-	-	-	-
FW-02A	FW-02A-VAS-147-152	N	N/A	GW	4/24/2022	-	-	< 0.20 U	-	< 1.0 U	-	-	-	-
FW-02A	FW-02A-VAS-157-162	N	N/A	GW	4/25/2022	-	-	< 0.20 U	-	< 1.0 U	-	-	-	-
FW-02A	FW-02A-VAS-167-172	N	N/A	GW	4/25/2022	-	-	< 1.0 U	-	< 1.0 U	-	-	-	-
FW-02A	FW-02A-VAS-177-182	N	N/A	GW	4/26/2022	-	-	34	-	34	-	-	-	-
TCS-1	TCS-1-VAS-164-169	N	N/A	GW	4/3/2022	-	-	1100	-	1100	-	-	-	-
TCS-1	TCS-1-VAS-192-197	N	N/A	GW	4/4/2022	-	-	< 0.20 U	-	< 1.0 U	-	-	-	-
TCS-1	TCS-1-VAS-221-226	N	N/A	GW	4/5/2022	-	-	< 0.20 U	-	1.8	-	-	-	-
TCS-1	TCS-1-VAS-254-259	N	N/A	GW	4/7/2022	-	-	< 1.0 U	-	< 1.0 U	-	-	-	-
TCS-1	TCS-1-VAS-266-271	N	N/A	GW	4/13/2022	-	-	< 1.0 U	-	< 1.0 U	-	-	-	-
TCS-2	TCS-2-VAS-131-136	N	N/A	GW	4/19/2022	-	-	4300	-	4100	-	-	-	-
TCS-2	TCS-2-VAS-147-152	N	N/A	GW	4/20/2022	-	-	< 0.20 U	-	< 1.0 U	-	-	-	-
TCS-2	TCS-2-VAS-161.5-166.5	N	N/A	GW	4/21/2022	-	-	< 0.20 U	-	< 1.0 U	-	-	-	-
TCS-2	TCS-2-VAS-181-186	N	N/A	GW	4/21/2022	-	-	< 0.20 U	-	< 1.0 U	-	-	-	-
TCS-2	TCS-2-VAS-202-207	N	N/A	GW	4/22/2022	-	-	2300	-	2100	-	-	-	-
TCS-2	TCS-2-VAS-211.5-216.5	N	N/A	GW	4/23/2022	-	-	120	-	52	-	-	-	-
TCS-2	TCS-2-VAS-220-225	N	N/A	GW	4/23/2022	-	-	< 1.0 U	-	< 1.0 U	-	-	-	-
TCS-2	DUP-01-042022	FD	TCS-2-VAS-147-152	GW	4/20/2022	-	-	< 0.20 U	-	< 1.0 U	-	-	-	-
TWB-01		N	N/A	GW	3/18/2022	-	-	870	-	1600	-	-	-	-
TWB-01	TWB-1-VAS-87-92	N	N/A	GW	3/20/2022	-	-	< 0.20 U	-	< 1.0 U	-	-	-	-
TWB-01	TWB-1-VAS-97-102	N	N/A	GW	3/20/2022	-	-	1200	-	1100	-	-	-	-
TWB-01	TWB-1-VAS-110-115	N	N/A	GW	3/21/2022	-	-	4300	-	4300	-	-	-	-
TWB-01	TWB-1-VAS-122-127	N	N/A	GW	3/21/2022	-	-	1700	-	1600	-	-	-	-
TWB-01	TWB-1-TEMP-042722	N	N/A	GW	4/27/2022	-	-	4600	-	5400	-	-	-	-
TWB-01	DUP-1-VAS-032022	FD	TWB-1-VAS-87-92	GW	3/20/2022	-	-	< 0.20 U	-	< 1.0 U	-	-	-	-
TWB-02	TWB-2-VAS-97-102	N	N/A	GW	3/29/2022	-	-	< 0.20 U	-	< 1.0 U	-	-	-	-
TWB-03	TWB-3-VAS-47-52	N	N/A	GW	5/6/2022	-	-	< 0.20 U	-	< 1.0 U	-	-	-	-
TWB-03	TWB-3-VAS-57-62	N	N/A	GW	5/6/2022	-	-	6.6	-	2.6	-	-	-	-
TWB-03	TWB-3-VAS-67-72	N	N/A	GW	5/7/2022	-	-	< 0.20 U	-	< 1.0 U	-	-	-	-
TWB-03	TWB-3-VAS-76-81	N	N/A	GW	5/8/2022	-	-	< 1.0 U	-	< 1.0 U	-	-	-	-

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SW = solid waste

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Unvalidated Phase 2a Construction

Location ID	Sample ID	Sample Type	Parent Sample Code	Matrix	Sample Date	Fluoride by method EPA 300.0 (mg/L)	Iron by method SW 6010B (ug/L)	Iron, dissolved by method SW 6010B (ug/L)	Lead by method SW 6020 (ug/L)	Lead, dissolved by method SW 6020 (ug/L)	Magnesium by method SW 6010B (ug/L)	Magnesium, dissolved by method SW 6010B (mg/L)	Manganese by method SW 6020 (ug/L)	Manganese, dissolved by method SW 6020 (ug/L)
ER-1	ER-1-136-060122	N	N/A	GW	6/1/2022	-	-	-	-	-	-	-	-	-
ER-1	ER-1-SC-45-136	N	N/A	GW	6/2/2022	3.4	72	31	< 1.0 U	< 1.0 U	14000	14	64	70
ER-6	ER-6-050922	N	N/A	GW	5/9/2022	-	-	-	-	-	-	-	-	-
ER-6	ER-6-SC-130-223	N	N/A	GW	5/11/2022	-	-	-	-	-	-	-	-	-
FW-02A	FW-02A-VAS-117-122	N	N/A	GW	4/22/2022	-	-	-	-	-	-	-	-	-
FW-02A	FW-02A-VAS-127-132	N	N/A	GW	4/23/2022	-	-	-	-	-	-	-	-	-
FW-02A	FW-02A-VAS-137-142	N	N/A	GW	4/23/2022	-	-	-	-	-	-	-	-	-
FW-02A	FW-02A-VAS-147-152	N	N/A	GW	4/24/2022	-	-	-	-	-	-	-	-	-
FW-02A	FW-02A-VAS-157-162	N	N/A	GW	4/25/2022	-	-	-	-	-	-	-	-	-
FW-02A	FW-02A-VAS-167-172	N	N/A	GW	4/25/2022	-	-	-	-	-	-	-	-	-
FW-02A	FW-02A-VAS-177-182	N	N/A	GW	4/26/2022	-	-	-	-	-	-	-	-	-
TCS-1	TCS-1-VAS-164-169	N	N/A	GW	4/3/2022	-	-	-	-	-	-	-	-	-
TCS-1	TCS-1-VAS-192-197	N	N/A	GW	4/4/2022	-	-	-	-	-	-	-	-	-
TCS-1	TCS-1-VAS-221-226	N	N/A	GW	4/5/2022	-	-	-	-	-	-	-	-	-
TCS-1	TCS-1-VAS-254-259	N	N/A	GW	4/7/2022	-	-	-	-	-	-	-	-	-
TCS-1	TCS-1-VAS-266-271	N	N/A	GW	4/13/2022	-	-	-	-	-	-	-	-	-
TCS-2	TCS-2-VAS-131-136	N	N/A	GW	4/19/2022	-	-	-	-	-	-	-	-	-
TCS-2	TCS-2-VAS-147-152	N	N/A	GW	4/20/2022	-	-	-	-	-	-	-	-	-
TCS-2	TCS-2-VAS-161.5-166.5	N	N/A	GW	4/21/2022	-	-	-	-	-	-	-	-	-
TCS-2	TCS-2-VAS-181-186	N	N/A	GW	4/21/2022	-	-	-	-	-	-	-	-	-
TCS-2	TCS-2-VAS-202-207	N	N/A	GW	4/22/2022	-	-	-	-	-	-	-	-	-
TCS-2	TCS-2-VAS-211.5-216.5	N	N/A	GW	4/23/2022	-	-	-	-	-	-	-	-	-
TCS-2	TCS-2-VAS-220-225	N	N/A	GW	4/23/2022	-	-	-	-	-	-	-	-	-
TCS-2	DUP-01-042022	FD	TCS-2-VAS-147-152	GW	4/20/2022	-	-	-	-	-	-	-	-	-
TWB-01		N	N/A	GW	3/18/2022	-	-	-	-	-	-	-	-	-
TWB-01	TWB-1-VAS-87-92	N	N/A	GW	3/20/2022	-	-	-	-	-	-	-	-	-
TWB-01	TWB-1-VAS-97-102	N	N/A	GW	3/20/2022	-	-	-	-	-	-	-	-	-
TWB-01	TWB-1-VAS-110-115	N	N/A	GW	3/21/2022	-	-	-	-	-	-	-	-	-
TWB-01	TWB-1-VAS-122-127	N	N/A	GW	3/21/2022	-	-	-	-	-	-	-	-	-
TWB-01	TWB-1-TEMP-042722	N	N/A	GW	4/27/2022	-	-	-	-	-	-	-	-	-
TWB-01	DUP-1-VAS-032022	FD	TWB-1-VAS-87-92	GW	3/20/2022	-	-	-	-	-	-	-	-	-
TWB-02	TWB-2-VAS-97-102	N	N/A	GW	3/29/2022	-	-	-	-	-	-	-	-	-
TWB-03	TWB-3-VAS-47-52	N	N/A	GW	5/6/2022	-	-	-	-	-	-	-	-	-
TWB-03	TWB-3-VAS-57-62	N	N/A	GW	5/6/2022	-	-	-	-	-	-	-	-	-
TWB-03	TWB-3-VAS-67-72	N	N/A	GW	5/7/2022	-	-	-	-	-	-	-	-	-
TWB-03	TWB-3-VAS-76-81	N	N/A	GW	5/8/2022	-	-	-	-	-	-	-	-	-

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Unvalidated Phase 2a Construction

Location ID	Sample ID	Sample Type	Parent Sample Code	Matrix	Sample Date	Mercury by method EPA 7470A (ug/L)	Mercury, dissolved by method EPA 7470A (ug/L)	Molybdenum by method SW 6020 (ug/L)	Molybdenum, dissolved by method SW 6020 (ug/L)	Nickel by method SW 6020 (ug/L)	Nickel, dissolved by method SW 6020 (ug/L)	Nitrate/Nitrite as Nitrogen by method EPA 353.2 (mg/L)	Potassium, dissolved by method SW 6010B (mg/L)	Selenium by method SW 6020 (ug/L)
ER-1	ER-1-136-060122	N	N/A	GW	6/1/2022	-	-	-	-	-	-	-	-	-
ER-1	ER-1-SC-45-136	N	N/A	GW	6/2/2022	< 0.20 U	< 0.20 U	27	30	< 25 U	< 25 U	5.1	28	3.2
ER-6	ER-6-050922	N	N/A	GW	5/9/2022	-	-	-	-	-	-	-	-	-
ER-6	ER-6-SC-130-223	N	N/A	GW	5/11/2022	-	-	-	-	-	-	-	-	-
FW-02A	FW-02A-VAS-117-122	N	N/A	GW	4/22/2022	-	-	-	-	-	-	-	-	-
FW-02A	FW-02A-VAS-127-132	N	N/A	GW	4/23/2022	-	-	-	-	-	-	-	-	-
FW-02A	FW-02A-VAS-137-142	N	N/A	GW	4/23/2022	-	-	-	-	-	-	-	-	-
FW-02A	FW-02A-VAS-147-152	N	N/A	GW	4/24/2022	-	-	-	-	-	-	-	-	-
FW-02A	FW-02A-VAS-157-162	N	N/A	GW	4/25/2022	-	-	-	-	-	-	-	-	-
FW-02A	FW-02A-VAS-167-172	N	N/A	GW	4/25/2022	-	-	-	-	-	-	-	-	-
FW-02A	FW-02A-VAS-177-182	N	N/A	GW	4/26/2022	-	-	-	-	-	-	-	-	-
TCS-1	TCS-1-VAS-164-169	N	N/A	GW	4/3/2022	-	-	-	-	-	-	-	-	-
TCS-1	TCS-1-VAS-192-197	N	N/A	GW	4/4/2022	-	-	-	-	-	-	-	-	-
TCS-1	TCS-1-VAS-221-226	N	N/A	GW	4/5/2022	-	-	-	-	-	-	-	-	-
TCS-1	TCS-1-VAS-254-259	N	N/A	GW	4/7/2022	-	-	-	-	-	-	-	-	-
TCS-1	TCS-1-VAS-266-271	N	N/A	GW	4/13/2022	-	-	-	-	-	-	-	-	-
TCS-2	TCS-2-VAS-131-136	N	N/A	GW	4/19/2022	-	-	-	-	-	-	-	-	-
TCS-2	TCS-2-VAS-147-152	N	N/A	GW	4/20/2022	-	-	-	-	-	-	-	-	-
TCS-2	TCS-2-VAS-161.5-166.5	N	N/A	GW	4/21/2022	-	-	-	-	-	-	-	-	-
TCS-2	TCS-2-VAS-181-186	N	N/A	GW	4/21/2022	-	-	-	-	-	-	-	-	-
TCS-2	TCS-2-VAS-202-207	N	N/A	GW	4/22/2022	-	-	-	-	-	-	-	-	-
TCS-2	TCS-2-VAS-211.5-216.5	N	N/A	GW	4/23/2022	-	-	-	-	-	-	-	-	-
TCS-2	TCS-2-VAS-220-225	N	N/A	GW	4/23/2022	-	-	-	-	-	-	-	-	-
TCS-2	DUP-01-042022	FD	TCS-2-VAS-147-152	GW	4/20/2022	-	-	-	-	-	-	-	-	-
TWB-01		N	N/A	GW	3/18/2022	-	-	-	-	-	-	-	-	-
TWB-01	TWB-1-VAS-87-92	N	N/A	GW	3/20/2022	-	-	-	-	-	-	-	-	-
TWB-01	TWB-1-VAS-97-102	N	N/A	GW	3/20/2022	-	-	-	-	-	-	-	-	-
TWB-01	TWB-1-VAS-110-115	N	N/A	GW	3/21/2022	-	-	-	-	-	-	-	-	-
TWB-01	TWB-1-VAS-122-127	N	N/A	GW	3/21/2022	-	-	-	-	-	-	-	-	-
TWB-01	TWB-1-TEMP-042722	N	N/A	GW	4/27/2022	-	-	-	-	-	-	-	-	-
TWB-01	DUP-1-VAS-032022	FD	TWB-1-VAS-87-92	GW	3/20/2022	-	-	-	-	-	-	-	-	-
TWB-02	TWB-2-VAS-97-102	N	N/A	GW	3/29/2022	-	-	-	-	-	-	-	-	-
TWB-03	TWB-3-VAS-47-52	N	N/A	GW	5/6/2022	-	-	-	-	-	-	-	-	-
TWB-03	TWB-3-VAS-57-62	N	N/A	GW	5/6/2022	-	-	-	-	-	-	-	-	-
TWB-03	TWB-3-VAS-67-72	N	N/A	GW	5/7/2022	-	-	-	-	-	-	-	-	-
TWB-03	TWB-3-VAS-76-81	N	N/A	GW	5/8/2022	-	-	-	-	-	-	-	-	-

Notes:

All samples were sent to Asset for analyses with the exception of ammonia, nitrate/nitrate N, sulfide and TKN which were analyzed by BC Labs.

< = analyte not detected at the reporting limit shown

Acronyms and Abbreviations:

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FD = field duplicate

GW = groundwater

mg/L = milligrams per liter

N = Normal

SM = standard method

SW = solid waste

U = analyte not detected

N/A = not applicable

- = no data

Unvalidated Phase 2a Construction

Location ID	Sample ID	Sample Type	Parent Sample Code	Matrix	Sample Date	Selenium, dissolved by method SW 6020 (ug/L)	Silver by method SW 6020 (ug/L)	Silver, dissolved by method SW 6020 (ug/L)	Sodium, dissolved by method SW 6010B (mg/L)	Sulfate by method EPA 300.0 (mg/L)	Sulfide by method SM 4500-S D (mg/L)	Thallium by method SW 6020 (ug/L)	Thallium, dissolved by method SW 6020 (ug/L)	Total dissolved solids by method SM 2540 C (mg/L)
ER-1	ER-1-136-060122	N	N/A	GW	6/1/2022	-	-	-	-	-	-	-	-	-
ER-1	ER-1-SC-45-136	N	N/A	GW	6/2/2022	3.7	< 0.50 U	< 0.50 U	2100	520	< 0.10 U	< 0.50 U	< 0.50 U	6400
ER-6	ER-6-050922	N	N/A	GW	5/9/2022	-	-	-	-	-	-	-	-	-
ER-6	ER-6-SC-130-223	N	N/A	GW	5/11/2022	-	-	-	-	-	-	-	-	-
FW-02A	FW-02A-VAS-117-122	N	N/A	GW	4/22/2022	-	-	-	-	-	-	-	-	-
FW-02A	FW-02A-VAS-127-132	N	N/A	GW	4/23/2022	-	-	-	-	-	-	-	-	-
FW-02A	FW-02A-VAS-137-142	N	N/A	GW	4/23/2022	-	-	-	-	-	-	-	-	-
FW-02A	FW-02A-VAS-147-152	N	N/A	GW	4/24/2022	-	-	-	-	-	-	-	-	-
FW-02A	FW-02A-VAS-157-162	N	N/A	GW	4/25/2022	-	-	-	-	-	-	-	-	-
FW-02A	FW-02A-VAS-167-172	N	N/A	GW	4/25/2022	-	-	-	-	-	-	-	-	-
FW-02A	FW-02A-VAS-177-182	N	N/A	GW	4/26/2022	-	-	-	-	-	-	-	-	-
TCS-1	TCS-1-VAS-164-169	N	N/A	GW	4/3/2022	-	-	-	-	-	-	-	-	-
TCS-1	TCS-1-VAS-192-197	N	N/A	GW	4/4/2022	-	-	-	-	-	-	-	-	-
TCS-1	TCS-1-VAS-221-226	N	N/A	GW	4/5/2022	-	-	-	-	-	-	-	-	-
TCS-1	TCS-1-VAS-254-259	N	N/A	GW	4/7/2022	-	-	-	-	-	-	-	-	-
TCS-1	TCS-1-VAS-266-271	N	N/A	GW	4/13/2022	-	-	-	-	-	-	-	-	-
TCS-2	TCS-2-VAS-131-136	N	N/A	GW	4/19/2022	-	-	-	-	-	-	-	-	-
TCS-2	TCS-2-VAS-147-152	N	N/A	GW	4/20/2022	-	-	-	-	-	-	-	-	-
TCS-2	TCS-2-VAS-161.5-166.5	N	N/A	GW	4/21/2022	-	-	-	-	-	-	-	-	-
TCS-2	TCS-2-VAS-181-186	N	N/A	GW	4/21/2022	-	-	-	-	-	-	-	-	-
TCS-2	TCS-2-VAS-202-207	N	N/A	GW	4/22/2022	-	-	-	-	-	-	-	-	-
TCS-2	TCS-2-VAS-211.5-216.5	N	N/A	GW	4/23/2022	-	-	-	-	-	-	-	-	-
TCS-2	TCS-2-VAS-220-225	N	N/A	GW	4/23/2022	-	-	-	-	-	-	-	-	-
TCS-2	DUP-01-042022	FD	TCS-2-VAS-147-152	GW	4/20/2022	-	-	-	-	-	-	-	-	-
TWB-01		N	N/A	GW	3/18/2022	-	-	-	-	-	-	-	-	-
TWB-01	TWB-1-VAS-87-92	N	N/A	GW	3/20/2022	-	-	-	-	-	-	-	-	-
TWB-01	TWB-1-VAS-97-102	N	N/A	GW	3/20/2022	-	-	-	-	-	-	-	-	-
TWB-01	TWB-1-VAS-110-115	N	N/A	GW	3/21/2022	-	-	-	-	-	-	-	-	-
TWB-01	TWB-1-VAS-122-127	N	N/A	GW	3/21/2022	-	-	-	-	-	-	-	-	-
TWB-01	TWB-1-TEMP-042722	N	N/A	GW	4/27/2022	-	-	-	-	-	-	-	-	-
TWB-01	DUP-1-VAS-032022	FD	TWB-1-VAS-87-92	GW	3/20/2022	-	-	-	-	-	-	-	-	-
TWB-02	TWB-2-VAS-97-102	N	N/A	GW	3/29/2022	-	-	-	-	-	-	-	-	-
TWB-03	TWB-3-VAS-47-52	N	N/A	GW	5/6/2022	-	-	-	-	-	-	-	-	-
TWB-03	TWB-3-VAS-57-62	N	N/A	GW	5/6/2022	-	-	-	-	-	-	-	-	-
TWB-03	TWB-3-VAS-67-72	N	N/A	GW	5/7/2022	-	-	-	-	-	-	-	-	-
TWB-03	TWB-3-VAS-76-81	N	N/A	GW	5/8/2022	-	-	-	-	-	-	-	-	-

Notes:

All samples were sent to Asset for analyses with the exception of ammonia, nitrate/nitrate N, sulfide and TKN which were analyzed by BC Labs.

< = analyte not detected at the reporting limit shown

Acronyms and Abbreviations:

µg/L = micrograms per liter	SM = standard method
EPA = Environmental SW = solid waste	SW = solid waste
FD = field duplicate	U = analyte not detected
GW = groundwater	N/A = not applicable
mg/L = milligrams per liter	- = no data
N = Normal	

Unvalidated Phase 2a Construction

Location ID	Sample ID	Sample Type	Parent Sample Code	Matrix	Sample Date	Total Kjeldahl Nitrogen by method EPA 351.2 (mg/L)	Total organic carbon by method SM 5310 C (mg/L)	Vanadium by method SW 6020 (ug/L)	Vanadium, dissolved by method SW 6020 (ug/L)	Zinc by method SW 6020 (ug/L)	Zinc, dissolved by method SW 6020 (ug/L)
ER-1	ER-1-136-060122	N	N/A	GW	6/1/2022	-	-	-	-	-	-
ER-1	ER-1-SC-45-136	N	N/A	GW	6/2/2022	0.26	< 20 U	< 1.0 U	< 1.0 U	610	510
ER-6	ER-6-050922	N	N/A	GW	5/9/2022	-	-	-	-	-	-
ER-6	ER-6-SC-130-223	N	N/A	GW	5/11/2022	-	-	-	-	-	-
FW-02A	FW-02A-VAS-117-122	N	N/A	GW	4/22/2022	-	-	-	-	-	-
FW-02A	FW-02A-VAS-127-132	N	N/A	GW	4/23/2022	-	-	-	-	-	-
FW-02A	FW-02A-VAS-137-142	N	N/A	GW	4/23/2022	-	-	-	-	-	-
FW-02A	FW-02A-VAS-147-152	N	N/A	GW	4/24/2022	-	-	-	-	-	-
FW-02A	FW-02A-VAS-157-162	N	N/A	GW	4/25/2022	-	-	-	-	-	-
FW-02A	FW-02A-VAS-167-172	N	N/A	GW	4/25/2022	-	-	-	-	-	-
FW-02A	FW-02A-VAS-177-182	N	N/A	GW	4/26/2022	-	-	-	-	-	-
TCS-1	TCS-1-VAS-164-169	N	N/A	GW	4/3/2022	-	-	-	-	-	-
TCS-1	TCS-1-VAS-192-197	N	N/A	GW	4/4/2022	-	-	-	-	-	-
TCS-1	TCS-1-VAS-221-226	N	N/A	GW	4/5/2022	-	-	-	-	-	-
TCS-1	TCS-1-VAS-254-259	N	N/A	GW	4/7/2022	-	-	-	-	-	-
TCS-1	TCS-1-VAS-266-271	N	N/A	GW	4/13/2022	-	-	-	-	-	-
TCS-2	TCS-2-VAS-131-136	N	N/A	GW	4/19/2022	-	-	-	-	-	-
TCS-2	TCS-2-VAS-147-152	N	N/A	GW	4/20/2022	-	-	-	-	-	-
TCS-2	TCS-2-VAS-161.5-166.5	N	N/A	GW	4/21/2022	-	-	-	-	-	-
TCS-2	TCS-2-VAS-181-186	N	N/A	GW	4/21/2022	-	-	-	-	-	-
TCS-2	TCS-2-VAS-202-207	N	N/A	GW	4/22/2022	-	-	-	-	-	-
TCS-2	TCS-2-VAS-211.5-216.5	N	N/A	GW	4/23/2022	-	-	-	-	-	-
TCS-2	TCS-2-VAS-220-225	N	N/A	GW	4/23/2022	-	-	-	-	-	-
TCS-2	DUP-01-042022	FD	TCS-2-VAS-147-152	GW	4/20/2022	-	-	-	-	-	-
TWB-01		N	N/A	GW	3/18/2022	-	-	-	-	-	-
TWB-01	TWB-1-VAS-87-92	N	N/A	GW	3/20/2022	-	-	-	-	-	-
TWB-01	TWB-1-VAS-97-102	N	N/A	GW	3/20/2022	-	-	-	-	-	-
TWB-01	TWB-1-VAS-110-115	N	N/A	GW	3/21/2022	-	-	-	-	-	-
TWB-01	TWB-1-VAS-122-127	N	N/A	GW	3/21/2022	-	-	-	-	-	-
TWB-01	TWB-1-TEMP-042722	N	N/A	GW	4/27/2022	-	-	-	-	-	-
TWB-01	DUP-1-VAS-032022	FD	TWB-1-VAS-87-92	GW	3/20/2022	-	-	-	-	-	-
TWB-02	TWB-2-VAS-97-102	N	N/A	GW	3/29/2022	-	-	-	-	-	-
TWB-03	TWB-3-VAS-47-52	N	N/A	GW	5/6/2022	-	-	-	-	-	-
TWB-03	TWB-3-VAS-57-62	N	N/A	GW	5/6/2022	-	-	-	-	-	-
TWB-03	TWB-3-VAS-67-72	N	N/A	GW	5/7/2022	-	-	-	-	-	-
TWB-03	TWB-3-VAS-76-81	N	N/A	GW	5/8/2022	-	-	-	-	-	-

Notes:

All samples were sent to Asset for analyses with the exception of ammonia, nitrate/nitrate N, sulfide and TKN which were analyzed by BC Labs.

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Acronyms and Abbreviations:

µg/L = micrograms per liter

EPA = Environmental SW = solid waste

FD = field duplicate

GW = groundwater

mg/L = milligrams per liter

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SM = standard method

SW = solid waste

U = analyte not detected

N/A = not applicable

- = no data

Unvalidated RCM 2022-04 Sampling

Location ID	Sample ID	Sample Type	Sample Method	Matrix	Sample Date	Chromium, Hexavalent by method EPA 218.6 (ug/L)	Chromium, total dissolved by method SW 6020 (ug/L)	Molybdenum, dissolved by method SW 6020 (ug/L)
MW-68-180	MW-68-180-0422	N	LF	GW	4/14/2022	6700	7700 J	36 J

Notes:

All samples were sent to Asset for analyses.

Acronyms and Abbreviations:

µg/L = micrograms per liter

EPA = Environmental Protection Agency

LF = low flow

GW = groundwater

J - estimated result value

N = Normal

SW = solid waste

Unvalidated RCM 2022-05 Sampling

Location ID	Sample ID	Sample Type	Sample Method	Matrix	Sample Date	Chromium, Hexavalent by method EPA 218.6 (ug/L)	Chromium, total dissolved by method SW 6020 (ug/L)	Manganese, dissolved by method SW 6020 (ug/L)	Molybdenum, dissolved by method SW 6020 (ug/L)	Nitrate (as nitrogen) by method EPA 300.0 (mg/L)	Selenium, dissolved by method SW 6020 (ug/L)
MW-67-185	MW-67-185-0522	N	LF	GW	5/20/2022	< 40 U	< 5.0 U	1300	42	< 10 U	51
MW-68-180	MW-68-180-0522	N	LF	GW	5/20/2022	4500	4100	-	42	-	-

Notes:

All samples were sent to Asset for analyses.

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Acronyms and Abbreviations:

µg/L = micrograms per liter

EPA = Environmental Protection Agency

LF = low flow

GW = groundwater

N = Normal

SW = solid waste

- = no data

Unvalidated RCM 2022-05 SURFACEWAT Sampling

Location ID	Sample ID	Sample Type	Parent Sample Code	Matrix	Sample Date	Arsenic, dissolved by method SW 6020 (µg/L)	Chromium, Hexavalent by method EPA 218.6 (µg/L)	Chromium, total dissolved by method SW 6020 (µg/L)	Manganese, dissolved by method SW 6020 (µg/L)
C-BNS	C-BNS-Q222	N	N/A	Surface Water	5/18/2022	2.1 J	< 0.20 U	< 1.0 U	< 0.50 U
C-CON-D	C-CON-D-Q222	N	N/A	Surface Water	5/19/2022	1.9	< 0.20 U	< 1.0 U	< 0.50 U
C-CON-D	MW-929-Q222	FD	C-CON-D-Q222	Surface Water	5/19/2022	2	< 0.20 U	< 1.0 U	3.7
C-CON-S	C-CON-S-Q222	N	N/A	Surface Water	5/19/2022	1.9	< 0.20 U	< 1.0 U	< 0.50 U
C-I-3-D	C-I-3-D-Q222	N	N/A	Surface Water	5/18/2022	2 J	< 0.20 U	< 1.0 U	< 0.50 U
C-I-3-S	C-I-3-S-Q222	N	N/A	Surface Water	5/18/2022	1.9 J	< 0.20 U	< 1.0 U	< 0.50 U
C-MAR-D	C-MAR-D-Q222	N	N/A	Surface Water	5/19/2022	2.1	< 0.20 U	< 1.0 U	0.96
C-MAR-S	C-MAR-S-Q222	N	N/A	Surface Water	5/19/2022	2	< 0.20 U	< 1.0 U	2.6
C-NR1-D	C-NR1-D-Q222	N	N/A	Surface Water	5/19/2022	1.8	< 0.20 U	< 1.0 U	< 0.50 U
C-NR1-S	C-NR1-S-Q222	N	N/A	Surface Water	5/19/2022	2	< 0.20 U	< 1.0 U	< 0.50 U
C-NR3-D	C-NR3-D-Q222	N	N/A	Surface Water	5/19/2022	2	< 0.20 U	< 1.0 U	< 0.50 U
C-NR3-D	MW-930-Q222	FD	C-NR3-D-Q222	Surface Water	5/19/2022	2.1	< 0.20 U	< 1.0 U	< 0.50 U
C-NR3-S	C-NR3-S-Q222	N	N/A	Surface Water	5/19/2022	1.9	< 0.20 U	< 1.0 U	< 0.50 U
C-NR4-D	C-NR4-D-Q222	N	N/A	Surface Water	5/19/2022	1.9	< 0.20 U	< 1.0 U	< 0.50 U
C-NR4-S	C-NR4-S-Q222	N	N/A	Surface Water	5/19/2022	2	< 0.20 U	< 1.0 U	< 0.50 U
C-R22A-D	C-R22A-D-Q222	N	N/A	Surface Water	5/18/2022	2 J	< 0.20 U	< 1.0 U	< 0.50 U
C-R22A-S	C-R22A-S-Q222	N	N/A	Surface Water	5/18/2022	2 J	< 0.20 U	< 1.0 U	< 0.50 U
C-R27-D	C-R27-D-Q222	N	N/A	Surface Water	5/18/2022	2 J	< 0.20 U	< 1.0 U	< 0.50 U
C-R27-S	C-R27-S-Q222	N	N/A	Surface Water	5/18/2022	1.9 J	< 0.20 U	< 1.0 U	< 0.50 U
C-TAZ-D	C-TAZ-D-Q222	N	N/A	Surface Water	5/18/2022	2.1 J	< 0.20 U	< 1.0 U	< 0.50 U
C-TAZ-S	C-TAZ-S-Q222	N	N/A	Surface Water	5/18/2022	2 J	< 0.20 U	< 1.0 U	< 0.50 U
R-19	R-19-Q222	N	N/A	Surface Water	5/19/2022	1.9	< 0.20 U	< 1.0 U	< 0.50 U
R-28	R-28-Q222	N	N/A	Surface Water	5/18/2022	2 J	< 0.20 U	< 1.0 U	0.58
R63	R63-Q222	N	N/A	Surface Water	5/18/2022	2 J	< 0.20 U	< 1.0 U	1.2
R63	MW-931-Q222	FD	R63-Q222	Surface Water	5/18/2022	2 J	< 0.20 U	< 1.0 U	1.2
RRB	RRB-Q222	N	N/A	Surface Water	5/19/2022	2	< 0.20 U	< 1.0 U	7.6
SW1	SW1-Q222	N	N/A	Surface Water	5/18/2022	1.6 J	< 0.20 U	< 1.0 U	11
SW2	SW2-Q222	N	N/A	Surface Water	5/18/2022	1.9 J	< 0.20 U	< 1.0 U	1.8

Notes:

All samples were sent to Asset for analyses.

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Acronyms and Abbreviations:

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FD = field duplicate

J - estimated result value

N = Normal

SW = solid waste

N/A = not applicable

Remediation Well Baseline Samp 2022-03

Location ID	Sample ID	Sample Type	Matrix	Sample Date	Alkalinity, bicarb as CaCO3 by method SM 2320	Alkalinity, carb as CaCO3 by method SM 2320 B (mg/L)	Alkalinity, total as CaCO3 by method SM 2320 B (mg/L)	Aluminum by method SW 6010B (µg/L)	Aluminum, dissolved by method SW 6010B	Ammonia as nitrogen by method SM 4500-	Antimony by method SW 6020 (µg/L)
IRZ-13D-210	IRZ-13D-210-031022	N	WATER	3/10/2022	52	< 5.0 U	52	< 50 U	86	< 0.20 U	< 0.50 U
IRZ-13S-095	IRZ-13S-095-031022	N	WATER	3/10/2022	48	< 5.0 U	48	< 50 U	< 50 U	< 0.22 U	< 0.50 U

Notes:

All samples were sent to Asset for analyses with the exception of Ammonia, Biological Oxygen Demand, Sulfide and Total Kjeldahl Nitrogen, which were analyzed at BC Laboratories.

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Acronyms and Abbreviations:

µg/L = micrograms per liter

EPA = Environmental Protection Agency

J = estimated result

mg/L = milligrams per liter

N = Normal

SM = standard method

SW = solid waste

U = analyte not detected

- = no data

Remediation Well Baseline Samp 2022-03

Location ID	Sample ID	Sample Type	Matrix	Sample Date	Antimony, dissolved by method SW 6020	Arsenic by method SW 6020 (µg/L)	Arsenic, dissolved by method SW 6020 (µg/L)	Barium by method SW 6020 (µg/L)	Barium, dissolved by method SW 6020 (µg/L)	Beryllium by method SW 6020 (µg/L)	Beryllium, dissolved by method SW 6020
IRZ-13D-210	IRZ-13D-210-031022	N	WATER	3/10/2022	< 0.50 U	1.8 J	< 0.10 UJ	47	44 J	< 0.50 UJ	< 0.50 UJ
IRZ-13S-095	IRZ-13S-095-031022	N	WATER	3/10/2022	< 0.50 U	< 0.10 UJ	< 0.10 UJ	82	76 J	< 0.50 UJ	< 0.50 UJ

Notes:

All samples were sent to Asset for analyses with the exception of Ammonia, Biological Oxygen Demand, Sulfide and Total Kjeldahl Nitrogen, which were analyzed at BC Laboratories.

< = analyte not detected at the reporting limit shown

Acronyms and Abbreviations:

µg/L = micrograms per liter

EPA = Environmental Protection Agency

J = estimated result

mg/L = milligrams per liter

N = Normal

SM = standard method

SW = solid waste

U = analyte not detected

- = no data

Remediation Well Baseline Samp 2022-03

Location ID	Sample ID	Sample Type	Matrix	Sample Date	Biological Oxygen Demand, 5-Day by method	Boron by method SW 6010B (µg/L)	Boron, dissolved by method SW 6010B (mg/L)	Bromide by method EPA 300.0 (mg/L)	Cadmium by method SW 6020 (µg/L)	Cadmium, dissolved by method SW 6020	Calcium by method SW 6010B (µg/L)
IRZ-13D-210	IRZ-13D-210-031022	N	WATER	3/10/2022	< 1.5 U	1400	1.4	< 5.0 U	< 0.50 U	< 0.50 U	570000 J
IRZ-13S-095	IRZ-13S-095-031022	N	WATER	3/10/2022	< 1.5 U	1200	1.1	< 5.0 U	< 0.50 U	< 0.50 U	350000 J

Notes:

All samples were sent to Asset for analyses with the exception of Ammonia, Biological Oxygen Demand, Sulfide and Total Kjeldahl Nitrogen, which were analyzed at BC Laboratories.

< = analyte not detected at the reporting limit shown

Acronyms and Abbreviations:

µg/L = micrograms per liter

EPA = Environmental Protection Agency

J = estimated result

mg/L = milligrams per liter

N = Normal

SM = standard method

SW = solid waste

U = analyte not detected

- = no data

Remediation Well Baseline Samp 2022-03

Location ID	Sample ID	Sample Type	Matrix	Sample Date	Calcium, dissolved by method SW 6010B (mg/L)	Chloride by method EPA 300.0 (mg/L)	Chromium, Hexavalent by method EPA 218.6	Chromium, total by method SW 6020 (µg/L)	Chromium, total dissolved by method SW 6020	Cobalt by method SW 6020 (µg/L)	Cobalt, dissolved by method SW 6020 (µg/L)
IRZ-13D-210	IRZ-13D-210-031022	N	WATER	3/10/2022	450	6200	350	310	340	< 0.50 UJ	< 0.50 U
IRZ-13S-095	IRZ-13S-095-031022	N	WATER	3/10/2022	430	2800	17	18	17	< 0.50 UJ	< 0.50 U

Notes:

All samples were sent to Asset for analyses with the exception of Ammonia, Biological Oxygen Demand, Sulfide and Total Kjeldahl Nitrogen, which were analyzed at BC Laboratories.

< = analyte not detected at the reporting limit shown

Acronyms and Abbreviations:

µg/L = micrograms per liter

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Remediation Well Baseline Samp 2022-03

Location ID	Sample ID	Sample Type	Matrix	Sample Date	Copper by method SW 6020 (µg/L)	Copper, dissolved by method SW 6020 (µg/L)	Fluoride by method EPA 300.0 (mg/L)	Hardness, Calcium (As CaCO ₃) by method SM 2340	Hardness, Magnesium (As CaCO ₃) by	Hardness, total as CaCO ₃ by method SM 2340 B (mg/L)	Iron by method SW 6010B (µg/L)
IRZ-13D-210	IRZ-13D-210-031022	N	WATER	3/10/2022	< 1.0 U	< 1.0 U	3.7	1100	-	-	< 20 U
IRZ-13S-095	IRZ-13S-095-031022	N	WATER	3/10/2022	< 1.0 U	< 1.0 U	3.8	1100	150	1200	60

Notes:

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Remediation Well Baseline Samp 2022-03

Location ID	Sample ID	Sample Type	Matrix	Sample Date	Iron Related Bacteria by method BART	Iron, dissolved by method SW 6010B (µg/L)	Lead by method SW 6020 (µg/L)	Lead, dissolved by method SW 6020 (µg/L)	Magnesium by method SW 6010B (µg/L)	Magnesium, dissolved by method SW 6010B	Manganese by method SW 6020 (µg/L)
IRZ-13D-210	IRZ-13D-210-031022	N	WATER	3/10/2022	9000	59 J	< 1.0 U	< 1.0 U	54000 J	52 J	63
IRZ-13S-095	IRZ-13S-095-031022	N	WATER	3/10/2022	9000	< 20 UJ	< 1.0 U	< 1.0 U	29000 J	37 J	1.5

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Remediation Well Baseline Samp 2022-03

Location ID	Sample ID	Sample Type	Matrix	Sample Date	Manganese, dissolved by method SW 6020	Mercury by method EPA 7470A (µg/L)	Mercury, dissolved by method EPA 7470A (µg/L)	Modified Fouling Index by method MFI (s/L2)	Molybdenum by method SW 6020 (µg/L)	Molybdenum, dissolved by method SW 6020	Nickel by method SW 6020 (µg/L)
IRZ-13D-210	IRZ-13D-210-031022	N	WATER	3/10/2022	62	< 0.20 U	< 0.20 U	1.3	32	34	< 25 UJ
IRZ-13S-095	IRZ-13S-095-031022	N	WATER	3/10/2022	< 0.50 U	< 0.20 U	< 0.20 U	0.35	15	15	< 1.0 UJ

Notes:

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Remediation Well Baseline Samp 2022-03

Location ID	Sample ID	Sample Type	Matrix	Sample Date	Nickel, dissolved by method SW 6020 (µg/L)	Nitrate (as nitrogen) by method EPA 300.0	Nitrite as Nitrogen by method EPA 300.0 (mg/L)	Orthophosphate, dissolved by method EPA 300.0	Potassium by method SW 6010B (µg/L)	Potassium, dissolved by method SW 6010B	Selenium by method SW 6020 (µg/L)
IRZ-13D-210	IRZ-13D-210-031022	N	WATER	3/10/2022	< 25 UJ	1.5	< 5.0 U	< 1.0 U	30000	29 J	1
IRZ-13S-095	IRZ-13S-095-031022	N	WATER	3/10/2022	< 1.0 UJ	1.6	< 5.0 U	< 1.0 U	17000	16 J	0.83

Notes:

All samples were sent to Asset for analyses with the exception of Ammonia, Biological Oxygen Demand, Sulfide and Total Kjeldahl Nitrogen, which were analyzed at BC Laboratories.

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Remediation Well Baseline Samp 2022-03

Location ID	Sample ID	Sample Type	Matrix	Sample Date	Selenium, dissolved by method SW 6020	Silver by method SW 6020 (µg/L)	Silver, dissolved by method SW 6020 (µg/L)	Slime Forming Bacteria by method BART	Sodium by method SW 6010B (µg/L)	Sodium, dissolved by method SW 6010B (mg/L)	Soluble silica, dissolved by method SW 6010B
IRZ-13D-210	IRZ-13D-210-031022	N	WATER	3/10/2022	0.96	< 0.50 U	< 0.50 U	20	4300000	4200	15 J
IRZ-13S-095	IRZ-13S-095-031022	N	WATER	3/10/2022	0.86	< 0.50 U	< 0.50 U	500	2100000	2000	17 J

Notes:

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Remediation Well Baseline Samp 2022-03

Location ID	Sample ID	Sample Type	Matrix	Sample Date	Sulfate by method EPA 300.0 (mg/L)	Sulfate Reducing Bacteria by method BART	Sulfide by method SM 4500-S D (mg/L)	Thallium by method SW 6020 (µg/L)	Thallium, dissolved by method SW 6020	Total dissolved solids by method SM 2540 C (mg/L)	Total Kjeldahl Nitrogen by method EPA 351.2
IRZ-13D-210	IRZ-13D-210-031022	N	WATER	3/10/2022	950	0	< 0.10 U	< 0.50 U	< 0.50 U	12000	< 0.20 U
IRZ-13S-095	IRZ-13S-095-031022	N	WATER	3/10/2022	460	0	< 0.10 U	< 0.50 U	< 0.50 U	5600	< 0.20 U

Notes:

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Remediation Well Baseline Samp 2022-03

Location ID	Sample ID	Sample Type	Matrix	Sample Date	Total organic carbon by method SM 5310 C (mg/L)	Total phosphorus as P by method EPA 365.3 (mg/L)	Vanadium by method SW 6020 (µg/L)	Vanadium, dissolved by method SW 6020	Zinc by method SW 6020 (µg/L)	Zinc, dissolved by method SW 6020 (µg/L)
IRZ-13D-210	IRZ-13D-210-031022	N	WATER	3/10/2022	< 50 U	< 0.020 U	2.1	2.5	< 10 UJ	< 10 UJ
IRZ-13S-095	IRZ-13S-095-031022	N	WATER	3/10/2022	< 1.0 U	< 0.020 U	3.8	3.9	< 10 UJ	< 10 UJ

Notes:

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