



2021 Annual Groundwater Monitoring and Corrective Action Report - Revision 1

Coleto Creek Primary Ash Pond - Fannin, Texas

Prepared for:

Coleto Creek Power LLC

Prepared by:

Golder Associates Inc., Member of WSP

1601 S. Mopac Expy, Suite 325D, Austin, Texas, USA 78746

+1 737 703 3900

November 2022

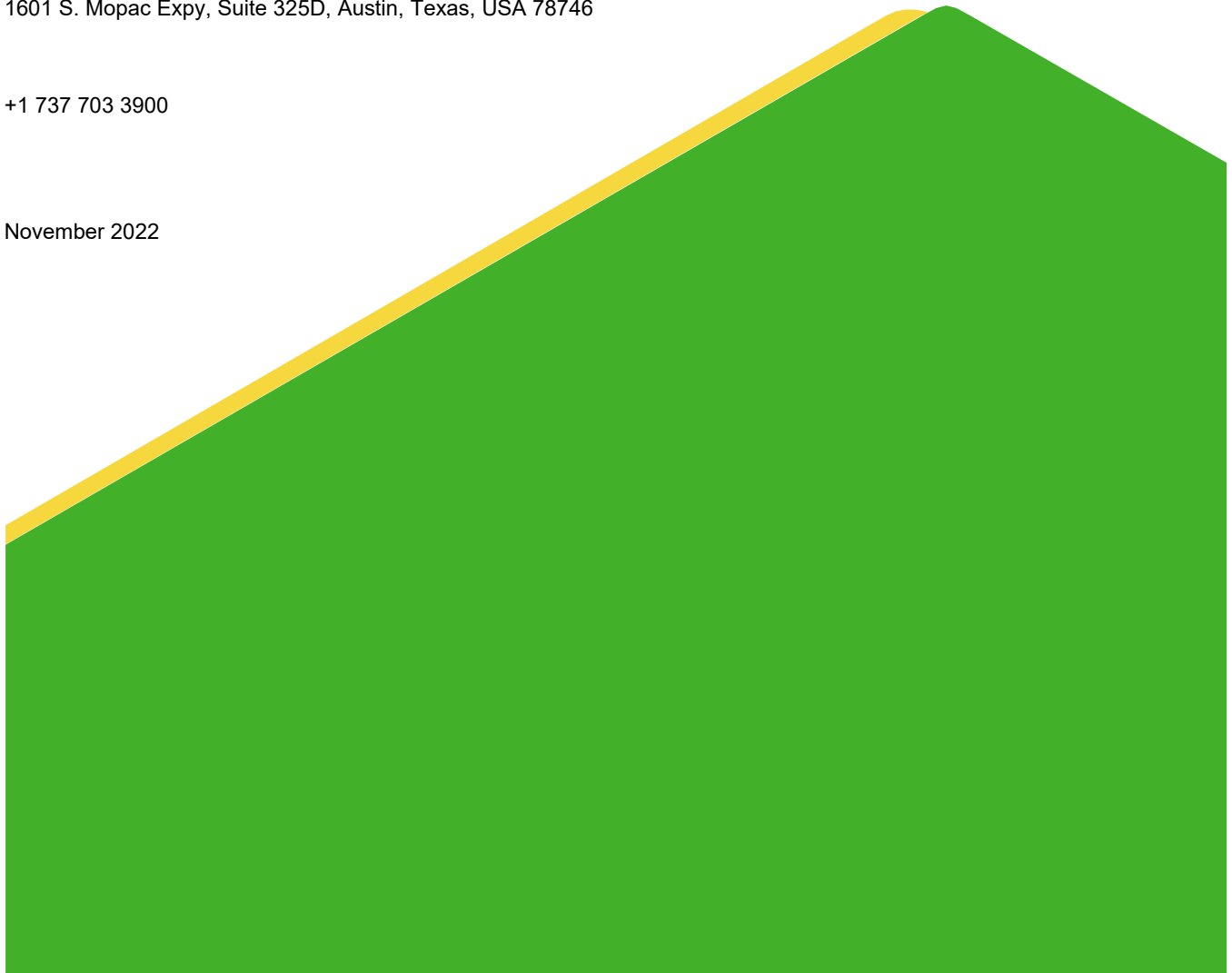


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ACRONYMS AND ABBREVIATIONS

CCR	Coal Combustion Residuals
C.F.R.	Code of Federal Regulations
GWPS	Groundwater Protection Standard
MCL	Maximum Concentration Level
mg/L	Milligrams per Liter
NA	Not Applicable
OBG	O'Brien & Gere Engineers, Inc.
SSI	Statistically Significant Increase
SSL	Statistically Significant Level
T.A.C.	Texas Administrative Code
TCEQ	Texas Commission on Environmental Quality
USEPA	United States Environmental Protection Agency

DOCUMENT REVISION RECORD

Issue No.	Date	Details of Revisions
Revision 0	January 31, 2022	Original Document
Revision 1	November 2022	Added laboratory analytical reports, documentation on statistical evaluation of Appendix IV groundwater data, groundwater potentiometric surface maps, and professional seals to figures where applicable

EXECUTIVE SUMMARY

Golder Associates USA Inc. (Golder), Member of WSP, has prepared this report on behalf of Coletto Creek Power LLC to satisfy the 2021 annual groundwater monitoring and corrective action reporting requirements of 40 C.F.R. Part 257 and 30 T.A.C. Chapter 352 for the Primary Ash Pond (the “CCR unit”) at the Coletto Creek Power Station in Fannin, Texas. The CCR unit and CCR monitoring well network are shown on Figure 1.

At the beginning and end of the 2021 reporting period, the CCR unit was operating under an Assessment Monitoring Program as described in § 257.95. The Assessment Monitoring Program was established on May 9, 2018. No constituents listed in Appendix IV to Part 257 were detected at statistically significant levels (SSLs) above groundwater protection standards (GWPSs) during 2021. The Assessment Monitoring Program will continue during 2022 in accordance with § 257.95.

1.0 INTRODUCTION

The CCR Rule (40 C.F.R. 257 Subpart D - *Standards for the Receipt of Coal Combustion Residuals in Landfills and Surface Impoundments*) was promulgated by the United States Environmental Protection Agency (USEPA) to regulate the management and disposal of CCRs as solid waste under Resource Conservation and Recovery Act (RCRA) Subtitle D. TCEQ has adopted portions of the federal CCR rule at 30 T.A.C. Chapter 352 (Texas CCR Rule), and USEPA published its final approval of the Texas CCR rule on June 28, 2021. See 86 Fed. Reg. 33,892 (June 28, 2021). The Texas CCR Rule became effective on July 28, 2021, and it adopts and incorporates by reference the requirements for the annual groundwater monitoring report located at 40 C.F.R. §257.90. See 30 T.A.C. § 352.901. It further adopts and incorporates by reference the Federal CCR Program requirements for detection and assessment monitoring in 30 T.A.C. §352.941 and 30 T.A.C. §352.951, respectively. Pursuant to 30 T.A.C. § 352.902, this report will be submitted to TCEQ for review no later than 30 days after the report has been placed in the facility's operating record. For existing CCR landfills and surface impoundments, the CCR Rule requires that the owner or operator prepare an annual groundwater monitoring and corrective action report to document the status of the groundwater monitoring and corrective action program for the CCR unit for the previous calendar year. Per §257.90(e) of the CCR Rule, the report should contain the following information, to the extent available:

- (1) A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit;
- (2) Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken;
- (3) In addition to all the monitoring data obtained under §§ 257.90 through 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs;
- (4) A narrative discussion of any transition between monitoring programs (e.g., the date and circumstances for transitioning from detection monitoring to assessment monitoring in addition to identifying the constituent(s) detected at a statistically significant increase over background levels); and
- (5) Other information required to be included in the annual report as specified in §§ 257.90 through 257.98.
- (6) A section at the beginning of the annual report that provides an overview of the current status of groundwater monitoring and corrective action programs for the CCR unit. At a minimum, the summary must specify all of the following:
 - (i) At the start of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in §257.94 or the assessment monitoring program in §257.95;

- (ii) At the end of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in § 257.94 or the assessment monitoring program in § 257.95;
- (iii) If it was determined that there was a statistically significant increase over background for one or more constituents listed in appendix III to this part pursuant to § 257.94(e):
 - (A) Identify those constituents listed in appendix III to this part and the names of the monitoring wells associated with such an increase; and
 - (B) Provide the date when the assessment monitoring program was initiated for the CCR unit.
- (iv) If it was determined that there was a SSL above the groundwater protection standard for one or more constituents listed in appendix IV to this part pursuant to § 257.95(g) include all of the following:
 - (A) Identify those constituents listed in appendix IV to this part and the names of the monitoring wells associated with such an increase;
 - (B) Provide the date when the assessment of corrective measures was initiated for the CCR unit;
 - (C) Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit; and
 - (D) Provide the date when the assessment of corrective measures was completed for the CCR unit.
- (v) Whether a remedy was selected pursuant to § 257.97 during the current annual reporting period, and if so, the date of remedy selection; and
- (vi) Whether remedial activities were initiated or are ongoing pursuant to § 257.98 during the current annual reporting period.

2.0 MONITORING AND CORRECTIVE ACTION PROGRAM STATUS

O'Brien & Gere Engineers, Inc. (OBG) collected the initial Detection Monitoring Program groundwater samples from the Primary Ash Pond CCR monitoring well network in November 2017. OBG completed an evaluation of those data in 2018 using procedures described in the Statistical Analysis Plan (OBG, 2017) to identify statistically significant increases (SSIs) of Appendix III parameters over background concentrations. The Detection Monitoring Program sampling dates and parameters are summarized in the following table:

Detection Monitoring Program Summary

Sampling Dates	Parameters	SSIs	Assessment Monitoring Program Established
November 7-8, 2017	Appendix III	Yes	May 9, 2018

Alternate source evaluations were inconclusive for one or more of the SSIs. Consequently, an Assessment Monitoring Program was initiated and established for the Primary Ash Pond CCR unit in 2018 in accordance with § 257.94(e)(2).

Assessment Monitoring Program groundwater samples were collected from the CCR groundwater monitoring network in 2018, as required by the CCR Rule. OBG collected the initial 2018 Assessment Monitoring Program groundwater samples in June 2018. Subsequent Assessment Monitoring Program sampling events have been conducted by Golder on a semi-annual basis, as required by the CCR Rule. All CCR groundwater monitoring wells were sampled for Appendix III and Appendix IV constituents during the first and second semi-annual sampling events of each year. The Assessment Monitoring Program sampling dates and results are summarized in the following table:

Assessment Monitoring Program Summary

Sampling Dates	Analytical Data Receipt Date	Parameters	SSL(s)	SSL(s) Determination Date	Corrective Measures Assessment Initiated
June 19-25, 2018	August 7, 2018	Appendix III Appendix IV	No	NA	NA
Sept. 18, 2018	October 12, 2018	Appendix III Appendix IV	No	NA	NA
June 3-5, 2019	July 12, 2019	Appendix III Appendix IV	No	NA	NA
October 2-3, 2019	November 5, 2019	Appendix III Appendix IV	No	NA	NA
June 9, 2020	July 15, 2020	Appendix III Appendix IV	No	NA	NA
October 6, 2020	November 9, 2020	Appendix III Appendix IV	No	NA	NA
June 2 and June 25, 2021	July 30, 2021	Appendix III Appendix IV	No	NA	NA
September 28, 2021	November 9, 2021	Appendix III Appendix IV	No	NA	NA

Notes:

NA - not applicable

The statistical background prediction limits used to assess Appendix III data and the GWPSs used to assess Appendix IV data are summarized in Tables 1 and 2, respectively. Appendix III and Appendix IV sample analytical data are summarized in Tables 3 and 4, respectively, and the laboratory analytical reports are provided in Attachment 1. Statistical analysis of the 2021 sample data was performed in accordance with the USEPA Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities-Unified Guidance (USEPA 2009). The statistical analysis included an evaluation of statistical confidence intervals based on Appendix IV sample data collected from downgradient monitoring wells. Statistically significant levels (SSLs) above GWPSs are indicated if the 95% lower confidence limit of a particular parameter's data population exceeds the GWPS. Based on the Appendix IV sample data, none of the Appendix IV parameters are currently present at SSLs above GWPSs. Graphical representations of the statistical analysis performed on the 2021 data are provided in Attachment 2.

3.0 KEY ACTIONS COMPLETED IN 2021

Assessment Monitoring Program groundwater monitoring events were completed in June and September 2021. The number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and the analytical results for the groundwater samples are summarized in Table 3 (Appendix III parameters) and Table 4 (Appendix IV parameters).

No CCR wells were installed or decommissioned in 2021.

Water elevations measured in the CCR wells during the semi-annual groundwater sampling events were used to develop groundwater potentiometric surface maps, which are presented in Attachment 3. The inferred direction of groundwater flow was generally to the southeast during both semi-annual ground sampling events in 2021.

4.0 PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS

No problems were encountered with the CCR groundwater monitoring program in 2021.

5.0 KEY ACTIVITIES PLANNED FOR 2022

The following key activities are planned for 2022:

- Luminant submitted a registration application to TCEQ under the Texas CCR Rule for the Coletto Creek Primary Ash Pond on January 24, 2022.
- Continue the Assessment Monitoring Program in accordance with applicable provisions of 40 C.F.R. §257.95 and 30 T.A.C. §352.951.

6.0 REFERENCES

O'Brien & Gere Engineers, Inc. (OBG), 2017. Statistical Method Certification, CCR Unit: Coletto Creek Power, LP; Coletto Creek Power Station; Coletto Creek Primary Ash Pond.

USEPA, 2009. Unified Guidance Document: Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, EPA 530/R-09-007, March.

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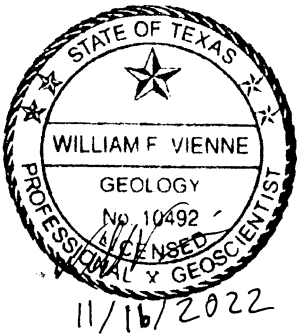
Golder Associates Inc.



William F. Vienne
Senior Hydrogeologist



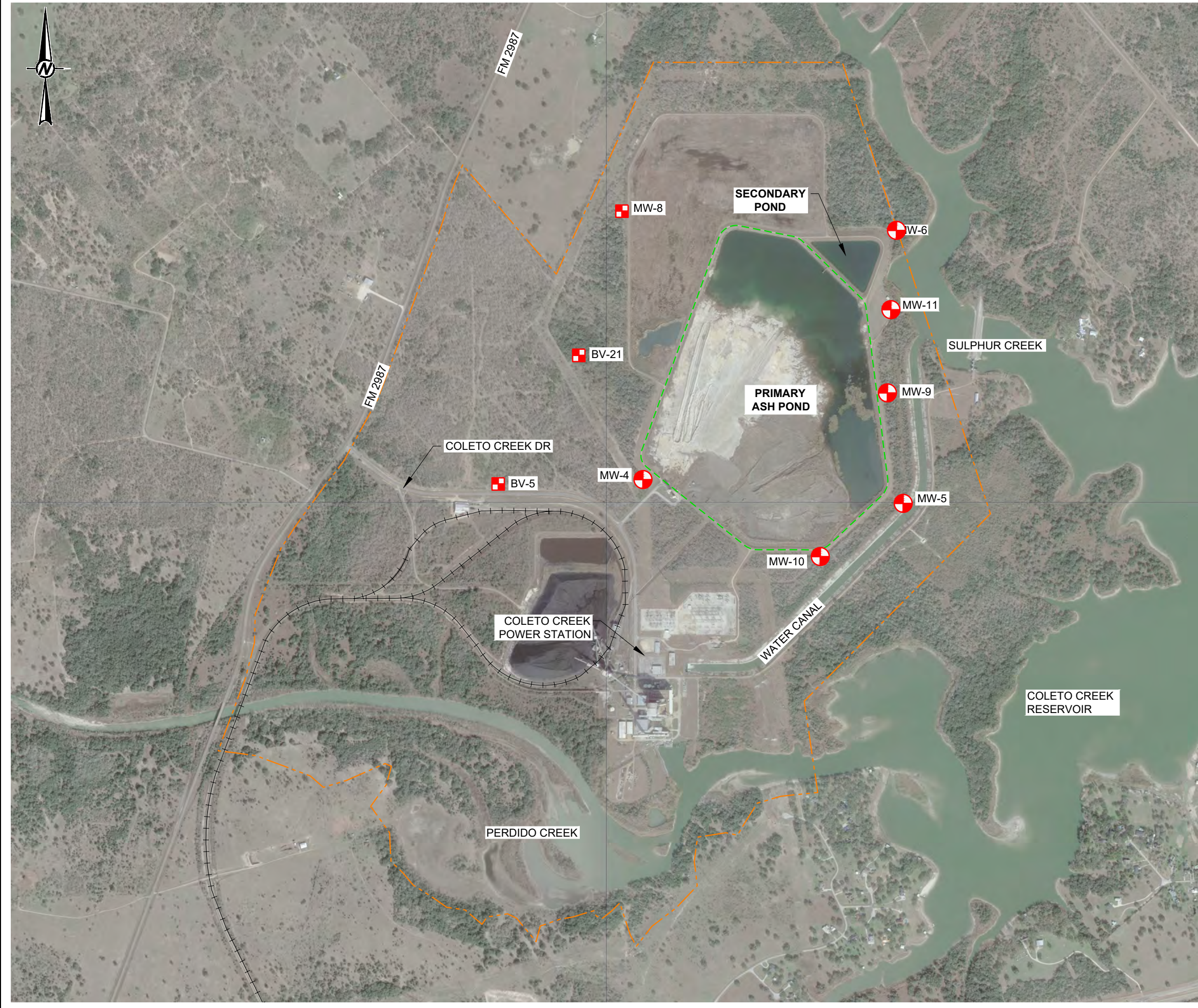
Patrick J. Behling
Principal Engineer



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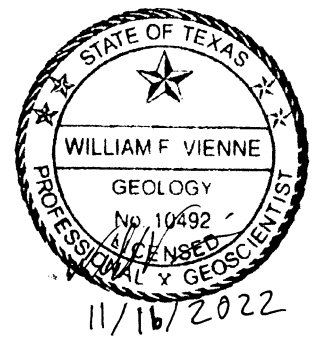
FIGURES

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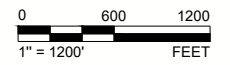


LEGEND

	PROPERTY BOUNDARY
	CCR MONITORING UNIT
	DOWNGRADIENT CCR MONITORING WELL
	UPGRADIENT CCR MONITORING WELL
	RAILROAD



REFERENCE(S)
 BASE MAP TAKEN FROM GOOGLE EARTH, IMAGERY DATED 1/15/21.



CLIENT
 COLETO CREEK POWER LP

PROJECT
 COLETO CREEK POWER STATION
 FANNIN, TEXAS

TITLE
 FACILITY LAYOUT MAP

CONSULTANT	YYYY-MM-DD	2021-12-14
	DESIGNED	RS
GOLDER	PREPARED	RS
MEMBER OF WSP	REVIEWED	WFV
	APPROVED	WFV

PROJECT NO. 20142034 REV. 0 FIGURE 1

1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

TABLES

Table 1
Appendix III Statistical Background Values
Coletto Creek Primary Ash Pond

Parameter	Statistical Background Value
Boron (mg/L)	1.26
Calcium (mg/L)	143
Chloride (mg/L)	118
Fluoride (mg/L)	0.61
field pH (s.u.)	6.51 7.33
Sulfate (mg/L)	148
Total Dissolved Solids (mg/L)	966

Table 2
Groundwater Protection Standards
Coletto Creek Primary Ash Pond

Parameter	Groundwater Protection Standard
Antimony (mg/L)	0.006
Arsenic (mg/L)	0.128
Barium (mg/L)	2.0
Beryllium (mg/L)	0.004
Cadmium (mg/L)	0.005
Chromium (mg/L)	0.10
Cobalt (mg/L)	0.0499
Fluoride (mg/L)	4.0
Lead (mg/L)	0.015
Lithium (mg/L)	0.04
Mercury (mg/L)	0.002
Molybdenum (mg/L)	0.10
Selenium (mg/L)	0.05
Thallium (mg/L)	0.002
Radium 226+228 (pCi/L)	5.0

**TABLE 3
APPENDIX III ANALYTICAL RESULTS
COLETO CREEK PRIMARY ASH POND**

Sample Location	Date Sampled	B	Ca	Cl	F	field pH	SO ₄	TDS
Upgradient Wells								
BV-5	03/29/17	1.15	90.5	118	0.54	7.01	147	860
	05/11/17	1.03	81.6	106	0.57	6.89	148	862
	05/16/17	1.17	99	107	0.55	6.9	145	832
	06/07/17	1.11	88.8	109	0.56	6.64	147	810
	06/20/17	1.02	90.7	106	0.58	6.54	145	716
	06/27/17	1.14	100	114	0.55	6.76	144	743
	07/12/17	1.07	96.8	112	0.56	6.88	140	430
	07/18/17	1.17	143	117	0.56	6.68	142	817
	11/07/17	1.10	94.2	109	0.62	6.96	136	850
	06/19/18	1.18	56.4	112	0.97	--	147	775
	09/18/18	1.27	86.2	145	0.667	6.53	146	904
	06/05/19	1.26	82.9	123	0.769	6.89	146	828
	10/03/19	1.31	72.2	141	0.753	7.11	145	806
	06/09/20	1.35	90.4	171	0.498	6.97	159	951
	10/06/20	1.26	80.2	133	1.01	6.54	155	843
06/02/21	1.35	108	201	0.699	6.62	190	1110	
09/28/21	1.12	75.6	146	0.687	6.74	169	925	
BV-21	03/28/17	0.651	6.89	36	0.61	7.09	69	490
	05/09/17	0.687	65.2	38	0.61	7.04	55	410
	05/17/17	0.709	74.3	39	0.58	7.05	53	454
	06/06/17	0.657	69	40	0.59	7.11	49	452
	06/20/17	0.642	77	40	0.61	6.7	45	356
	06/27/17	0.727	84.9	40	0.6	6.97	46	420
	07/10/17	0.674	90.6	39	0.58	7.22	45	427
	07/18/17	0.618	84.4	39	0.6	6.91	44	380
	11/07/17	0.515	73.6	42	0.64	7.12	46	423
	06/25/18	0.543	69.3	38.4	0.62	--	38.4	380
	09/18/18	0.624	72.1	33.3	0.479	6.64	36.4	416
	06/05/19	0.576	61.3	30.3	0.602	7.1	34.2	379
	10/03/19	0.534	63.4	23.9	0.588	6.82	33.2	342
	06/09/20	0.447	72.5	34.2	0.522	6.96	18.5	362
	10/06/20	0.480	84.0	40.4	0.677	6.72	14.5	390
06/02/21	0.399	79.8	49.5	0.705	6.91	32.9	404	
09/28/21	0.385	77.3	61.7	0.496	7.02	31.3	426	
MW-8	03/28/17	1.2	7.76	79	0.49	7.06	76	626
	05/09/17	1.21	77.5	77	0.44	7.15	79	564
	05/15/17	1.16	81.2	76	0.44	7.01	79	558
	06/06/17	1.26	78.1	72	0.45	6.92	83.5	570
	06/20/17	1.24	86.5	67	0.43	6.7	89	476
	06/27/17	1.23	89.6	66	0.44	6.85	97	533
	07/10/17	1.24	92.6	63	0.44	7.13	97	533
	07/18/17	1.25	92.9	61	0.46	6.91	100	533
	11/07/17	1.21	78.8	61	0.49	7.08	100	540
	06/25/18	1.25	80.3	65.9	0.52	--	95.2	565
	09/18/18	1.29	76.5	53.7	0.402	6.70	94.8	543
	06/05/19	1.11	65.2	51.4	0.497	7.10	79	515
	10/03/19	1.2	76.7	58.3	0.419	6.76	90.1	541
	06/09/20	1.33	73.1	46.4	0.392 J	7.04	72.3	511
	10/06/20	1.18	81.1	49.5	0.652	6.84	72.2	510
06/25/21	0.863	80.1	53.2	0.673	6.81	58.8	489	
09/28/21	0.830	59.9	49.5	0.473	7.17	56.8	476	

**TABLE 3
APPENDIX III ANALYTICAL RESULTS
COLETO CREEK PRIMARY ASH POND**

Sample Location	Date Sampled	B	Ca	Cl	F	field pH	SO ₄	TDS
Downgradient Wells								
MW-4	03/28/17	0.287	9.14	102	0.61	9.81	157	794
	05/09/17	0.395	88.7	101	0.61	7.27	156	668
	05/17/17	0.251	92.1	101	0.6	6.93	157	702
	06/06/17	0.243	90.7	101	0.63	7.13	157	728
	06/20/17	0.254	99.3	101	0.62	6.71	157	626
	06/27/17	0.254	102	101	0.63	6.87	157	690
	07/10/17	0.271	111	101	0.62	7.16	158	670
	07/18/17	0.292	108	101	0.63	6.82	157	717
	11/07/17	0.255	94.5	99	0.62	7.12	155	700
	06/21/18	0.267	92.5	104	0.6	--	159	665
	09/18/18	0.28	91.8	102	0.582	6.63	155	720
	06/05/19	0.379	85.3	108	0.67	6.92	161	718
	10/03/19	0.367	93.1	102	0.559	6.7	155	693
	06/09/20	0.241	94.9	24.6	0.205 J	6.88	26.8	400
	10/06/20	0.328	103	101	0.736	6.75	151	731
06/02/21	0.33	94.1	98.3	0.769	6.64	153	727	
09/28/21	0.288	88.3	98.7	0.647	6.94	164	714	
MW-5	03/30/17	0.11	110	140	0.51	6.85	184	830
	05/10/17	0.115	114	139	0.54	6.86	183	900
	05/16/17	0.215	121	139	0.5	6.81	183	848
	06/08/17	0.122	118	139	0.55	6.8	182	862
	06/21/17	0.122	124	138	0.53	6.6	182	813
	06/26/17	0.121	129	139	0.54	6.79	184	900
	07/11/17	0.111	120	138	0.52	6.91	184	797
	07/19/17	0.001	0.005	137	0.53	6.84	181	857
	11/08/17	0.149	116	138	0.52	6.92	183	883
	06/25/18	0.119	114	140	0.56	--	183	820
	09/18/18	0.146	114	136	0.493	6.70	183	824
	06/03/19	0.146	113	143	0.596	7.06	187	864
	10/02/19	0.179	111	147	0.543	7.06	202	842
	06/09/20	0.152	117	138	0.370 J	6.84	182	858
	10/6/2020	0.160	125	133	0.662	6.91	178	841
6/25/2021	0.181	120	135	0.661	6.91	173	813	
9/28/2021	0.150	103	127	0.559	7.15	190	831	
MW-6	03/29/17	1.67	73.9	69	0.38	7.34	99	510
	05/11/17	1.94	70.6	70	0.37	7.1	110	490
	05/16/17	1.84	76.3	70	0.36	7.23	107	506
	06/07/17	1.8	73.8	70	0.37	6.97	103	492
	06/22/17	1.97	79.9	69	0.37	7.11	100	510
	06/28/17	1.74	81.8	69	0.37	7.16	99	570
	07/12/17	1.76	81.6	69	0.35	7.24	98	557
	07/20/17	0.005	0.0002	69	0.39	6.9	97	530
	11/07/17	1.72	76.4	69	0.39	7.41	101	483
	06/22/18	0.0171	76.6	70.7	0.41	--	107	490
	09/18/18	2.09	70.8	72.5	0.353 J	6.97	114	505
	06/03/19	1.9	73.9	73	0.438	7.31	103	514
	10/02/19	1.83	73.6	76.4	0.357 J	7.29	115	507
	06/09/20	2.51	69.7	80.9	0.4	6.95	122	507
	10/06/20	1.92	81.9	73.4	0.512	6.97	87.9	510
06/25/21	1.75	79.1	72.7	0.542	7.02	89.2	503	
09/28/21	1.64	67.3	70.1	0.386 J	7.26	92.7	500	

**TABLE 3
APPENDIX III ANALYTICAL RESULTS
COLETO CREEK PRIMARY ASH POND**

Sample Location	Date Sampled	B	Ca	Cl	F	field pH	SO ₄	TDS
MW-9	03/30/17	3.38	54.5	71	1.13	7.35	62	406
	05/10/17	3.16	52.7	66	1.29	7.48	59	410
	05/17/17	3.18	53.3	67	1.26	7.34	58	440
	06/07/17	3.12	52	67	1.26	7.03	57	380
	06/21/17	3.44	60.7	66	1.39	7.09	60	393
	06/26/17	3.31	60.6	67	1.4	7.23	61	407
	07/11/17	3.35	52.1	64	1.3	7.51	60	927
	07/19/17	3.4	50.2	63	1.4	7.29	62	407
	11/08/17	2.84	49.4	62	1.56	7.54	50	397
	06/21/18	2.94	46.9	71.5	1.5	--	35.7	370
	09/18/18	2.79	51.7	71.4	1.1	6.99	49.1	394
	06/05/19	4.26	48	74.7	1.38	7.4	66.3	421
	10/03/19	3.97	71.3	70.9	1.41	7.37	63.6	462
	06/09/20	4.10	47.4	63.7	1.58	7.21	54.9	397
	10/06/20	3.78	50.1	49.6	1.73	7.47	51.7	366
06/25/21	0.882	83.6	77.6	0.907	7.10	100	508	
09/28/21	1.23	74.3	62.9	0.629	7.21	79.0	507	
MW-10	03/30/17	3.74	92.1	151	0.54	6.99	130	804
	05/10/17	7.32	56.1	82	0.83	7.23	96	582
	05/16/17	7.45	62.7	81	0.81	7.28	95	612
	06/08/17	7.54	58.1	77	0.84	7.23	92	604
	06/21/17	9.22	60.7	77	0.84	6.97	92	550
	06/26/17	8.21	63.4	78	0.84	7.14	92	530
	07/11/17	7.99	49.5	76	0.84	7.4	88	617
	07/19/17	8.74	56.6	74	0.86	7.25	86	533
	11/08/17	8.72	77.7	74	0.88	7.35	81	590
	06/22/18	8.47	84.4	76.7	0.88	--	--	550
	09/18/18	8.45	51.9	81.4	0.759	6.98	95.1	577
	06/03/19	8.28	43.1	87.2	0.953	7.52	97.7	587
	10/02/19	8.28	44.2	85.5	0.891	7.46	104	575
	06/09/20	7.58	46.9	76.9	0.818	7.13	96.5	575
	10/06/20	6.94	49.0	73.7	1.05	7.35	92.3	575
06/25/21	1.97	107	154	0.717	6.91	141	806	
09/28/21	7.48	32.9	54.2	0.96	7.49	76.8	507	
MW-11	05/10/17	1.35	64.1	55	0.82	7.27	61	394
	05/16/17	1.39	62.3	52	0.85	7.29	58	362
	05/18/17	1.27	61.6	47.8	0.94	--	52.4	390
	06/26/17	1.15	82	44	1	7.3	43	407
	07/11/17	1.23	44.7	44	1	7.55	42	603
	07/19/17	1.17	48.6	43	1.01	7.21	42	360
	11/08/17	1.13	52.2	43	1.02	7.61	56	367
	06/21/18	1.07	69.6	44.3	0.96	--	61.4	355
	09/18/18	1.12	39.3	44.6	0.754	7.00	44.4	354
	06/03/19	1.27	43.4	42.2	0.837	7.55	44.8	372
	10/02/19	1.22	43.4	41.4	0.768	7.43	10.8	355
	06/09/20	1.20	56.6	44.4	0.571	6.88	67.7	414
	10/06/20	1.05	66.8	58.6	0.767	7.05	85.9	453
	06/25/21	0.925	59.1	74.6	0.876	7.09	55.9	400
	6/25/21 DUP	0.98	59.3	74.8	0.865	7.09	56.2	397
09/28/21	0.869	56.6	71.7	0.742	7.29	68.4	415	
9/28/21 DUP	0.397	77.4	55.7	0.498	7.29	31.2	441	

Notes:

1. All concentrations in mg/L. pH in standard units.
2. J - concentration is below sample quantitation limit; result is an estimate.

**TABLE 4
APPENDIX IV ANALYTICAL RESULTS
COLETO CREEK PRIMARY ASH POND**

Sample Location	Date Sampled	Sb	As	Ba	Be	Cd	Cr	Co	F	Pb	Li	Hg	Mo	Se	Tl	Ra 226	Ra 228	Ra 226/228 Combined
Upgradient Wells																		
BV-5	03/29/17	<0.0025	0.00856	0.04510	<0.001	<0.001	<0.005	0.0497	0.540	<0.001	0.0206	<0.0002	0.00925	<0.005	<0.0015	--	--	1.503
	05/11/17	<0.0025	0.00786	0.03680	<0.001	<0.001	<0.005	0.0462	0.570	<0.001	0.018	<0.0002	0.0101	<0.005	<0.0015	--	--	1.555
	05/16/17	<0.0025	0.00885	0.04520	<0.001	<0.001	<0.005	0.0495	0.550	0.00151	0.0171	<0.0002	0.0102	<0.005	<0.0015	--	--	0.7550
	06/07/17	<0.0025	0.00829	0.03760	<0.001	<0.001	<0.005	0.0483	0.560	<0.001	0.0207	<0.0002	0.01	<0.005	<0.0015	--	--	1.457
	06/20/17	<0.0025	0.00841	0.04010	<0.001	<0.001	<0.005	0.0499	0.580	<0.001	0.0208	<0.0002	0.0114	<0.005	<0.0015	--	--	0.4920
	06/27/17	<0.0025	0.0083	0.04120	<0.001	<0.001	<0.005	0.046	0.550	<0.001	0.0198	<0.0002	0.00942	<0.005	<0.0015	--	--	2.247
	07/12/17	<0.0025	0.00849	0.04160	<0.001	<0.001	<0.005	0.0484	0.560	<0.001	0.0188	<0.0002	0.0096	<0.005	<0.0015	--	--	2.139
	07/18/17	<0.0025	0.00951	0.05780	<0.001	<0.001	0.00739	0.0453	0.560	0.00288	0.022	<0.0002	0.0083	<0.005	<0.0015	--	--	1.260
	06/19/18	<0.0025	0.0106	0.0336	<0.001	<0.001	0.0022 J	0.0513 J	0.970	<0.00074 J	0.016	<0.0002	0.0139	<0.005	<0.0015	0.327	<1.680	2.01
	09/18/18	NA	0.0095	0.0436	NA	NA	0.00228 J	0.0487	0.667	0.00039 J	0.0206	NA	0.0102	NA	NA	0.302	<0.608	0.91
	06/05/19	<0.0008	0.0092	0.042	<0.0003	0.00092 J	<0.002	0.0466	0.769	0.00144	0.0201	<0.00008	0.0109	<0.0020	<0.0005	<0.687	<1.130	<1.82
	10/03/19	<0.0008	0.0094	0.0441	<0.0003	<0.0003	0.0029 J	0.0437	0.753	0.0039	0.0172	<0.00008	0.0122	<0.0020	<0.0005	0.928	1.35	2.28
	06/09/20	<0.0008	0.0088	0.0462	<0.0003	<0.0003	0.00818	0.0486	0.498	0.00162	0.0201	<0.0000800	0.0120	<0.00200	<0.000500	0.363	<1.26	0.363
	10/06/20	<0.000800	0.0098	0.0387	<0.000300	<0.000300	0.00226	0.0449	1.01	<0.000300	0.0174	<0.0000800	0.0105	<0.00200	<0.000500	0.293	0.709	1
	6/2/2021	<0.000800	0.00882	0.053	<0.000300	<0.000300	0.00262 J	0.0437	0.699	0.000588 J	0.0239	<0.0000800	0.00768	<0.00200	<0.000500	0.325	<0.578	0.325
09/28/21	<0.000800	0.0087	0.0365	<0.000300	<0.000300	<0.00200	0.0433	0.687	0.000415 J	0.0194	<0.0000800	0.0102	<0.00200	<0.000500	0.239 J	2.06	2.29	
BV-21	03/28/17	<0.0025	0.0954	0.09630	<0.001	<0.001	<0.005	0.0083	0.610	<0.001	<0.010	<0.0002	<0.005	<0.005	<0.0015	--	--	1.390
	05/09/17	<0.0025	0.108	0.09720	<0.001	<0.001	<0.005	0.00852	0.610	<0.001	<0.010	<0.0002	<0.005	<0.005	<0.0015	--	--	0.7460
	05/17/17	<0.0025	0.117	0.09440	<0.001	<0.001	<0.005	0.00878	0.580	<0.001	<0.010	<0.0002	<0.005	<0.005	<0.0015	--	--	0.9190
	06/06/17	<0.0025	0.118	0.09540	<0.001	<0.001	<0.005	0.00806	0.590	<0.001	<0.010	<0.0002	<0.005	<0.005	<0.0015	--	--	0.6710
	06/20/17	<0.0025	0.121	0.1010	<0.001	<0.001	<0.005	0.00744	0.610	<0.001	<0.010	<0.0002	<0.005	<0.005	<0.0015	--	--	1.672
	06/27/17	<0.0025	0.128	0.1040	<0.001	<0.001	<0.005	0.00841	0.600	<0.001	<0.010	<0.0002	<0.005	<0.005	<0.0015	--	--	0.5200
	07/10/17	<0.0025	0.123	0.1100	<0.001	<0.001	<0.005	0.0086	0.580	<0.001	<0.010	<0.0002	<0.005	<0.005	<0.0015	--	--	0.8050
	07/18/17	<0.0025	0.115	0.1010	<0.001	<0.001	<0.005	0.00784	0.600	<0.001	<0.010	<0.0002	<0.005	<0.005	<0.0015	--	--	4.812
	06/25/18	<0.0025	0.0697	0.104	<0.001	<0.001	<0.005	0.00682	0.620	<0.00074 J	0.00513 J	<0.0002	0.00428 J	<0.005	<0.0015	0.267	<1.417	1.68
	09/18/18	NA	0.0625	0.109	NA	NA	<0.002	0.0064	0.479	0.000555 J	0.00624 J	NA	0.00450 J	NA	NA	<0.31	<0.528	<0.838
	06/05/19	<0.0008	0.0531	0.105	<0.0003	<0.0003	<0.002	0.00574	0.602	0.000354	0.0056 J	<0.00008	0.00685	<0.0020	<0.0005	0.65	<0.687	1.337
	10/03/19	<0.0008	0.049	0.0963	<0.0003	<0.0003	<0.002	0.00542	0.588	0.000333 J	<0.005	<0.00008	0.00784	<0.0020	<0.0005	0.346	1.54	1.89
	06/09/20	<0.0008	0.0793	0.132	<0.0003	<0.0003	0.007	0.00437 J	0.522	0.00033 J	<0.005	<0.00008	0.00698	<0.0020	<0.0005	0.211	1.15	1.36
	10/06/20	<0.000800	0.0815	0.157	<0.000300	<0.000300	<0.00200	0.00411 J	0.677	<0.000300	0.00532 J	<0.0000800	0.00523	<0.00200	<0.000500	0.37	<1.38	0.37
	6/2/2021	<0.000800	0.0663	0.176	<0.000300	<0.000300	<0.00200	0.00441 J	0.705	0.000336 J	0.00532 J	<0.0000800	0.00547	<0.00200	<0.000500	0.0424	0.392	0.434
09/28/21	<0.000800	0.0603	0.186	<0.000300	<0.000300	<0.00200	0.00387 J	0.496	<0.000300	0.00539 J	<0.0000800	0.00481 J	<0.00200	<0.000500	1.02	1.81	2.83	
MW-8	03/28/17	<0.0025	0.00839	0.0623	<0.001	<0.001	<0.005	0.0236	0.490	<0.001	0.0111	<0.0002	0.0154	<0.005	<0.0015	--	--	0.4520
	05/09/17	<0.0025	0.00848	0.064	<0.001	<0.001	<0.005	0.0272	0.440	<0.001	0.0111	<0.0002	0.0157	<0.005	<0.0015	--	--	0.4740
	05/15/17	<0.0025	0.00926	0.064	<0.001	<0.001	<0.005	0.0311	0.440	<0.001	0.0112	<0.0002	0.016	<0.005	<0.0015	--	--	0.6140
	06/06/17	<0.0025	0.00912	0.0616	<0.001	<0.001	0.00744	0.0308	0.450	<0.001	0.0107	<0.0002	0.0157	<0.005	<0.0015	--	--	0.1320
	06/20/17	<0.0025	0.00885	0.0669	<0.001	<0.001	<0.005	0.0297	0.430	<0.001	0.0121	<0.0002	0.0171	<0.005	<0.0015	--	--	0.5380
	06/27/17	<0.0025	0.00939	0.0633	<0.001	<0.001	<0.005	0.0314	0.440	<0.001	0.0115	<0.0002	0.0163	<0.005	<0.0015	--	--	0.9390
	07/10/17	<0.0025	0.00902	0.0631	<0.001	<0.001	<0.005	0.031	0.440	<0.001	0.0112	<0.0002	0.0165	<0.005	<0.0015	--	--	0.8040
	07/18/17	<0.0025	0.00937	0.0635	<0.001	<0.001	<0.005	0.0352	0.460	<0.001	0.0118	<0.0002	0.0185	<0.005	<0.0015	--	--	2.113
	06/25/18	<0.0025	0.0101	0.0632	<0.001	<0.001	<0.005	0.029	0.520	0.0011	0.0107	<0.0002	0.017	<0.005	<0.0015	<0.234	<1.204	<1.44
	09/18/18	NA	0.009	0.0582	NA	NA	<0.00200	0.0237	0.402	<0.0003	0.0117	NA	0.0178	NA	NA	<0.281	<0.558	<0.84
	06/05/19	<0.0008	0.0095	0.0596	<0.0003	<0.0003	<0.002	0.0217	0.497	0.000355 J	0.011	<0.00008	0.0156	<0.0020	<0.0005	0.528	<0.619	1.147
	10/03/19	<0.0008	0.0083	0.0607	<0.0003	<0.0003	<0.002	0.231	0.419	<0.0003	0.0106	<0.00008	0.0144	<0.0020	<0.0005	0.224	0.241	0.465
	06/09/20	<0.0008	0.0086	0.0599	<0.0003	<0.0003	<0.002	0.0174	0.392 J	0.000479 J	0.0104	<0.00008	0.0158	<0.002	<0.0005	0.304	2.64	2.94
	10/6/2020	<0.000800	0.0086	0.0647	<0.000300	<0.000300	<0.00200	0.0162	0.652	<0.000300	0.0107	<0.0000800	0.0148	<0.00200	<0.000500	1.08	1.65	2.73
	6/25/2021	<0.000800	0.0104	0.0806	<0.000300	<0.000300	<0.00200	0.013	0.673	0.000761 J	0.0105	<0.0000800	0.0118	<0.00200	<0.000500	0.148	0.639	0.787
09/28/21	<0.000800	0.0086	0.0690	<0.000300	<0.000300	<0.00200	0.0110	0.473	0.000697 J	0.0102	<0.0000800	0.0124	<0.00200	<0.000500	0.0886	1.23	1.32	

**TABLE 4
APPENDIX IV ANALYTICAL RESULTS
COLETO CREEK PRIMARY ASH POND**

Sample Location	Date Sampled	Sb	As	Ba	Be	Cd	Cr	Co	F	Pb	Li	Hg	Mo	Se	Tl	Ra 226	Ra 228	Ra 226/228 Combined
Downgradient Wells																		
MW-4	03/28/17	<0.0025	0.00738	0.0575	<0.001	<0.001	<0.005	0.007	0.610	<0.001	0.0192	<0.0002	<0.005	<0.005	<0.0015	--	--	0.4600
	05/09/17	<0.0025	0.00733	0.0576	<0.001	<0.001	<0.005	0.007	0.610	<0.001	0.0182	<0.0002	<0.005	<0.005	<0.0015	--	--	0.6940
	05/15/17	<0.0025	0.00794	0.0556	<0.001	<0.001	<0.005	0.007	0.600	<0.001	0.0166	<0.0002	<0.005	<0.005	<0.0015	--	--	1.451
	06/06/17	<0.0025	0.0077	0.0556	<0.001	<0.001	<0.005	0.007	0.630	<0.001	0.0179	<0.0002	<0.005	<0.005	<0.0015	--	--	0.1740
	06/20/17	<0.0025	0.0081	0.0596	<0.001	<0.001	0.00877	0.008	0.620	<0.001	0.0195	<0.0002	<0.005	<0.005	<0.0015	--	--	0.5430
	06/27/17	<0.0025	0.00786	0.0554	<0.001	<0.001	<0.005	0.007	0.630	<0.001	0.0185	<0.0002	<0.005	<0.005	<0.0015	--	--	0.6390
	07/10/17	<0.0025	0.00846	0.0582	<0.001	<0.001	<0.005	0.009	0.620	<0.001	0.0187	<0.0002	<0.005	<0.005	<0.0015	--	--	1.069
	07/18/17	<0.0025	0.00815	0.0549	<0.001	<0.001	<0.005	0.008	0.630	<0.001	0.0183	<0.0002	<0.005	<0.005	<0.0015	--	--	0.1910
	06/21/18	<0.0025	0.0084	0.0591	<0.001	<0.001	<0.005	0.00711	0.600	<0.00072 J	0.0175	<0.0002	<0.005	<0.005	<0.0015	0.370	1.705	2.08
	09/18/18	NA	0.0079	0.0577	NA	NA	<0.002	0.00673	0.582	<0.0003	0.019	NA	<0.002	NA	NA	1.610	<0.543	2.15
	06/05/19	<0.0008	0.0079	0.0571	<0.0003	<0.0003	<0.002	0.00729	0.670	<0.0003	0.0195	<0.00008	<0.002	<0.0020	<0.0005	0.436	<0.547	0.98
	10/03/19	<0.0008	0.0076	0.0532	<0.0003	<0.0003	<0.002	0.00699	0.559	0.00101	0.017	<0.00008	<0.002	<0.002	<0.0005	1.85	<0.739	1.85
	06/09/20	<0.0008	<0.002	0.0376	<0.0003	<0.0003	<0.002	<0.003	0.205 J	<0.0003	0.00751 J	<0.00008	<0.0021 J	<0.002	<0.0005	0.0553	0.264	0.319
	10/06/20	<0.000800	0.0075	0.0586	<0.0003	<0.000300	<0.00200	0.00862	0.736	0.000375 J	0.0186	<0.0000800	<0.00200	<0.00200	<0.000500	0.0684	<1.23	0.0684
	6/2/2021	<0.000800	0.00808	0.0582	<0.0003	<0.000300	<0.00200	0.00934	0.769	0.000418 J	0.0176	<0.0000800	<0.00200	<0.00200	<0.000500	0.298	0.726	1.02
09/28/21	<0.000800	0.0086	0.0543	<0.0003	<0.000300	<0.00200	0.0104	0.647	0.00139	0.0181	<0.0000800	<0.00200	<0.00200	<0.000500	0.151 J	1.91	2.06	
MW-5	03/30/17	<0.0025	0.00953	0.0748	<0.001	<0.001	<0.005	<0.005	0.510	<0.001	0.0192	<0.0002	<0.005	<0.005	<0.0015	--	--	1.443
	05/10/17	<0.0025	0.00955	0.0706	<0.001	<0.001	<0.005	<0.005	0.540	<0.001	0.0179	<0.0002	<0.005	<0.005	<0.0015	--	--	0.6150
	05/16/17	<0.0025	0.00967	0.0708	<0.001	<0.001	<0.005	<0.005	0.500	<0.001	0.0181	<0.0002	<0.005	<0.005	<0.0015	--	--	0.6410
	06/08/17	<0.0025	0.00908	0.0701	<0.001	<0.001	<0.005	<0.005	0.550	<0.001	0.0200	<0.0002	<0.005	<0.005	<0.0015	--	--	0.1790
	06/21/17	<0.0025	0.00917	0.0767	<0.001	<0.001	<0.005	<0.005	0.530	<0.001	0.0197	<0.0002	<0.005	<0.005	<0.0015	--	--	0.1060
	06/26/17	<0.0025	0.00955	0.0735	<0.001	<0.001	<0.005	<0.005	0.540	<0.001	0.0204	<0.0002	<0.005	<0.005	<0.0015	--	--	1.112
	07/11/17	<0.0025	0.00945	0.0712	<0.001	<0.001	<0.005	<0.005	0.520	<0.001	0.0183	<0.0002	<0.005	<0.005	<0.0015	--	--	0.5120
	07/19/17	<0.0025	0.00941	0.0735	<0.001	<0.001	<0.005	<0.005	0.530	<0.001	0.0186	<0.0002	<0.005	<0.005	<0.0015	--	--	0.1910
	06/25/18	<0.0025	0.01	0.0733	0.001	<0.001	<0.005	<0.005	0.560	<0.001	0.0182	<0.0002	<0.005	<0.005	<0.0015	<0.251	<1.369	<1.62
	09/18/18	NA	0.0095	0.0697	NA	NA	<0.002	<0.003	0.493	<0.0003	0.0195	NA	<0.002	NA	NA	<0.282	<0.606	<0.89
	06/03/19	<0.0008	0.0095	0.0678	0.0003	<0.0003	<0.002	<0.003	0.596	<0.0003	0.0206	<0.00008	<0.002	<0.002	<0.0005	<0.619	<0.917	<1.54
	10/02/19	<0.0008	0.0092	0.067	0.0003	<0.0003	<0.002	<0.003	0.543	<0.0003	0.0187	<0.00008	<0.002	<0.002	<0.0005	0.47	0.117	0.587
	06/09/20	<0.0008	0.0089	0.0689	<0.0003	<0.0003	<0.002	<0.003	0.370 J	<0.0003	0.0192	<0.00008	<0.002	<0.002	<0.0005	0.171	0.211	0.382
	10/06/20	<0.000800	0.0093	0.0708	<0.0003	<0.000300	<0.00200	<0.00300	0.662	<0.000300	0.0190	<0.0000800	<0.00200	<0.00200	<0.000500	0.0604	0.08	0.14
	6/25/2021	<0.000800	0.00918	0.0652	<0.0003	<0.000300	0.00913	<0.00300	0.661	<0.000300	0.0189	<0.0000800	<0.00200	<0.00200	<0.000500	0.0362	0.2	0.236
09/28/21	<0.000800	0.0089	0.0639	<0.0003	<0.000300	<0.00200	<0.00300	0.559	<0.000300	0.0194	<0.0000800	<0.00200	<0.00200	<0.000500	0.311	1.74	2.05	
MW-6	03/29/17	<0.0025	0.00827	0.0900	<0.001	<0.001	<0.005	<0.005	0.380	<0.001	<0.010	<0.0002	0.00749	<0.005	<0.0015	--	--	1.009
	05/11/17	<0.0025	0.00738	0.0758	<0.001	<0.001	<0.005	<0.005	0.370	<0.001	0.0101	<0.0002	0.0176	<0.005	<0.0015	--	--	0.8250
	05/16/17	<0.0025	0.00803	0.0784	<0.001	<0.001	<0.005	<0.005	0.360	<0.001	<0.010	<0.0002	0.0131	<0.005	<0.0015	--	--	0.7740
	06/07/17	<0.0025	0.00772	0.0798	<0.001	<0.001	<0.005	<0.005	0.370	<0.001	<0.010	<0.0002	0.00949	<0.005	<0.0015	--	--	0.6640
	06/22/17	<0.0025	0.00764	0.083	<0.001	<0.001	<0.005	<0.005	0.370	<0.001	0.0109	<0.0002	0.0084	<0.005	<0.0015	--	--	0.2150
	06/28/17	<0.0025	0.00779	0.0842	<0.001	<0.001	<0.005	<0.005	0.370	<0.001	<0.010	<0.0002	0.00806	<0.005	<0.0015	--	--	1.730
	07/12/17	<0.0025	0.0077	0.0819	<0.001	<0.001	<0.005	<0.005	0.350	<0.001	<0.010	<0.0002	0.0076	<0.005	<0.0015	--	--	1.012
	07/20/17	<0.0025	0.001	0.0010	<0.001	<0.001	<0.005	<0.005	0.390	<0.001	<0.010	<0.0002	0.001	<0.005	<0.0015	--	--	0.3660
	06/22/18	<0.0025	0.0086	0.0912	<0.001	<0.001	<0.005	<0.005	0.410	<0.001	0.00924 J	<0.0002	0.00837	<0.005	<0.0015	<0.309	<1.243	<1.55
	09/18/18	NA	0.008	0.0828	NA	NA	<0.002	<0.003	0.353 J	0.000349 J	0.0107	NA	0.0274	NA	NA	<0.196	1.06	1.256
	06/03/19	<0.0008	0.008	0.0894	<0.0003	<0.0003	<0.002	<0.003	0.438	<0.0003	0.0097 J	<0.00008	0.00884	<0.0020	<0.0005	<0.407	<0.62	<1.03
	10/02/19	<0.0008	0.0078	0.0876	<0.0003	<0.0003	<0.002	<0.003	0.357 J	<0.0003	0.0088 J	<0.00008	0.00875	<0.0020	<0.0005	0.715	1.23	1.94
	06/09/20	<0.0008	0.008	0.078	<0.0003	<0.0003	<0.002	<0.003	0.4	<0.0003	0.0113	<0.00008	0.0357	<0.002	<0.0005	0.0064	0.127	0.134
	10/06/20	<0.000800	0.0077	0.0912	<0.0003	<0.000300	<0.00200	0.00319 J	0.512	<0.000300	0.00900 J	<0.0000800	0.00924	<0.00200	<0.000500	1.02	0.621	1.64
	06/25/21	<0.000800	0.00778	0.086	<0.0003	<0.000300	<0.00200	<0.00300	0.542	<0.000300	0.0101	<0.0000800	0.00823	<0.00200	<0.000500	0.206	1.03	1.24
09/28/21	<0.000800	0.0079	0.0896	<0.0003	<0.000300	<0.00200	<0.00300	0.386 J	<0.000300	0.00911 J	<0.0000800	0.00801	<0.00200	<0.000500	0.334	1.6	1.94	

**TABLE 4
APPENDIX IV ANALYTICAL RESULTS
COLETO CREEK PRIMARY ASH POND**

Sample Location	Date Sampled	Sb	As	Ba	Be	Cd	Cr	Co	F	Pb	Li	Hg	Mo	Se	Tl	Ra 226	Ra 228	Ra 226/228 Combined
MW-9	03/30/17	<0.0025	0.00909	0.121	<0.001	<0.001	<0.005	<0.005	1.130	0.00217	<0.010	<0.0002	0.0747	<0.005	<0.0015	--	--	1.353
	05/10/17	<0.0025	0.00996	0.105	<0.001	<0.001	<0.005	<0.005	1.290	0.00433	<0.010	<0.0002	0.0900	<0.005	<0.0015	--	--	0.4800
	05/17/17	<0.0025	0.00958	0.101	<0.001	<0.001	<0.005	<0.005	1.260	0.00377	<0.010	<0.0002	0.0899	<0.005	<0.0015	--	--	0.3600
	06/07/17	<0.0025	0.0093	0.100	<0.001	<0.001	<0.005	<0.005	1.260	<0.001000	<0.010	<0.0002	0.0926	<0.005	<0.0015	--	--	0.4760
	06/21/17	<0.0025	0.00937	0.119	<0.001	<0.001	<0.005	<0.005	1.390	<0.00136	<0.010	<0.0002	0.1020	<0.005	<0.0015	--	--	1.579
	06/26/17	<0.0025	0.0107	0.114	<0.001	<0.001	0.0102	<0.005	1.400	0.00217	<0.010	<0.0002	0.1060	<0.005	<0.0015	--	--	1.023
	07/11/17	<0.0025	0.0105	0.103	<0.001	<0.001	0.00566	<0.005	1.300	0.00124	<0.010	<0.0002	0.1050	<0.005	<0.0015	--	--	0.8630
	07/19/17	<0.0025	0.0103	0.101	<0.001	<0.001	<0.005	<0.005	1.400	<0.001000	<0.010	<0.0002	0.1130	<0.005	<0.0015	--	--	0.5840
	06/21/18	<0.0025	0.0104	0.100	<0.001	<0.001	<0.005	<0.005	1.500	<0.00072 J	<0.01	<0.0002	0.0617	<0.005	<0.0015	0.608	<1.303	1.91
	09/18/18	NA	0.0103	0.0985	NA	NA	<0.002	<0.003	1.100	<0.000300	0.00639 J	NA	0.0502	NA	NA	0.618	<0.638	1.26
	06/05/19	<0.0008	0.0109	0.102	<0.0003	<0.0003	<0.002	<0.003	1.380	<0.0003	0.0055 J	<0.00008	0.0683	<0.002	<0.0005	<0.402	<0.683	<1.085
	10/03/19	<0.0008	0.0109	0.128	0.00069 J	<0.0003	<0.002	0.00337 J	1.410	0.00876	0.0064 J	<0.00008	0.0507	0.0041 J	<0.0005	0.577	0.747	1.32
	06/09/20	<0.0008	0.0126	0.0865	<0.0003	<0.0003	<0.002	<0.003	1.58	0.000577 J	<0.005	<0.00008	0.0774	<0.002	<0.0005	0.132	<0.96	0.132
	10/06/20	<0.000800	0.0225	0.0786	<0.0003	<0.000300	<0.00200	<0.00300	1.73	<0.000300	<0.00500	<0.000800	0.0616	<0.00200	<0.000500	0.14	1.51	1.65
	06/25/21	<0.000800	0.0151	0.163	<0.0003	<0.000300	<0.00200	<0.00300	0.907	0.000408 J	0.0103	<0.000800	0.0199	<0.00200	<0.000500	0.38	0.665	1.04
	09/28/21	<0.000800	0.0197	0.163	<0.0003	<0.000300	<0.00200	<0.00300	0.629	<0.000300	0.00865 J	<0.000800	0.0158	<0.00200	<0.000500	0.278	1.75	2.03
MW-10	03/30/17	<0.0025	0.0110	0.0844	<0.001	<0.001	<0.005	<0.005	0.540	<0.001	0.0179	<0.0002	0.0342	<0.005	<0.0015	--	--	1.439
	05/10/17	<0.0025	0.0146	0.0554	<0.001	<0.001	0.00533	<0.005	0.830	<0.001	0.0122	<0.0002	0.102	<0.005	<0.0015	--	--	0.8880
	05/16/17	<0.0025	0.0150	0.0598	<0.001	<0.001	<0.005	<0.005	0.810	<0.001	0.0123	<0.0002	0.0987	<0.005	<0.0015	--	--	0.1830
	06/08/17	<0.0025	0.0144	0.0544	<0.001	<0.001	<0.005	<0.005	0.840	<0.001	0.0115	<0.0002	0.106	<0.005	<0.0015	--	--	0.06700
	06/21/17	<0.0025	0.0149	0.054	<0.001	<0.001	<0.005	<0.005	0.840	<0.001	0.0133	<0.0002	0.113	<0.005	<0.0015	--	--	0.7090
	06/26/17	<0.0025	0.0160	0.0587	<0.001	<0.001	0.0177	<0.005	0.840	<0.001	0.0137	<0.0002	0.116	<0.005	<0.0015	--	--	0.7180
	07/11/17	<0.0025	0.0149	0.0508	<0.001	<0.001	<0.005	<0.005	0.840	<0.001	0.0119	<0.0002	0.114	<0.005	<0.0015	--	--	1.713
	07/19/17	<0.0025	0.0146	0.0633	<0.001	<0.001	0.00963	<0.005	0.860	<0.001	0.0127	<0.0002	0.121	<0.005	<0.0015	--	--	2.132
	06/22/18	<0.0025	0.0154	0.0692	<0.001	<0.001	<0.005	<0.005	0.88	<0.00095 J	0.0122	<0.0002	0.134	<0.005	<0.0015	<0.212	<1.192	<1.40
	09/18/18	NA	0.0140	0.0446	NA	NA	<0.002	<0.003	0.759	<0.0003	0.0141	NA	0.125	NA	NA	0.151	<0.848	0.999
	06/03/19	<0.0008	0.0142	0.0420	<0.0003	<0.0003	<0.002	<0.003	0.953	<0.0003	0.0139	<0.00008	0.109	<0.002	<0.0005	<0.203	0.814	1.017
	10/02/19	<0.0008	0.0139	0.0406	<0.0003	<0.0003	<0.002	<0.003	0.891	<0.0003	0.0127	<0.00008	0.106	<0.002	<0.0005	<0.325	0.901	0.901
	06/09/20	<0.0008	0.014	0.0444	<0.0003	<0.0003	<0.002	0.00334 J	0.818	<0.0003	0.013	<0.00008	0.088	<0.002	<0.0005	0.0959	1.22	1.31
	10/06/20	<0.000800	0.0139	0.0411	<0.0003	<0.000300	<0.00200	0.00390 J	1.05	<0.000300	0.0127	<0.000800	0.0865	<0.00200	<0.000500	0.0332	1.68	1.71
	6/25/2021	<0.000800	0.00942	0.0792	<0.0003	<0.000300	<0.00200	<0.00300	0.717	<0.000300	0.018	<0.000800	0.0181	<0.00200	<0.000500	0.179	1.13	1.3
	09/28/21	<0.000800	0.0143	0.0477	<0.0003	<0.000300	<0.00200	0.00607	0.96	<0.000300	0.0109	<0.000800	0.108	<0.00200	<0.000500	0.182	0.472	0.654
MW-11	05/10/17	<0.0025	0.0156	0.0899	<0.001	<0.001	<0.005	<0.005	0.82	0.00239	0.0125	<0.0002	0.0082	<0.005	<0.0015	--	--	0.4560
	05/16/17	<0.0025	0.018	0.0869	<0.001	<0.001	0.00731	<0.005	0.85	0.0113	0.0144	<0.0002	0.00841	<0.005	<0.0015	--	--	1.418
	05/18/17	<0.0025	0.0188	0.0779	<0.001	<0.001	<0.005	<0.005	0.94	0.00204	0.0122	<0.0002	0.00781	<0.005	<0.0015	--	--	0.6390
	06/07/17	<0.0025	0.0175	0.0835	<0.001	<0.001	<0.005	<0.005	0.93	0.00171	0.0137	<0.0002	0.00744	<0.005	<0.0015	--	--	0.5020
	06/21/17	<0.0025	0.0203	0.0822	<0.001	<0.001	<0.005	<0.005	1.04	0.00322	0.0136	<0.0002	0.00659	<0.005	<0.0015	--	--	1.084
	06/26/17	<0.0025	0.0237	0.0954	<0.001	<0.001	0.0131	<0.005	1.00	0.00593	0.0176	<0.0002	0.00796	<0.005	<0.0015	--	--	3.067
	07/11/17	<0.0025	0.0212	0.0725	<0.001	<0.001	<0.005	<0.005	1.00	<0.001	0.012	<0.0002	0.00765	<0.005	<0.0015	--	--	0.7530
	07/19/17	<0.0025	0.0224	0.0709	<0.001	<0.001	0.00762	<0.005	1.01	0.0018	0.0137	<0.0002	0.00783	<0.005	<0.0015	--	--	1.551
	06/21/18	<0.0025	0.0367	0.0805	<0.001	<0.001	<0.005	<0.005	0.96	0.00241	0.0135	<0.0002	0.00465	<0.005	<0.0015	<0.234	<1.312	<1.55
	09/18/18	NA	0.0382	0.0645	NA	NA	<0.002	<0.003	0.754	<0.0003	0.0139	NA	0.00445 J	NA	NA	<0.188	0.597	0.785
	06/03/19	<0.0008	0.0379	0.0834	<0.0003	<0.0003	<0.002	<0.003	0.837	<0.0003	0.0154	<0.00008	0.00316 J	<0.002	<0.0005	<0.481	0.991	1.472
	10/02/19	<0.0008	0.0379	0.0744	<0.0003	<0.0003	<0.002	<0.003	0.788	0.000391 J	0.014	<0.00008	0.00259 J	<0.002	<0.0005	1.57	0.478	2.040
	06/09/20	<0.0008	0.0293	0.0948	<0.0003	<0.0003	<0.002	<0.003	0.571	0.000675 J	0.0156	<0.00008	0.00215 J	<0.002	<0.0005	0.163	1.31	1.480
	10/06/20	<0.000800	0.0159	0.105	<0.0003	<0.000300	<0.00200	<0.00300	0.767	0.000320 J	0.0165	<0.000800	0.00340 J	<0.00200	<0.000500	0.354	0.53	0.884
	6/25/2021	<0.000800	0.0136	0.09	<0.0003	<0.000300	<0.00200	<0.00300	0.876	<0.000300	0.0162	<0.000800	0.019	<0.00200	<0.000500	0.237	0.824	1.060
	6/25/21 DUP	<0.000800	0.0134	0.0905	<0.0003	<0.000300	<0.00200	<0.00300	0.865	<0.000300	0.148	<0.000800	0.0194	<0.00200	<0.000500	0.173 J	1.64	1.81
09/28/21	<0.000800	0.0137	0.101	<0.0003	<0.000300	<0.00200	<0.00300	0.742	0.000475 J	0.0161	<0.000800	0.0189	<0.00200	<0.000500	0.0336	2.74	2.77	
9/28/21 DUP	<0.000800	0.0586	0.181	<0.0003	<0.000300	<0.00200	0.00362 J	0.498	<0.0003	0.00656	<0.000800	0.00467	<0.00200	<0.000500	0.426	1.28	1.71	

Notes:

1. All concentrations in mg/L. Ra 226/228 Combined in pCi/L.
2. J - concentration is below sample quantitation limit; result is an estimate.
3. NA = Not analyzed.

ATTACHMENT 1
LABORATORY ANALYTICAL REPORTS



July 09, 2021

Will Vienne
Golder
2201 Double Creek Dr #4004
Round Rock, Texas 78664
TEL: (512) 671-3434
FAX (512) 671-3446
RE: 1H21 Coletto Creek GW

Order No.: 2106017

Dear Will Vienne:

DHL Analytical, Inc. received 3 sample(s) on 6/3/2021 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAP except where noted in the Case Narrative. All non-NELAP methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in red ink, appearing to read 'John DuPont', written in a cursive style.

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-21-27



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Eric Lau

From: John DuPont
Sent: Tuesday, May 28, 2019 11:35 AM
To: Eric Lau
Subject: FW: CCR Analysis

Appendix III Parameters:

Metals (Ca and B)
Anions (Cl, F, and SO4)
TDS

Appendix IV Parameters:

Metals (As, Ba, Be, Cd, Co, Cr, Hg, Li, Mo, Pb, Sb, Se, and Tl)
Ra-226
Ra-228

From: Vienne, Will [mailto:William_Vienne@golder.com]
Sent: Tuesday, April 09, 2019 12:48 PM
To: John DuPont <dupont@dhlanalytical.com>
Subject: CCR Analysis

ORIGIN ID: VCTA (361) 573-6442
GREG LOGAN JR.
GOLDER ASSOCIATES INC.
620 E. AIRLINE

SHIP DATE: 02 JUN 21
ACT/WGT: 25.00 LB
CAD: 2806631/NET 4340
DIMS: 24x13x14 IN

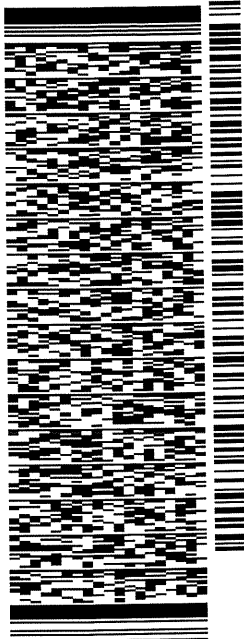
VICTORIA, TX 77901
UNITED STATES US

BILL SENDER

TO **SAMPLE RECEIVING**
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664

(512) 388-8222 REF: 19122262 B2021
INV: DEPT:



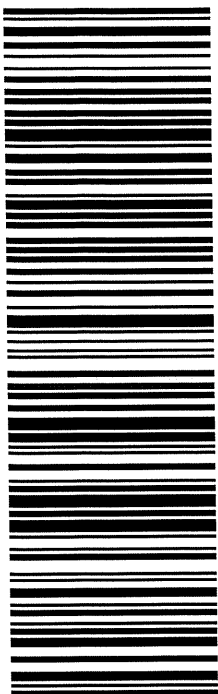
J211321033101uv

TRK# 7738 9098 7825
0201

THU - 03 JUN 10:30A
PRIORITY OVERNIGHT

44 BSMA

TX-US
78664
AUS



56DJ3/B387/FE4A

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number. Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

CUSTODY SEAL

DATE

6-2-21

SIGNATURE

GML



Sample Receipt Checklist

Client Name **Golder**

Date Received: **6/3/2021**

Work Order Number **2106017**

Received by: **EL**

Checklist completed by: _____ 6/3/2021

[Handwritten Signature]
Signature

Date

Reviewed by _____ 6/3/2021

[Handwritten Initials]
Initials

Date

Carrier name: FedEx 1day

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No **2.5 °C**
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH<2 acceptable upon receipt? Yes No NA LOT # 13171
- Adjusted? NO Checked by RIA
- Water - pH>9 (S) or pH>10 (CN) acceptable upon receipt? Yes No NA LOT #
- Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

Laboratory Name: DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: 1H21 Coleta Creek GW		LRC Date: 7/9/21					
Reviewer Name: Carlos Castro		Laboratory Work Order: 2106017					
Prep Batch Number(s): See Prep Dates Report		Run Batch: See Analytical Dates Report					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and Quality Control (QC) Identification					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test Reports					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?			X		
		9) If required for the project, TICs reported?			X		
R4	O	Surrogate Recovery Data					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	Test Reports/Summary Forms for Blank Samples					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MDL?	X				
		5) For analyte(s) detected in a blank sample, was the concentration, unadjusted for sample specific factors, in all associated field samples, greater than 10 times the concentration in the blank sample?			X		
R6	OI	Laboratory Control Samples (LCS):					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	Analytical Duplicate Data					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	Method Quantitation Limits (MQLs):					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other Problems/Anomalies					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Name: DHL Analytical, Inc.							
Laboratory Review Checklist (continued): Supporting Data							
Project Name: 1H21 Coletto Creek GW				LRC Date: 7/9/21			
Reviewer Name: Carlos Castro				Laboratory Work Order: 2106017			
Prep Batch Number(s): See Prep Dates Report				Run Batch: See Analytical Dates Report			
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial Calibration (ICAL)					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	Mass Spectral Tuning:					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal Standards (IS):					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw Data (NELAC Section 5.5.10)					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual Column Confirmation					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively Identified Compounds (TICs):					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) Results:					
		1) Were percent recoveries within method QC limits?	X				
S9	I	Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			S9-01
S10	OI	Method Detection Limit (MDL) Studies					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency Test Reports:					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards Documentation					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/Analyte Identification Procedures					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of Analyst Competency (DOC)					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/Validation Documentation for Methods (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory Standard Operating Procedures (SOPs):					
		1) Are laboratory SOPs current and on file for each method performed?	X				

- 1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
- 3 NA = Not applicable.
- 4 NR = Not Reviewed.
- 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5,
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) The amount of analyte measured in the duplicate,
 - b) The calculated RPD, and
 - c) The laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory is not accredited under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on February 23-26, 2021. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Name: John DuPont
Official Title: General Manager


Signature

07/09/21
Date

Name: Dr. Derhsing Luu
Official Title: Technical Director

CLIENT: Golder
Project: 1H21 Coleta Creek GW
Lab Order: 2106017

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020B - Metals Analysis

Method SW7470A - Mercury Analysis

Method E300 - Anions Analysis

Method M2540C - TDS Analysis

Sub-contract - Radium-228 and Radium-226 analyses by methods E904 and SM 7500 Ra B M.

Analyzed at Pace Analytical.

Exception Report R1-01

The samples were received and log-in performed on 6/3/21. A total of 3 samples were received. The samples arrived in good condition and were properly packaged.

Exception Report R7-03

For Metals analysis performed on 6/7/21 the matrix spike and matrix spike duplicate recoveries were below control limits for Calcium. These are flagged accordingly in the QC summary report. The sample selected for the matrix spike and matrix spike duplicate was not from this work order. The LCS was within control limits for this analyte. No further corrective actions were taken.

For Anions analysis performed on 6/3/21 the matrix spike and matrix spike duplicate recoveries were below control limits for Sulfate. These are flagged accordingly. The sample selected for the matrix spike and matrix spike duplicate was not from this work order. The LCS was within control limits for this analyte. No further corrective actions were taken.

Exception Report S9-01

For Metals analysis performed on 6/7/21 the PDS recovery was out of control limits for Calcium. This is flagged accordingly in the QC summary report. The serial dilution was within control limits for this analyte. No further corrective actions were taken.

CLIENT: Golder
Project: 1H21 Coleta Creek GW
Lab Order: 2106017

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
2106017-01	BV-5		06/02/21 09:13 AM	6/3/2021
2106017-02	MW-4		06/02/21 10:30 AM	6/3/2021
2106017-03	BV-21		06/02/21 11:25 AM	6/3/2021

Lab Order: 2106017
 Client: Golder
 Project: 1H21 Coletto Creek GW

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
2106017-01A	BV-5	06/02/21 09:13 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/04/21 08:33 AM	100822
	BV-5	06/02/21 09:13 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/04/21 08:33 AM	100822
	BV-5	06/02/21 09:13 AM	Aqueous	SW7470A	Mercury Aq Prep	06/08/21 02:43 PM	100857
2106017-01B	BV-5	06/02/21 09:13 AM	Aqueous	E300	Anion Preparation	06/03/21 09:00 AM	100816
	BV-5	06/02/21 09:13 AM	Aqueous	E300	Anion Preparation	06/03/21 09:00 AM	100816
	BV-5	06/02/21 09:13 AM	Aqueous	M2540C	TDS Preparation	06/04/21 01:46 PM	100830
2106017-02A	MW-4	06/02/21 10:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/04/21 08:33 AM	100822
	MW-4	06/02/21 10:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/04/21 08:33 AM	100822
	MW-4	06/02/21 10:30 AM	Aqueous	SW7470A	Mercury Aq Prep	06/08/21 02:43 PM	100857
2106017-02B	MW-4	06/02/21 10:30 AM	Aqueous	E300	Anion Preparation	06/03/21 09:00 AM	100816
	MW-4	06/02/21 10:30 AM	Aqueous	E300	Anion Preparation	06/03/21 09:00 AM	100816
	MW-4	06/02/21 10:30 AM	Aqueous	M2540C	TDS Preparation	06/04/21 01:46 PM	100830
2106017-03A	BV-21	06/02/21 11:25 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/04/21 08:33 AM	100822
	BV-21	06/02/21 11:25 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/04/21 08:33 AM	100822
	BV-21	06/02/21 11:25 AM	Aqueous	SW7470A	Mercury Aq Prep	06/08/21 02:43 PM	100857
2106017-03B	BV-21	06/02/21 11:25 AM	Aqueous	E300	Anion Preparation	06/03/21 09:00 AM	100816
	BV-21	06/02/21 11:25 AM	Aqueous	M2540C	TDS Preparation	06/04/21 01:46 PM	100830

Lab Order: 2106017
 Client: Golder
 Project: 1H21 Coletto Creek GW

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
2106017-01A	BV-5	Aqueous	SW7470A	Mercury Total: Aqueous	100857	1	06/09/21 03:20 PM	CETAC2_HG_210609 B
	BV-5	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	100822	10	06/07/21 02:36 PM	ICP-MS4_210607B
	BV-5	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	100822	1	06/07/21 12:31 PM	ICP-MS5_210607B
2106017-01B	BV-5	Aqueous	E300	Anions by IC method - Water	100816	10	06/03/21 03:43 PM	IC2_210603A
	BV-5	Aqueous	E300	Anions by IC method - Water	100816	1	06/03/21 04:31 PM	IC2_210603A
	BV-5	Aqueous	M2540C	Total Dissolved Solids	100830	1	06/04/21 05:00 PM	WC_210604A
2106017-02A	MW-4	Aqueous	SW7470A	Mercury Total: Aqueous	100857	1	06/09/21 03:22 PM	CETAC2_HG_210609 B
	MW-4	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	100822	1	06/07/21 12:34 PM	ICP-MS5_210607B
	MW-4	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	100822	5	06/07/21 02:38 PM	ICP-MS4_210607B
2106017-02B	MW-4	Aqueous	E300	Anions by IC method - Water	100816	1	06/03/21 04:47 PM	IC2_210603A
	MW-4	Aqueous	E300	Anions by IC method - Water	100816	10	06/03/21 03:59 PM	IC2_210603A
	MW-4	Aqueous	M2540C	Total Dissolved Solids	100830	1	06/04/21 05:00 PM	WC_210604A
2106017-03A	BV-21	Aqueous	SW7470A	Mercury Total: Aqueous	100857	1	06/09/21 03:24 PM	CETAC2_HG_210609 B
	BV-21	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	100822	5	06/07/21 02:40 PM	ICP-MS4_210607B
	BV-21	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	100822	1	06/07/21 12:36 PM	ICP-MS5_210607B
2106017-03B	BV-21	Aqueous	E300	Anions by IC method - Water	100816	1	06/03/21 05:03 PM	IC2_210603A
	BV-21	Aqueous	M2540C	Total Dissolved Solids	100830	1	06/04/21 05:00 PM	WC_210604A

DHL Analytical, Inc.

Date: 09-Jul-21

CLIENT: Golder
Project: 1H21 Coleta Creek GW
Project No: 19122262-82021
Lab Order: 2106017

Client Sample ID: BV-5
Lab ID: 2106017-01
Collection Date: 06/02/21 09:13 AM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		SW6020B			Analyst: SP		
Antimony	<0.000800	0.000800	0.00250		mg/L	1	06/07/21 12:31 PM
Arsenic	0.00882	0.00200	0.00500		mg/L	1	06/07/21 12:31 PM
Barium	0.0530	0.00300	0.0100		mg/L	1	06/07/21 12:31 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	06/07/21 12:31 PM
Boron	1.35	0.100	0.300		mg/L	10	06/07/21 02:36 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	06/07/21 12:31 PM
Calcium	108	1.00	3.00		mg/L	10	06/07/21 02:36 PM
Chromium	0.00262	0.00200	0.00500	J	mg/L	1	06/07/21 12:31 PM
Cobalt	0.0437	0.00300	0.00500		mg/L	1	06/07/21 12:31 PM
Lead	0.000588	0.000300	0.00100	J	mg/L	1	06/07/21 12:31 PM
Lithium	0.0239	0.00500	0.0100		mg/L	1	06/07/21 12:31 PM
Molybdenum	0.00768	0.00200	0.00500		mg/L	1	06/07/21 12:31 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	06/07/21 12:31 PM
Thallium	<0.000500	0.000500	0.00150		mg/L	1	06/07/21 12:31 PM
MERCURY TOTAL: AQUEOUS		SW7470A			Analyst: JVR		
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	06/09/21 03:20 PM
ANIONS BY IC METHOD - WATER		E300			Analyst: SNM		
Chloride	201	3.00	10.0		mg/L	10	06/03/21 03:43 PM
Fluoride	0.699	0.100	0.400		mg/L	1	06/03/21 04:31 PM
Sulfate	190	10.0	30.0		mg/L	10	06/03/21 03:43 PM
TOTAL DISSOLVED SOLIDS		M2540C			Analyst: JS		
Total Dissolved Solids (Residue, Filterable)	1110	50.0	50.0		mg/L	1	06/04/21 05:00 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 09-Jul-21

CLIENT: Golder
Project: 1H21 Coleta Creek GW
Project No: 19122262-82021
Lab Order: 2106017

Client Sample ID: MW-4
Lab ID: 2106017-02
Collection Date: 06/02/21 10:30 AM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		SW6020B			Analyst: SP		
Antimony	<0.000800	0.000800	0.00250		mg/L	1	06/07/21 12:34 PM
Arsenic	0.00808	0.00200	0.00500		mg/L	1	06/07/21 12:34 PM
Barium	0.0582	0.00300	0.0100		mg/L	1	06/07/21 12:34 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	06/07/21 12:34 PM
Boron	0.330	0.0500	0.150		mg/L	5	06/07/21 02:38 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	06/07/21 12:34 PM
Calcium	94.1	0.500	1.50		mg/L	5	06/07/21 02:38 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	06/07/21 12:34 PM
Cobalt	0.00934	0.00300	0.00500		mg/L	1	06/07/21 12:34 PM
Lead	0.000418	0.000300	0.00100	J	mg/L	1	06/07/21 12:34 PM
Lithium	0.0176	0.00500	0.0100		mg/L	1	06/07/21 12:34 PM
Molybdenum	<0.00200	0.00200	0.00500		mg/L	1	06/07/21 12:34 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	06/07/21 12:34 PM
Thallium	<0.000500	0.000500	0.00150		mg/L	1	06/07/21 12:34 PM
MERCURY TOTAL: AQUEOUS		SW7470A			Analyst: JVR		
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	06/09/21 03:22 PM
ANIONS BY IC METHOD - WATER		E300			Analyst: SNM		
Chloride	98.3	3.00	10.0		mg/L	10	06/03/21 03:59 PM
Fluoride	0.769	0.100	0.400		mg/L	1	06/03/21 04:47 PM
Sulfate	153	10.0	30.0		mg/L	10	06/03/21 03:59 PM
TOTAL DISSOLVED SOLIDS		M2540C			Analyst: JS		
Total Dissolved Solids (Residue, Filterable)	727	10.0	10.0		mg/L	1	06/04/21 05:00 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 09-Jul-21

CLIENT: Golder
Project: 1H21 Coleta Creek GW
Project No: 19122262-82021
Lab Order: 2106017

Client Sample ID: BV-21
Lab ID: 2106017-03
Collection Date: 06/02/21 11:25 AM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		SW6020B			Analyst: SP		
Antimony	<0.000800	0.000800	0.00250		mg/L	1	06/07/21 12:36 PM
Arsenic	0.0663	0.00200	0.00500		mg/L	1	06/07/21 12:36 PM
Barium	0.176	0.00300	0.0100		mg/L	1	06/07/21 12:36 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	06/07/21 12:36 PM
Boron	0.399	0.0500	0.150		mg/L	5	06/07/21 02:40 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	06/07/21 12:36 PM
Calcium	79.8	0.500	1.50		mg/L	5	06/07/21 02:40 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	06/07/21 12:36 PM
Cobalt	0.00441	0.00300	0.00500	J	mg/L	1	06/07/21 12:36 PM
Lead	0.000336	0.000300	0.00100	J	mg/L	1	06/07/21 12:36 PM
Lithium	0.00532	0.00500	0.0100	J	mg/L	1	06/07/21 12:36 PM
Molybdenum	0.00547	0.00200	0.00500		mg/L	1	06/07/21 12:36 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	06/07/21 12:36 PM
Thallium	<0.000500	0.000500	0.00150		mg/L	1	06/07/21 12:36 PM
MERCURY TOTAL: AQUEOUS		SW7470A			Analyst: JVR		
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	06/09/21 03:24 PM
ANIONS BY IC METHOD - WATER		E300			Analyst: SNM		
Chloride	49.5	0.300	1.00		mg/L	1	06/03/21 05:03 PM
Fluoride	0.705	0.100	0.400		mg/L	1	06/03/21 05:03 PM
Sulfate	32.9	1.00	3.00		mg/L	1	06/03/21 05:03 PM
TOTAL DISSOLVED SOLIDS		M2540C			Analyst: JS		
Total Dissolved Solids (Residue, Filterable)	404	10.0	10.0		mg/L	1	06/04/21 05:00 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

CLIENT: Golder
Work Order: 2106017
Project: 1H21 Coleta Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_210511A

Sample ID: DCS-100518	Batch ID: 100518	TestNo: SW7470A	Units: mg/L							
SampType: DCS	Run ID: CETAC2_HG_210511A	Analysis Date: 5/11/2021 1:32:27 PM	Prep Date: 5/10/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.000165	0.000200	0.000200	0	82.5	82	119	0	0	

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2106017
Project: 1H21 Coletto Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_210609B

The QC data in batch 100857 applies to the following samples: 2106017-01A, 2106017-02A, 2106017-03A

Sample ID: MB-100857	Batch ID: 100857	TestNo: SW7470A	Units: mg/L							
SampType: MBLK	Run ID: CETAC2_HG_210609B	Analysis Date: 6/9/2021 3:09:04 PM	Prep Date: 6/8/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Mercury <0.0000800 0.000200

Sample ID: LCS-100857	Batch ID: 100857	TestNo: SW7470A	Units: mg/L							
SampType: LCS	Run ID: CETAC2_HG_210609B	Analysis Date: 6/9/2021 3:13:36 PM	Prep Date: 6/8/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Mercury 0.00207 0.000200 0.00200 0 104 85 115

Sample ID: LCSD-100857	Batch ID: 100857	TestNo: SW7470A	Units: mg/L							
SampType: LCSD	Run ID: CETAC2_HG_210609B	Analysis Date: 6/9/2021 3:15:52 PM	Prep Date: 6/8/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Mercury 0.00205 0.000200 0.00200 0 103 85 115 0.971 15

Sample ID: 2106029-02C MS	Batch ID: 100857	TestNo: SW7470A	Units: mg/L							
SampType: MS	Run ID: CETAC2_HG_210609B	Analysis Date: 6/9/2021 3:31:44 PM	Prep Date: 6/8/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Mercury 0.0103 0.00100 0.0100 0 103 80 120

Sample ID: 2106029-02C MSD	Batch ID: 100857	TestNo: SW7470A	Units: mg/L							
SampType: MSD	Run ID: CETAC2_HG_210609B	Analysis Date: 6/9/2021 3:33:59 PM	Prep Date: 6/8/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Mercury 0.0103 0.00100 0.0100 0 103 80 120 0 15

Sample ID: 2106029-02C SD	Batch ID: 100857	TestNo: SW7470A	Units: mg/L							
SampType: SD	Run ID: CETAC2_HG_210609B	Analysis Date: 6/9/2021 3:36:15 PM	Prep Date: 6/8/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Mercury <0.00200 0.00500 0 0 0 0 10

Sample ID: 2106029-02C PDS	Batch ID: 100857	TestNo: SW7470A	Units: mg/L							
SampType: PDS	Run ID: CETAC2_HG_210609B	Analysis Date: 6/9/2021 3:38:31 PM	Prep Date: 6/8/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Mercury 0.0122 0.00100 0.0125 0 98.0 85 115

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2106017
Project: 1H21 Coleta Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_210609B

Sample ID: ICV-210609	Batch ID: R115747	TestNo: SW7470A	Units: mg/L							
SampType: ICV	Run ID: CETAC2_HG_210609B	Analysis Date: 6/9/2021 3:04:30 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00412	0.000200	0.00400	0	103	90	110			

Sample ID: CCV1-210609	Batch ID: R115747	TestNo: SW7470A	Units: mg/L							
SampType: CCV	Run ID: CETAC2_HG_210609B	Analysis Date: 6/9/2021 4:00:43 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00200	0.000200	0.00200	0	100	90	110			

<p>Qualifiers:</p> <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL 	<ul style="list-style-type: none"> DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAP certified
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CLIENT: Golder
Work Order: 2106017
Project: 1H21 Coleta Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_210428A

Sample ID: DCS2-100323	Batch ID: 100323	TestNo: SW6020B	Units: mg/L
SampType: DCS2	Run ID: ICP-MS4_210428A	Analysis Date: 4/28/2021 10:34:00 AM	Prep Date: 4/27/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	0.302	0.300	0.300	0	101	70	130	0	0	

Sample ID: DCS4-100323	Batch ID: 100323	TestNo: SW6020B	Units: mg/L
SampType: DCS4	Run ID: ICP-MS4_210428A	Analysis Date: 4/28/2021 10:39:00 AM	Prep Date: 4/27/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	0.0310	0.0300	0.0300	0	103	70	130	0	0	

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

- DF Dilution Factor
- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2106017
Project: 1H21 Coleta Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_210607B

The QC data in batch 100822 applies to the following samples: 2106017-01A, 2106017-02A, 2106017-03A

Sample ID: MB-100822	Batch ID: 100822	TestNo: SW6020B	Units: mg/L							
SampType: MBLK	Run ID: ICP-MS4_210607B	Analysis Date: 6/7/2021 2:24:00 PM	Prep Date: 6/4/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Boron	<0.0100	0.0300								
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Sample ID: LCS-100822	Batch ID: 100822	TestNo: SW6020B	Units: mg/L							
SampType: LCS	Run ID: ICP-MS4_210607B	Analysis Date: 6/7/2021 2:26:00 PM	Prep Date: 6/4/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Boron	0.194	0.0300	0.200	0	97.1	80	120			
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Sample ID: LCSD-100822	Batch ID: 100822	TestNo: SW6020B	Units: mg/L							
SampType: LCSD	Run ID: ICP-MS4_210607B	Analysis Date: 6/7/2021 2:28:00 PM	Prep Date: 6/4/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Boron	0.197	0.0300	0.200	0	98.4	80	120	1.33	15	
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Sample ID: 2106021-01C SD	Batch ID: 100822	TestNo: SW6020B	Units: mg/L							
SampType: SD	Run ID: ICP-MS4_210607B	Analysis Date: 6/7/2021 2:34:00 PM	Prep Date: 6/4/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Boron	<1.00	3.00	0	0.588				0	20	
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Sample ID: 2106021-01C PDS	Batch ID: 100822	TestNo: SW6020B	Units: mg/L							
SampType: PDS	Run ID: ICP-MS4_210607B	Analysis Date: 6/7/2021 2:44:00 PM	Prep Date: 6/4/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Boron	4.50	0.600	4.00	0.588	97.8	75	125			
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Sample ID: 2106021-01C MS	Batch ID: 100822	TestNo: SW6020B	Units: mg/L							
SampType: MS	Run ID: ICP-MS4_210607B	Analysis Date: 6/7/2021 2:46:00 PM	Prep Date: 6/4/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Boron	0.801	0.600	0.200	0.588	106	75	125			
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Sample ID: 2106021-01C MSD	Batch ID: 100822	TestNo: SW6020B	Units: mg/L							
SampType: MSD	Run ID: ICP-MS4_210607B	Analysis Date: 6/7/2021 2:48:00 PM	Prep Date: 6/4/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Boron	0.824	0.600	0.200	0.588	118	75	125	2.82	15	
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- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2106017
Project: 1H21 Coleta Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_210607B

Sample ID: ICV-210607	Batch ID: R115717	TestNo: SW6020B	Units: mg/L							
SampType: ICV	Run ID: ICP-MS4_210607B	Analysis Date: 6/7/2021 11:31:00 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	0.103	0.0300	0.100	0	103	90	110			
Calcium	2.34	0.300	2.50	0	93.7	90	110			

Sample ID: LCVL-210607	Batch ID: R115717	TestNo: SW6020B	Units: mg/L							
SampType: LCVL	Run ID: ICP-MS4_210607B	Analysis Date: 6/7/2021 11:40:00 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	0.0227	0.0300	0.0200	0	114	80	120			
Calcium	0.0970	0.300	0.100	0	97.0	80	120			

Sample ID: CCV1-210607	Batch ID: R115717	TestNo: SW6020B	Units: mg/L							
SampType: CCV	Run ID: ICP-MS4_210607B	Analysis Date: 6/7/2021 12:23:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	0.202	0.0300	0.200	0	101	90	110			
Calcium	4.85	0.300	5.00	0	97.1	90	110			

Sample ID: CCV2-210607	Batch ID: R115717	TestNo: SW6020B	Units: mg/L							
SampType: CCV	Run ID: ICP-MS4_210607B	Analysis Date: 6/7/2021 2:50:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	0.197	0.0300	0.200	0	98.3	90	110			
Calcium	4.73	0.300	5.00	0	94.6	90	110			

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAP certified

CLIENT: Golder
 Work Order: 2106017
 Project: 1H21 Coleta Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_210428A

Sample ID: DCS1-100323	Batch ID: 100323	TestNo: SW6020B	Units: mg/L
SampType: DCS	Run ID: ICP-MS5_210428A	Analysis Date: 4/28/2021 10:49:00 AM	Prep Date: 4/27/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00105	0.00250	0.00100	0	105	70	130	0	0	
Beryllium	0.000505	0.00100	0.000500	0	101	70	130	0	0	
Cadmium	0.000461	0.00100	0.000500	0	92.2	70	130	0	0	
Lead	0.000474	0.00100	0.000500	0	94.8	70	130	0	0	
Thallium	0.000452	0.00150	0.000500	0	90.4	70	130	0	0	

Sample ID: DCS2-100323	Batch ID: 100323	TestNo: SW6020B	Units: mg/L
SampType: DCS2	Run ID: ICP-MS5_210428A	Analysis Date: 4/28/2021 10:53:00 AM	Prep Date: 4/27/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	0.302	0.300	0.300	0	101	70	130	0	0	

Sample ID: DCS3-100323	Batch ID: 100323	TestNo: SW6020B	Units: mg/L
SampType: DCS3	Run ID: ICP-MS5_210428A	Analysis Date: 4/28/2021 10:56:00 AM	Prep Date: 4/27/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00467	0.00500	0.00500	0	93.3	70	130	0	0	
Barium	0.00472	0.0100	0.00500	0	94.4	70	130	0	0	
Chromium	0.00490	0.00500	0.00500	0	97.9	70	130	0	0	
Cobalt	0.00473	0.00500	0.00500	0	94.5	70	130	0	0	
Lithium	0.00495	0.0100	0.00500	0	99.0	70	130	0	0	
Molybdenum	0.00482	0.00500	0.00500	0	96.4	70	130	0	0	
Selenium	0.00498	0.00500	0.00500	0	99.5	70	130	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: Golder
Work Order: 2106017
Project: 1H21 Coletto Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_210607B

The QC data in batch 100822 applies to the following samples: 2106017-01A, 2106017-02A, 2106017-03A

Sample ID: MB-100822	Batch ID: 100822	TestNo: SW6020B	Units: mg/L
SampType: MBLK	Run ID: ICP-MS5_210607B	Analysis Date: 6/7/2021 12:14:00 PM	Prep Date: 6/4/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.000800	0.00250								
Arsenic	<0.00200	0.00500								
Barium	<0.00300	0.0100								
Beryllium	<0.000300	0.00100								
Cadmium	<0.000300	0.00100								
Calcium	<0.100	0.300								
Chromium	<0.00200	0.00500								
Cobalt	<0.00300	0.00500								
Lead	<0.000300	0.00100								
Lithium	<0.00500	0.0100								
Molybdenum	<0.00200	0.00500								
Selenium	<0.00200	0.00500								
Thallium	<0.000500	0.00150								

Sample ID: LCS-100822	Batch ID: 100822	TestNo: SW6020B	Units: mg/L
SampType: LCS	Run ID: ICP-MS5_210607B	Analysis Date: 6/7/2021 12:18:00 PM	Prep Date: 6/4/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.196	0.00250	0.200	0	98.2	80	120			
Arsenic	0.198	0.00500	0.200	0	98.9	80	120			
Barium	0.195	0.0100	0.200	0	97.6	80	120			
Beryllium	0.188	0.00100	0.200	0	94.1	80	120			
Cadmium	0.197	0.00100	0.200	0	98.5	80	120			
Calcium	4.80	0.300	5.00	0	95.9	80	120			
Chromium	0.198	0.00500	0.200	0	98.8	80	120			
Cobalt	0.196	0.00500	0.200	0	98.2	80	120			
Lead	0.190	0.00100	0.200	0	94.8	80	120			
Lithium	0.195	0.0100	0.200	0	97.7	80	120			
Molybdenum	0.197	0.00500	0.200	0	98.7	80	120			
Selenium	0.198	0.00500	0.200	0	98.8	80	120			
Thallium	0.189	0.00150	0.200	0	94.6	80	120			

Sample ID: LCSD-100822	Batch ID: 100822	TestNo: SW6020B	Units: mg/L
SampType: LCSD	Run ID: ICP-MS5_210607B	Analysis Date: 6/7/2021 12:21:00 PM	Prep Date: 6/4/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.196	0.00250	0.200	0	98.2	80	120	0.084	15	
Arsenic	0.198	0.00500	0.200	0	99.1	80	120	0.194	15	
Barium	0.198	0.0100	0.200	0	99.2	80	120	1.65	15	
Beryllium	0.185	0.00100	0.200	0	92.5	80	120	1.76	15	

Qualifiers:	<p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAP certified</p>
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CLIENT: Golder
 Work Order: 2106017
 Project: 1H21 Coleta Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_210607B

Sample ID: LCSD-100822	Batch ID: 100822	TestNo: SW6020B	Units: mg/L
SampType: LCSD	Run ID: ICP-MS5_210607B	Analysis Date: 6/7/2021 12:21:00 PM	Prep Date: 6/4/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	0.198	0.00100	0.200	0	98.9	80	120	0.413	15	
Calcium	4.83	0.300	5.00	0	96.5	80	120	0.589	15	
Chromium	0.201	0.00500	0.200	0	100	80	120	1.58	15	
Cobalt	0.196	0.00500	0.200	0	97.9	80	120	0.312	15	
Lead	0.191	0.00100	0.200	0	95.7	80	120	0.971	15	
Lithium	0.191	0.0100	0.200	0	95.6	80	120	2.20	15	
Molybdenum	0.200	0.00500	0.200	0	99.9	80	120	1.19	15	
Selenium	0.197	0.00500	0.200	0	98.6	80	120	0.232	15	
Thallium	0.192	0.00150	0.200	0	95.8	80	120	1.28	15	

Sample ID: 2106021-01C SD	Batch ID: 100822	TestNo: SW6020B	Units: mg/L
SampType: SD	Run ID: ICP-MS5_210607B	Analysis Date: 6/7/2021 12:29:00 PM	Prep Date: 6/4/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.00400	0.0125	0	0.00114				0	20	
Arsenic	0.0201	0.0250	0	0.0196				2.49	20	
Barium	0.0232	0.0500	0	0.0235				1.52	20	
Beryllium	<0.00150	0.00500	0	0.00180				0	20	
Cadmium	<0.00150	0.00500	0	0.000981				0	20	
Calcium	136	1.50	0	130				4.53	20	
Chromium	<0.0100	0.0250	0	0				0	20	
Cobalt	<0.0150	0.0250	0	0				0	20	
Lead	<0.00150	0.00500	0	0.000950				0	20	
Lithium	0.212	0.0500	0	0.196				8.13	20	
Molybdenum	0.0125	0.0250	0	0.0123				1.97	20	
Selenium	<0.0100	0.0250	0	0.00912				0	20	
Thallium	<0.00250	0.00750	0	0.00106				0	20	

Sample ID: 2106021-01C PDS	Batch ID: 100822	TestNo: SW6020B	Units: mg/L
SampType: PDS	Run ID: ICP-MS5_210607B	Analysis Date: 6/7/2021 12:41:00 PM	Prep Date: 6/4/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.197	0.00250	0.200	0.00114	97.8	75	125			
Arsenic	0.204	0.00500	0.200	0.0196	92.0	75	125			
Barium	0.225	0.0100	0.200	0.0235	101	75	125			
Beryllium	0.182	0.00100	0.200	0.00180	89.9	75	125			
Cadmium	0.196	0.00100	0.200	0.000981	97.8	75	125			
Calcium	127	0.300	5.00	130	-53.6	75	125			S
Chromium	0.204	0.00500	0.200	0	102	75	125			
Cobalt	0.188	0.00500	0.200	0	94.2	75	125			
Lead	0.197	0.00100	0.200	0.000950	97.9	75	125			

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAP certified

CLIENT: Golder
 Work Order: 2106017
 Project: 1H21 Coleta Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_210607B

Sample ID: 2106021-01C PDS	Batch ID: 100822	TestNo: SW6020B	Units: mg/L							
SampType: PDS	Run ID: ICP-MS5_210607B	Analysis Date: 6/7/2021 12:41:00 PM	Prep Date: 6/4/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lithium	0.376	0.0100	0.200	0.196	89.9	75	125			
Molybdenum	0.213	0.00500	0.200	0.0123	100	75	125			
Selenium	0.213	0.00500	0.200	0.00912	102	75	125			
Thallium	0.195	0.00150	0.200	0.00106	96.8	75	125			

Sample ID: 2106021-01C MS	Batch ID: 100822	TestNo: SW6020B	Units: mg/L							
SampType: MS	Run ID: ICP-MS5_210607B	Analysis Date: 6/7/2021 12:44:00 PM	Prep Date: 6/4/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.198	0.00250	0.200	0.00114	98.6	75	125			
Arsenic	0.206	0.00500	0.200	0.0196	93.4	75	125			
Barium	0.222	0.0100	0.200	0.0235	99.1	75	125			
Beryllium	0.179	0.00100	0.200	0.00180	88.7	75	125			
Cadmium	0.194	0.00100	0.200	0.000981	96.3	75	125			
Calcium	132	0.300	5.00	130	44.4	75	125			S
Chromium	0.198	0.00500	0.200	0	99.0	75	125			
Cobalt	0.184	0.00500	0.200	0	91.9	75	125			
Lead	0.194	0.00100	0.200	0.000950	96.4	75	125			
Lithium	0.387	0.0100	0.200	0.196	95.6	75	125			
Molybdenum	0.215	0.00500	0.200	0.0123	101	75	125			
Selenium	0.212	0.00500	0.200	0.00912	101	75	125			
Thallium	0.195	0.00150	0.200	0.00106	96.9	75	125			

Sample ID: 2106021-01C MSD	Batch ID: 100822	TestNo: SW6020B	Units: mg/L							
SampType: MSD	Run ID: ICP-MS5_210607B	Analysis Date: 6/7/2021 12:47:00 PM	Prep Date: 6/4/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.195	0.00250	0.200	0.00114	97.0	75	125	1.54	15	
Arsenic	0.203	0.00500	0.200	0.0196	91.7	75	125	1.61	15	
Barium	0.217	0.0100	0.200	0.0235	96.6	75	125	2.27	15	
Beryllium	0.179	0.00100	0.200	0.00180	88.5	75	125	0.248	15	
Cadmium	0.190	0.00100	0.200	0.000981	94.7	75	125	1.74	15	
Calcium	130	0.300	5.00	130	2.49	75	125	1.60	15	S
Chromium	0.195	0.00500	0.200	0	97.4	75	125	1.68	15	
Cobalt	0.180	0.00500	0.200	0	90.0	75	125	2.15	15	
Lead	0.191	0.00100	0.200	0.000950	95.1	75	125	1.33	15	
Lithium	0.387	0.0100	0.200	0.196	95.9	75	125	0.113	15	
Molybdenum	0.212	0.00500	0.200	0.0123	99.9	75	125	1.41	15	
Selenium	0.211	0.00500	0.200	0.00912	101	75	125	0.488	15	
Thallium	0.193	0.00150	0.200	0.00106	95.8	75	125	1.18	15	

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAP certified

CLIENT: Golder
 Work Order: 2106017
 Project: 1H21 Coleta Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_210607B

Sample ID: ICV-210607	Batch ID: R115706	TestNo: SW6020B	Units: mg/L
SampType: ICV	Run ID: ICP-MS5_210607B	Analysis Date: 6/7/2021 10:35:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.0982	0.00250	0.100	0	98.2	90	110			
Arsenic	0.0968	0.00500	0.100	0	96.8	90	110			
Barium	0.0980	0.0100	0.100	0	98.0	90	110			
Beryllium	0.0936	0.00100	0.100	0	93.6	90	110			
Cadmium	0.0995	0.00100	0.100	0	99.5	90	110			
Calcium	2.39	0.300	2.50	0	95.7	90	110			
Chromium	0.102	0.00500	0.100	0	102	90	110			
Cobalt	0.0974	0.00500	0.100	0	97.4	90	110			
Lead	0.0973	0.00100	0.100	0	97.3	90	110			
Lithium	0.0951	0.0100	0.100	0	95.1	90	110			
Molybdenum	0.0966	0.00500	0.100	0	96.6	90	110			
Selenium	0.0973	0.00500	0.100	0	97.3	90	110			
Thallium	0.0961	0.00150	0.100	0	96.1	90	110			

Sample ID: LCVL-210607	Batch ID: R115706	TestNo: SW6020B	Units: mg/L
SampType: LCVL	Run ID: ICP-MS5_210607B	Analysis Date: 6/7/2021 10:40:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00195	0.00250	0.00200	0	97.3	80	120			
Arsenic	0.00471	0.00500	0.00500	0	94.2	80	120			
Barium	0.00523	0.0100	0.00500	0	105	80	120			
Beryllium	0.00101	0.00100	0.00100	0	101	80	120			
Cadmium	0.00103	0.00100	0.00100	0	103	80	120			
Calcium	0.0969	0.300	0.100	0	96.9	80	120			
Chromium	0.00510	0.00500	0.00500	0	102	80	120			
Cobalt	0.00477	0.00500	0.00500	0	95.4	80	120			
Lead	0.00102	0.00100	0.00100	0	102	80	120			
Lithium	0.00978	0.0100	0.0100	0	97.8	80	120			
Molybdenum	0.00517	0.00500	0.00500	0	103	80	120			
Selenium	0.00492	0.00500	0.00500	0	98.5	80	120			
Thallium	0.000981	0.00150	0.00100	0	98.1	80	120			

Sample ID: CCV2-210607	Batch ID: R115706	TestNo: SW6020B	Units: mg/L
SampType: CCV	Run ID: ICP-MS5_210607B	Analysis Date: 6/7/2021 11:58:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.194	0.00250	0.200	0	97.2	90	110			
Arsenic	0.198	0.00500	0.200	0	99.0	90	110			
Barium	0.196	0.0100	0.200	0	97.8	90	110			
Beryllium	0.185	0.00100	0.200	0	92.4	90	110			
Cadmium	0.197	0.00100	0.200	0	98.3	90	110			

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2106017
Project: 1H21 Coleta Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_210607B

Sample ID: CCV2-210607	Batch ID: R115706	TestNo: SW6020B	Units: mg/L
SampType: CCV	Run ID: ICP-MS5_210607B	Analysis Date: 6/7/2021 11:58:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	5.28	0.300	5.00	0	106	90	110			
Chromium	0.198	0.00500	0.200	0	98.9	90	110			
Cobalt	0.196	0.00500	0.200	0	97.9	90	110			
Lead	0.193	0.00100	0.200	0	96.7	90	110			
Lithium	0.188	0.0100	0.200	0	93.9	90	110			
Molybdenum	0.197	0.00500	0.200	0	98.5	90	110			
Selenium	0.200	0.00500	0.200	0	100	90	110			
Thallium	0.190	0.00150	0.200	0	94.8	90	110			

Sample ID: CCV3-210607	Batch ID: R115706	TestNo: SW6020B	Units: mg/L
SampType: CCV	Run ID: ICP-MS5_210607B	Analysis Date: 6/7/2021 12:49:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.199	0.00250	0.200	0	99.5	90	110			
Arsenic	0.200	0.00500	0.200	0	99.9	90	110			
Barium	0.201	0.0100	0.200	0	100	90	110			
Beryllium	0.190	0.00100	0.200	0	94.8	90	110			
Cadmium	0.201	0.00100	0.200	0	101	90	110			
Calcium	5.49	0.300	5.00	0	110	90	110			
Chromium	0.203	0.00500	0.200	0	102	90	110			
Cobalt	0.200	0.00500	0.200	0	99.8	90	110			
Lead	0.197	0.00100	0.200	0	98.4	90	110			
Lithium	0.198	0.0100	0.200	0	99.2	90	110			
Molybdenum	0.204	0.00500	0.200	0	102	90	110			
Selenium	0.200	0.00500	0.200	0	99.8	90	110			
Thallium	0.195	0.00150	0.200	0	97.4	90	110			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2106017
Project: 1H21 Coleta Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_210527A

Sample ID: DCS3-100738	Batch ID: 100738	TestNo: E300	Units: mg/L
SampType: DCS3	Run ID: IC2_210527A	Analysis Date: 5/27/2021 4:13:05 PM	Prep Date: 5/27/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	1.25	1.00	1.000	0	125	70	130	0	0	
Fluoride	0.408	0.400	0.4000	0	102	70	130	0	0	
Sulfate	3.03	3.00	3.000	0	101	70	130	0	0	

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2106017
Project: 1H21 Coleta Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_210603A

The QC data in batch 100816 applies to the following samples: 2106017-01B, 2106017-02B, 2106017-03B

Sample ID: MB-100816	Batch ID: 100816	TestNo: E300	Units: mg/L							
SampType: MBLK	Run ID: IC2_210603A	Analysis Date: 6/3/2021 11:47:09 AM	Prep Date: 6/3/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	<0.300	1.00								
Fluoride	<0.100	0.400								
Sulfate	<1.00	3.00								

Sample ID: LCS-100816	Batch ID: 100816	TestNo: E300	Units: mg/L							
SampType: LCS	Run ID: IC2_210603A	Analysis Date: 6/3/2021 12:03:09 PM	Prep Date: 6/3/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.51	1.00	10.00	0	95.1	90	110			
Fluoride	3.80	0.400	4.000	0	95.0	90	110			
Sulfate	29.5	3.00	30.00	0	98.2	90	110			

Sample ID: LCSD-100816	Batch ID: 100816	TestNo: E300	Units: mg/L							
SampType: LCSD	Run ID: IC2_210603A	Analysis Date: 6/3/2021 12:19:09 PM	Prep Date: 6/3/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.54	1.00	10.00	0	95.4	90	110	0.304	20	
Fluoride	3.82	0.400	4.000	0	95.4	90	110	0.496	20	
Sulfate	29.6	3.00	30.00	0	98.5	90	110	0.320	20	

Sample ID: 2106010-01BMS	Batch ID: 100816	TestNo: E300	Units: mg/L							
SampType: MS	Run ID: IC2_210603A	Analysis Date: 6/3/2021 2:55:12 PM	Prep Date: 6/3/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	222	10.0	200.0	23.89	98.8	90	110			
Fluoride	216	4.00	200.0	20.91	97.4	90	110			
Sulfate	848	30.0	200.0	690.1	79.1	90	110			S

Sample ID: 2106010-01BMSD	Batch ID: 100816	TestNo: E300	Units: mg/L							
SampType: MSD	Run ID: IC2_210603A	Analysis Date: 6/3/2021 3:11:11 PM	Prep Date: 6/3/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	222	10.0	200.0	23.89	99.1	90	110	0.264	20	
Fluoride	218	4.00	200.0	20.91	98.3	90	110	0.848	20	
Sulfate	856	30.0	200.0	690.1	82.8	90	110	0.862	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: Golder
Work Order: 2106017
Project: 1H21 Coleta Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_210603A

Sample ID: ICV-210603	Batch ID: R115680	TestNo: E300	Units: mg/L
SampType: ICV	Run ID: IC2_210603A	Analysis Date: 6/3/2021 11:15:09 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	25.1	1.00	25.00	0	100	90	110			
Fluoride	9.92	0.400	10.00	0	99.2	90	110			
Sulfate	77.8	3.00	75.00	0	104	90	110			

Sample ID: CCV1-210603	Batch ID: R115680	TestNo: E300	Units: mg/L
SampType: CCV	Run ID: IC2_210603A	Analysis Date: 6/3/2021 6:07:11 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.67	1.00	10.00	0	96.7	90	110			
Fluoride	3.91	0.400	4.000	0	97.8	90	110			
Sulfate	29.9	3.00	30.00	0	99.8	90	110			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAP certified

CLIENT: Golder
 Work Order: 2106017
 Project: 1H21 Coleta Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: WC_210604A

The QC data in batch 100830 applies to the following samples: 2106017-01B, 2106017-02B, 2106017-03B

Sample ID: MB-100830	Batch ID: 100830	TestNo: M2540C	Units: mg/L							
SampType: MBLK	Run ID: WC_210604A	Analysis Date: 6/4/2021 5:00:00 PM	Prep Date: 6/4/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera										
	<10.0	10.0								

Sample ID: LCS-100830	Batch ID: 100830	TestNo: M2540C	Units: mg/L							
SampType: LCS	Run ID: WC_210604A	Analysis Date: 6/4/2021 5:00:00 PM	Prep Date: 6/4/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera										
	751	10.0	745.6	0	101	90	113			

Sample ID: 2106009-01A-DUP	Batch ID: 100830	TestNo: M2540C	Units: mg/L							
SampType: DUP	Run ID: WC_210604A	Analysis Date: 6/4/2021 5:00:00 PM	Prep Date: 6/4/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera										
	1110	50.0	0	1115				0.901	5	

Sample ID: 2106009-02A-DUP	Batch ID: 100830	TestNo: M2540C	Units: mg/L							
SampType: DUP	Run ID: WC_210604A	Analysis Date: 6/4/2021 5:00:00 PM	Prep Date: 6/4/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera										
	1200	50.0	0	1235				2.87	5	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: Golder
Work Order: 2106017
Project: 1H21 Coleta Creek GW

MQL SUMMARY REPORT

TestNo: E300	MDL	MQL
Analyte	mg/L	mg/L
Chloride	0.300	1.00
Fluoride	0.100	0.400
Sulfate	1.00	3.00

TestNo: SW6020B	MDL	MQL
Analyte	mg/L	mg/L
Antimony	0.000800	0.00250
Arsenic	0.00200	0.00500
Barium	0.00300	0.0100
Beryllium	0.000300	0.00100
Boron	0.0100	0.0300
Cadmium	0.000300	0.00100
Calcium	0.100	0.300
Chromium	0.00200	0.00500
Cobalt	0.00300	0.00500
Lead	0.000300	0.00100
Lithium	0.00500	0.0100
Molybdenum	0.00200	0.00500
Selenium	0.00200	0.00500
Thallium	0.000500	0.00150

TestNo: SW7470A	MDL	MQL
Analyte	mg/L	mg/L
Mercury	0.0000800	0.000200

TestNo: M2540C	MDL	MQL
Analyte	mg/L	mg/L
Total Dissolved Solids (Residue, Filt	10.0	10.0

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
 MDL -Method Detection Limit as defined by TRRP

DHL Analytical, Inc.

Sample Delivery Group: L1363044
Samples Received: 06/08/2021
Project Number:
Description:

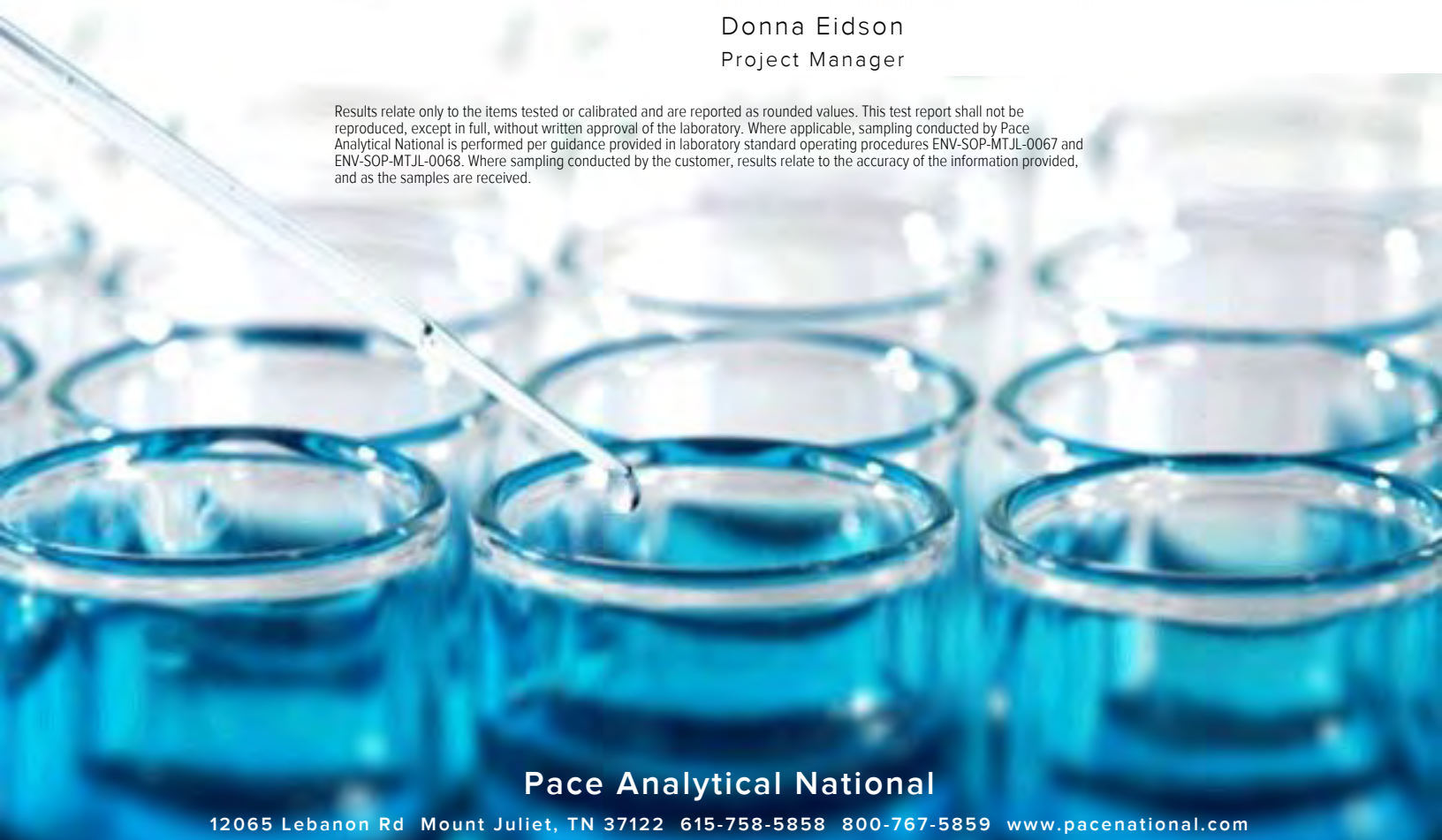
Report To: John DuPont
2300 Double Creek Drive
Round Rock, TX 78664

Entire Report Reviewed By:



Donna Eidson
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

BV-5 L1363044-01 Non-Potable Water

Collected by _____ Collected date/time 06/02/21 09:13 Received date/time 06/08/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG1695321	1	06/26/21 13:10	07/02/21 13:15	JMR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1688247	1	07/01/21 09:59	07/02/21 16:15	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1688247	1	07/01/21 09:59	07/02/21 16:15	RGT	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

MW-4 L1363044-02 Non-Potable Water

Collected by _____ Collected date/time 06/02/21 10:30 Received date/time 06/08/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG1695321	1	06/26/21 13:10	07/02/21 13:15	JMR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1688247	1	07/01/21 09:59	07/02/21 16:15	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1688247	1	07/01/21 09:59	07/02/21 16:15	RGT	Mt. Juliet, TN

⁵Sr

⁶Qc

⁷Gl

BV-21 L1363044-03 Non-Potable Water

Collected by _____ Collected date/time 06/02/21 11:25 Received date/time 06/08/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG1695321	1	06/26/21 13:10	07/02/21 13:15	JMR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1688247	1	07/01/21 09:59	07/02/21 16:15	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1688247	1	07/01/21 09:59	07/02/21 16:15	RGT	Mt. Juliet, TN

⁸Al

⁹Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Donna Eidson
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Radiochemistry by Method 904

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.700	<u>U</u>	0.636	0.578	07/02/2021 13:15	WG1695321
(T) Barium	93.3			62.0-143	07/02/2021 13:15	WG1695321
(T) Yttrium	97.8			79.0-136	07/02/2021 13:15	WG1695321

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.325	<u>J</u>	0.856	0.801	07/02/2021 16:15	WG1688247

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.325		0.220	0.223	07/02/2021 16:15	WG1688247
(T) Barium-133	96.7			30.0-143	07/02/2021 16:15	WG1688247

Radiochemistry by Method 904

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.726		0.516	0.452	07/02/2021 13:15	WG1695321
(T) Barium	99.6			62.0-143	07/02/2021 13:15	WG1695321
(T) Yttrium	90.8			79.0-136	07/02/2021 13:15	WG1695321

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.02		0.725	0.654	07/02/2021 16:15	WG1688247

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.298		0.209	0.202	07/02/2021 16:15	WG1688247
(T) Barium-133	97.0			30.0-143	07/02/2021 16:15	WG1688247

Radiochemistry by Method 904

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.392	J	0.501	0.443	07/02/2021 13:15	WG1695321
(T) Barium	106			62.0-143	07/02/2021 13:15	WG1695321
(T) Yttrium	88.4			79.0-136	07/02/2021 13:15	WG1695321

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.434	J	0.707	0.798	07/02/2021 16:15	WG1688247

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0424	U	0.206	0.355	07/02/2021 16:15	WG1688247
(T) Barium-133	100			30.0-143	07/02/2021 16:15	WG1688247

Method Blank (MB)

(MB) R3676079-1 07/02/21 13:15

Analyte	MB Result pCi/l	MB Qualifier	MB MDA pCi/l
Radium-228	-0.388	<u>U</u>	0.302
(T) Barium	117		
(T) Yttrium	89.7		

L1369884-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1369884-04 07/02/21 13:15 • (DUP) R3676079-5 07/02/21 13:15

Analyte	Original Result pCi/l	DUP Result pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	-0.198	-0.243	1	0.000	0.0542	<u>U</u>	20	3
(T) Barium	101	112						
(T) Yttrium	93.8	94.7						

Laboratory Control Sample (LCS)

(LCS) R3676079-2 07/02/21 13:15

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.46	109	80.0-120	
(T) Barium			116		
(T) Yttrium			99.2		

L1369872-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1369872-01 07/02/21 13:15 • (MS) R3676079-3 07/02/21 13:15 • (MSD) R3676079-4 07/02/21 13:15

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	0.101	10.6	11.5	105	114	1	70.0-130			7.68		20
(T) Barium		107			116	106							
(T) Yttrium		98.2			94.1	91.2							

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3676480-1 07/02/21 15:48

Analyte	MB Result pCi/l	MB Qualifier	MB MDA pCi/l
Radium-226	0.000	<u>U</u>	0.0244
(T) Barium-133	91.6		

¹Cp

²Tc

³Ss

L1372093-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1372093-01 07/02/21 16:15 • (DUP) R3676480-5 07/02/21 16:15

Analyte	Original Result pCi/l	DUP Result pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
Radium-226	0.0241	0.0137	1	55.2	0.0621	<u>U</u>	20	3
(T) Barium-133	96.0	97.0						

⁴Cn

⁵Sr

⁶Qc

Laboratory Control Sample (LCS)

(LCS) R3676480-2 07/02/21 16:15

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.02	4.68	93.2	80.0-120	
(T) Barium-133			103		

⁷Gl

⁸Al

⁹Sc

L1363039-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1363039-01 07/02/21 16:15 • (MS) R3676480-3 07/02/21 16:15 • (MSD) R3676480-4 07/02/21 16:15

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.1	0.158	19.5	19.1	96.4	94.4	1	75.0-125			2.12		20
(T) Barium-133		98.1			99.3	90.0							

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ACCREDITATIONS & LOCATIONS

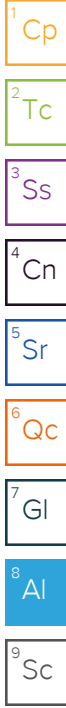
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.





July 30, 2021

Will Vienne
Golder
2201 Double Creek Dr #4004
Round Rock, Texas 78664
TEL: (512) 671-3434
FAX (512) 671-3446
RE: 1H21 Coletto Creek

Order No.: 2106204

Dear Will Vienne:

DHL Analytical, Inc. received 7 sample(s) on 6/26/2021 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAP except where noted in the Case Narrative. All non-NELAP methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in red ink, appearing to read 'John DuPont', written in a cursive style.

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-21-27



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Eric Lau

From: John DuPont
Sent: Tuesday, May 28, 2019 11:35 AM
To: Eric Lau
Subject: FW: CCR Analysis

Appendix III Parameters:

Metals (Ca and B)
Anions (Cl, F, and SO4)
TDS

Appendix IV Parameters:

Metals (As, Ba, Be, Cd, Co, Cr, Hg, Li, Mo, Pb, Sb, Se, and Tl)
Ra-226
Ra-228

From: Vienne, Will [mailto:William_Vienne@golder.com]
Sent: Tuesday, April 09, 2019 12:48 PM
To: John DuPont <dupont@dhlanalytical.com>
Subject: CCR Analysis

ORIGIN ID: VCTA (361) 573-6442
GREG LOGAN JR.
GOLDER ASSOCIATES INC.
1501 E. MOCKINGBIRD LN

SHIP DATE: 25JUN21
ACTWGT: 30.00 LB
CAD: 2806631/INET4340
DIMS: 24x13x14 IN

VICTORIA, TX 77904
UNITED STATES US

BILL SENDER

TO **SAMPLE RECEIVING**
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664

(512) 388-8222

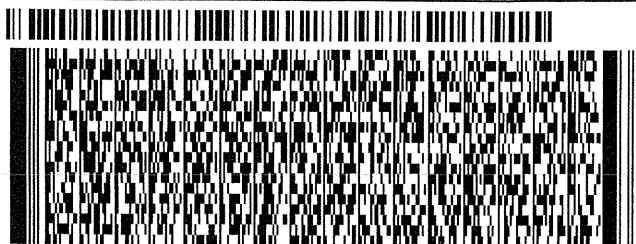
REF 19122262-62021

INV.

PO:

DEPT:

FedEx Ship Manager - Print Your Label(s)



FedEx
Express



J211321033101uv

56DJ9E687/FE4A

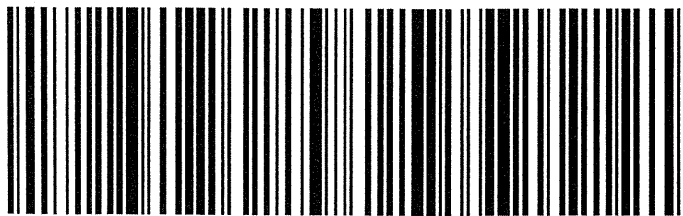
1 of 2

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# **7740 9931 4402**
0201
MASTER

X0 BSMA

78664
AUS
TX-US



6/25/2021

CUSTODY SEAL

DATE _____

SIGNATURE _____

DHL
ANALYTICAL

ORIGIN ID:VCTA (361) 573-6442
GREG LOGAN JR.
GOLDER ASSOCIATES INC.
1501 E. MOCKINGBIRD LN

SHIP DATE: 25JUN21
ACTWGT: 30.00 LB
CAD: 2806631/INET4340
DIMS: 24x13x14 IN

VICTORIA, TX 77904
UNITED STATES US

BILL SENDER

TO **SAMPLE RECEIVING**
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664

(512) 388-8222

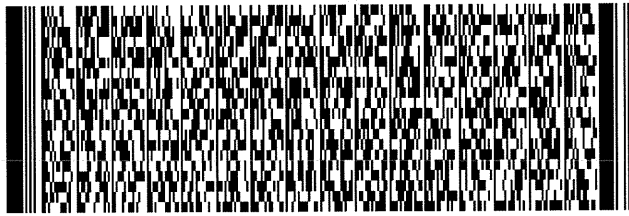
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PO:

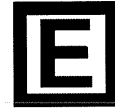
DEPT:

56DUG687/FE4A

FedEx Ship Manager - Print Your Label(s)



FedEx
Express



J21132210331011W

SATURDAY 12:00P
PRIORITY OVERNIGHT

2 of 2

MPS# **7740 9931 4078**

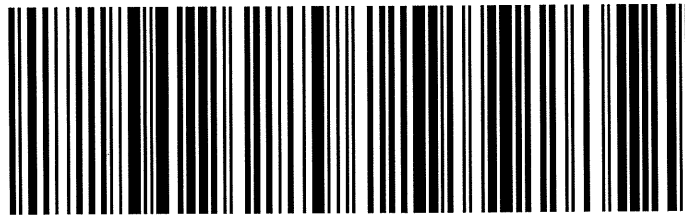
0263

Mstr# **7740 9931 4402**

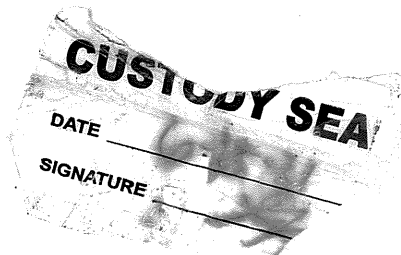
0201

X0 BSMA

78664
TX-US AUS



6/25/2021



Sample Receipt Checklist

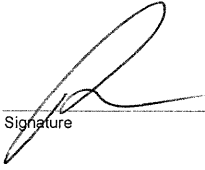
Client Name Golder

Date Received: 6/28/2021

Work Order Number 2106204

Received by: AH

Checklist completed by:



6/28/2021

Signature

Date

Reviewed by



Initials

6/28/2021

Date

Carrier name: FedEx 1day

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No

- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No 4.5 °C
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH<2 acceptable upon receipt? Yes No NA LOT # 13171
- Adjusted? NO Checked by R.A.
- Water - pH>9 (S) or pH>10 (CN) acceptable upon receipt? Yes No NA LOT #
- Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

Laboratory Name: DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: 1H21 Coleta Creek		LRC Date: 7/30/21					
Reviewer Name: Carlos Castro		Laboratory Work Order: 2106204					
Prep Batch Number(s): See Prep Dates Report		Run Batch: See Analytical Dates Report					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and Quality Control (QC) Identification					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test Reports					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?			X		
		9) If required for the project, TICs reported?			X		
R4	O	Surrogate Recovery Data					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test Reports/Summary Forms for Blank Samples					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MDL?	X				
		5) For analyte(s) detected in a blank sample, was the concentration, unadjusted for sample specific factors, in all associated field samples, greater than 10 times the concentration in the blank sample?			X		
R6	OI	Laboratory Control Samples (LCS):					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	Analytical Duplicate Data					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	Method Quantitation Limits (MQLs):					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other Problems/Anomalies					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Name: DHL Analytical, Inc.							
Laboratory Review Checklist (continued): Supporting Data							
Project Name: 1H21 Coleta Creek				LRC Date: 7/30/21			
Reviewer Name: Carlos Castro				Laboratory Work Order: 2106204			
Prep Batch Number(s): See Prep Dates Report				Run Batch: See Analytical Dates Report			
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial Calibration (ICAL)					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?...	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	Mass Spectral Tuning:					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal Standards (IS):					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw Data (NELAC Section 5.5.10)					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual Column Confirmation					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively Identified Compounds (TICs):					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) Results:					
		1) Were percent recoveries within method QC limits?	X				
S9	I	Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			S9-01
S10	OI	Method Detection Limit (MDL) Studies					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency Test Reports:					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards Documentation					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/Analyte Identification Procedures					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of Analyst Competency (DOC)					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/Validation Documentation for Methods (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory Standard Operating Procedures (SOPs):					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5,
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) The amount of analyte measured in the duplicate,
 - b) The calculated RPD, and
 - c) The laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory is not accredited under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on February 23-26, 2021. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Name: John DuPont
Official Title: General Manager


Signature

07/30/21
Date

Name: Dr. Derhsing Luu
Official Title: Technical Director

CLIENT: Golder
Project: 1H21 Coleta Creek
Lab Order: 2106204

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

- Method SW6020B - Metals Analysis
 - Method SW7470A - Mercury Analysis
 - Method E300 - Anions Analysis
 - Method M2540C - TDS Analysis
 - Sub-contract - Radium-228 and Radium-226 analyses by methods E904 and SM 7500 Ra B M.
- Analyzed at Pace Analytical.

Exception Report R1-01

The samples were received and log-in performed on 6/26/21. A total of 7 samples were received. The samples arrived in good condition and were properly packaged.

Exception Report R7-03

For Anions analysis performed on 7/1/21 the matrix spikes and matrix spike duplicate recoveries (2106204-01MS/MSD & 2106204-02 MS/MSD) were slightly below control limits for Sulfate. These are flagged accordingly in the QC summary report. The samples selected for the matrix spikes and matrix spike duplicates (2106204-01MS/MSD & 2106204-02 MS/MSD) were from this work order. The LCS was within control limits for this analyte. No further corrective actions were taken.

For Metals analysis performed on 6/30/21 the matrix spike and matrix spike duplicate recoveries were below control limits for Boron and/or Lithium. These are flagged accordingly. The sample selected for the matrix spike and matrix spike duplicate was not from this work order. The LCS was within control limits for these analytes. No further corrective actions were taken.

Exception Report S9-01

For Metals analysis performed on 6/30/21 the PDS recovery was slightly below control limits for Lithium. This is flagged accordingly in the QC summary report. The serial dilution was within control limits for this analyte. No further corrective actions were taken.

CLIENT: Golder
Project: 1H21 Coleta Creek
Lab Order: 2106204

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
2106204-01	MW-8		06/25/21 09:30 AM	6/26/2021
2106204-02	MW-6		06/25/21 10:55 AM	6/26/2021
2106204-03	MW-11		06/25/21 12:00 PM	6/26/2021
2106204-04	MW-101		06/25/21 12:10 PM	6/26/2021
2106204-05	MW-9		06/25/21 01:00 PM	6/26/2021
2106204-06	MW-10		06/25/21 01:50 PM	6/26/2021
2106204-07	MW-5		06/25/21 03:00 PM	6/26/2021

Lab Order: 2106204
 Client: Golder
 Project: 1H21 Coletto Creek

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
2106204-01A	MW-8	06/25/21 09:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/29/21 09:15 AM	101062
	MW-8	06/25/21 09:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/29/21 09:15 AM	101062
	MW-8	06/25/21 09:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/29/21 09:15 AM	101062
	MW-8	06/25/21 09:30 AM	Aqueous	SW7470A	Mercury Aq Prep	06/29/21 11:08 AM	101070
2106204-01B	MW-8	06/25/21 09:30 AM	Aqueous	E300	Anion Preparation	07/01/21 10:49 AM	101094
	MW-8	06/25/21 09:30 AM	Aqueous	E300	Anion Preparation	07/01/21 10:49 AM	101094
	MW-8	06/25/21 09:30 AM	Aqueous	M2540C	TDS Preparation	06/28/21 11:30 AM	101038
2106204-02A	MW-6	06/25/21 10:55 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/29/21 09:15 AM	101062
	MW-6	06/25/21 10:55 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/29/21 09:15 AM	101062
	MW-6	06/25/21 10:55 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/29/21 09:15 AM	101062
	MW-6	06/25/21 10:55 AM	Aqueous	SW7470A	Mercury Aq Prep	06/29/21 11:08 AM	101070
2106204-02B	MW-6	06/25/21 10:55 AM	Aqueous	E300	Anion Preparation	07/01/21 10:49 AM	101094
	MW-6	06/25/21 10:55 AM	Aqueous	E300	Anion Preparation	07/01/21 10:49 AM	101094
	MW-6	06/25/21 10:55 AM	Aqueous	M2540C	TDS Preparation	06/28/21 11:30 AM	101038
2106204-03A	MW-11	06/25/21 12:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/29/21 09:15 AM	101062
	MW-11	06/25/21 12:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/29/21 09:15 AM	101062
	MW-11	06/25/21 12:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/29/21 09:15 AM	101062
	MW-11	06/25/21 12:00 PM	Aqueous	SW7470A	Mercury Aq Prep	06/29/21 11:08 AM	101070
2106204-03B	MW-11	06/25/21 12:00 PM	Aqueous	E300	Anion Preparation	07/01/21 10:49 AM	101094
	MW-11	06/25/21 12:00 PM	Aqueous	E300	Anion Preparation	07/01/21 10:49 AM	101094
	MW-11	06/25/21 12:00 PM	Aqueous	M2540C	TDS Preparation	06/28/21 11:30 AM	101038
2106204-04A	MW-101	06/25/21 12:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/29/21 09:15 AM	101062
	MW-101	06/25/21 12:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/29/21 09:15 AM	101062
	MW-101	06/25/21 12:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/29/21 09:15 AM	101062
	MW-101	06/25/21 12:10 PM	Aqueous	SW7470A	Mercury Aq Prep	06/29/21 11:08 AM	101070
2106204-04B	MW-101	06/25/21 12:10 PM	Aqueous	E300	Anion Preparation	07/01/21 10:49 AM	101094
	MW-101	06/25/21 12:10 PM	Aqueous	E300	Anion Preparation	07/01/21 10:49 AM	101094
	MW-101	06/25/21 12:10 PM	Aqueous	M2540C	TDS Preparation	06/28/21 11:30 AM	101038

Lab Order: 2106204
 Client: Golder
 Project: 1H21 Coletto Creek

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
2106204-05A	MW-9	06/25/21 01:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/29/21 09:15 AM	101062
	MW-9	06/25/21 01:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/29/21 09:15 AM	101062
	MW-9	06/25/21 01:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/29/21 09:15 AM	101062
	MW-9	06/25/21 01:00 PM	Aqueous	SW7470A	Mercury Aq Prep	06/29/21 11:08 AM	101070
2106204-05B	MW-9	06/25/21 01:00 PM	Aqueous	E300	Anion Preparation	07/01/21 10:49 AM	101094
	MW-9	06/25/21 01:00 PM	Aqueous	E300	Anion Preparation	07/01/21 10:49 AM	101094
	MW-9	06/25/21 01:00 PM	Aqueous	M2540C	TDS Preparation	06/28/21 11:30 AM	101038
2106204-06A	MW-10	06/25/21 01:50 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/29/21 09:15 AM	101062
	MW-10	06/25/21 01:50 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/29/21 09:15 AM	101062
	MW-10	06/25/21 01:50 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/29/21 09:15 AM	101062
	MW-10	06/25/21 01:50 PM	Aqueous	SW7470A	Mercury Aq Prep	06/29/21 11:08 AM	101070
2106204-06B	MW-10	06/25/21 01:50 PM	Aqueous	E300	Anion Preparation	07/01/21 10:49 AM	101094
	MW-10	06/25/21 01:50 PM	Aqueous	E300	Anion Preparation	07/01/21 10:49 AM	101094
	MW-10	06/25/21 01:50 PM	Aqueous	M2540C	TDS Preparation	06/28/21 11:30 AM	101038
2106204-07A	MW-5	06/25/21 03:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/29/21 09:15 AM	101062
	MW-5	06/25/21 03:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/29/21 09:15 AM	101062
	MW-5	06/25/21 03:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/29/21 09:15 AM	101062
	MW-5	06/25/21 03:00 PM	Aqueous	SW7470A	Mercury Aq Prep	06/29/21 11:08 AM	101070
2106204-07B	MW-5	06/25/21 03:00 PM	Aqueous	E300	Anion Preparation	07/01/21 10:49 AM	101094
	MW-5	06/25/21 03:00 PM	Aqueous	E300	Anion Preparation	07/01/21 10:49 AM	101094
	MW-5	06/25/21 03:00 PM	Aqueous	M2540C	TDS Preparation	06/28/21 11:30 AM	101038

Lab Order: 2106204
 Client: Golder
 Project: 1H21 Coletto Creek

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
2106204-01A	MW-8	Aqueous	SW7470A	Mercury Total: Aqueous	101070	1	07/01/21 10:56 AM	CETAC2_HG_210701 B
	MW-8	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	101062	5	06/30/21 02:36 PM	ICP-MS4_210630A
	MW-8	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	101062	1	06/30/21 03:28 PM	ICP-MS4_210630A
	MW-8	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	101062	1	06/30/21 01:13 PM	ICP-MS5_210630A
2106204-01B	MW-8	Aqueous	E300	Anions by IC method - Water	101094	10	07/01/21 04:47 PM	IC2_210701B
	MW-8	Aqueous	E300	Anions by IC method - Water	101094	1	07/01/21 11:27 PM	IC2_210701B
	MW-8	Aqueous	M2540C	Total Dissolved Solids	101038	1	06/28/21 04:30 PM	WC_210628C
2106204-02A	MW-6	Aqueous	SW7470A	Mercury Total: Aqueous	101070	1	07/01/21 10:59 AM	CETAC2_HG_210701 B
	MW-6	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	101062	5	06/30/21 02:38 PM	ICP-MS4_210630A
	MW-6	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	101062	1	06/30/21 03:30 PM	ICP-MS4_210630A
	MW-6	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	101062	1	06/30/21 01:16 PM	ICP-MS5_210630A
2106204-02B	MW-6	Aqueous	E300	Anions by IC method - Water	101094	10	07/01/21 05:35 PM	IC2_210701B
	MW-6	Aqueous	E300	Anions by IC method - Water	101094	1	07/01/21 11:43 PM	IC2_210701B
	MW-6	Aqueous	M2540C	Total Dissolved Solids	101038	1	06/28/21 04:30 PM	WC_210628C
2106204-03A	MW-11	Aqueous	SW7470A	Mercury Total: Aqueous	101070	1	07/01/21 11:10 AM	CETAC2_HG_210701 B
	MW-11	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	101062	5	06/30/21 02:57 PM	ICP-MS4_210630A
	MW-11	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	101062	1	06/30/21 03:32 PM	ICP-MS4_210630A
	MW-11	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	101062	1	06/30/21 01:18 PM	ICP-MS5_210630A
2106204-03B	MW-11	Aqueous	E300	Anions by IC method - Water	101094	10	07/01/21 06:23 PM	IC2_210701B
	MW-11	Aqueous	E300	Anions by IC method - Water	101094	1	07/01/21 11:59 PM	IC2_210701B
	MW-11	Aqueous	M2540C	Total Dissolved Solids	101038	1	06/28/21 04:30 PM	WC_210628C
2106204-04A	MW-101	Aqueous	SW7470A	Mercury Total: Aqueous	101070	1	07/01/21 11:12 AM	CETAC2_HG_210701 B
	MW-101	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	101062	1	06/30/21 01:21 PM	ICP-MS5_210630A
	MW-101	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	101062	5	06/30/21 02:59 PM	ICP-MS4_210630A
	MW-101	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	101062	1	06/30/21 03:34 PM	ICP-MS4_210630A
2106204-04B	MW-101	Aqueous	E300	Anions by IC method - Water	101094	1	07/02/21 01:35 AM	IC2_210701B

Lab Order: 2106204
 Client: Golder
 Project: 1H21 Coleta Creek

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
2106204-04B	MW-101	Aqueous	E300	Anions by IC method - Water	101094	10	07/01/21 06:39 PM	IC2_210701B
	MW-101	Aqueous	M2540C	Total Dissolved Solids	101038	1	06/28/21 04:30 PM	WC_210628C
2106204-05A	MW-9	Aqueous	SW7470A	Mercury Total: Aqueous	101070	1	07/01/21 11:14 AM	CETAC2_HG_210701B
	MW-9	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	101062	5	06/30/21 03:01 PM	ICP-MS4_210630A
	MW-9	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	101062	1	06/30/21 03:36 PM	ICP-MS4_210630A
	MW-9	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	101062	1	06/30/21 02:16 PM	ICP-MS5_210630A
2106204-05B	MW-9	Aqueous	E300	Anions by IC method - Water	101094	10	07/01/21 06:55 PM	IC2_210701B
	MW-9	Aqueous	E300	Anions by IC method - Water	101094	1	07/02/21 01:51 AM	IC2_210701B
	MW-9	Aqueous	M2540C	Total Dissolved Solids	101038	1	06/28/21 04:30 PM	WC_210628C
2106204-06A	MW-10	Aqueous	SW7470A	Mercury Total: Aqueous	101070	1	07/01/21 11:21 AM	CETAC2_HG_210701B
	MW-10	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	101062	1	06/30/21 02:19 PM	ICP-MS5_210630A
	MW-10	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	101062	5	06/30/21 03:03 PM	ICP-MS4_210630A
	MW-10	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	101062	1	06/30/21 03:38 PM	ICP-MS4_210630A
2106204-06B	MW-10	Aqueous	E300	Anions by IC method - Water	101094	10	07/01/21 07:11 PM	IC2_210701B
	MW-10	Aqueous	E300	Anions by IC method - Water	101094	1	07/02/21 02:07 AM	IC2_210701B
	MW-10	Aqueous	M2540C	Total Dissolved Solids	101038	1	06/28/21 04:30 PM	WC_210628C
2106204-07A	MW-5	Aqueous	SW7470A	Mercury Total: Aqueous	101070	1	07/01/21 11:24 AM	CETAC2_HG_210701B
	MW-5	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	101062	5	06/30/21 03:05 PM	ICP-MS4_210630A
	MW-5	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	101062	1	06/30/21 03:40 PM	ICP-MS4_210630A
	MW-5	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	101062	1	06/30/21 02:21 PM	ICP-MS5_210630A
2106204-07B	MW-5	Aqueous	E300	Anions by IC method - Water	101094	10	07/01/21 07:27 PM	IC2_210701B
	MW-5	Aqueous	E300	Anions by IC method - Water	101094	1	07/02/21 02:23 AM	IC2_210701B
	MW-5	Aqueous	M2540C	Total Dissolved Solids	101038	1	06/28/21 04:30 PM	WC_210628C

DHL Analytical, Inc.

Date: 30-Jul-21

CLIENT: Golder
Project: 1H21 Coleta Creek
Project No: 19122262-B2021
Lab Order: 2106204

Client Sample ID: MW-8
Lab ID: 2106204-01
Collection Date: 06/25/21 09:30 AM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		SW6020B			Analyst: SP		
Antimony	<0.000800	0.000800	0.00250		mg/L	1	06/30/21 01:13 PM
Arsenic	0.0104	0.00200	0.00500		mg/L	1	06/30/21 01:13 PM
Barium	0.0806	0.00300	0.0100		mg/L	1	06/30/21 01:13 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	06/30/21 03:28 PM
Boron	0.863	0.0500	0.150		mg/L	5	06/30/21 02:36 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	06/30/21 01:13 PM
Calcium	80.1	0.500	1.50		mg/L	5	06/30/21 02:36 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	06/30/21 01:13 PM
Cobalt	0.0130	0.00300	0.00500		mg/L	1	06/30/21 01:13 PM
Lead	0.000761	0.000300	0.00100	J	mg/L	1	06/30/21 01:13 PM
Lithium	0.0105	0.00500	0.0100		mg/L	1	06/30/21 03:28 PM
Molybdenum	0.0118	0.00200	0.00500		mg/L	1	06/30/21 01:13 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	06/30/21 01:13 PM
Thallium	<0.000500	0.000500	0.00150		mg/L	1	06/30/21 01:13 PM
MERCURY TOTAL: AQUEOUS		SW7470A			Analyst: JVR		
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	07/01/21 10:56 AM
ANIONS BY IC METHOD - WATER		E300			Analyst: BM		
Chloride	53.2	3.00	10.0		mg/L	70	07/01/21 04:47 PM
Fluoride	0.673	0.100	0.400		mg/L	1	07/01/21 11:27 PM
Sulfate	58.8	1.00	3.00		mg/L	1	07/01/21 11:27 PM
TOTAL DISSOLVED SOLIDS		M2540C			Analyst: JS		
Total Dissolved Solids (Residue, Filterable)	489	10.0	10.0		mg/L	1	06/28/21 04:30 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 30-Jul-21

CLIENT: Golder
Project: 1H21 Coleta Creek
Project No: 19122262-B2021
Lab Order: 2106204

Client Sample ID: MW-6
Lab ID: 2106204-02
Collection Date: 06/25/21 10:55 AM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		SW6020B		Analyst: SP			
Antimony	<0.000800	0.000800	0.00250		mg/L	1	06/30/21 01:16 PM
Arsenic	0.00778	0.00200	0.00500		mg/L	1	06/30/21 01:16 PM
Barium	0.0860	0.00300	0.0100		mg/L	1	06/30/21 01:16 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	06/30/21 03:30 PM
Boron	1.75	0.0500	0.150		mg/L	5	06/30/21 02:38 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	06/30/21 01:16 PM
Calcium	79.1	0.500	1.50		mg/L	5	06/30/21 02:38 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	06/30/21 01:16 PM
Cobalt	<0.00300	0.00300	0.00500		mg/L	1	06/30/21 01:16 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	06/30/21 01:16 PM
Lithium	0.0101	0.00500	0.0100		mg/L	1	06/30/21 03:30 PM
Molybdenum	0.00823	0.00200	0.00500		mg/L	1	06/30/21 01:16 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	06/30/21 01:16 PM
Thallium	<0.000500	0.000500	0.00150		mg/L	1	06/30/21 01:16 PM
MERCURY TOTAL: AQUEOUS		SW7470A		Analyst: JVR			
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	07/01/21 10:59 AM
ANIONS BY IC METHOD - WATER		E300		Analyst: BM			
Chloride	72.7	3.00	10.0		mg/L	70	07/01/21 05:35 PM
Fluoride	0.542	0.100	0.400		mg/L	1	07/01/21 11:43 PM
Sulfate	89.2	1.00	3.00		mg/L	1	07/01/21 11:43 PM
TOTAL DISSOLVED SOLIDS		M2540C		Analyst: JS			
Total Dissolved Solids (Residue, Filterable)	503	10.0	10.0		mg/L	1	06/28/21 04:30 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 30-Jul-21

CLIENT: Golder
Project: 1H21 Coleta Creek
Project No: 19122262-B2021
Lab Order: 2106204

Client Sample ID: MW-11
Lab ID: 2106204-03
Collection Date: 06/25/21 12:00 PM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		SW6020B		Analyst: SP			
Antimony	<0.000800	0.000800	0.00250		mg/L	1	06/30/21 01:18 PM
Arsenic	0.0136	0.00200	0.00500		mg/L	1	06/30/21 01:18 PM
Barium	0.0900	0.00300	0.0100		mg/L	1	06/30/21 01:18 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	06/30/21 03:32 PM
Boron	0.925	0.0500	0.150		mg/L	5	06/30/21 02:57 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	06/30/21 01:18 PM
Calcium	59.1	0.500	1.50		mg/L	5	06/30/21 02:57 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	06/30/21 01:18 PM
Cobalt	<0.00300	0.00300	0.00500		mg/L	1	06/30/21 01:18 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	06/30/21 01:18 PM
Lithium	0.0162	0.00500	0.0100		mg/L	1	06/30/21 03:32 PM
Molybdenum	0.0190	0.00200	0.00500		mg/L	1	06/30/21 01:18 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	06/30/21 01:18 PM
Thallium	<0.000500	0.000500	0.00150		mg/L	1	06/30/21 01:18 PM
MERCURY TOTAL: AQUEOUS		SW7470A		Analyst: JVR			
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	07/01/21 11:10 AM
ANIONS BY IC METHOD - WATER		E300		Analyst: BM			
Chloride	74.6	3.00	10.0		mg/L	10	07/01/21 06:23 PM
Fluoride	0.876	0.100	0.400		mg/L	1	07/01/21 11:59 PM
Sulfate	55.9	1.00	3.00		mg/L	1	07/01/21 11:59 PM
TOTAL DISSOLVED SOLIDS		M2540C		Analyst: JS			
Total Dissolved Solids (Residue, Filterable)	400	10.0	10.0		mg/L	1	06/28/21 04:30 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 30-Jul-21

CLIENT: Golder
Project: 1H21 Coleta Creek
Project No: 19122262-B2021
Lab Order: 2106204

Client Sample ID: MW-101
Lab ID: 2106204-04
Collection Date: 06/25/21 12:10 PM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		SW6020B		Analyst: SP			
Antimony	<0.000800	0.000800	0.00250		mg/L	1	06/30/21 01:21 PM
Arsenic	0.0134	0.00200	0.00500		mg/L	1	06/30/21 01:21 PM
Barium	0.0905	0.00300	0.0100		mg/L	1	06/30/21 01:21 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	06/30/21 03:34 PM
Boron	0.980	0.0500	0.150		mg/L	5	06/30/21 02:59 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	06/30/21 01:21 PM
Calcium	59.3	0.500	1.50		mg/L	5	06/30/21 02:59 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	06/30/21 01:21 PM
Cobalt	<0.00300	0.00300	0.00500		mg/L	1	06/30/21 01:21 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	06/30/21 01:21 PM
Lithium	0.0148	0.00500	0.0100		mg/L	1	06/30/21 03:34 PM
Molybdenum	0.0194	0.00200	0.00500		mg/L	1	06/30/21 01:21 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	06/30/21 01:21 PM
Thallium	<0.000500	0.000500	0.00150		mg/L	1	06/30/21 01:21 PM
MERCURY TOTAL: AQUEOUS		SW7470A		Analyst: JVR			
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	07/01/21 11:12 AM
ANIONS BY IC METHOD - WATER		E300		Analyst: BM			
Chloride	74.8	3.00	10.0		mg/L	70	07/01/21 06:39 PM
Fluoride	0.865	0.100	0.400		mg/L	1	07/02/21 01:35 AM
Sulfate	56.2	1.00	3.00		mg/L	1	07/02/21 01:35 AM
TOTAL DISSOLVED SOLIDS		M2540C		Analyst: JS			
Total Dissolved Solids (Residue, Filterable)	397	10.0	10.0		mg/L	1	06/28/21 04:30 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 30-Jul-21

CLIENT: Golder
Project: 1H21 Coleta Creek
Project No: 19122262-B2021
Lab Order: 2106204

Client Sample ID: MW-9
Lab ID: 2106204-05
Collection Date: 06/25/21 01:00 PM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		SW6020B			Analyst: SP		
Antimony	<0.000800	0.000800	0.00250		mg/L	1	06/30/21 02:16 PM
Arsenic	0.0151	0.00200	0.00500		mg/L	1	06/30/21 02:16 PM
Barium	0.163	0.00300	0.0100		mg/L	1	06/30/21 02:16 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	06/30/21 03:36 PM
Boron	0.882	0.0500	0.150		mg/L	5	06/30/21 03:01 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	06/30/21 02:16 PM
Calcium	83.6	0.500	1.50		mg/L	5	06/30/21 03:01 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	06/30/21 02:16 PM
Cobalt	<0.00300	0.00300	0.00500		mg/L	1	06/30/21 02:16 PM
Lead	0.000408	0.000300	0.00100	J	mg/L	1	06/30/21 02:16 PM
Lithium	0.0103	0.00500	0.0100		mg/L	1	06/30/21 03:36 PM
Molybdenum	0.0199	0.00200	0.00500		mg/L	1	06/30/21 02:16 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	06/30/21 02:16 PM
Thallium	<0.000500	0.000500	0.00150		mg/L	1	06/30/21 02:16 PM
MERCURY TOTAL: AQUEOUS		SW7470A			Analyst: JVR		
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	07/01/21 11:14 AM
ANIONS BY IC METHOD - WATER		E300			Analyst: BM		
Chloride	77.6	3.00	10.0		mg/L	10	07/01/21 06:55 PM
Fluoride	0.907	0.100	0.400		mg/L	1	07/02/21 01:51 AM
Sulfate	100	1.00	3.00		mg/L	1	07/02/21 01:51 AM
TOTAL DISSOLVED SOLIDS		M2540C			Analyst: JS		
Total Dissolved Solids (Residue, Filterable)	508	10.0	10.0		mg/L	1	06/28/21 04:30 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 30-Jul-21

CLIENT: Golder
Project: 1H21 Coleta Creek
Project No: 19122262-B2021
Lab Order: 2106204

Client Sample ID: MW-10
Lab ID: 2106204-06
Collection Date: 06/25/21 01:50 PM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		SW6020B		Analyst: SP			
Antimony	<0.000800	0.000800	0.00250		mg/L	1	06/30/21 02:19 PM
Arsenic	0.00942	0.00200	0.00500		mg/L	1	06/30/21 02:19 PM
Barium	0.0792	0.00300	0.0100		mg/L	1	06/30/21 02:19 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	06/30/21 03:38 PM
Boron	1.97	0.0500	0.150		mg/L	5	06/30/21 03:03 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	06/30/21 02:19 PM
Calcium	107	0.500	1.50		mg/L	5	06/30/21 03:03 PM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	06/30/21 02:19 PM
Cobalt	<0.00300	0.00300	0.00500		mg/L	1	06/30/21 02:19 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	06/30/21 02:19 PM
Lithium	0.0180	0.00500	0.0100		mg/L	1	06/30/21 03:38 PM
Molybdenum	0.0181	0.00200	0.00500		mg/L	1	06/30/21 02:19 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	06/30/21 02:19 PM
Thallium	<0.000500	0.000500	0.00150		mg/L	1	06/30/21 02:19 PM
MERCURY TOTAL: AQUEOUS		SW7470A		Analyst: JVR			
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	07/01/21 11:21 AM
ANIONS BY IC METHOD - WATER		E300		Analyst: BM			
Chloride	154	3.00	10.0		mg/L	10	07/01/21 07:11 PM
Fluoride	0.717	0.100	0.400		mg/L	1	07/02/21 02:07 AM
Sulfate	141	1.00	3.00		mg/L	1	07/02/21 02:07 AM
TOTAL DISSOLVED SOLIDS		M2540C		Analyst: JS			
Total Dissolved Solids (Residue, Filterable)	806	10.0	10.0		mg/L	1	06/28/21 04:30 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 30-Jul-21

CLIENT: Golder
Project: 1H21 Coleta Creek
Project No: 19122262-B2021
Lab Order: 2106204

Client Sample ID: MW-5
Lab ID: 2106204-07
Collection Date: 06/25/21 03:00 PM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		SW6020B		Analyst: SP			
Antimony	<0.000800	0.000800	0.00250		mg/L	1	06/30/21 02:21 PM
Arsenic	0.00918	0.00200	0.00500		mg/L	1	06/30/21 02:21 PM
Barium	0.0652	0.00300	0.0100		mg/L	1	06/30/21 02:21 PM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	06/30/21 03:40 PM
Boron	0.181	0.0500	0.150		mg/L	5	06/30/21 03:05 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	06/30/21 02:21 PM
Calcium	120	0.500	1.50		mg/L	5	06/30/21 03:05 PM
Chromium	0.00913	0.00200	0.00500		mg/L	1	06/30/21 02:21 PM
Cobalt	<0.00300	0.00300	0.00500		mg/L	1	06/30/21 02:21 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	06/30/21 02:21 PM
Lithium	0.0189	0.00500	0.0100		mg/L	1	06/30/21 03:40 PM
Molybdenum	<0.00200	0.00200	0.00500		mg/L	1	06/30/21 02:21 PM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	06/30/21 02:21 PM
Thallium	<0.000500	0.000500	0.00150		mg/L	1	06/30/21 02:21 PM
MERCURY TOTAL: AQUEOUS		SW7470A		Analyst: JVR			
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	07/01/21 11:24 AM
ANIONS BY IC METHOD - WATER		E300		Analyst: BM			
Chloride	135	3.00	10.0		mg/L	10	07/01/21 07:27 PM
Fluoride	0.661	0.100	0.400		mg/L	1	07/02/21 02:23 AM
Sulfate	173	10.0	30.0		mg/L	10	07/01/21 07:27 PM
TOTAL DISSOLVED SOLIDS		M2540C		Analyst: JS			
Total Dissolved Solids (Residue, Filterable)	813	10.0	10.0		mg/L	1	06/28/21 04:30 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_210511A

Sample ID: DCS-100518	Batch ID: 100518	TestNo: SW7470A	Units: mg/L							
SampType: DCS	Run ID: CETAC2_HG_210511A	Analysis Date: 5/11/2021 1:32:27 PM	Prep Date: 5/10/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.000165	0.000200	0.000200	0	82.5	82	119	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_210701B

The QC data in batch 101070 applies to the following samples: 2106204-01A, 2106204-02A, 2106204-03A, 2106204-04A, 2106204-05A, 2106204-06A, 2106204-07A

Sample ID: MB-101070	Batch ID: 101070	TestNo: SW7470A	Units: mg/L							
SampType: MBLK	Run ID: CETAC2_HG_210701B	Analysis Date: 7/1/2021 10:38:41 AM	Prep Date: 6/29/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0000800	0.000200								

Sample ID: LCS-101070	Batch ID: 101070	TestNo: SW7470A	Units: mg/L							
SampType: LCS	Run ID: CETAC2_HG_210701B	Analysis Date: 7/1/2021 10:40:57 AM	Prep Date: 6/29/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00205	0.000200	0.00200	0	103	85	115			

Sample ID: LCSD-101070	Batch ID: 101070	TestNo: SW7470A	Units: mg/L							
SampType: LCSD	Run ID: CETAC2_HG_210701B	Analysis Date: 7/1/2021 10:43:13 AM	Prep Date: 6/29/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00201	0.000200	0.00200	0	101	85	115	1.97	15	

Sample ID: 2106204-02A MS	Batch ID: 101070	TestNo: SW7470A	Units: mg/L							
SampType: MS	Run ID: CETAC2_HG_210701B	Analysis Date: 7/1/2021 11:01:21 AM	Prep Date: 6/29/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00194	0.000200	0.00200	0	97.0	80	120			

Sample ID: 2106204-02A MSD	Batch ID: 101070	TestNo: SW7470A	Units: mg/L							
SampType: MSD	Run ID: CETAC2_HG_210701B	Analysis Date: 7/1/2021 11:03:36 AM	Prep Date: 6/29/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00195	0.000200	0.00200	0	97.5	80	120	0.514	15	

Sample ID: 2106204-02A SD	Batch ID: 101070	TestNo: SW7470A	Units: mg/L							
SampType: SD	Run ID: CETAC2_HG_210701B	Analysis Date: 7/1/2021 11:05:52 AM	Prep Date: 6/29/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.000400	0.00100	0	0				0	10	

Sample ID: 2106204-02A PDS	Batch ID: 101070	TestNo: SW7470A	Units: mg/L							
SampType: PDS	Run ID: CETAC2_HG_210701B	Analysis Date: 7/1/2021 11:08:08 AM	Prep Date: 6/29/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00251	0.000200	0.00250	0	100	85	115			

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
J Analyte detected between MDL and RL MDL Method Detection Limit
ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
RL Reporting Limit S Spike Recovery outside control limits
J Analyte detected between SDL and RL N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_210701B

Sample ID: ICV-210701	Batch ID: R116024	TestNo: SW7470A	Units: mg/L							
SampType: ICV	Run ID: CETAC2_HG_210701B	Analysis Date: 7/1/2021 10:34:07 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Mercury	0.00390	0.000200	0.00400	0	97.5	90	110			
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Sample ID: CCV1-210701	Batch ID: R116024	TestNo: SW7470A	Units: mg/L							
SampType: CCV	Run ID: CETAC2_HG_210701B	Analysis Date: 7/1/2021 11:17:14 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Mercury	0.00193	0.000200	0.00200	0	96.5	90	110			
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Sample ID: CCV2-210701	Batch ID: R116024	TestNo: SW7470A	Units: mg/L							
SampType: CCV	Run ID: CETAC2_HG_210701B	Analysis Date: 7/1/2021 11:44:33 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Mercury	0.00202	0.000200	0.00200	0	101	90	110			
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Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAP certified
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CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_210428A

Sample ID: DCS1-100323	Batch ID: 100323	TestNo: SW6020B	Units: mg/L							
SampType: DCS	Run ID: ICP-MS4_210428A	Analysis Date: 4/28/2021 10:32:00 AM	Prep Date: 4/27/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Beryllium	0.000512	0.00100	0.000500	0	102	70	130	0	0
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Sample ID: DCS2-100323	Batch ID: 100323	TestNo: SW6020B	Units: mg/L							
SampType: DCS2	Run ID: ICP-MS4_210428A	Analysis Date: 4/28/2021 10:34:00 AM	Prep Date: 4/27/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Calcium	0.302	0.300	0.300	0	101	70	130	0	0
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Sample ID: DCS3-100323	Batch ID: 100323	TestNo: SW6020B	Units: mg/L							
SampType: DCS3	Run ID: ICP-MS4_210428A	Analysis Date: 4/28/2021 10:36:00 AM	Prep Date: 4/27/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Lithium	0.00533	0.0100	0.00500	0	107	70	130	0	0
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Sample ID: DCS4-100323	Batch ID: 100323	TestNo: SW6020B	Units: mg/L							
SampType: DCS4	Run ID: ICP-MS4_210428A	Analysis Date: 4/28/2021 10:39:00 AM	Prep Date: 4/27/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Boron	0.0310	0.0300	0.0300	0	103	70	130	0	0
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Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_210630A

The QC data in batch 101062 applies to the following samples: 2106204-01A, 2106204-02A, 2106204-03A, 2106204-04A, 2106204-05A, 2106204-06A, 2106204-07A

Sample ID: MB-101062	Batch ID: 101062	TestNo: SW6020B	Units: mg/L
SampType: MBLK	Run ID: ICP-MS4_210630A	Analysis Date: 6/30/2021 2:10:00 PM	Prep Date: 6/29/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	<0.000300	0.00100								
Boron	<0.0100	0.0300								
Calcium	<0.100	0.300								
Lithium	<0.00500	0.0100								

Sample ID: LCS-101062	Batch ID: 101062	TestNo: SW6020B	Units: mg/L
SampType: LCS	Run ID: ICP-MS4_210630A	Analysis Date: 6/30/2021 2:12:00 PM	Prep Date: 6/29/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	0.204	0.00100	0.200	0	102	80	120			
Boron	0.197	0.0300	0.200	0	98.3	80	120			
Calcium	5.21	0.300	5.00	0	104	80	120			
Lithium	0.204	0.0100	0.200	0	102	80	120			

Sample ID: LCSD-101062	Batch ID: 101062	TestNo: SW6020B	Units: mg/L
SampType: LCSD	Run ID: ICP-MS4_210630A	Analysis Date: 6/30/2021 2:14:00 PM	Prep Date: 6/29/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	0.207	0.00100	0.200	0	103	80	120	1.16	15	
Boron	0.205	0.0300	0.200	0	103	80	120	4.26	15	
Calcium	5.12	0.300	5.00	0	102	80	120	1.75	15	
Lithium	0.208	0.0100	0.200	0	104	80	120	1.86	15	

Sample ID: 2106175-03A SD	Batch ID: 101062	TestNo: SW6020B	Units: mg/L
SampType: SD	Run ID: ICP-MS4_210630A	Analysis Date: 6/30/2021 2:55:00 PM	Prep Date: 6/29/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	4.68	3.00	0	3.91				18.0	20	
Calcium	60.2	30.0	0	60.3				0.044	20	

Sample ID: 2106175-03A PDS	Batch ID: 101062	TestNo: SW6020B	Units: mg/L
SampType: PDS	Run ID: ICP-MS4_210630A	Analysis Date: 6/30/2021 3:08:00 PM	Prep Date: 6/29/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	7.47	0.600	4.00	3.91	89.1	75	125			
Calcium	161	6.00	100	60.3	101	75	125			

<p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAP certified</p>
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CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_210630A

Sample ID: 2106175-03A MS	Batch ID: 101062	TestNo: SW6020B	Units: mg/L							
SampType: MS	Run ID: ICP-MS4_210630A	Analysis Date: 6/30/2021 3:10:00 PM	Prep Date: 6/29/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	3.97	0.600	0.200	3.91	32.7	75	125			S
Calcium	65.2	6.00	5.00	60.3	99.6	75	125			

Sample ID: 2106175-03A MSD	Batch ID: 101062	TestNo: SW6020B	Units: mg/L							
SampType: MSD	Run ID: ICP-MS4_210630A	Analysis Date: 6/30/2021 3:12:00 PM	Prep Date: 6/29/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	4.02	0.600	0.200	3.91	56.2	75	125	1.18	15	S
Calcium	65.1	6.00	5.00	60.3	96.0	75	125	0.276	15	

Sample ID: 2106175-03A SD	Batch ID: 101062	TestNo: SW6020B	Units: mg/L							
SampType: SD	Run ID: ICP-MS4_210630A	Analysis Date: 6/30/2021 3:26:00 PM	Prep Date: 6/29/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	<0.00150	0.00500	0	0				0	20	
Lithium	0.386	0.0500	0	0.338				13.3	20	

Sample ID: 2106175-03A PDS	Batch ID: 101062	TestNo: SW6020B	Units: mg/L							
SampType: PDS	Run ID: ICP-MS4_210630A	Analysis Date: 6/30/2021 3:42:00 PM	Prep Date: 6/29/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	0.164	0.00100	0.200	0	81.9	75	125			
Lithium	0.472	0.0100	0.200	0.338	67.2	75	125			S

Sample ID: 2106175-03A MS	Batch ID: 101062	TestNo: SW6020B	Units: mg/L							
SampType: MS	Run ID: ICP-MS4_210630A	Analysis Date: 6/30/2021 3:44:00 PM	Prep Date: 6/29/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	0.168	0.00100	0.200	0	84.2	75	125			
Lithium	0.481	0.0100	0.200	0.338	71.5	75	125			S

Sample ID: 2106175-03A MSD	Batch ID: 101062	TestNo: SW6020B	Units: mg/L							
SampType: MSD	Run ID: ICP-MS4_210630A	Analysis Date: 6/30/2021 3:46:00 PM	Prep Date: 6/29/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	0.168	0.00100	0.200	0	84.2	75	125	0.076	15	
Lithium	0.500	0.0100	0.200	0.338	80.8	75	125	3.80	15	

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
J Analyte detected between MDL and RL MDL Method Detection Limit
ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
RL Reporting Limit S Spike Recovery outside control limits
J Analyte detected between SDL and RL N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_210630A

Sample ID: ICV-210630	Batch ID: R116018	TestNo: SW6020B	Units: mg/L							
SampType: ICV	Run ID: ICP-MS4_210630A	Analysis Date: 6/30/2021 12:54:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	0.102	0.00100	0.100	0	102	90	110			
Boron	0.104	0.0300	0.100	0	104	90	110			
Calcium	2.57	0.300	2.50	0	103	90	110			
Lithium	0.103	0.0100	0.100	0	103	90	110			

Sample ID: LCVL-210630	Batch ID: R116018	TestNo: SW6020B	Units: mg/L							
SampType: LCVL	Run ID: ICP-MS4_210630A	Analysis Date: 6/30/2021 1:07:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	0.00107	0.00100	0.00100	0	107	80	120			
Boron	0.0220	0.0300	0.0200	0	110	80	120			
Calcium	0.0893	0.300	0.100	0	89.3	80	120			
Lithium	0.0103	0.0100	0.0100	0	103	80	120			

Sample ID: CCV1-210630	Batch ID: R116018	TestNo: SW6020B	Units: mg/L							
SampType: CCV	Run ID: ICP-MS4_210630A	Analysis Date: 6/30/2021 2:46:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	0.199	0.00100	0.200	0	99.6	90	110			
Boron	0.197	0.0300	0.200	0	98.7	90	110			
Calcium	5.19	0.300	5.00	0	104	90	110			
Lithium	0.203	0.0100	0.200	0	102	90	110			

Sample ID: CCV2-210630	Batch ID: R116018	TestNo: SW6020B	Units: mg/L							
SampType: CCV	Run ID: ICP-MS4_210630A	Analysis Date: 6/30/2021 3:16:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	0.194	0.00100	0.200	0	97.1	90	110			
Boron	0.196	0.0300	0.200	0	98.1	90	110			
Calcium	5.12	0.300	5.00	0	102	90	110			
Lithium	0.195	0.0100	0.200	0	97.4	90	110			

Sample ID: CCV3-210630	Batch ID: R116018	TestNo: SW6020B	Units: mg/L							
SampType: CCV	Run ID: ICP-MS4_210630A	Analysis Date: 6/30/2021 3:51:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	0.194	0.00100	0.200	0	97.0	90	110			
Lithium	0.198	0.0100	0.200	0	98.8	90	110			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_210630A

Sample ID: CCV6-210630	Batch ID: R116018	TestNo: SW6020B	Units: mg/L
SampType: CCV	Run ID: ICP-MS4_210630A	Analysis Date: 6/30/2021 5:03:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.195	0.00250	0.200	0	97.3	90	110			
Arsenic	0.198	0.00500	0.200	0	99.0	90	110			
Barium	0.198	0.0100	0.200	0	99.0	90	110			
Beryllium	0.194	0.00100	0.200	0	97.2	90	110			
Cadmium	0.202	0.00100	0.200	0	101	90	110			
Chromium	0.207	0.00500	0.200	0	104	90	110			
Cobalt	0.191	0.00500	0.200	0	95.4	90	110			
Lead	0.199	0.00100	0.200	0	99.3	90	110			
Selenium	0.203	0.00500	0.200	0	102	90	110			
Thallium	0.200	0.00150	0.200	0	99.8	90	110			

Qualifiers:	B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAP certified
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CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_210428A

Sample ID: DCS1-100323	Batch ID: 100323	TestNo: SW6020B	Units: mg/L
SampType: DCS	Run ID: ICP-MS5_210428A	Analysis Date: 4/28/2021 10:49:00 AM	Prep Date: 4/27/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00105	0.00250	0.00100	0	105	70	130	0	0	
Cadmium	0.000461	0.00100	0.000500	0	92.2	70	130	0	0	
Lead	0.000474	0.00100	0.000500	0	94.8	70	130	0	0	
Thallium	0.000452	0.00150	0.000500	0	90.4	70	130	0	0	

Sample ID: DCS3-100323	Batch ID: 100323	TestNo: SW6020B	Units: mg/L
SampType: DCS3	Run ID: ICP-MS5_210428A	Analysis Date: 4/28/2021 10:56:00 AM	Prep Date: 4/27/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00467	0.00500	0.00500	0	93.3	70	130	0	0	
Barium	0.00472	0.0100	0.00500	0	94.4	70	130	0	0	
Chromium	0.00490	0.00500	0.00500	0	97.9	70	130	0	0	
Cobalt	0.00473	0.00500	0.00500	0	94.5	70	130	0	0	
Molybdenum	0.00482	0.00500	0.00500	0	96.4	70	130	0	0	
Selenium	0.00498	0.00500	0.00500	0	99.5	70	130	0	0	

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_210630A

The QC data in batch 101062 applies to the following samples: 2106204-01A, 2106204-02A, 2106204-03A, 2106204-04A, 2106204-05A, 2106204-06A, 2106204-07A

Sample ID: MB-101062	Batch ID: 101062	TestNo: SW6020B	Units: mg/L
SampType: MBLK	Run ID: ICP-MS5_210630A	Analysis Date: 6/30/2021 12:45:00 PM	Prep Date: 6/29/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.000800	0.00250								
Arsenic	<0.00200	0.00500								
Barium	<0.00300	0.0100								
Cadmium	<0.000300	0.00100								
Chromium	<0.00200	0.00500								
Cobalt	<0.00300	0.00500								
Lead	<0.000300	0.00100								
Molybdenum	<0.00200	0.00500								
Selenium	<0.00200	0.00500								
Thallium	<0.000500	0.00150								

Sample ID: LCS-101062	Batch ID: 101062	TestNo: SW6020B	Units: mg/L
SampType: LCS	Run ID: ICP-MS5_210630A	Analysis Date: 6/30/2021 12:48:00 PM	Prep Date: 6/29/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.202	0.00250	0.200	0	101	80	120			
Arsenic	0.208	0.00500	0.200	0	104	80	120			
Barium	0.203	0.0100	0.200	0	101	80	120			
Cadmium	0.203	0.00100	0.200	0	101	80	120			
Chromium	0.202	0.00500	0.200	0	101	80	120			
Cobalt	0.208	0.00500	0.200	0	104	80	120			
Lead	0.197	0.00100	0.200	0	98.5	80	120			
Molybdenum	0.210	0.00500	0.200	0	105	80	120			
Selenium	0.205	0.00500	0.200	0	102	80	120			
Thallium	0.194	0.00150	0.200	0	97.0	80	120			

Sample ID: LCSD-101062	Batch ID: 101062	TestNo: SW6020B	Units: mg/L
SampType: LCSD	Run ID: ICP-MS5_210630A	Analysis Date: 6/30/2021 12:50:00 PM	Prep Date: 6/29/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.204	0.00250	0.200	0	102	80	120	0.972	15	
Arsenic	0.207	0.00500	0.200	0	103	80	120	0.734	15	
Barium	0.203	0.0100	0.200	0	102	80	120	0.146	15	
Cadmium	0.205	0.00100	0.200	0	102	80	120	0.992	15	
Chromium	0.203	0.00500	0.200	0	102	80	120	0.738	15	
Cobalt	0.208	0.00500	0.200	0	104	80	120	0.003	15	
Lead	0.201	0.00100	0.200	0	100	80	120	1.91	15	
Molybdenum	0.211	0.00500	0.200	0	106	80	120	0.646	15	
Selenium	0.206	0.00500	0.200	0	103	80	120	0.448	15	

<p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAP certified</p>
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CLIENT: Golder
 Work Order: 2106204
 Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_210630A

Sample ID: LCSD-101062	Batch ID: 101062	TestNo: SW6020B	Units: mg/L							
SampType: LCSD	Run ID: ICP-MS5_210630A	Analysis Date: 6/30/2021 12:50:00 PM	Prep Date: 6/29/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Thallium	0.197	0.00150	0.200	0	98.6	80	120	1.59	15	

Sample ID: 2106175-03A SD	Batch ID: 101062	TestNo: SW6020B	Units: mg/L							
SampType: SD	Run ID: ICP-MS5_210630A	Analysis Date: 6/30/2021 12:58:00 PM	Prep Date: 6/29/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.00400	0.0125	0	0				0	20	
Arsenic	<0.0100	0.0250	0	0				0	20	
Barium	0.0152	0.0500	0	0.0158				3.94	20	
Cadmium	<0.00150	0.00500	0	0				0	20	
Chromium	<0.0100	0.0250	0	0				0	20	
Cobalt	<0.0150	0.0250	0	0				0	20	
Lead	<0.00150	0.00500	0	0				0	20	
Molybdenum	<0.0100	0.0250	0	0				0	20	
Selenium	<0.0100	0.0250	0	0				0	20	
Thallium	<0.00250	0.00750	0	0				0	20	

Sample ID: 2106175-03A PDS	Batch ID: 101062	TestNo: SW6020B	Units: mg/L							
SampType: PDS	Run ID: ICP-MS5_210630A	Analysis Date: 6/30/2021 1:34:00 PM	Prep Date: 6/29/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.196	0.00250	0.200	0	97.8	75	125			
Arsenic	0.184	0.00500	0.200	0	92.1	75	125			
Barium	0.216	0.0100	0.200	0.0158	100	75	125			
Cadmium	0.183	0.00100	0.200	0	91.6	75	125			
Chromium	0.190	0.00500	0.200	0	95.0	75	125			
Cobalt	0.187	0.00500	0.200	0	93.7	75	125			
Lead	0.200	0.00100	0.200	0	100	75	125			
Molybdenum	0.207	0.00500	0.200	0	103	75	125			
Selenium	0.213	0.00500	0.200	0	107	75	125			
Thallium	0.196	0.00150	0.200	0	98.1	75	125			

Sample ID: 2106175-03A MS	Batch ID: 101062	TestNo: SW6020B	Units: mg/L							
SampType: MS	Run ID: ICP-MS5_210630A	Analysis Date: 6/30/2021 1:37:00 PM	Prep Date: 6/29/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.200	0.00250	0.200	0	99.8	75	125			
Arsenic	0.195	0.00500	0.200	0	97.7	75	125			
Barium	0.219	0.0100	0.200	0.0158	102	75	125			
Cadmium	0.188	0.00100	0.200	0	93.8	75	125			
Chromium	0.192	0.00500	0.200	0	96.0	75	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: Golder
 Work Order: 2106204
 Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_210630A

Sample ID: 2106175-03A MS	Batch ID: 101062	TestNo: SW6020B	Units: mg/L
SampType: MS	Run ID: ICP-MS5_210630A	Analysis Date: 6/30/2021 1:37:00 PM	Prep Date: 6/29/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cobalt	0.192	0.00500	0.200	0	95.9	75	125			
Lead	0.206	0.00100	0.200	0	103	75	125			
Molybdenum	0.218	0.00500	0.200	0	109	75	125			
Selenium	0.221	0.00500	0.200	0	111	75	125			
Thallium	0.203	0.00150	0.200	0	102	75	125			

Sample ID: 2106175-03A MSD	Batch ID: 101062	TestNo: SW6020B	Units: mg/L
SampType: MSD	Run ID: ICP-MS5_210630A	Analysis Date: 6/30/2021 1:40:00 PM	Prep Date: 6/29/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.198	0.00250	0.200	0	99.2	75	125	0.597	15	
Arsenic	0.195	0.00500	0.200	0	97.3	75	125	0.458	15	
Barium	0.218	0.0100	0.200	0.0158	101	75	125	0.792	15	
Cadmium	0.186	0.00100	0.200	0	92.8	75	125	1.09	15	
Chromium	0.188	0.00500	0.200	0	93.9	75	125	2.21	15	
Cobalt	0.191	0.00500	0.200	0	95.4	75	125	0.482	15	
Lead	0.204	0.00100	0.200	0	102	75	125	0.912	15	
Molybdenum	0.216	0.00500	0.200	0	108	75	125	0.902	15	
Selenium	0.220	0.00500	0.200	0	110	75	125	0.632	15	
Thallium	0.202	0.00150	0.200	0	101	75	125	0.628	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: Golder
 Work Order: 2106204
 Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_210630A

Sample ID: ICV-210630	Batch ID: R116016	TestNo: SW6020B	Units: mg/L
SampType: ICV	Run ID: ICP-MS5_210630A	Analysis Date: 6/30/2021 10:59:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.101	0.00250	0.100	0	101	90	110			
Arsenic	0.0998	0.00500	0.100	0	99.8	90	110			
Barium	0.103	0.0100	0.100	0	103	90	110			
Cadmium	0.100	0.00100	0.100	0	100	90	110			
Chromium	0.101	0.00500	0.100	0	101	90	110			
Cobalt	0.102	0.00500	0.100	0	102	90	110			
Lead	0.0994	0.00100	0.100	0	99.4	90	110			
Molybdenum	0.0977	0.00500	0.100	0	97.7	90	110			
Selenium	0.101	0.00500	0.100	0	101	90	110			
Thallium	0.0966	0.00150	0.100	0	96.6	90	110			

Sample ID: LCVL-210630	Batch ID: R116016	TestNo: SW6020B	Units: mg/L
SampType: LCVL	Run ID: ICP-MS5_210630A	Analysis Date: 6/30/2021 11:08:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00188	0.00250	0.00200	0	94.0	80	120			
Arsenic	0.00480	0.00500	0.00500	0	96.1	80	120			
Barium	0.00498	0.0100	0.00500	0	99.7	80	120			
Cadmium	0.000935	0.00100	0.00100	0	93.5	80	120			
Chromium	0.00488	0.00500	0.00500	0	97.5	80	120			
Cobalt	0.00471	0.00500	0.00500	0	94.3	80	120			
Lead	0.00102	0.00100	0.00100	0	102	80	120			
Molybdenum	0.00499	0.00500	0.00500	0	99.9	80	120			
Selenium	0.00473	0.00500	0.00500	0	94.7	80	120			
Thallium	0.000960	0.00150	0.00100	0	96.0	80	120			

Sample ID: CCV2-210630	Batch ID: R116016	TestNo: SW6020B	Units: mg/L
SampType: CCV	Run ID: ICP-MS5_210630A	Analysis Date: 6/30/2021 12:29:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.203	0.00250	0.200	0	101	90	110			
Arsenic	0.201	0.00500	0.200	0	100	90	110			
Barium	0.198	0.0100	0.200	0	98.9	90	110			
Cadmium	0.199	0.00100	0.200	0	99.6	90	110			
Chromium	0.199	0.00500	0.200	0	99.7	90	110			
Cobalt	0.202	0.00500	0.200	0	101	90	110			
Lead	0.197	0.00100	0.200	0	98.6	90	110			
Molybdenum	0.204	0.00500	0.200	0	102	90	110			
Selenium	0.200	0.00500	0.200	0	99.8	90	110			
Thallium	0.191	0.00150	0.200	0	95.4	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_210630A

Sample ID: CCV3-210630	Batch ID: R116016	TestNo: SW6020B	Units: mg/L
SampType: CCV	Run ID: ICP-MS5_210630A	Analysis Date: 6/30/2021 2:09:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.199	0.00250	0.200	0	99.5	90	110			
Arsenic	0.198	0.00500	0.200	0	98.9	90	110			
Barium	0.195	0.0100	0.200	0	97.7	90	110			
Cadmium	0.199	0.00100	0.200	0	99.3	90	110			
Chromium	0.198	0.00500	0.200	0	98.9	90	110			
Cobalt	0.199	0.00500	0.200	0	99.5	90	110			
Lead	0.194	0.00100	0.200	0	96.8	90	110			
Molybdenum	0.202	0.00500	0.200	0	101	90	110			
Selenium	0.195	0.00500	0.200	0	97.3	90	110			
Thallium	0.189	0.00150	0.200	0	94.7	90	110			

Sample ID: CCV4-210630	Batch ID: R116016	TestNo: SW6020B	Units: mg/L
SampType: CCV	Run ID: ICP-MS5_210630A	Analysis Date: 6/30/2021 2:26:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.201	0.00250	0.200	0	100	90	110			
Arsenic	0.200	0.00500	0.200	0	100	90	110			
Barium	0.200	0.0100	0.200	0	99.8	90	110			
Cadmium	0.201	0.00100	0.200	0	101	90	110			
Chromium	0.199	0.00500	0.200	0	99.4	90	110			
Cobalt	0.203	0.00500	0.200	0	101	90	110			
Lead	0.196	0.00100	0.200	0	97.8	90	110			
Molybdenum	0.207	0.00500	0.200	0	103	90	110			
Selenium	0.194	0.00500	0.200	0	96.9	90	110			
Thallium	0.190	0.00150	0.200	0	95.1	90	110			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_210624A

Sample ID: DCS2-101017	Batch ID: 101017	TestNo: E300	Units: mg/L
SampType: DCS2	Run ID: IC2_210624A	Analysis Date: 6/24/2021 3:27:47 PM	Prep Date: 6/24/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	0.445	1.00	0.5000	0	89.0	70	130	0	0	
Fluoride	0.226	0.400	0.2000	0	113	70	130	0	0	
Sulfate	1.60	3.00	1.500	0	107	70	130	0	0	

Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAP certified
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CLIENT: Golder
 Work Order: 2106204
 Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_210701B

The QC data in batch 101094 applies to the following samples: 2106204-01B, 2106204-02B, 2106204-03B, 2106204-04B, 2106204-05B, 2106204-06B, 2106204-07B

Sample ID: MB-101094	Batch ID: 101094	TestNo: E300	Units: mg/L
SampType: MBLK	Run ID: IC2_210701B	Analysis Date: 7/1/2021 12:58:49 PM	Prep Date: 7/1/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	<0.300	1.00								
Fluoride	<0.100	0.400								
Sulfate	<1.00	3.00								

Sample ID: LCS-101094	Batch ID: 101094	TestNo: E300	Units: mg/L
SampType: LCS	Run ID: IC2_210701B	Analysis Date: 7/1/2021 1:14:49 PM	Prep Date: 7/1/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.86	1.00	10.00	0	98.6	90	110			
Fluoride	3.90	0.400	4.000	0	97.5	90	110			
Sulfate	29.3	3.00	30.00	0	97.7	90	110			

Sample ID: LCS-101094	Batch ID: 101094	TestNo: E300	Units: mg/L
SampType: LCS	Run ID: IC2_210701B	Analysis Date: 7/1/2021 1:30:49 PM	Prep Date: 7/1/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.85	1.00	10.00	0	98.5	90	110	0.103	20	
Fluoride	3.94	0.400	4.000	0	98.5	90	110	1.00	20	
Sulfate	29.2	3.00	30.00	0	97.4	90	110	0.327	20	

Sample ID: 2106204-01BMS	Batch ID: 101094	TestNo: E300	Units: mg/L
SampType: MS	Run ID: IC2_210701B	Analysis Date: 7/1/2021 5:03:34 PM	Prep Date: 7/1/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	247	10.0	200.0	53.18	96.9	90	110			
Fluoride	194	4.00	200.0	0	97.1	90	110			
Sulfate	222	30.0	200.0	54.52	83.5	90	110			S

Sample ID: 2106204-01BMSD	Batch ID: 101094	TestNo: E300	Units: mg/L
SampType: MSD	Run ID: IC2_210701B	Analysis Date: 7/1/2021 5:19:34 PM	Prep Date: 7/1/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	246	10.0	200.0	53.18	96.6	90	110	0.201	20	
Fluoride	194	4.00	200.0	0	97.1	90	110	0.021	20	
Sulfate	221	30.0	200.0	54.52	83.5	90	110	0.083	20	S

Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAP certified
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CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_210701B

Sample ID: 2106204-02BMS	Batch ID: 101094	TestNo: E300	Units: mg/L							
SampType: MS	Run ID: IC2_210701B	Analysis Date: 7/1/2021 5:51:34 PM	Prep Date: 7/1/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	263	10.0	200.0	72.74	95.1	90	110			
Fluoride	191	4.00	200.0	0	95.6	90	110			
Sulfate	245	30.0	200.0	78.71	83.3	90	110			S

Sample ID: 2106204-02BMSD	Batch ID: 101094	TestNo: E300	Units: mg/L							
SampType: MSD	Run ID: IC2_210701B	Analysis Date: 7/1/2021 6:07:34 PM	Prep Date: 7/1/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	266	10.0	200.0	72.74	96.5	90	110	1.09	20	
Fluoride	193	4.00	200.0	0	96.6	90	110	1.05	20	
Sulfate	248	30.0	200.0	78.71	84.8	90	110	1.23	20	S

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_210701B

Sample ID: ICV-210701	Batch ID: R116034	TestNo: E300	Units: mg/L
SampType: ICV	Run ID: IC2_210701B	Analysis Date: 7/1/2021 12:26:48 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	25.0	1.00	25.00	0	100	90	110			
Fluoride	9.93	0.400	10.00	0	99.3	90	110			
Sulfate	76.3	3.00	75.00	0	102	90	110			

Sample ID: CCV1-210701	Batch ID: R116034	TestNo: E300	Units: mg/L
SampType: CCV	Run ID: IC2_210701B	Analysis Date: 7/1/2021 9:03:34 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.93	1.00	10.00	0	99.3	90	110			
Fluoride	4.04	0.400	4.000	0	101	90	110			
Sulfate	29.4	3.00	30.00	0	98.1	90	110			

Sample ID: CCV2-210701	Batch ID: R116034	TestNo: E300	Units: mg/L
SampType: CCV	Run ID: IC2_210701B	Analysis Date: 7/2/2021 1:03:34 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	4.06	0.400	4.000	0	102	90	110			
Sulfate	29.2	3.00	30.00	0	97.2	90	110			

Sample ID: CCV3-210701	Batch ID: R116034	TestNo: E300	Units: mg/L
SampType: CCV	Run ID: IC2_210701B	Analysis Date: 7/2/2021 4:31:34 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	4.09	0.400	4.000	0	102	90	110			
Sulfate	29.5	3.00	30.00	0	98.5	90	110			

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: WC_210628C

The QC data in batch 101038 applies to the following samples: 2106204-01B, 2106204-02B, 2106204-03B, 2106204-04B, 2106204-05B, 2106204-06B, 2106204-07B

Sample ID: MB-101038	Batch ID: 101038	TestNo: M2540C	Units: mg/L							
SampType: MBLK	Run ID: WC_210628C	Analysis Date: 6/28/2021 4:30:00 PM	Prep Date: 6/28/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera		<10.0	10.0							

Sample ID: LCS-101038	Batch ID: 101038	TestNo: M2540C	Units: mg/L							
SampType: LCS	Run ID: WC_210628C	Analysis Date: 6/28/2021 4:30:00 PM	Prep Date: 6/28/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera		744	10.0	745.6	0	99.8	90	113		

Sample ID: 2106175-01C-DUP	Batch ID: 101038	TestNo: M2540C	Units: mg/L							
SampType: DUP	Run ID: WC_210628C	Analysis Date: 6/28/2021 4:30:00 PM	Prep Date: 6/28/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera		4130	50.0	0	4185			1.44	5	

Sample ID: 2106175-02C-DUP	Batch ID: 101038	TestNo: M2540C	Units: mg/L							
SampType: DUP	Run ID: WC_210628C	Analysis Date: 6/28/2021 4:30:00 PM	Prep Date: 6/28/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera		5540	50.0	0	5560			0.360	5	

Qualifiers:	<p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAP certified</p>
--------------------	---	--

CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

MQL SUMMARY REPORT

TestNo: E300	MDL	MQL
Analyte	mg/L	mg/L
Chloride	0.300	1.00
Fluoride	0.100	0.400
Sulfate	1.00	3.00

TestNo: SW6020B	MDL	MQL
Analyte	mg/L	mg/L
Antimony	0.000800	0.00250
Arsenic	0.00200	0.00500
Barium	0.00300	0.0100
Beryllium	0.000300	0.00100
Boron	0.0100	0.0300
Cadmium	0.000300	0.00100
Calcium	0.100	0.300
Chromium	0.00200	0.00500
Cobalt	0.00300	0.00500
Lead	0.000300	0.00100
Lithium	0.00500	0.0100
Molybdenum	0.00200	0.00500
Selenium	0.00200	0.00500
Thallium	0.000500	0.00150

TestNo: SW7470A	MDL	MQL
Analyte	mg/L	mg/L
Mercury	0.0000800	0.000200

TestNo: M2540C	MDL	MQL
Analyte	mg/L	mg/L
Total Dissolved Solids (Residue, Filt	10.0	10.0

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

July 29, 2021

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

DHL Analytical, Inc.

Sample Delivery Group: L1373251
Samples Received: 07/01/2021
Project Number:
Description:

Report To: John DuPont
2300 Double Creek Drive
Round Rock, TX 78664

Entire Report Reviewed By:



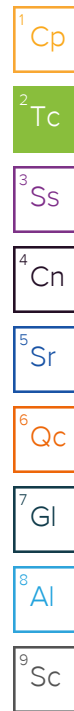
Donna Eidson
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

MW-8 L1373251-01 Non-Potable Water

Collected by
Collected date/time
Received date/time

06/25/21 09:30 07/01/21 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG1708601	1	07/21/21 14:40	07/27/21 13:45	JMR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1700230	1	07/26/21 10:47	07/27/21 13:45	JMR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1700230	1	07/26/21 10:47	07/27/21 10:59	RGT	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

MW-6 L1373251-02 Non-Potable Water

Collected by
Collected date/time
Received date/time

06/25/21 10:55 07/01/21 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG1708601	1	07/21/21 14:40	07/27/21 13:45	JMR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1700230	1	07/26/21 10:47	07/27/21 13:45	JMR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1700230	1	07/26/21 10:47	07/27/21 10:59	RGT	Mt. Juliet, TN

MW-11 L1373251-03 Non-Potable Water

Collected by
Collected date/time
Received date/time

06/25/21 12:00 07/01/21 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG1708601	1	07/21/21 14:40	07/27/21 13:45	JMR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1700230	1	07/26/21 10:47	07/27/21 13:45	JMR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1700230	1	07/26/21 10:47	07/27/21 10:59	RGT	Mt. Juliet, TN

MW-101 L1373251-04 Non-Potable Water

Collected by
Collected date/time
Received date/time

06/25/21 12:10 07/01/21 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG1708601	1	07/21/21 14:40	07/27/21 13:45	JMR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1700230	1	07/26/21 10:47	07/27/21 13:45	JMR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1700230	1	07/26/21 10:47	07/27/21 10:59	RGT	Mt. Juliet, TN

MW-9 L1373251-05 Non-Potable Water

Collected by
Collected date/time
Received date/time

06/25/21 13:00 07/01/21 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG1708601	1	07/21/21 14:40	07/27/21 13:45	JMR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1700230	1	07/26/21 10:47	07/27/21 13:45	JMR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1700230	1	07/26/21 10:47	07/27/21 10:59	RGT	Mt. Juliet, TN

MW-10 L1373251-06 Non-Potable Water

Collected by
Collected date/time
Received date/time

06/25/21 13:50 07/01/21 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG1708601	1	07/21/21 14:40	07/27/21 13:45	JMR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1700230	1	07/26/21 10:47	07/27/21 13:45	JMR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1700230	1	07/26/21 10:47	07/27/21 10:59	RGT	Mt. Juliet, TN

SAMPLE SUMMARY

MW-5 L1373251-07 Non-Potable Water

Collected by:
 Collected date/time: 06/25/21 15:00
 Received date/time: 07/01/21 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG1708601	1	07/21/21 14:40	07/27/21 13:45	JMR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1700230	1	07/26/21 10:47	07/27/21 13:45	JMR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1700230	1	07/26/21 10:47	07/27/21 10:59	RGT	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Donna Eidson
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Radiochemistry by Method 904

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.639	J	0.427	0.79	07/27/2021 13:45	WG1708601
(T) Barium	105			62.0-143	07/27/2021 13:45	WG1708601
(T) Yttrium	108			79.0-136	07/27/2021 13:45	WG1708601

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.787	J	0.583	0.985	07/27/2021 13:45	WG1700230

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.148	J	0.156	0.195	07/27/2021 10:59	WG1700230
(T) Barium-133	106			30.0-143	07/27/2021 10:59	WG1700230

Radiochemistry by Method 904

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.03		0.357	0.646	07/27/2021 13:45	WG1708601
(T) Barium	104			62.0-143	07/27/2021 13:45	WG1708601
(T) Yttrium	100			79.0-136	07/27/2021 13:45	WG1708601

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.24		0.545	0.873	07/27/2021 13:45	WG1700230

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.206	J	0.188	0.227	07/27/2021 10:59	WG1700230
(T) Barium-133	107			30.0-143	07/27/2021 10:59	WG1700230

Radiochemistry by Method 904

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.824		0.371	0.678	07/27/2021 13:45	WG1708601
(T) Barium	95.5			62.0-143	07/27/2021 13:45	WG1708601
(T) Yttrium	110			79.0-136	07/27/2021 13:45	WG1708601

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.06		0.594	0.96	07/27/2021 13:45	WG1700230

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.237	J	0.223	0.282	07/27/2021 10:59	WG1700230
(T) Barium-133	105			30.0-143	07/27/2021 10:59	WG1700230

Radiochemistry by Method 904

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.64		0.317	0.549	07/27/2021 13:45	WG1708601
(T) Barium	98.1			62.0-143	07/27/2021 13:45	WG1708601
(T) Yttrium	103			79.0-136	07/27/2021 13:45	WG1708601

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.81		0.531	0.85	07/27/2021 13:45	WG1700230

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.173	J	0.214	0.301	07/27/2021 10:59	WG1700230
(T) Barium-133	105			30.0-143	07/27/2021 10:59	WG1700230

Radiochemistry by Method 904

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.665		0.327	0.599	07/27/2021 13:45	WG1708601
(T) Barium	100			62.0-143	07/27/2021 13:45	WG1708601
(T) Yttrium	108			79.0-136	07/27/2021 13:45	WG1708601

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.04		0.590	0.891	07/27/2021 13:45	WG1700230

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.380		0.263	0.292	07/27/2021 10:59	WG1700230
(T) Barium-133	105			30.0-143	07/27/2021 10:59	WG1700230

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.13		0.276	0.485	07/27/2021 13:45	WG1708601
(T) Barium	103			62.0-143	07/27/2021 13:45	WG1708601
(T) Yttrium	113			79.0-136	07/27/2021 13:45	WG1708601

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.30		0.443	0.677	07/27/2021 13:45	WG1700230

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.179	J	0.167	0.192	07/27/2021 10:59	WG1700230
(T) Barium-133	102			30.0-143	07/27/2021 10:59	WG1700230

Radiochemistry by Method 904

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.200	<u>U</u>	0.313	0.587	07/27/2021 13:45	WG1708601
(T) Barium	104			62.0-143	07/27/2021 13:45	WG1708601
(T) Yttrium	112			79.0-136	07/27/2021 13:45	WG1708601

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.236	<u>U</u>	0.442	0.823	07/27/2021 13:45	WG1700230

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0362	<u>U</u>	0.129	0.236	07/27/2021 10:59	WG1700230
(T) Barium-133	98.9			30.0-143	07/27/2021 10:59	WG1700230

Method Blank (MB)

(MB) R3684922-1 07/27/21 13:45

Analyte	MB Result pCi/l	MB Qualifier	MB MDA pCi/l
Radium-228	0.0757	<u>U</u>	0.422
(T) Barium	104		
(T) Yttrium	109		

L1377989-18 Original Sample (OS) • Duplicate (DUP)

(OS) L1377989-18 07/27/21 13:45 • (DUP) R3684922-5 07/27/21 13:45

Analyte	Original Result pCi/l	DUP Result pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	1.09	0.418	1	88.7	1.14	<u>U</u>	20	3
(T) Barium	96.3	101						
(T) Yttrium	111	108						

Laboratory Control Sample (LCS)

(LCS) R3684922-2 07/27/21 13:45

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.37	107	80.0-120	
(T) Barium			96.7		
(T) Yttrium			106		

L1377989-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1377989-18 07/27/21 13:45 • (MS) R3684922-3 07/27/21 13:45 • (MSD) R3684922-4 07/27/21 13:45

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	1.09	11.9	10.4	108	92.9	1	70.0-130			13.3		20
(T) Barium		96.3			104	102							
(T) Yttrium		111			112	98.0							

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3684921-1 07/27/21 10:59

Analyte	MB Result pCi/l	MB Qualifier	MB MDA pCi/l
Radium-226	0.00785	<u>U</u>	0.0518
(T) Barium-133	98.7		

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1373878-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1373878-04 07/27/21 10:59 • (DUP) R3684921-5 07/27/21 10:59

Analyte	Original Result pCi/l	DUP Result pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
Radium-226	-0.0637	0.0113	1	200	0.414	<u>U</u>	20	3
(T) Barium-133	102	105						

Laboratory Control Sample (LCS)

(LCS) R3684921-2 07/27/21 10:59

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.02	4.66	92.9	80.0-120	
(T) Barium-133			102		

L1373251-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1373251-01 07/27/21 10:59 • (MS) R3684921-3 07/27/21 10:59 • (MSD) R3684921-4 07/27/21 10:59

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.1	0.148	19.9	21.9	98.1	108	1	75.0-125			9.72		20
(T) Barium-133		106			101	103							

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ACCREDITATIONS & LOCATIONS

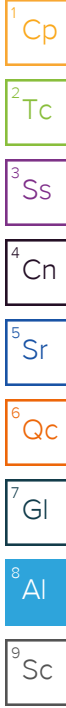
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



DHL Analytical, Inc.
2300 Double Creek Drive
Round Rock, TX 78664

TEL: (512) 388-8222

FAX: (512) 388-8229

Work Order: 2106204

Subcontractor:

Pace Analytical
12065 Lebanon Rd
Mt. Juliet, TN 37122

TEL: (615) 773-5923
FAX:
Acct #: DHLRRTX

CHAIN-OF-CUSTODY RECORD

A190

L1573251

28-Jun-21

Sample ID	Matrix	DHL#	Date Collected	Bottle Type	Requested Tests							
					Ra-228	Ra-226						
					E904.0	M7500 Ra B M						
MW-8	Aqueous	01C	06/25/21 09:30 AM	1LHDPEHNO3		1						-01
MW-8	Aqueous	01D	06/25/21 09:30 AM	1LHDPEHNO3	1							-01
MW-6	Aqueous	02C	06/25/21 10:55 AM	1LHDPEHNO3		1						-02
MW-6	Aqueous	02D	06/25/21 10:55 AM	1LHDPEHNO3	1							-02
MW-11	Aqueous	03C	06/25/21 12:00 PM	1LHDPEHNO3		1						-03
MW-11	Aqueous	03D	06/25/21 12:00 PM	1LHDPEHNO3	1							-03
MW-101	Aqueous	04C	06/25/21 12:10 PM	1LHDPEHNO3		1						-04
MW-101	Aqueous	04D	06/25/21 12:10 PM	1LHDPEHNO3	1							-04
MW-9	Aqueous	05C	06/25/21 01:00 PM	1LHDPEHNO3		1						-05
MW-9	Aqueous	05D	06/25/21 01:00 PM	1LHDPEHNO3	1							-05
MW-10	Aqueous	06C	06/25/21 01:50 PM	1LHDPEHNO3		1						-06
MW-10	Aqueous	06D	06/25/21 01:50 PM	1LHDPEHNO3	1							-06
MW-5	Aqueous	07C	06/25/21 03:00 PM	1LHDPEHNO3		1						-07
MW-5	Aqueous	07D	06/25/21 03:00 PM	1LHDPEHNO3	1							-07


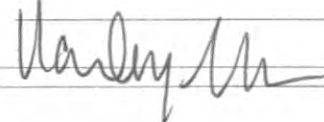
General Comments:

Please analyze these samples with Normal Turnaround Time.
Report Ra-226, Ra-228 & Combined per Specs.
Quality Control Package Needed: Standard - NELAC Rad Test compliant
Email to cac@dhlanalytical.com & dupont@dhlanalytical.com

Sample Receipt Checklist

COC Seal Present/Intact: Y N If Applicable
COC Signed/Accurate: Y N VOA Zero Headspace: Y N
Bottles arrive intact: Y N Pres. Correct/Check: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
RAD Screen <0.5 mR/hr: Y N

1118

	Date/Time		Date/Time
Relinquished by: 	6/28/21 1800	Received by: 	
Relinquished by:		Received by:	



November 09, 2021

Will Vienne
Golder
2201 Double Creek Dr #4004
Round Rock, Texas 78664
TEL: (512) 671-3434
FAX (512) 671-3446
RE: 2H21 Coletto Creek Power Plant

Order No.: 2109210

Dear Will Vienne:

DHL Analytical, Inc. received 10 sample(s) on 9/29/2021 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAP except where noted in the Case Narrative. All non-NELAP methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in red ink, appearing to read 'John DuPont', written in a cursive style.

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-21-27



Table of Contents

Miscellaneous Documents	3
CaseNarrative 2109210	12
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Analytical Report 2109210	20
AnalyticalQCSummaryReport 2109210	30
MQLSummaryReport 2109210	51
Subcontract Report 2109210	52

Eric Lau

From: John DuPont
Sent: Tuesday, May 28, 2019 11:35 AM
To: Eric Lau
Subject: FW: CCR Analysis

Appendix III Parameters:

Metals (Ca and B)
Anions (Cl, F, and SO4)
TDS

Appendix IV Parameters:

Metals (As, Ba, Be, Cd, Co, Cr, Hg, Li, Mo, Pb, Sb, Se, and Tl)
Ra-226
Ra-228

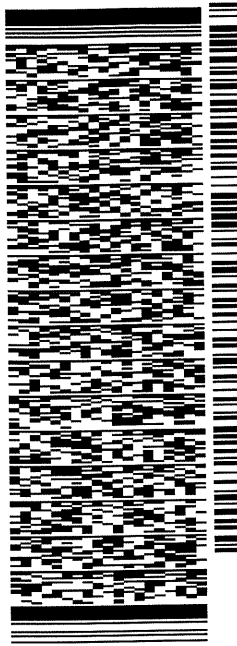
From: Vienne, Will [mailto:William_Vienne@golder.com]
Sent: Tuesday, April 09, 2019 12:48 PM
To: John DuPont <dupont@dhlanalytical.com>
Subject: CCR Analysis

ORIGIN ID: VCTA (361) 573-6442
GREG LOGAN JR.
GOLDER ASSOCIATES INC.
1501 E. MOCKINGBIRD LN
SUITE 420
VICTORIA TX 77904
UNITED STATES US

SHIP DATE: 28SEP21
ACTWTG: 20.00 LB
CAD: 2806631/NET4400
DIMS: 24x12x15 IN
BILL SENDER

TO **SAMPLE RECEIVING**
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664
(512) 388-8222 REF: 19122262-B2021
INV: DEPT:



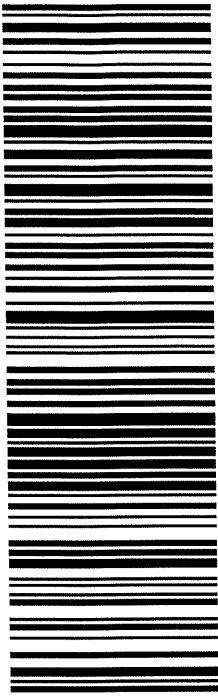
56DJ3169AFE4A

TRK# 1 of 3
0201 7748 2466 5265
MASTER

WED - 29 SEP 10:30A
PRIORITY OVERNIGHT

44 BSMA

TX-US 78664
AUS



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Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

CUSTODY SEAL

DATE

9-28-21

SIGNATURE

GM

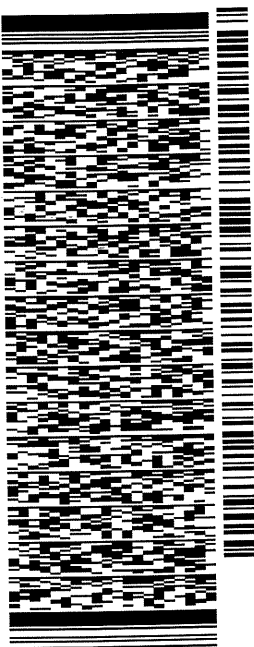


ORIGIN ID:VCTA (361) 573-6442
GREG LOGAN JR.
GOLDER ASSOCIATES INC.
1501 E. MOCKINGBIRD LN
SUITE 420
VICTORIA, TX 77904
UNITED STATES US

SHIP DATE: 28SEP21
ACTWTG: 20.00 LB
CAD: 2806637/NET4400
DIM3: 24x12x15 IN
BILL SENDER

TO **SAMPLE RECEIVING**
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664
INVT: (512) 388-8222
REF: 19122262-82021
DEPT:



56DJ3169AFE4A

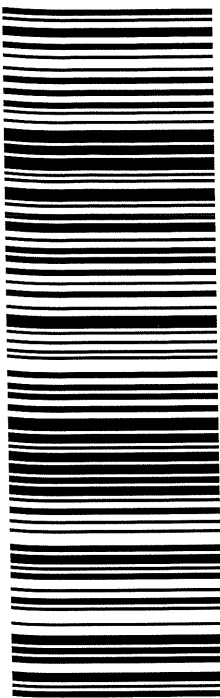
2 of 3
MPS# **7748 2466 5471**
Mstr# **7748 2466 5265**

0201

WED - 29 SEP 10:30A
PRIORITY OVERNIGHT

44 BSMA

78664
AUS
TX-US



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CUSTODY SEAL

DATE

SIGNATURE

7-28-21
BML

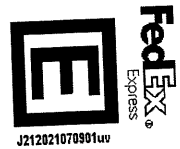
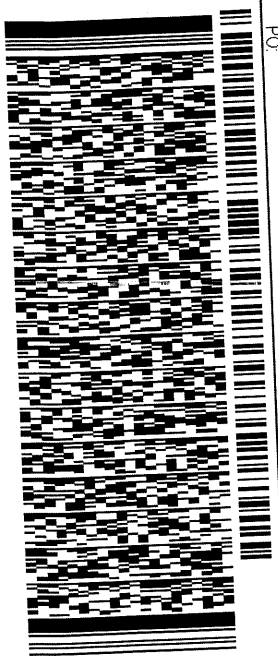


ORIGIN ID: VCTA (361) 573-6442
 GREG LOGAN JR.
 GOLDFER ASSOCIATES INC.
 1501 E. MOCKINGBIRD LN
 SUITE 420
 VICTORIA, TX 77904
 UNITED STATES US

SHIP DATE: 28SEP21
 ACTWGT: 20.00 LB
 CAD: 280663/INLET4400
 DIMS: 24X12X15 IN
 BILL SENDER

TO **SAMPLE RECEIVING**
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664
 (512) 388-8222 REF: 19122262-B2021
 INV: DEPT:

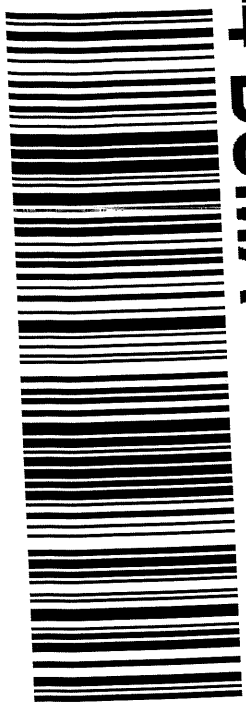


3 of 3
WED - 29 SEP 10:30A
PRIORITY OVERNIGHT

MPS# 7748 2466 5780
 0263
 Mstr# 7748 2466 5265

0201

44 BSMA
 TX:US
78664
AUS



56DJ31169A/FE4A

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CUSTODY SEAL

DATE

SIGNATURE

9-28-21
 WML



Sample Receipt Checklist

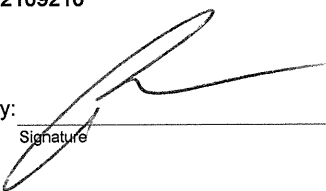
Client Name **Golder**

Date Received: **9/29/2021**

Work Order Number **2109210**

Received by: **EL**

Checklist completed by:



9/29/2021

Signature

Date

Reviewed by

SH

Initials

9/29/2021

Date

Carrier name: FedEx 1day

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No 2.8 °C / 0.9 °C / 2.1 °C
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH<2 acceptable upon receipt? Yes No NA LOT # 13171
- Adjusted? No Checked by B.A.
- Water - pH>9 (S) or pH>10 (CN) acceptable upon receipt? Yes No NA LOT #
- Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

Laboratory Name: DHL Analytical, Inc.							
Laboratory Review Checklist: Reportable Data							
Project Name: 2H21 Coleta Creek Power Plant				LRC Date: 11/9/21			
Reviewer Name: Carlos Castro				Laboratory Work Order: 2109210			
Prep Batch Number(s): See Prep Dates Report				Run Batch: See Analytical Dates Report			
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and Quality Control (QC) Identification					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test Reports					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?			X		
		9) If required for the project, TICs reported?			X		
R4	O	Surrogate Recovery Data					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	Test Reports/Summary Forms for Blank Samples					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MDL?	X				
		5) For analyte(s) detected in a blank sample, was the concentration, unadjusted for sample specific factors, in all associated field samples, greater than 10 times the concentration in the blank sample?			X		
R6	OI	Laboratory Control Samples (LCS):					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	Analytical Duplicate Data					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	Method Quantitation Limits (MQLs):					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other Problems/Anomalies					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Name: DHL Analytical, Inc.							
Laboratory Review Checklist (continued): Supporting Data							
Project Name: 2H21 Coletto Creek Power Plant				LRC Date: 11/9/21			
Reviewer Name: Carlos Castro				Laboratory Work Order: 2109210			
Prep Batch Number(s): See Prep Dates Report				Run Batch: See Analytical Dates Report			
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial Calibration (ICAL)					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	Mass Spectral Tuning:					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal Standards (IS):					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw Data (NELAC Section 5.5.10)					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual Column Confirmation					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively Identified Compounds (TICs):					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) Results:					
		1) Were percent recoveries within method QC limits?	X				
S9	I	Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			S9-01
S10	OI	Method Detection Limit (MDL) Studies					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency Test Reports:					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards Documentation					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/Analyte Identification Procedures					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of Analyst Competency (DOC)					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/Validation Documentation for Methods (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory Standard Operating Procedures (SOPs):					
		1) Are laboratory SOPs current and on file for each method performed?	X				

- 1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
- 3 NA = Not applicable.
- 4 NR = Not Reviewed.
- 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5,
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) The amount of analyte measured in the duplicate,
 - b) The calculated RPD, and
 - c) The laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory is not accredited under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on February 23-26 2021. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Name: John DuPont
Official Title: General Manager


Signature

11/09/21
Date

Name: Dr. Derhsing Luu
Official Title: Technical Director

CLIENT: Golder
Project: 2H21 Coleta Creek Power Plant
Lab Order: 2109210

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020B - Metals Analysis
Method SW7470A - Mercury Analysis
Method E300 - Anions Analysis
Method M2540C - TDS Analysis
Sub-contract - Radium-228 and Radium-226 analyses by methods E904 and SM 7500 Ra B M.
Analyzed at Pace Analytical.

Exception Report R1-01

The samples were received and log-in performed on 9/29/21. A total of 10 samples were received. The samples arrived in good condition and were properly packaged.

Exception Report R7-03

For Anions analysis performed on 10/5/21 the matrix spikes and matrix spike duplicate recoveries (2109210-01 MS/MSD & 2109228-07 MS) were slightly below control limits for Chloride. These are flagged accordingly in the QC summary report. The sample selected for the matrix spike and matrix spike duplicate (2109210-01 MS/MSD) was from this work order. The sample selected for the matrix spike and matrix spike duplicate (2109228-07 MS/MSD) was not from this work order. The LCS was within control limits for this analyte. No further corrective actions were taken.

For Metals analysis performed on 10/4/21 the matrix spike and matrix spike duplicate recoveries were out of control limits for Boron. These are flagged accordingly. The sample selected for the matrix spike and matrix spike duplicate was not from this work order. The LCS was within control limits for this analyte. No further corrective actions were taken.

Exception Report S9-01

For Metals analysis performed on 10/1/21 the PDS recovery was slightly below control limits for Calcium. This is flagged accordingly in the QC summary report. The serial dilution was within control limits for this analyte. No further corrective actions were taken.

CLIENT: Golder
Project: 2H21 Coletto Creek Power Plant
Lab Order: 2109210

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
2109210-01	BV-5		09/28/21 08:20 AM	9/29/2021
2109210-02	MW-4		09/28/21 09:20 AM	9/29/2021
2109210-03	BV-21		09/28/21 10:20 AM	9/29/2021
2109210-04	Dup 101		09/28/21 10:30 AM	9/29/2021
2109210-05	MW-8		09/28/21 11:20 AM	9/29/2021
2109210-06	MW-6		09/28/21 12:15 PM	9/29/2021
2109210-07	MW-11		09/28/21 01:15 PM	9/29/2021
2109210-08	MW-9		09/28/21 02:00 PM	9/29/2021
2109210-09	MW-5		09/28/21 02:45 PM	9/29/2021
2109210-10	MW-10		09/28/21 03:25 PM	9/29/2021

Lab Order: 2109210
 Client: Golder
 Project: 2H21 Coletto Creek Power Plant

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
2109210-01A	BV-5	09/28/21 08:20 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	BV-5	09/28/21 08:20 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	BV-5	09/28/21 08:20 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	BV-5	09/28/21 08:20 AM	Aqueous	SW7470A	Mercury Aq Prep	10/04/21 09:06 AM	102255
2109210-01B	BV-5	09/28/21 08:20 AM	Aqueous	E300	Anion Preparation	10/05/21 01:47 PM	102275
	BV-5	09/28/21 08:20 AM	Aqueous	E300	Anion Preparation	10/05/21 01:47 PM	102275
	BV-5	09/28/21 08:20 AM	Aqueous	M2540C	TDS Preparation	09/30/21 09:19 AM	102241
2109210-02A	MW-4	09/28/21 09:20 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	MW-4	09/28/21 09:20 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	MW-4	09/28/21 09:20 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	MW-4	09/28/21 09:20 AM	Aqueous	SW7470A	Mercury Aq Prep	10/04/21 09:06 AM	102255
2109210-02B	MW-4	09/28/21 09:20 AM	Aqueous	E300	Anion Preparation	10/05/21 01:47 PM	102275
	MW-4	09/28/21 09:20 AM	Aqueous	E300	Anion Preparation	10/05/21 01:47 PM	102275
	MW-4	09/28/21 09:20 AM	Aqueous	M2540C	TDS Preparation	09/30/21 09:19 AM	102241
2109210-03A	BV-21	09/28/21 10:20 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	BV-21	09/28/21 10:20 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	BV-21	09/28/21 10:20 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	BV-21	09/28/21 10:20 AM	Aqueous	SW7470A	Mercury Aq Prep	10/04/21 09:06 AM	102255
2109210-03B	BV-21	09/28/21 10:20 AM	Aqueous	E300	Anion Preparation	10/05/21 01:47 PM	102275
	BV-21	09/28/21 10:20 AM	Aqueous	E300	Anion Preparation	10/05/21 01:47 PM	102298
	BV-21	09/28/21 10:20 AM	Aqueous	M2540C	TDS Preparation	09/30/21 09:19 AM	102241
2109210-04A	Dup 101	09/28/21 10:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	Dup 101	09/28/21 10:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	Dup 101	09/28/21 10:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	Dup 101	09/28/21 10:30 AM	Aqueous	SW7470A	Mercury Aq Prep	10/04/21 09:06 AM	102255
2109210-04B	Dup 101	09/28/21 10:30 AM	Aqueous	E300	Anion Preparation	10/05/21 01:47 PM	102275
	Dup 101	09/28/21 10:30 AM	Aqueous	E300	Anion Preparation	10/05/21 01:47 PM	102275
	Dup 101	09/28/21 10:30 AM	Aqueous	M2540C	TDS Preparation	09/30/21 09:19 AM	102241

Lab Order: 2109210
 Client: Golder
 Project: 2H21 Coletto Creek Power Plant

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
2109210-05A	MW-8	09/28/21 11:20 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	MW-8	09/28/21 11:20 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	MW-8	09/28/21 11:20 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	MW-8	09/28/21 11:20 AM	Aqueous	SW7470A	Mercury Aq Prep	10/04/21 09:06 AM	102255
2109210-05B	MW-8	09/28/21 11:20 AM	Aqueous	E300	Anion Preparation	10/05/21 01:47 PM	102275
	MW-8	09/28/21 11:20 AM	Aqueous	E300	Anion Preparation	10/05/21 01:47 PM	102275
	MW-8	09/28/21 11:20 AM	Aqueous	M2540C	TDS Preparation	09/30/21 09:19 AM	102241
2109210-06A	MW-6	09/28/21 12:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	MW-6	09/28/21 12:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	MW-6	09/28/21 12:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	MW-6	09/28/21 12:15 PM	Aqueous	SW7470A	Mercury Aq Prep	10/04/21 09:06 AM	102255
2109210-06B	MW-6	09/28/21 12:15 PM	Aqueous	E300	Anion Preparation	10/05/21 01:47 PM	102275
	MW-6	09/28/21 12:15 PM	Aqueous	E300	Anion Preparation	10/05/21 01:47 PM	102275
	MW-6	09/28/21 12:15 PM	Aqueous	M2540C	TDS Preparation	09/30/21 09:19 AM	102241
2109210-07A	MW-11	09/28/21 01:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	MW-11	09/28/21 01:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	MW-11	09/28/21 01:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	MW-11	09/28/21 01:15 PM	Aqueous	SW7470A	Mercury Aq Prep	10/04/21 09:06 AM	102255
2109210-07B	MW-11	09/28/21 01:15 PM	Aqueous	E300	Anion Preparation	10/05/21 01:47 PM	102275
	MW-11	09/28/21 01:15 PM	Aqueous	E300	Anion Preparation	10/05/21 01:47 PM	102275
	MW-11	09/28/21 01:15 PM	Aqueous	M2540C	TDS Preparation	09/30/21 09:19 AM	102241
2109210-08A	MW-9	09/28/21 02:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	MW-9	09/28/21 02:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	MW-9	09/28/21 02:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	MW-9	09/28/21 02:00 PM	Aqueous	SW7470A	Mercury Aq Prep	10/04/21 09:06 AM	102255
2109210-08B	MW-9	09/28/21 02:00 PM	Aqueous	E300	Anion Preparation	10/05/21 01:47 PM	102275
	MW-9	09/28/21 02:00 PM	Aqueous	E300	Anion Preparation	10/05/21 01:47 PM	102275
	MW-9	09/28/21 02:00 PM	Aqueous	M2540C	TDS Preparation	09/30/21 09:19 AM	102241

Lab Order: 2109210
Client: Golder
Project: 2H21 Coletto Creek Power Plant

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
2109210-09A	MW-5	09/28/21 02:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	MW-5	09/28/21 02:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	MW-5	09/28/21 02:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	MW-5	09/28/21 02:45 PM	Aqueous	SW7470A	Mercury Aq Prep	10/04/21 09:06 AM	102255
2109210-09B	MW-5	09/28/21 02:45 PM	Aqueous	E300	Anion Preparation	10/05/21 01:47 PM	102275
	MW-5	09/28/21 02:45 PM	Aqueous	E300	Anion Preparation	10/05/21 01:47 PM	102275
	MW-5	09/28/21 02:45 PM	Aqueous	M2540C	TDS Preparation	09/30/21 09:19 AM	102241
2109210-10A	MW-10	09/28/21 03:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	MW-10	09/28/21 03:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	MW-10	09/28/21 03:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/30/21 09:32 AM	102242
	MW-10	09/28/21 03:25 PM	Aqueous	SW7470A	Mercury Aq Prep	10/04/21 09:06 AM	102255
2109210-10B	MW-10	09/28/21 03:25 PM	Aqueous	E300	Anion Preparation	10/05/21 01:47 PM	102275
	MW-10	09/28/21 03:25 PM	Aqueous	E300	Anion Preparation	10/05/21 01:47 PM	102275
	MW-10	09/28/21 03:25 PM	Aqueous	M2540C	TDS Preparation	09/30/21 09:19 AM	102241

Lab Order: 2109210
 Client: Golder
 Project: 2H21 Coletto Creek Power Plant

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
2109210-01A	BV-5	Aqueous	SW7470A	Mercury Total: Aqueous	102255	1	10/07/21 02:46 PM	CETAC2_HG_211007 C
	BV-5	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	10	10/04/21 11:29 AM	ICP-MS4_211004A
	BV-5	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	1	10/04/21 12:15 PM	ICP-MS4_211004A
	BV-5	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	1	10/01/21 11:14 AM	ICP-MS5_211001A
2109210-01B	BV-5	Aqueous	E300	Anions by IC method - Water	102275	10	10/05/21 10:43 PM	IC4_211005B
	BV-5	Aqueous	E300	Anions by IC method - Water	102275	1	10/06/21 05:03 AM	IC4_211005B
	BV-5	Aqueous	M2540C	Total Dissolved Solids	102241	1	09/30/21 04:05 PM	WC_210930E
2109210-02A	MW-4	Aqueous	SW7470A	Mercury Total: Aqueous	102255	1	10/07/21 02:49 PM	CETAC2_HG_211007 C
	MW-4	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	1	10/01/21 11:16 AM	ICP-MS5_211001A
	MW-4	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	10	10/04/21 11:31 AM	ICP-MS4_211004A
	MW-4	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	1	10/04/21 11:56 AM	ICP-MS4_211004A
2109210-02B	MW-4	Aqueous	E300	Anions by IC method - Water	102275	10	10/05/21 11:40 PM	IC4_211005B
	MW-4	Aqueous	E300	Anions by IC method - Water	102275	1	10/06/21 05:22 AM	IC4_211005B
	MW-4	Aqueous	M2540C	Total Dissolved Solids	102241	1	09/30/21 04:05 PM	WC_210930E
2109210-03A	BV-21	Aqueous	SW7470A	Mercury Total: Aqueous	102255	1	10/07/21 02:51 PM	CETAC2_HG_211007 C
	BV-21	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	1	10/01/21 11:19 AM	ICP-MS5_211001A
	BV-21	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	1	10/04/21 11:58 AM	ICP-MS4_211004A
	BV-21	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	10	10/04/21 11:33 AM	ICP-MS4_211004A
2109210-03B	BV-21	Aqueous	E300	Anions by IC method - Water	102275	1	10/06/21 05:41 AM	IC4_211005B
	BV-21	Aqueous	E300	Anions by IC method - Water	102298	10	10/06/21 09:56 PM	IC2_211006B
	BV-21	Aqueous	M2540C	Total Dissolved Solids	102241	1	09/30/21 04:05 PM	WC_210930E
2109210-04A	Dup 101	Aqueous	SW7470A	Mercury Total: Aqueous	102255	1	10/07/21 02:53 PM	CETAC2_HG_211007 C
	Dup 101	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	10	10/04/21 11:35 AM	ICP-MS4_211004A
	Dup 101	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	1	10/04/21 12:00 PM	ICP-MS4_211004A
	Dup 101	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	1	10/01/21 11:22 AM	ICP-MS5_211001A
2109210-04B	Dup 101	Aqueous	E300	Anions by IC method - Water	102275	10	10/05/21 11:59 PM	IC4_211005B

Lab Order: 2109210
 Client: Golder
 Project: 2H21 Coletto Creek Power Plant

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
2109210-04B	Dup 101	Aqueous	E300	Anions by IC method - Water	102275	1	10/06/21 06:00 AM	IC4_211005B
	Dup 101	Aqueous	M2540C	Total Dissolved Solids	102241	1	09/30/21 04:05 PM	WC_210930E
2109210-05A	MW-8	Aqueous	SW7470A	Mercury Total: Aqueous	102255	1	10/07/21 02:56 PM	CETAC2_HG_211007 C
	MW-8	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	10	10/04/21 11:37 AM	ICP-MS4_211004A
	MW-8	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	1	10/04/21 12:17 PM	ICP-MS4_211004A
	MW-8	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	1	10/01/21 11:24 AM	ICP-MS5_211001A
2109210-05B	MW-8	Aqueous	E300	Anions by IC method - Water	102275	1	10/06/21 06:19 AM	IC4_211005B
	MW-8	Aqueous	E300	Anions by IC method - Water	102275	10	10/06/21 12:18 AM	IC4_211005B
	MW-8	Aqueous	M2540C	Total Dissolved Solids	102241	1	09/30/21 04:05 PM	WC_210930E
2109210-06A	MW-6	Aqueous	SW7470A	Mercury Total: Aqueous	102255	1	10/07/21 03:02 PM	CETAC2_HG_211007 C
	MW-6	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	10	10/04/21 11:39 AM	ICP-MS4_211004A
	MW-6	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	1	10/04/21 12:19 PM	ICP-MS4_211004A
	MW-6	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	1	10/01/21 11:43 AM	ICP-MS5_211001A
2109210-06B	MW-6	Aqueous	E300	Anions by IC method - Water	102275	10	10/06/21 12:37 AM	IC4_211005B
	MW-6	Aqueous	E300	Anions by IC method - Water	102275	1	10/06/21 06:38 AM	IC4_211005B
	MW-6	Aqueous	M2540C	Total Dissolved Solids	102241	1	09/30/21 04:05 PM	WC_210930E
2109210-07A	MW-11	Aqueous	SW7470A	Mercury Total: Aqueous	102255	1	10/07/21 03:05 PM	CETAC2_HG_211007 C
	MW-11	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	1	10/01/21 11:45 AM	ICP-MS5_211001A
	MW-11	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	10	10/04/21 11:41 AM	ICP-MS4_211004A
	MW-11	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	1	10/04/21 12:21 PM	ICP-MS4_211004A
2109210-07B	MW-11	Aqueous	E300	Anions by IC method - Water	102275	10	10/06/21 12:56 AM	IC4_211005B
	MW-11	Aqueous	E300	Anions by IC method - Water	102275	1	10/06/21 06:57 AM	IC4_211005B
	MW-11	Aqueous	M2540C	Total Dissolved Solids	102241	1	09/30/21 04:05 PM	WC_210930E
2109210-08A	MW-9	Aqueous	SW7470A	Mercury Total: Aqueous	102255	1	10/07/21 03:07 PM	CETAC2_HG_211007 C
	MW-9	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	1	10/01/21 11:48 AM	ICP-MS5_211001A
	MW-9	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	1	10/04/21 12:23 PM	ICP-MS4_211004A

Lab Order: 2109210
 Client: Golder
 Project: 2H21 Coletto Creek Power Plant

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
2109210-08A	MW-9	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	10	10/04/21 11:43 AM	ICP-MS4_211004A
2109210-08B	MW-9	Aqueous	E300	Anions by IC method - Water	102275	1	10/06/21 07:16 AM	IC4_211005B
	MW-9	Aqueous	E300	Anions by IC method - Water	102275	10	10/06/21 01:15 AM	IC4_211005B
	MW-9	Aqueous	M2540C	Total Dissolved Solids	102241	1	09/30/21 04:05 PM	WC_210930E
2109210-09A	MW-5	Aqueous	SW7470A	Mercury Total: Aqueous	102255	1	10/07/21 03:09 PM	CETAC2_HG_211007 C
	MW-5	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	10	10/04/21 11:45 AM	ICP-MS4_211004A
	MW-5	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	1	10/04/21 12:02 PM	ICP-MS4_211004A
	MW-5	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	1	10/01/21 11:50 AM	ICP-MS5_211001A
2109210-09B	MW-5	Aqueous	E300	Anions by IC method - Water	102275	10	10/06/21 01:34 AM	IC4_211005B
	MW-5	Aqueous	E300	Anions by IC method - Water	102275	1	10/06/21 08:51 AM	IC4_211005B
	MW-5	Aqueous	M2540C	Total Dissolved Solids	102241	1	09/30/21 04:05 PM	WC_210930E
2109210-10A	MW-10	Aqueous	SW7470A	Mercury Total: Aqueous	102255	1	10/07/21 03:11 PM	CETAC2_HG_211007 C
	MW-10	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	10	10/04/21 11:47 AM	ICP-MS4_211004A
	MW-10	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	1	10/04/21 12:25 PM	ICP-MS4_211004A
	MW-10	Aqueous	SW6020B	Trace Metals: ICP-MS - Water	102242	1	10/01/21 11:53 AM	ICP-MS5_211001A
2109210-10B	MW-10	Aqueous	E300	Anions by IC method - Water	102275	10	10/06/21 01:53 AM	IC4_211005B
	MW-10	Aqueous	E300	Anions by IC method - Water	102275	1	10/06/21 09:10 AM	IC4_211005B
	MW-10	Aqueous	M2540C	Total Dissolved Solids	102241	1	09/30/21 04:05 PM	WC_210930E

DHL Analytical, Inc.

Date: 09-Nov-21

CLIENT: Golder
Project: 2H21 Coletto Creek Power Plant
Project No: 19122262-B2021
Lab Order: 2109210

Client Sample ID: BV-5
Lab ID: 2109210-01
Collection Date: 09/28/21 08:20 AM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		SW6020B			Analyst: SP		
Antimony	<0.000800	0.000800	0.00250		mg/L	1	10/01/21 11:14 AM
Arsenic	0.00868	0.00200	0.00500		mg/L	1	10/01/21 11:14 AM
Barium	0.0365	0.00300	0.0100		mg/L	1	10/01/21 11:14 AM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	10/01/21 11:14 AM
Boron	1.12	0.100	0.300		mg/L	10	10/04/21 11:29 AM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	10/01/21 11:14 AM
Calcium	75.6	1.00	3.00		mg/L	10	10/04/21 11:29 AM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	10/01/21 11:14 AM
Cobalt	0.0433	0.00300	0.00500		mg/L	1	10/01/21 11:14 AM
Lead	0.000415	0.000300	0.00100	J	mg/L	1	10/01/21 11:14 AM
Lithium	0.0194	0.00500	0.0100		mg/L	1	10/04/21 12:15 PM
Molybdenum	0.0102	0.00200	0.00500		mg/L	1	10/01/21 11:14 AM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	10/01/21 11:14 AM
Thallium	<0.000500	0.000500	0.00150		mg/L	1	10/01/21 11:14 AM
MERCURY TOTAL: AQUEOUS		SW7470A			Analyst: JVR		
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	10/07/21 02:46 PM
ANIONS BY IC METHOD - WATER		E300			Analyst: BM		
Chloride	146	3.00	10.0		mg/L	10	10/05/21 10:43 PM
Fluoride	0.687	0.100	0.400		mg/L	1	10/06/21 05:03 AM
Sulfate	169	10.0	30.0		mg/L	10	10/05/21 10:43 PM
TOTAL DISSOLVED SOLIDS		M2540C			Analyst: JS		
Total Dissolved Solids (Residue, Filterable)	925	10.0	10.0		mg/L	1	09/30/21 04:05 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 09-Nov-21

CLIENT: Golder
Project: 2H21 Coleta Creek Power Plant
Project No: 19122262-B2021
Lab Order: 2109210

Client Sample ID: MW-4
Lab ID: 2109210-02
Collection Date: 09/28/21 09:20 AM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		SW6020B		Analyst: SP			
Antimony	<0.000800	0.000800	0.00250		mg/L	1	10/01/21 11:16 AM
Arsenic	0.00856	0.00200	0.00500		mg/L	1	10/01/21 11:16 AM
Barium	0.0543	0.00300	0.0100		mg/L	1	10/01/21 11:16 AM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	10/01/21 11:16 AM
Boron	0.288	0.0100	0.0300		mg/L	1	10/04/21 11:56 AM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	10/01/21 11:16 AM
Calcium	88.3	1.00	3.00		mg/L	10	10/04/21 11:31 AM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	10/01/21 11:16 AM
Cobalt	0.0104	0.00300	0.00500		mg/L	1	10/01/21 11:16 AM
Lead	0.00139	0.000300	0.00100		mg/L	1	10/01/21 11:16 AM
Lithium	0.0181	0.00500	0.0100		mg/L	1	10/04/21 11:56 AM
Molybdenum	<0.00200	0.00200	0.00500		mg/L	1	10/01/21 11:16 AM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	10/01/21 11:16 AM
Thallium	<0.000500	0.000500	0.00150		mg/L	1	10/01/21 11:16 AM
MERCURY TOTAL: AQUEOUS		SW7470A		Analyst: JVR			
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	10/07/21 02:49 PM
ANIONS BY IC METHOD - WATER		E300		Analyst: BM			
Chloride	98.7	3.00	10.0		mg/L	10	10/05/21 11:40 PM
Fluoride	0.647	0.100	0.400		mg/L	1	10/06/21 05:22 AM
Sulfate	164	10.0	30.0		mg/L	10	10/05/21 11:40 PM
TOTAL DISSOLVED SOLIDS		M2540C		Analyst: JS			
Total Dissolved Solids (Residue, Filterable)	714	10.0	10.0		mg/L	1	09/30/21 04:05 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 09-Nov-21

CLIENT: Golder
Project: 2H21 Coleta Creek Power Plant
Project No: 19122262-B2021
Lab Order: 2109210

Client Sample ID: BV-21
Lab ID: 2109210-03
Collection Date: 09/28/21 10:20 AM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		SW6020B			Analyst: SP		
Antimony	<0.000800	0.000800	0.00250		mg/L	1	10/01/21 11:19 AM
Arsenic	0.0603	0.00200	0.00500		mg/L	1	10/01/21 11:19 AM
Barium	0.186	0.00300	0.0100		mg/L	1	10/01/21 11:19 AM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	10/01/21 11:19 AM
Boron	0.385	0.0100	0.0300		mg/L	1	10/04/21 11:58 AM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	10/01/21 11:19 AM
Calcium	77.3	1.00	3.00		mg/L	10	10/04/21 11:33 AM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	10/01/21 11:19 AM
Cobalt	0.00387	0.00300	0.00500	J	mg/L	1	10/01/21 11:19 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	10/01/21 11:19 AM
Lithium	0.00539	0.00500	0.0100	J	mg/L	1	10/04/21 11:58 AM
Molybdenum	0.00481	0.00200	0.00500	J	mg/L	1	10/01/21 11:19 AM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	10/01/21 11:19 AM
Thallium	<0.000500	0.000500	0.00150		mg/L	1	10/01/21 11:19 AM
MERCURY TOTAL: AQUEOUS		SW7470A			Analyst: JVR		
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	10/07/21 02:51 PM
ANIONS BY IC METHOD - WATER		E300			Analyst: BM		
Chloride	61.7	3.00	10.0		mg/L	10	10/06/21 09:56 PM
Fluoride	0.496	0.100	0.400		mg/L	1	10/06/21 05:41 AM
Sulfate	31.3	1.00	3.00		mg/L	1	10/06/21 05:41 AM
TOTAL DISSOLVED SOLIDS		M2540C			Analyst: JS		
Total Dissolved Solids (Residue, Filterable)	426	10.0	10.0		mg/L	1	09/30/21 04:05 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 09-Nov-21

CLIENT: Golder
Project: 2H21 Coletto Creek Power Plant
Project No: 19122262-B2021
Lab Order: 2109210

Client Sample ID: Dup 101
Lab ID: 2109210-04
Collection Date: 09/28/21 10:30 AM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		SW6020B			Analyst: SP		
Antimony	<0.000800	0.000800	0.00250		mg/L	1	10/01/21 11:22 AM
Arsenic	0.0586	0.00200	0.00500		mg/L	1	10/01/21 11:22 AM
Barium	0.181	0.00300	0.0100		mg/L	1	10/01/21 11:22 AM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	10/01/21 11:22 AM
Boron	0.397	0.0100	0.0300		mg/L	1	10/04/21 12:00 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	10/01/21 11:22 AM
Calcium	77.4	1.00	3.00		mg/L	10	10/04/21 11:35 AM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	10/01/21 11:22 AM
Cobalt	0.00362	0.00300	0.00500	J	mg/L	1	10/01/21 11:22 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	10/01/21 11:22 AM
Lithium	0.00656	0.00500	0.0100	J	mg/L	1	10/04/21 12:00 PM
Molybdenum	0.00467	0.00200	0.00500	J	mg/L	1	10/01/21 11:22 AM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	10/01/21 11:22 AM
Thallium	<0.000500	0.000500	0.00150		mg/L	1	10/01/21 11:22 AM
MERCURY TOTAL: AQUEOUS		SW7470A			Analyst: JVR		
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	10/07/21 02:53 PM
ANIONS BY IC METHOD - WATER		E300			Analyst: BM		
Chloride	55.7	3.00	10.0		mg/L	10	10/05/21 11:59 PM
Fluoride	0.498	0.100	0.400		mg/L	1	10/06/21 06:00 AM
Sulfate	31.2	1.00	3.00		mg/L	1	10/06/21 06:00 AM
TOTAL DISSOLVED SOLIDS		M2540C			Analyst: JS		
Total Dissolved Solids (Residue, Filterable)	441	10.0	10.0		mg/L	1	09/30/21 04:05 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 09-Nov-21

CLIENT: Golder
Project: 2H21 Coletto Creek Power Plant
Project No: 19122262-B2021
Lab Order: 2109210

Client Sample ID: MW-8
Lab ID: 2109210-05
Collection Date: 09/28/21 11:20 AM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		SW6020B			Analyst: SP		
Antimony	<0.000800	0.000800	0.00250		mg/L	1	10/01/21 11:24 AM
Arsenic	0.00856	0.00200	0.00500		mg/L	1	10/01/21 11:24 AM
Barium	0.0690	0.00300	0.0100		mg/L	1	10/01/21 11:24 AM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	10/01/21 11:24 AM
Boron	0.830	0.100	0.300		mg/L	10	10/04/21 11:37 AM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	10/01/21 11:24 AM
Calcium	59.9	1.00	3.00		mg/L	10	10/04/21 11:37 AM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	10/01/21 11:24 AM
Cobalt	0.0110	0.00300	0.00500		mg/L	1	10/01/21 11:24 AM
Lead	0.000697	0.000300	0.00100	J	mg/L	1	10/01/21 11:24 AM
Lithium	0.0102	0.00500	0.0100		mg/L	1	10/04/21 12:17 PM
Molybdenum	0.0124	0.00200	0.00500		mg/L	1	10/01/21 11:24 AM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	10/01/21 11:24 AM
Thallium	<0.000500	0.000500	0.00150		mg/L	1	10/01/21 11:24 AM
MERCURY TOTAL: AQUEOUS		SW7470A			Analyst: JVR		
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	10/07/21 02:56 PM
ANIONS BY IC METHOD - WATER		E300			Analyst: BM		
Chloride	49.5	0.300	1.00		mg/L	1	10/06/21 06:19 AM
Fluoride	0.473	0.100	0.400		mg/L	1	10/06/21 06:19 AM
Sulfate	56.8	1.00	3.00		mg/L	1	10/06/21 06:19 AM
TOTAL DISSOLVED SOLIDS		M2540C			Analyst: JS		
Total Dissolved Solids (Residue, Filterable)	476	10.0	10.0		mg/L	1	09/30/21 04:05 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 09-Nov-21

CLIENT: Golder
Project: 2H21 Coleta Creek Power Plant
Project No: 19122262-B2021
Lab Order: 2109210

Client Sample ID: MW-6
Lab ID: 2109210-06
Collection Date: 09/28/21 12:15 PM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		SW6020B			Analyst: SP		
Antimony	<0.000800	0.000800	0.00250		mg/L	1	10/01/21 11:43 AM
Arsenic	0.00793	0.00200	0.00500		mg/L	1	10/01/21 11:43 AM
Barium	0.0896	0.00300	0.0100		mg/L	1	10/01/21 11:43 AM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	10/01/21 11:43 AM
Boron	1.64	0.100	0.300		mg/L	10	10/04/21 11:39 AM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	10/01/21 11:43 AM
Calcium	67.3	1.00	3.00		mg/L	10	10/04/21 11:39 AM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	10/01/21 11:43 AM
Cobalt	<0.00300	0.00300	0.00500		mg/L	1	10/01/21 11:43 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	10/01/21 11:43 AM
Lithium	0.00911	0.00500	0.0100	J	mg/L	1	10/04/21 12:19 PM
Molybdenum	0.00801	0.00200	0.00500		mg/L	1	10/01/21 11:43 AM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	10/01/21 11:43 AM
Thallium	<0.000500	0.000500	0.00150		mg/L	1	10/01/21 11:43 AM
MERCURY TOTAL: AQUEOUS		SW7470A			Analyst: JVR		
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	10/07/21 03:02 PM
ANIONS BY IC METHOD - WATER		E300			Analyst: BM		
Chloride	70.1	3.00	10.0		mg/L	10	10/06/21 12:37 AM
Fluoride	0.386	0.100	0.400	J	mg/L	1	10/06/21 06:38 AM
Sulfate	92.7	1.00	3.00		mg/L	1	10/06/21 06:38 AM
TOTAL DISSOLVED SOLIDS		M2540C			Analyst: JS		
Total Dissolved Solids (Residue, Filterable)	500	10.0	10.0		mg/L	1	09/30/21 04:05 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 09-Nov-21

CLIENT: Golder
Project: 2H21 Coleta Creek Power Plant
Project No: 19122262-B2021
Lab Order: 2109210

Client Sample ID: MW-11
Lab ID: 2109210-07
Collection Date: 09/28/21 01:15 PM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		SW6020B			Analyst: SP		
Antimony	<0.000800	0.000800	0.00250		mg/L	1	10/01/21 11:45 AM
Arsenic	0.0137	0.00200	0.00500		mg/L	1	10/01/21 11:45 AM
Barium	0.101	0.00300	0.0100		mg/L	1	10/01/21 11:45 AM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	10/01/21 11:45 AM
Boron	0.869	0.100	0.300		mg/L	10	10/04/21 11:41 AM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	10/01/21 11:45 AM
Calcium	56.6	1.00	3.00		mg/L	10	10/04/21 11:41 AM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	10/01/21 11:45 AM
Cobalt	<0.00300	0.00300	0.00500		mg/L	1	10/01/21 11:45 AM
Lead	0.000475	0.000300	0.00100	J	mg/L	1	10/01/21 11:45 AM
Lithium	0.0161	0.00500	0.0100		mg/L	1	10/04/21 12:21 PM
Molybdenum	0.0189	0.00200	0.00500		mg/L	1	10/01/21 11:45 AM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	10/01/21 11:45 AM
Thallium	<0.000500	0.000500	0.00150		mg/L	1	10/01/21 11:45 AM
MERCURY TOTAL: AQUEOUS		SW7470A			Analyst: JVR		
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	10/07/21 03:05 PM
ANIONS BY IC METHOD - WATER		E300			Analyst: BM		
Chloride	71.7	3.00	10.0		mg/L	10	10/06/21 12:56 AM
Fluoride	0.742	0.100	0.400		mg/L	1	10/06/21 06:57 AM
Sulfate	68.4	1.00	3.00		mg/L	1	10/06/21 06:57 AM
TOTAL DISSOLVED SOLIDS		M2540C			Analyst: JS		
Total Dissolved Solids (Residue, Filterable)	415	10.0	10.0		mg/L	1	09/30/21 04:05 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 09-Nov-21

CLIENT: Golder
Project: 2H21 Coleta Creek Power Plant
Project No: 19122262-B2021
Lab Order: 2109210

Client Sample ID: MW-9
Lab ID: 2109210-08
Collection Date: 09/28/21 02:00 PM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		SW6020B		Analyst: SP			
Antimony	<0.000800	0.000800	0.00250		mg/L	1	10/01/21 11:48 AM
Arsenic	0.0197	0.00200	0.00500		mg/L	1	10/01/21 11:48 AM
Barium	0.163	0.00300	0.0100		mg/L	1	10/01/21 11:48 AM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	10/01/21 11:48 AM
Boron	1.23	0.100	0.300		mg/L	10	10/04/21 11:43 AM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	10/01/21 11:48 AM
Calcium	74.3	1.00	3.00		mg/L	10	10/04/21 11:43 AM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	10/01/21 11:48 AM
Cobalt	<0.00300	0.00300	0.00500		mg/L	1	10/01/21 11:48 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	10/01/21 11:48 AM
Lithium	0.00865	0.00500	0.0100	J	mg/L	1	10/04/21 12:23 PM
Molybdenum	0.0158	0.00200	0.00500		mg/L	1	10/01/21 11:48 AM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	10/01/21 11:48 AM
Thallium	<0.000500	0.000500	0.00150		mg/L	1	10/01/21 11:48 AM
MERCURY TOTAL: AQUEOUS		SW7470A		Analyst: JVR			
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	10/07/21 03:07 PM
ANIONS BY IC METHOD - WATER		E300		Analyst: BM			
Chloride	62.9	3.00	10.0		mg/L	10	10/06/21 01:15 AM
Fluoride	0.629	0.100	0.400		mg/L	1	10/06/21 07:16 AM
Sulfate	79.0	1.00	3.00		mg/L	1	10/06/21 07:16 AM
TOTAL DISSOLVED SOLIDS		M2540C		Analyst: JS			
Total Dissolved Solids (Residue, Filterable)	507	10.0	10.0		mg/L	1	09/30/21 04:05 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 09-Nov-21

CLIENT: Golder
Project: 2H21 Coletto Creek Power Plant
Project No: 19122262-B2021
Lab Order: 2109210

Client Sample ID: MW-5
Lab ID: 2109210-09
Collection Date: 09/28/21 02:45 PM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		SW6020B		Analyst: SP			
Antimony	<0.000800	0.000800	0.00250		mg/L	1	10/01/21 11:50 AM
Arsenic	0.00892	0.00200	0.00500		mg/L	1	10/01/21 11:50 AM
Barium	0.0639	0.00300	0.0100		mg/L	1	10/01/21 11:50 AM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	10/01/21 11:50 AM
Boron	0.150	0.0100	0.0300		mg/L	1	10/04/21 12:02 PM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	10/01/21 11:50 AM
Calcium	103	1.00	3.00		mg/L	10	10/04/21 11:45 AM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	10/01/21 11:50 AM
Cobalt	<0.00300	0.00300	0.00500		mg/L	1	10/01/21 11:50 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	10/01/21 11:50 AM
Lithium	0.0194	0.00500	0.0100		mg/L	1	10/04/21 12:02 PM
Molybdenum	<0.00200	0.00200	0.00500		mg/L	1	10/01/21 11:50 AM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	10/01/21 11:50 AM
Thallium	<0.000500	0.000500	0.00150		mg/L	1	10/01/21 11:50 AM
MERCURY TOTAL: AQUEOUS		SW7470A		Analyst: JVR			
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	10/07/21 03:09 PM
ANIONS BY IC METHOD - WATER		E300		Analyst: BM			
Chloride	127	3.00	10.0		mg/L	10	10/06/21 01:34 AM
Fluoride	0.559	0.100	0.400		mg/L	1	10/06/21 08:51 AM
Sulfate	190	10.0	30.0		mg/L	10	10/06/21 01:34 AM
TOTAL DISSOLVED SOLIDS		M2540C		Analyst: JS			
Total Dissolved Solids (Residue, Filterable)	831	10.0	10.0		mg/L	1	09/30/21 04:05 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 09-Nov-21

CLIENT: Golder
Project: 2H21 Coleta Creek Power Plant
Project No: 19122262-B2021
Lab Order: 2109210

Client Sample ID: MW-10
Lab ID: 2109210-10
Collection Date: 09/28/21 03:25 PM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		SW6020B		Analyst: SP			
Antimony	<0.000800	0.000800	0.00250		mg/L	1	10/01/21 11:53 AM
Arsenic	0.0143	0.00200	0.00500		mg/L	1	10/01/21 11:53 AM
Barium	0.0477	0.00300	0.0100		mg/L	1	10/01/21 11:53 AM
Beryllium	<0.000300	0.000300	0.00100		mg/L	1	10/01/21 11:53 AM
Boron	7.48	0.100	0.300		mg/L	10	10/04/21 11:47 AM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	10/01/21 11:53 AM
Calcium	32.9	1.00	3.00		mg/L	10	10/04/21 11:47 AM
Chromium	<0.00200	0.00200	0.00500		mg/L	1	10/01/21 11:53 AM
Cobalt	0.00607	0.00300	0.00500		mg/L	1	10/01/21 11:53 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	10/01/21 11:53 AM
Lithium	0.0109	0.00500	0.0100		mg/L	1	10/04/21 12:25 PM
Molybdenum	0.108	0.00200	0.00500		mg/L	1	10/01/21 11:53 AM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	10/01/21 11:53 AM
Thallium	<0.000500	0.000500	0.00150		mg/L	1	10/01/21 11:53 AM
MERCURY TOTAL: AQUEOUS		SW7470A		Analyst: JVR			
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	10/07/21 03:11 PM
ANIONS BY IC METHOD - WATER		E300		Analyst: BM			
Chloride	54.2	3.00	10.0		mg/L	10	10/06/21 01:53 AM
Fluoride	0.960	0.100	0.400		mg/L	1	10/06/21 09:10 AM
Sulfate	76.8	1.00	3.00		mg/L	1	10/06/21 09:10 AM
TOTAL DISSOLVED SOLIDS		M2540C		Analyst: JS			
Total Dissolved Solids (Residue, Filterable)	507	10.0	10.0		mg/L	1	09/30/21 04:05 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coleta Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_210728C

Sample ID: DCS-101411	Batch ID: 101411	TestNo: SW7470A	Units: mg/L							
SampType: DCS	Run ID: CETAC2_HG_210728C	Analysis Date: 7/28/2021 1:24:11 PM	Prep Date: 7/27/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.000189	0.000200	0.000200	0	94.5	82	119	0	0	

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

- DF Dilution Factor
- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coletto Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_211007C

The QC data in batch 102255 applies to the following samples: 2109210-01A, 2109210-02A, 2109210-03A, 2109210-04A, 2109210-05A, 2109210-06A, 2109210-07A, 2109210-08A, 2109210-09A, 2109210-10A

Sample ID: MB-102255	Batch ID: 102255	TestNo: SW7470A	Units: mg/L							
SampType: MBLK	Run ID: CETAC2_HG_211007C	Analysis Date: 10/7/2021 2:26:30 PM	Prep Date: 10/4/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0000800	0.000200								

Sample ID: LCS-102255	Batch ID: 102255	TestNo: SW7470A	Units: mg/L							
SampType: LCS	Run ID: CETAC2_HG_211007C	Analysis Date: 10/7/2021 2:31:03 PM	Prep Date: 10/4/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00204	0.000200	0.00200	0	102	85	115			

Sample ID: LCSD-102255	Batch ID: 102255	TestNo: SW7470A	Units: mg/L							
SampType: LCSD	Run ID: CETAC2_HG_211007C	Analysis Date: 10/7/2021 2:33:19 PM	Prep Date: 10/4/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00205	0.000200	0.00200	0	103	85	115	0.489	15	

Sample ID: 2109206-01C MS	Batch ID: 102255	TestNo: SW7470A	Units: mg/L							
SampType: MS	Run ID: CETAC2_HG_211007C	Analysis Date: 10/7/2021 2:37:51 PM	Prep Date: 10/4/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0101	0.00100	0.0100	0	101	80	120			

Sample ID: 2109206-01C MSD	Batch ID: 102255	TestNo: SW7470A	Units: mg/L							
SampType: MSD	Run ID: CETAC2_HG_211007C	Analysis Date: 10/7/2021 2:40:07 PM	Prep Date: 10/4/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0102	0.00100	0.0100	0	102	80	120	0.494	15	

Sample ID: 2109206-01C SD	Batch ID: 102255	TestNo: SW7470A	Units: mg/L							
SampType: SD	Run ID: CETAC2_HG_211007C	Analysis Date: 10/7/2021 2:42:23 PM	Prep Date: 10/4/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.00200	0.00500	0	0				0	10	

Sample ID: 2109206-01C PDS	Batch ID: 102255	TestNo: SW7470A	Units: mg/L							
SampType: PDS	Run ID: CETAC2_HG_211007C	Analysis Date: 10/7/2021 2:44:39 PM	Prep Date: 10/4/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0123	0.00100	0.0125	0	98.4	85	115			

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coleta Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_211007C

Sample ID: ICV-211007	Batch ID: R117417	TestNo: SW7470A	Units: mg/L							
SampType: ICV	Run ID: CETAC2_HG_211007C	Analysis Date: 10/7/2021 1:57:01 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Mercury	0.00409	0.000200	0.00400	0	102	90	110			
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Sample ID: CCV1-211007	Batch ID: R117417	TestNo: SW7470A	Units: mg/L							
SampType: CCV	Run ID: CETAC2_HG_211007C	Analysis Date: 10/7/2021 2:58:18 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Mercury	0.00201	0.000200	0.00200	0	101	90	110			
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Sample ID: CCV2-211007	Batch ID: R117417	TestNo: SW7470A	Units: mg/L							
SampType: CCV	Run ID: CETAC2_HG_211007C	Analysis Date: 10/7/2021 3:14:17 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Mercury	0.00197	0.000200	0.00200	0	98.5	90	110			
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<p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAP certified</p>
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CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coletto Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_210803A

Sample ID: DCS2-101483	Batch ID: 101483	TestNo: SW6020B	Units: mg/L
SampType: DCS2	Run ID: ICP-MS4_210803A	Analysis Date: 8/3/2021 1:21:00 PM	Prep Date: 8/2/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	0.278	0.300	0.300	0	92.6	70	130	0	0	

Sample ID: DCS3-101483	Batch ID: 101483	TestNo: SW6020B	Units: mg/L
SampType: DCS3	Run ID: ICP-MS4_210803A	Analysis Date: 8/3/2021 1:24:00 PM	Prep Date: 8/2/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lithium	0.00475	0.0100	0.00500	0	95.0	70	130	0	0	

Sample ID: DCS4-101483	Batch ID: 101483	TestNo: SW6020B	Units: mg/L
SampType: DCS4	Run ID: ICP-MS4_210803A	Analysis Date: 8/3/2021 1:27:00 PM	Prep Date: 8/2/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	0.0315	0.0300	0.0300	0	105	70	130	0	0	

Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAP certified
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CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coletto Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_211004A

The QC data in batch 102242 applies to the following samples: 2109210-01A, 2109210-02A, 2109210-03A, 2109210-04A, 2109210-05A, 2109210-06A, 2109210-07A, 2109210-08A, 2109210-09A, 2109210-10A

Sample ID: MB-102242	Batch ID: 102242	TestNo: SW6020B	Units: mg/L							
SampType: MBLK	Run ID: ICP-MS4_211004A	Analysis Date: 10/4/2021 10:48:00 AM	Prep Date: 9/30/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	<0.0100	0.0300								
Lithium	<0.00500	0.0100								

Sample ID: LCS-102242	Batch ID: 102242	TestNo: SW6020B	Units: mg/L							
SampType: LCS	Run ID: ICP-MS4_211004A	Analysis Date: 10/4/2021 10:50:00 AM	Prep Date: 9/30/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	0.188	0.0300	0.200	0	93.9	80	120			
Lithium	0.205	0.0100	0.200	0	103	80	120			

Sample ID: LCS-102242	Batch ID: 102242	TestNo: SW6020B	Units: mg/L							
SampType: LCS	Run ID: ICP-MS4_211004A	Analysis Date: 10/4/2021 10:52:00 AM	Prep Date: 9/30/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	0.202	0.0300	0.200	0	101	80	120	7.13	15	
Lithium	0.206	0.0100	0.200	0	103	80	120	0.176	15	

Sample ID: 2109173-01A SD	Batch ID: 102242	TestNo: SW6020B	Units: mg/L							
SampType: SD	Run ID: ICP-MS4_211004A	Analysis Date: 10/4/2021 10:58:00 AM	Prep Date: 9/30/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	3.49	7.50	0	3.58				2.51	20	

Sample ID: 2109173-01A PDS	Batch ID: 102242	TestNo: SW6020B	Units: mg/L							
SampType: PDS	Run ID: ICP-MS4_211004A	Analysis Date: 10/4/2021 11:16:00 AM	Prep Date: 9/30/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	13.1	1.50	10.0	3.58	95.4	75	125			

Sample ID: 2109173-01A MS	Batch ID: 102242	TestNo: SW6020B	Units: mg/L							
SampType: MS	Run ID: ICP-MS4_211004A	Analysis Date: 10/4/2021 11:20:00 AM	Prep Date: 9/30/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	3.57	1.50	0.200	3.58	-5.12	75	125			S

Sample ID: 2109173-01A MSD	Batch ID: 102242	TestNo: SW6020B	Units: mg/L							
SampType: MSD	Run ID: ICP-MS4_211004A	Analysis Date: 10/4/2021 11:22:00 AM	Prep Date: 9/30/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coleta Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_211004A

Sample ID: 2109173-01A MSD	Batch ID: 102242	TestNo: SW6020B	Units: mg/L							
SampType: MSD	Run ID: ICP-MS4_211004A	Analysis Date: 10/4/2021 11:22:00 AM	Prep Date: 9/30/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	3.71	1.50	0.200	3.58	67.9	75	125	4.01	15	S

Sample ID: 2109173-01A SD	Batch ID: 102242	TestNo: SW6020B	Units: mg/L							
SampType: SD	Run ID: ICP-MS4_211004A	Analysis Date: 10/4/2021 12:13:00 PM	Prep Date: 9/30/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lithium	0.140	0.0500	0	0.128				8.54	20	

Sample ID: 2109173-01A PDS	Batch ID: 102242	TestNo: SW6020B	Units: mg/L							
SampType: PDS	Run ID: ICP-MS4_211004A	Analysis Date: 10/4/2021 12:27:00 PM	Prep Date: 9/30/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lithium	0.287	0.0100	0.200	0.129	79.4	75	125			

Sample ID: 2109173-01A MS	Batch ID: 102242	TestNo: SW6020B	Units: mg/L							
SampType: MS	Run ID: ICP-MS4_211004A	Analysis Date: 10/4/2021 12:30:00 PM	Prep Date: 9/30/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lithium	0.293	0.0100	0.200	0.129	82.3	75	125			

Sample ID: 2109173-01A MSD	Batch ID: 102242	TestNo: SW6020B	Units: mg/L							
SampType: MSD	Run ID: ICP-MS4_211004A	Analysis Date: 10/4/2021 12:31:00 PM	Prep Date: 9/30/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lithium	0.282	0.0100	0.200	0.129	76.6	75	125	3.94	15	

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coletto Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_211004A

Sample ID: ICV-211004	Batch ID: R117370	TestNo: SW6020B	Units: mg/L
SampType: ICV	Run ID: ICP-MS4_211004A	Analysis Date: 10/4/2021 10:34:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	0.0959	0.0300	0.100	0	95.9	90	110			
Calcium	2.49	0.300	2.50	0	99.6	90	110			
Lithium	0.0962	0.0100	0.100	0	96.2	90	110			

Sample ID: LCVL-211004	Batch ID: R117370	TestNo: SW6020B	Units: mg/L
SampType: LCVL	Run ID: ICP-MS4_211004A	Analysis Date: 10/4/2021 10:42:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	0.0184	0.0300	0.0200	0	92.1	80	120			
Calcium	0.0987	0.300	0.100	0	98.7	80	120			
Lithium	0.0107	0.0100	0.0100	0	107	80	120			

Sample ID: CCV1-211004	Batch ID: R117370	TestNo: SW6020B	Units: mg/L
SampType: CCV	Run ID: ICP-MS4_211004A	Analysis Date: 10/4/2021 11:24:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	0.205	0.0300	0.200	0	103	90	110			
Calcium	4.80	0.300	5.00	0	96.0	90	110			
Lithium	0.213	0.0100	0.200	0	107	90	110			

Sample ID: CCV2-211004	Batch ID: R117370	TestNo: SW6020B	Units: mg/L
SampType: CCV	Run ID: ICP-MS4_211004A	Analysis Date: 10/4/2021 11:52:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	0.195	0.0300	0.200	0	97.6	90	110			
Calcium	4.69	0.300	5.00	0	93.9	90	110			
Lithium	0.220	0.0100	0.200	0	110	90	110			

Sample ID: CCV3-211004	Batch ID: R117370	TestNo: SW6020B	Units: mg/L
SampType: CCV	Run ID: ICP-MS4_211004A	Analysis Date: 10/4/2021 12:07:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	0.199	0.0300	0.200	0	99.3	90	110			
Lithium	0.217	0.0100	0.200	0	108	90	110			

Sample ID: CCV4-211004	Batch ID: R117370	TestNo: SW6020B	Units: mg/L
SampType: CCV	Run ID: ICP-MS4_211004A	Analysis Date: 10/4/2021 12:37:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lithium	0.193	0.0100	0.200	0	96.7	90	110			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coleta Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_210803A

Sample ID: DCS1-101483	Batch ID: 101483	TestNo: SW6020B	Units: mg/L
SampType: DCS	Run ID: ICP-MS5_210803A	Analysis Date: 8/3/2021 11:08:00 AM	Prep Date: 8/2/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00124	0.00250	0.00100	0	124	70	130	0	0	
Beryllium	0.000576	0.00100	0.000500	0	115	70	130	0	0	
Cadmium	0.000583	0.00100	0.000500	0	117	70	130	0	0	
Lead	0.000564	0.00100	0.000500	0	113	70	130	0	0	
Thallium	0.000544	0.00150	0.000500	0	109	70	130	0	0	

Sample ID: DCS2-101483	Batch ID: 101483	TestNo: SW6020B	Units: mg/L
SampType: DCS2	Run ID: ICP-MS5_210803A	Analysis Date: 8/3/2021 11:11:00 AM	Prep Date: 8/2/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	0.277	0.300	0.300	0	92.2	70	130	0	0	

Sample ID: DCS3-101483	Batch ID: 101483	TestNo: SW6020B	Units: mg/L
SampType: DCS3	Run ID: ICP-MS5_210803A	Analysis Date: 8/3/2021 11:14:00 AM	Prep Date: 8/2/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00538	0.00500	0.00500	0	108	70	130	0	0	
Barium	0.00505	0.0100	0.00500	0	101	70	130	0	0	
Chromium	0.00554	0.00500	0.00500	0	111	70	130	0	0	
Cobalt	0.00552	0.00500	0.00500	0	110	70	130	0	0	
Molybdenum	0.00525	0.00500	0.00500	0	105	70	130	0	0	
Selenium	0.00540	0.00500	0.00500	0	108	70	130	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coletto Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_211001A

The QC data in batch 102242 applies to the following samples: 2109210-01A, 2109210-02A, 2109210-03A, 2109210-04A, 2109210-05A, 2109210-06A, 2109210-07A, 2109210-08A, 2109210-09A, 2109210-10A

Sample ID: MB-102242	Batch ID: 102242	TestNo: SW6020B	Units: mg/L
SampType: MBLK	Run ID: ICP-MS5_211001A	Analysis Date: 10/1/2021 10:48:00 AM	Prep Date: 9/30/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.000800	0.00250								
Arsenic	<0.00200	0.00500								
Barium	<0.00300	0.0100								
Beryllium	<0.000300	0.00100								
Cadmium	<0.000300	0.00100								
Calcium	<0.100	0.300								
Chromium	<0.00200	0.00500								
Cobalt	<0.00300	0.00500								
Lead	<0.000300	0.00100								
Molybdenum	<0.00200	0.00500								
Selenium	<0.00200	0.00500								
Thallium	<0.000500	0.00150								

Sample ID: LCS-102242	Batch ID: 102242	TestNo: SW6020B	Units: mg/L
SampType: LCS	Run ID: ICP-MS5_211001A	Analysis Date: 10/1/2021 10:51:00 AM	Prep Date: 9/30/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.191	0.00250	0.200	0	95.7	80	120			
Arsenic	0.199	0.00500	0.200	0	99.3	80	120			
Barium	0.195	0.0100	0.200	0	97.3	80	120			
Beryllium	0.189	0.00100	0.200	0	94.3	80	120			
Cadmium	0.199	0.00100	0.200	0	99.6	80	120			
Calcium	4.87	0.300	5.00	0	97.4	80	120			
Chromium	0.198	0.00500	0.200	0	99.1	80	120			
Cobalt	0.205	0.00500	0.200	0	102	80	120			
Lead	0.194	0.00100	0.200	0	97.2	80	120			
Molybdenum	0.194	0.00500	0.200	0	97.0	80	120			
Selenium	0.204	0.00500	0.200	0	102	80	120			
Thallium	0.195	0.00150	0.200	0	97.3	80	120			

Sample ID: LCSD-102242	Batch ID: 102242	TestNo: SW6020B	Units: mg/L
SampType: LCSD	Run ID: ICP-MS5_211001A	Analysis Date: 10/1/2021 10:54:00 AM	Prep Date: 9/30/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.195	0.00250	0.200	0	97.7	80	120	2.10	15	
Arsenic	0.203	0.00500	0.200	0	101	80	120	2.19	15	
Barium	0.197	0.0100	0.200	0	98.6	80	120	1.34	15	
Beryllium	0.192	0.00100	0.200	0	95.9	80	120	1.76	15	
Cadmium	0.201	0.00100	0.200	0	101	80	120	1.07	15	

<p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAP certified</p>
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CLIENT: Golder
 Work Order: 2109210
 Project: 2H21 Coletto Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_211001A

Sample ID: LCSD-102242	Batch ID: 102242	TestNo: SW6020B	Units: mg/L
SampType: LCSD	Run ID: ICP-MS5_211001A	Analysis Date: 10/1/2021 10:54:00 AM	Prep Date: 9/30/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	4.87	0.300	5.00	0	97.5	80	120	0.116	15	
Chromium	0.202	0.00500	0.200	0	101	80	120	1.95	15	
Cobalt	0.208	0.00500	0.200	0	104	80	120	1.35	15	
Lead	0.198	0.00100	0.200	0	99.2	80	120	2.04	15	
Molybdenum	0.196	0.00500	0.200	0	98.1	80	120	1.19	15	
Selenium	0.203	0.00500	0.200	0	102	80	120	0.081	15	
Thallium	0.198	0.00150	0.200	0	99.0	80	120	1.69	15	

Sample ID: 2109173-01A SD	Batch ID: 102242	TestNo: SW6020B	Units: mg/L
SampType: SD	Run ID: ICP-MS5_211001A	Analysis Date: 10/1/2021 11:01:00 AM	Prep Date: 9/30/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.00400	0.0125	0	0.00130				0	20	
Arsenic	<0.0100	0.0250	0	0				0	20	
Barium	0.0513	0.0500	0	0.0518				0.929	20	
Beryllium	<0.00150	0.00500	0	0				0	20	
Cadmium	<0.00150	0.00500	0	0				0	20	
Calcium	14.3	1.50	0	14.1				1.80	20	
Chromium	<0.0100	0.0250	0	0				0	20	
Cobalt	<0.0150	0.0250	0	0				0	20	
Lead	<0.00150	0.00500	0	0				0	20	
Molybdenum	0.0256	0.0250	0	0.0253				0.959	20	
Selenium	<0.0100	0.0250	0	0				0	20	
Thallium	<0.00250	0.00750	0	0				0	20	

Sample ID: 2109173-01A PDS	Batch ID: 102242	TestNo: SW6020B	Units: mg/L
SampType: PDS	Run ID: ICP-MS5_211001A	Analysis Date: 10/1/2021 11:27:00 AM	Prep Date: 9/30/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.191	0.00250	0.200	0.00130	94.9	75	125			
Arsenic	0.182	0.00500	0.200	0	90.8	75	125			
Barium	0.241	0.0100	0.200	0.0518	94.6	75	125			
Beryllium	0.178	0.00100	0.200	0	88.9	75	125			
Cadmium	0.189	0.00100	0.200	0	94.5	75	125			
Calcium	17.4	0.300	5.00	14.1	66.6	75	125			S
Chromium	0.191	0.00500	0.200	0	95.3	75	125			
Cobalt	0.189	0.00500	0.200	0	94.5	75	125			
Lead	0.192	0.00100	0.200	0	96.2	75	125			
Molybdenum	0.211	0.00500	0.200	0.0253	93.1	75	125			
Selenium	0.173	0.00500	0.200	0	86.5	75	125			
Thallium	0.191	0.00150	0.200	0	95.6	75	125			

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coletto Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_211001A

Sample ID: 2109173-01A MS	Batch ID: 102242	TestNo: SW6020B	Units: mg/L
SampType: MS	Run ID: ICP-MS5_211001A	Analysis Date: 10/1/2021 11:31:00 AM	Prep Date: 9/30/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.193	0.00250	0.200	0.00130	95.9	75	125			
Arsenic	0.189	0.00500	0.200	0	94.5	75	125			
Barium	0.246	0.0100	0.200	0.0518	96.9	75	125			
Beryllium	0.187	0.00100	0.200	0	93.7	75	125			
Cadmium	0.191	0.00100	0.200	0	95.3	75	125			
Calcium	18.6	0.300	5.00	14.1	91.6	75	125			
Chromium	0.191	0.00500	0.200	0	95.4	75	125			
Cobalt	0.191	0.00500	0.200	0	95.4	75	125			
Lead	0.194	0.00100	0.200	0	96.9	75	125			
Molybdenum	0.220	0.00500	0.200	0.0253	97.3	75	125			
Selenium	0.174	0.00500	0.200	0	87.2	75	125			
Thallium	0.193	0.00150	0.200	0	96.5	75	125			

Sample ID: 2109173-01A MSD	Batch ID: 102242	TestNo: SW6020B	Units: mg/L
SampType: MSD	Run ID: ICP-MS5_211001A	Analysis Date: 10/1/2021 11:34:00 AM	Prep Date: 9/30/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.194	0.00250	0.200	0.00130	96.5	75	125	0.686	15	
Arsenic	0.190	0.00500	0.200	0	95.0	75	125	0.584	15	
Barium	0.250	0.0100	0.200	0.0518	99.4	75	125	1.95	15	
Beryllium	0.184	0.00100	0.200	0	92.1	75	125	1.72	15	
Cadmium	0.192	0.00100	0.200	0	95.9	75	125	0.588	15	
Calcium	19.3	0.300	5.00	14.1	104	75	125	3.25	15	
Chromium	0.191	0.00500	0.200	0	95.3	75	125	0.085	15	
Cobalt	0.191	0.00500	0.200	0	95.4	75	125	0.060	15	
Lead	0.195	0.00100	0.200	0	97.7	75	125	0.800	15	
Molybdenum	0.221	0.00500	0.200	0.0253	98.1	75	125	0.644	15	
Selenium	0.170	0.00500	0.200	0	84.9	75	125	2.68	15	
Thallium	0.195	0.00150	0.200	0	97.5	75	125	0.971	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coletto Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_211001A

Sample ID: ICV-211001	Batch ID: R117365	TestNo: SW6020B	Units: mg/L
SampType: ICV	Run ID: ICP-MS5_211001A	Analysis Date: 10/1/2021 10:34:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.101	0.00250	0.100	0	101	90	110			
Arsenic	0.101	0.00500	0.100	0	101	90	110			
Barium	0.102	0.0100	0.100	0	102	90	110			
Beryllium	0.0932	0.00100	0.100	0	93.2	90	110			
Cadmium	0.103	0.00100	0.100	0	103	90	110			
Calcium	2.39	0.300	2.50	0	95.4	90	110			
Chromium	0.104	0.00500	0.100	0	104	90	110			
Cobalt	0.107	0.00500	0.100	0	107	90	110			
Lead	0.101	0.00100	0.100	0	101	90	110			
Molybdenum	0.0978	0.00500	0.100	0	97.8	90	110			
Selenium	0.104	0.00500	0.100	0	104	90	110			
Thallium	0.100	0.00150	0.100	0	100	90	110			

Sample ID: LCVL-211001	Batch ID: R117365	TestNo: SW6020B	Units: mg/L
SampType: LCVL	Run ID: ICP-MS5_211001A	Analysis Date: 10/1/2021 10:39:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00200	0.00250	0.00200	0	100	80	120			
Arsenic	0.00532	0.00500	0.00500	0	106	80	120			
Barium	0.00485	0.0100	0.00500	0	97.0	80	120			
Beryllium	0.000999	0.00100	0.00100	0	99.9	80	120			
Cadmium	0.00111	0.00100	0.00100	0	111	80	120			
Calcium	0.103	0.300	0.100	0	103	80	120			
Chromium	0.00519	0.00500	0.00500	0	104	80	120			
Cobalt	0.00520	0.00500	0.00500	0	104	80	120			
Lead	0.00102	0.00100	0.00100	0	102	80	120			
Molybdenum	0.00494	0.00500	0.00500	0	98.7	80	120			
Selenium	0.00515	0.00500	0.00500	0	103	80	120			
Thallium	0.00103	0.00150	0.00100	0	103	80	120			

Sample ID: CCV1-211001	Batch ID: R117365	TestNo: SW6020B	Units: mg/L
SampType: CCV	Run ID: ICP-MS5_211001A	Analysis Date: 10/1/2021 11:36:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.196	0.00250	0.200	0	98.2	90	110			
Arsenic	0.200	0.00500	0.200	0	99.8	90	110			
Barium	0.199	0.0100	0.200	0	99.6	90	110			
Beryllium	0.201	0.00100	0.200	0	100	90	110			
Cadmium	0.197	0.00100	0.200	0	98.7	90	110			
Calcium	4.93	0.300	5.00	0	98.6	90	110			
Chromium	0.200	0.00500	0.200	0	100	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coleta Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_211001A

Sample ID: CCV1-211001	Batch ID: R117365	TestNo: SW6020B	Units: mg/L
SampType: CCV	Run ID: ICP-MS5_211001A	Analysis Date: 10/1/2021 11:36:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cobalt	0.208	0.00500	0.200	0	104	90	110			
Lead	0.198	0.00100	0.200	0	98.9	90	110			
Molybdenum	0.196	0.00500	0.200	0	98.0	90	110			
Selenium	0.208	0.00500	0.200	0	104	90	110			
Thallium	0.198	0.00150	0.200	0	99.1	90	110			

Sample ID: CCV2-211001	Batch ID: R117365	TestNo: SW6020B	Units: mg/L
SampType: CCV	Run ID: ICP-MS5_211001A	Analysis Date: 10/1/2021 11:56:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.204	0.00250	0.200	0	102	90	110			
Arsenic	0.208	0.00500	0.200	0	104	90	110			
Barium	0.203	0.0100	0.200	0	101	90	110			
Beryllium	0.199	0.00100	0.200	0	99.7	90	110			
Cadmium	0.209	0.00100	0.200	0	105	90	110			
Chromium	0.211	0.00500	0.200	0	105	90	110			
Cobalt	0.219	0.00500	0.200	0	110	90	110			
Lead	0.203	0.00100	0.200	0	102	90	110			
Molybdenum	0.203	0.00500	0.200	0	101	90	110			
Selenium	0.212	0.00500	0.200	0	106	90	110			
Thallium	0.204	0.00150	0.200	0	102	90	110			

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAP certified

ANALYTICAL QC SUMMARY REPORT

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coleta Creek Power Plant

RunID: IC2_210928A

Sample ID: DCS2-102216	Batch ID: 102216	TestNo: E300	Units: mg/L							
SampType: DCS2	Run ID: IC2_210928A	Analysis Date: 9/28/2021 1:38:01 PM	Prep Date: 9/28/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	0.533	1.00	0.5000	0	107	70	130	0	0	

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coletto Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_211006B

The QC data in batch 102298 applies to the following samples: 2109210-03B

Sample ID: MB-102298	Batch ID: 102298	TestNo: E300	Units: mg/L							
SampType: MBLK	Run ID: IC2_211006B	Analysis Date: 10/6/2021 4:52:16 PM	Prep Date: 10/6/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	<0.300	1.00								

Sample ID: LCS-102298	Batch ID: 102298	TestNo: E300	Units: mg/L							
SampType: LCS	Run ID: IC2_211006B	Analysis Date: 10/6/2021 5:08:16 PM	Prep Date: 10/6/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	10.1	1.00	10.00	0	101	90	110			

Sample ID: LCSD-102298	Batch ID: 102298	TestNo: E300	Units: mg/L							
SampType: LCSD	Run ID: IC2_211006B	Analysis Date: 10/6/2021 5:24:16 PM	Prep Date: 10/6/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.99	1.00	10.00	0	99.9	90	110	0.782	20	

Sample ID: 2110019-01BMS	Batch ID: 102298	TestNo: E300	Units: mg/L							
SampType: MS	Run ID: IC2_211006B	Analysis Date: 10/6/2021 8:20:16 PM	Prep Date: 10/6/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	1940	100	2000	0	96.8	90	110			

Sample ID: 2110019-01BMSD	Batch ID: 102298	TestNo: E300	Units: mg/L							
SampType: MSD	Run ID: IC2_211006B	Analysis Date: 10/6/2021 8:36:16 PM	Prep Date: 10/6/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	1920	100	2000	0	96.2	90	110	0.634	20	

Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAP certified
--	---

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coletto Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_211006B

Sample ID: ICV-211006	Batch ID: R117406	TestNo: E300	Units: mg/L							
SampType: ICV	Run ID: IC2_211006B	Analysis Date: 10/6/2021 12:08:08 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	24.6	1.00	25.00	0	98.5	90	110			
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Sample ID: CCV1-211006	Batch ID: R117406	TestNo: E300	Units: mg/L							
SampType: CCV	Run ID: IC2_211006B	Analysis Date: 10/6/2021 3:52:08 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	9.94	1.00	10.00	0	99.4	90	110			
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Sample ID: CCV2-211006	Batch ID: R117406	TestNo: E300	Units: mg/L							
SampType: CCV	Run ID: IC2_211006B	Analysis Date: 10/6/2021 9:24:15 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	10.2	1.00	10.00	0	102	90	110			
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Sample ID: CCV3-211006	Batch ID: R117406	TestNo: E300	Units: mg/L							
SampType: CCV	Run ID: IC2_211006B	Analysis Date: 10/6/2021 11:16:15 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	10.3	1.00	10.00	0	103	90	110			
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Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coleta Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_210930A

Sample ID: DCS2-102243	Batch ID: 102243	TestNo: E300	Units: mg/L
SampType: DCS2	Run ID: IC4_210930A	Analysis Date: 9/30/2021 4:11:30 PM	Prep Date: 9/30/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	0.505	1.00	0.5000	0	101	70	130	0	0	
Fluoride	0.163	0.400	0.2000	0	81.3	70	130	0	0	

Sample ID: DCS3-102243	Batch ID: 102243	TestNo: E300	Units: mg/L
SampType: DCS3	Run ID: IC4_210930A	Analysis Date: 9/30/2021 4:30:30 PM	Prep Date: 9/30/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	3.08	3.00	3.000	0	103	70	130	0	0	

Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAP certified
--	---

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coletto Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_211005B

The QC data in batch 102275 applies to the following samples: 2109210-01B, 2109210-02B, 2109210-03B, 2109210-04B, 2109210-05B, 2109210-06B, 2109210-07B, 2109210-08B, 2109210-09B, 2109210-10B

Sample ID: MB-102275	Batch ID: 102275	TestNo: E300	Units: mg/L
SampType: MBLK	Run ID: IC4_211005B	Analysis Date: 10/5/2021 9:46:19 PM	Prep Date: 10/5/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	<0.300	1.00								
Fluoride	<0.100	0.400								
Sulfate	<1.00	3.00								

Sample ID: LCS-102275	Batch ID: 102275	TestNo: E300	Units: mg/L
SampType: LCS	Run ID: IC4_211005B	Analysis Date: 10/5/2021 10:05:19 PM	Prep Date: 10/5/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.62	1.00	10.00	0	96.2	90	110			
Fluoride	4.01	0.400	4.000	0	100	90	110			
Sulfate	30.8	3.00	30.00	0	103	90	110			

Sample ID: LCS-102275	Batch ID: 102275	TestNo: E300	Units: mg/L
SampType: LCS	Run ID: IC4_211005B	Analysis Date: 10/5/2021 10:24:19 PM	Prep Date: 10/5/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.59	1.00	10.00	0	95.9	90	110	0.235	20	
Fluoride	4.02	0.400	4.000	0	100	90	110	0.168	20	
Sulfate	31.1	3.00	30.00	0	104	90	110	1.02	20	

Sample ID: 2109210-01BMS	Batch ID: 102275	TestNo: E300	Units: mg/L
SampType: MS	Run ID: IC4_211005B	Analysis Date: 10/5/2021 11:02:19 PM	Prep Date: 10/5/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	321	10.0	200.0	146.1	87.3	90	110			S
Fluoride	194	4.00	200.0	2.073	96.1	90	110			
Sulfate	356	30.0	200.0	168.9	93.6	90	110			

Sample ID: 2109210-01BMSD	Batch ID: 102275	TestNo: E300	Units: mg/L
SampType: MSD	Run ID: IC4_211005B	Analysis Date: 10/5/2021 11:21:19 PM	Prep Date: 10/5/2021

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	320	10.0	200.0	146.1	87.2	90	110	0.064	20	S
Fluoride	194	4.00	200.0	2.073	96.0	90	110	0.047	20	
Sulfate	356	30.0	200.0	168.9	93.6	90	110	0.042	20	

<p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAP certified</p>
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CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coletto Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_211005B

Sample ID: 2109228-07BMS	Batch ID: 102275	TestNo: E300	Units: mg/L							
SampType: MS	Run ID: IC4_211005B	Analysis Date: 10/6/2021 4:06:18 AM	Prep Date: 10/5/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	235	10.0	200.0	59.61	87.8	90	110			S
Fluoride	195	4.00	200.0	0	97.3	90	110			
Sulfate	205	30.0	200.0	0	103	90	110			

Sample ID: 2109228-07BMSD	Batch ID: 102275	TestNo: E300	Units: mg/L							
SampType: MSD	Run ID: IC4_211005B	Analysis Date: 10/6/2021 4:25:18 AM	Prep Date: 10/5/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	239	10.0	200.0	59.61	89.8	90	110	1.68	20	
Fluoride	199	4.00	200.0	0	99.5	90	110	2.21	20	
Sulfate	209	30.0	200.0	0	105	90	110	1.91	20	

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coletto Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_211005B

Sample ID: ICV-211005	Batch ID: R117396	TestNo: E300	Units: mg/L
SampType: ICV	Run ID: IC4_211005B	Analysis Date: 10/5/2021 1:42:32 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	25.2	1.00	25.00	0	101	90	110			
Fluoride	10.3	0.400	10.00	0	103	90	110			
Sulfate	79.5	3.00	75.00	0	106	90	110			

Sample ID: CCV1-211005	Batch ID: R117396	TestNo: E300	Units: mg/L
SampType: CCV	Run ID: IC4_211005B	Analysis Date: 10/5/2021 9:08:19 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.63	1.00	10.00	0	96.3	90	110			
Fluoride	4.01	0.400	4.000	0	100	90	110			
Sulfate	30.9	3.00	30.00	0	103	90	110			

Sample ID: CCV2-211005	Batch ID: R117396	TestNo: E300	Units: mg/L
SampType: CCV	Run ID: IC4_211005B	Analysis Date: 10/6/2021 3:09:18 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.58	1.00	10.00	0	95.8	90	110			
Fluoride	4.02	0.400	4.000	0	101	90	110			
Sulfate	30.8	3.00	30.00	0	103	90	110			

Sample ID: CCV3-211005	Batch ID: R117396	TestNo: E300	Units: mg/L
SampType: CCV	Run ID: IC4_211005B	Analysis Date: 10/6/2021 8:13:18 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.62	1.00	10.00	0	96.2	90	110			
Fluoride	4.05	0.400	4.000	0	101	90	110			
Sulfate	31.2	3.00	30.00	0	104	90	110			

Sample ID: CCV4-211005	Batch ID: R117396	TestNo: E300	Units: mg/L
SampType: CCV	Run ID: IC4_211005B	Analysis Date: 10/6/2021 12:39:18 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	4.03	0.400	4.000	0	101	90	110			
Sulfate	31.2	3.00	30.00	0	104	90	110			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coletto Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: WC_210930E

The QC data in batch 102241 applies to the following samples: 2109210-01B, 2109210-02B, 2109210-03B, 2109210-04B, 2109210-05B, 2109210-06B, 2109210-07B, 2109210-08B, 2109210-09B, 2109210-10B

Sample ID: MB-102241	Batch ID: 102241	TestNo: M2540C	Units: mg/L							
SampType: MBLK	Run ID: WC_210930E	Analysis Date: 9/30/2021 4:05:00 PM	Prep Date: 9/30/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera		<10.0	10.0							

Sample ID: LCS-102241	Batch ID: 102241	TestNo: M2540C	Units: mg/L							
SampType: LCS	Run ID: WC_210930E	Analysis Date: 9/30/2021 4:05:00 PM	Prep Date: 9/30/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera		749	10.0	745.6	0	100	90	113		

Sample ID: 2109214-01A-DUP	Batch ID: 102241	TestNo: M2540C	Units: mg/L							
SampType: DUP	Run ID: WC_210930E	Analysis Date: 9/30/2021 4:05:00 PM	Prep Date: 9/30/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera		1080	50.0	0	1110			3.20	5	

Sample ID: 2109214-02A-DUP	Batch ID: 102241	TestNo: M2540C	Units: mg/L							
SampType: DUP	Run ID: WC_210930E	Analysis Date: 9/30/2021 4:05:00 PM	Prep Date: 9/30/2021							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera		1120	50.0	0	1150			2.64	5	

Qualifiers:	<p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAP certified</p>
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CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coletto Creek Power Plant

MQL SUMMARY REPORT

TestNo: E300	MDL	MQL
Analyte	mg/L	mg/L
Chloride	0.300	1.00
Fluoride	0.100	0.400
Sulfate	1.00	3.00

TestNo: SW6020B	MDL	MQL
Analyte	mg/L	mg/L
Antimony	0.000800	0.00250
Arsenic	0.00200	0.00500
Barium	0.00300	0.0100
Beryllium	0.000300	0.00100
Boron	0.0100	0.0300
Cadmium	0.000300	0.00100
Calcium	0.100	0.300
Chromium	0.00200	0.00500
Cobalt	0.00300	0.00500
Lead	0.000300	0.00100
Lithium	0.00500	0.0100
Molybdenum	0.00200	0.00500
Selenium	0.00200	0.00500
Thallium	0.000500	0.00150

TestNo: SW7470A	MDL	MQL
Analyte	mg/L	mg/L
Mercury	0.0000800	0.000200

TestNo: M2540C	MDL	MQL
Analyte	mg/L	mg/L
Total Dissolved Solids (Residue, Filt	10.0	10.0

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
 MDL -Method Detection Limit as defined by TRRP

DHL Analytical, Inc.

Sample Delivery Group: L1411846
Samples Received: 10/01/2021
Project Number: 2109210
Description:

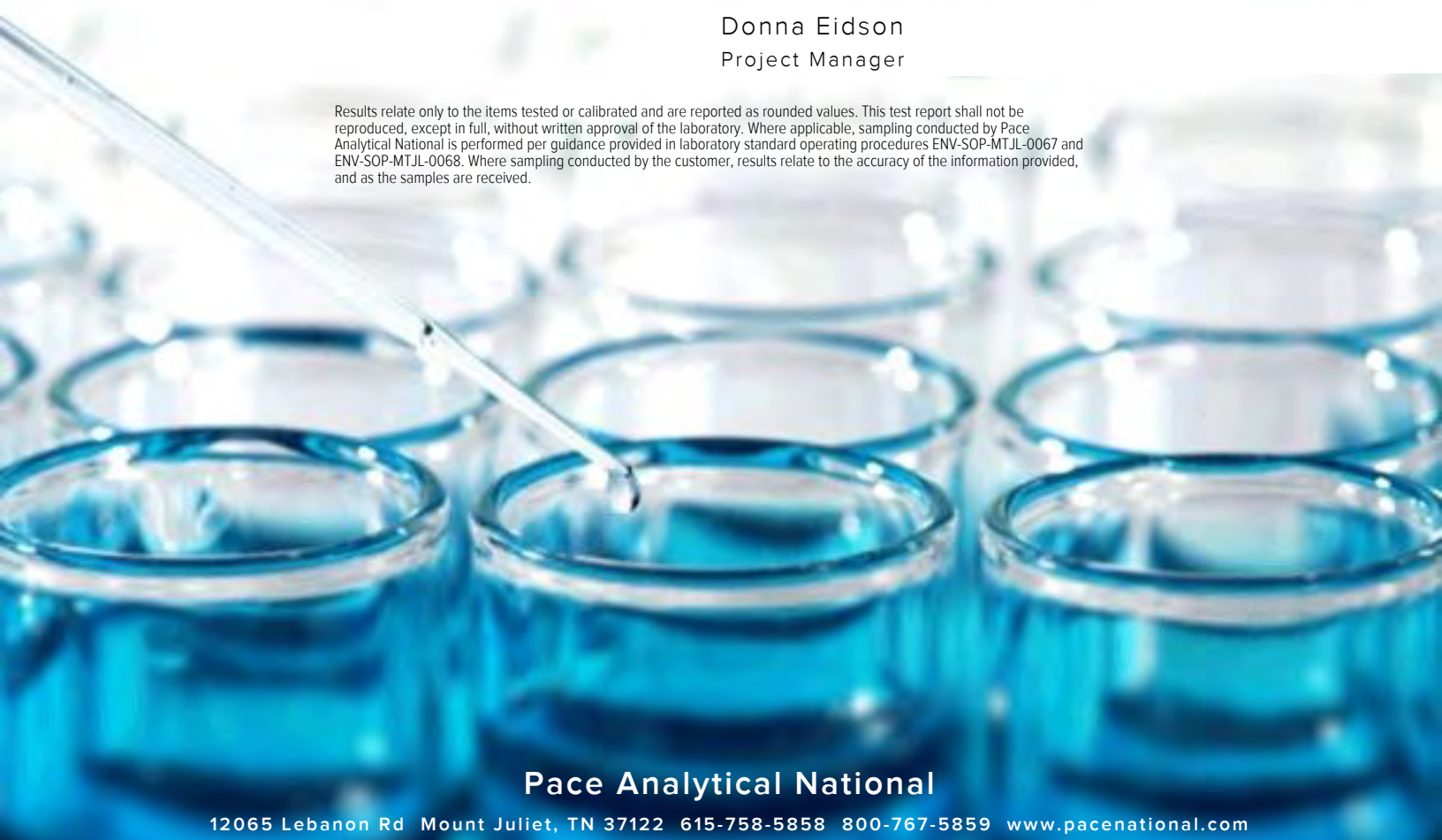
Report To: John DuPont
2300 Double Creek Drive
Round Rock, TX 78664

Entire Report Reviewed By:



Donna Eidson
Project Manager

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Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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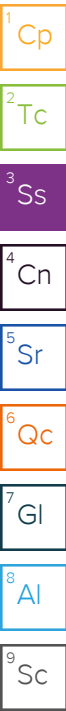
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SAMPLE SUMMARY

BU-5 L141846-01 Non-Potable Water

Collected by _____ Collected date/time 09/28/21 08:20 Received date/time 10/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method Calculation	WG1754687	1	10/26/21 10:35	10/28/21 17:40	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1754687	1	10/26/21 10:35	10/28/21 17:40	RGT	Mt. Juliet, TN



MW-4 L141846-02 Non-Potable Water

Collected by _____ Collected date/time 09/28/21 09:20 Received date/time 10/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method Calculation	WG1754687	1	10/26/21 10:35	10/28/21 17:40	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1754687	1	10/26/21 10:35	10/28/21 17:40	RGT	Mt. Juliet, TN

BU-21 L141846-03 Non-Potable Water

Collected by _____ Collected date/time 09/28/21 10:20 Received date/time 10/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method Calculation	WG1754687	1	10/26/21 10:35	10/28/21 17:40	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1754687	1	10/26/21 10:35	10/28/21 17:40	RGT	Mt. Juliet, TN

DUP 101 L141846-04 Non-Potable Water

Collected by _____ Collected date/time 09/28/21 10:30 Received date/time 10/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method Calculation	WG1754687	1	10/26/21 10:35	10/28/21 17:40	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1754687	1	10/26/21 10:35	10/28/21 17:40	RGT	Mt. Juliet, TN

MW-8 L141846-05 Non-Potable Water

Collected by _____ Collected date/time 09/28/21 11:20 Received date/time 10/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method Calculation	WG1754687	1	10/26/21 10:35	10/28/21 17:40	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1754687	1	10/26/21 10:35	10/28/21 17:40	RGT	Mt. Juliet, TN

MW-6 L141846-06 Non-Potable Water

Collected by _____ Collected date/time 09/28/21 12:15 Received date/time 10/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method Calculation	WG1754687	1	10/26/21 10:35	10/28/21 17:40	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1754687	1	10/26/21 10:35	10/28/21 17:40	RGT	Mt. Juliet, TN

MW-11 L141846-07 Non-Potable Water

Collected by _____ Collected date/time 09/28/21 13:15 Received date/time 10/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method Calculation	WG1754687	1	10/26/21 10:35	10/28/21 17:40	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1754687	1	10/26/21 10:35	10/28/21 17:40	RGT	Mt. Juliet, TN

SAMPLE SUMMARY

MW-9 L1411846-08 Non-Potable Water

Collected by _____ Collected date/time 09/28/21 14:00 Received date/time 10/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method Calculation	WG1754687	1	10/26/21 10:35	10/28/21 17:40	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1754687	1	10/26/21 10:35	10/28/21 17:40	RGT	Mt. Juliet, TN

¹Cp

²Tc

³Ss

MW-5 L1411846-09 Non-Potable Water

Collected by _____ Collected date/time 09/28/21 14:45 Received date/time 10/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method Calculation	WG1754687	1	10/26/21 10:35	10/28/21 17:40	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1754687	1	10/26/21 10:35	10/28/21 17:40	RGT	Mt. Juliet, TN

⁴Cn

⁵Sr

⁶Qc

MW-10 L1411846-10 Non-Potable Water

Collected by _____ Collected date/time 09/28/21 15:25 Received date/time 10/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method Calculation	WG1754687	1	10/26/21 10:35	10/28/21 17:40	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1754687	1	10/26/21 10:35	10/28/21 17:40	RGT	Mt. Juliet, TN

⁷Gl

⁸Al

⁹Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Donna Eidson
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.06		0.315	0.532	10/27/2021 12:05	WG1759106
(T) Barium	99.9			62.0-143	10/27/2021 12:05	WG1759106
(T) Yttrium	102			79.0-136	10/27/2021 12:05	WG1759106

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.29		0.546	0.815	10/28/2021 17:40	WG1754687

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.239	J	0.231	0.283	10/28/2021 17:40	WG1754687
(T) Barium-133	96.9			30.0-143	10/28/2021 17:40	WG1754687

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.91		0.312	0.53	10/27/2021 12:05	WG1759106
(T) Barium	94.5			62.0-143	10/27/2021 12:05	WG1759106
(T) Yttrium	96.1			79.0-136	10/27/2021 12:05	WG1759106

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.06		0.510	0.811	10/28/2021 17:40	WG1754687

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.151	J	0.198	0.281	10/28/2021 17:40	WG1754687
(T) Barium-133	91.4			30.0-143	10/28/2021 17:40	WG1754687

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.81		0.367	0.641	10/27/2021 12:05	WG1759106
(T) Barium	93.0			62.0-143	10/27/2021 12:05	WG1759106
(T) Yttrium	96.9			79.0-136	10/27/2021 12:05	WG1759106

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.83		0.851	0.997	10/28/2021 17:40	WG1754687

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.02		0.484	0.356	10/28/2021 17:40	WG1754687
(T) Barium-133	88.2			30.0-143	10/28/2021 17:40	WG1754687

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.28		0.346	0.618	10/27/2021 12:05	WG1759106
(T) Barium	92.2			62.0-143	10/27/2021 12:05	WG1759106
(T) Yttrium	101			79.0-136	10/27/2021 12:05	WG1759106

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.71		0.639	0.86	10/28/2021 17:40	WG1754687

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.426		0.293	0.242	10/28/2021 17:40	WG1754687
(T) Barium-133	83.0			30.0-143	10/28/2021 17:40	WG1754687

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.23		0.373	0.67	10/27/2021 12:05	WG1759106
(T) Barium	94.7			62.0-143	10/27/2021 12:05	WG1759106
(T) Yttrium	100			79.0-136	10/27/2021 12:05	WG1759106

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.32		0.528	0.927	10/28/2021 17:40	WG1754687

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0886	<u>U</u>	0.155	0.257	10/28/2021 17:40	WG1754687
(T) Barium-133	70.0			30.0-143	10/28/2021 17:40	WG1754687

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.60		0.547	0.991	10/27/2021 12:05	WG1759106
(T) Barium	94.8			62.0-143	10/27/2021 12:05	WG1759106
(T) Yttrium	89.9			79.0-136	10/27/2021 12:05	WG1759106

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.94		0.835	1.28	10/28/2021 17:40	WG1754687

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.334		0.288	0.289	10/28/2021 17:40	WG1754687
(T) Barium-133	68.7			30.0-143	10/28/2021 17:40	WG1754687

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.74		0.471	0.813	10/27/2021 12:05	WG1759106
(T) Barium	87.8			62.0-143	10/27/2021 12:05	WG1759106
(T) Yttrium	94.0			79.0-136	10/27/2021 12:05	WG1759106

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.77		0.578	1.05	10/28/2021 17:40	WG1754687

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0336	<u>U</u>	0.107	0.236	10/28/2021 17:40	WG1754687
(T) Barium-133	81.9			30.0-143	10/28/2021 17:40	WG1754687

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.75		0.392	0.693	10/27/2021 12:05	WG1759106
(T) Barium	98.3			62.0-143	10/27/2021 12:05	WG1759106
(T) Yttrium	95.4			79.0-136	10/27/2021 12:05	WG1759106

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.03		0.651	0.988	10/28/2021 17:40	WG1754687

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.278	J	0.259	0.295	10/28/2021 17:40	WG1754687
(T) Barium-133	83.7			30.0-143	10/28/2021 17:40	WG1754687

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.74		0.322	0.556	10/27/2021 12:05	WG1759106
(T) Barium	90.9			62.0-143	10/27/2021 12:05	WG1759106
(T) Yttrium	102			79.0-136	10/27/2021 12:05	WG1759106

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.05		0.576	0.811	10/28/2021 17:40	WG1754687

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.311		0.254	0.255	10/28/2021 17:40	WG1754687
(T) Barium-133	88.0			30.0-143	10/28/2021 17:40	WG1754687

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.472	J	0.307	0.571	10/27/2021 12:05	WG1759106
(T) Barium	101			62.0-143	10/27/2021 12:05	WG1759106
(T) Yttrium	98.1			79.0-136	10/27/2021 12:05	WG1759106

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.654	J	0.618	1.06	10/28/2021 17:40	WG1754687

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.182	J	0.311	0.487	10/28/2021 17:40	WG1754687
(T) Barium-133	67.3			30.0-143	10/28/2021 17:40	WG1754687

Method Blank (MB)

(MB) R3723031-1 10/27/21 12:05

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	-0.174	<u>U</u>	0.245	0.472
(T) Barium	90.5		90.5	
(T) Yttrium	100		100	

L1411370-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1411370-01 10/27/21 12:05 • (DUP) R3723031-5 10/27/21 12:05

Analyte	Original Result pCi/l	Original Uncertainty + / -	DUP Result pCi/l	DUP Uncertainty + / -	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	3.81	0.371	2.81	0.890	1	30.2	1.04		20	3
(T) Barium	113		103	103						
(T) Yttrium	96.7		94.3	94.3						

Laboratory Control Sample (LCS)

(LCS) R3723031-2 10/27/21 12:05

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.94	98.7	80.0-120	
(T) Barium			95.4		
(T) Yttrium			97.9		

L1411846-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1411846-03 10/27/21 12:05 • (MS) R3723031-3 10/27/21 12:05 • (MSD) R3723031-4 10/27/21 12:05

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	1.81	19.6	20.8	106	113	1	70.0-130			5.90		20
(T) Barium		93.0			101	97.6							
(T) Yttrium		96.9			103	96.6							

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3723817-1 10/28/21 17:40

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-226	0.0205	↓	0.0318	0.0484
(T) Barium-133	110		110	

L1411846-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1411846-10 10/28/21 17:40 • (DUP) R3723817-5 10/28/21 17:40

Analyte	Original Result	Original Uncertainty	DUP Result	DUP Uncertainty	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	+ / -		%			%	
Radium-226	0.182	0.311	0.0968	0.150	1	60.9	0.246	↓	20	3
(T) Barium-133	67.3		80.3	80.3						

Laboratory Control Sample (LCS)

(LCS) R3723817-2 10/28/21 17:40

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.02	4.12	82.1	80.0-120	
(T) Barium-133			80.3		

L1411846-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1411846-01 10/28/21 17:40 • (MS) R3723817-3 10/28/21 17:40 • (MSD) R3723817-4 10/28/21 17:40

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-226	20.1	0.239	17.6	17.0	86.4	83.2	1	75.0-125			3.70		20
(T) Barium-133		96.9			110	101							

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

DHL Analytical, Inc.
 2300 Double Creek Drive
 Round Rock, TX 78664

CHAIN-OF-CUSTODY RECORD

TEL: (512) 388-8222 FAX:
 Work Order: 2109210

B053

Subcontractor:

Pace Analytical
 12065 Lebanon Rd
 Mt. Juliet, TN 37122

TEL: (615) 773-5923
 FAX:
 Acct #: DHLRRTX


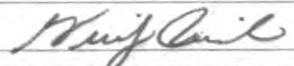
L1411846

29-Sep-21

Sample ID	Matrix	DHL#	Date Collected	Bottle Type	Requested Tests						
					Ra-228	Ra-226					
					E904.0	M7500 Ra B M					
BU-5	Aqueous	01C	09/28/21 08:20 AM	1LHDPEHNO3		1					-01
BU-5	Aqueous	01D	09/28/21 08:20 AM	1LHDPEHNO3	1						-01
MW-4	Aqueous	02C	09/28/21 09:20 AM	1LHDPEHNO3		1					-02
MW-4	Aqueous	02D	09/28/21 09:20 AM	1LHDPEHNO3	1						-02
BU-21	Aqueous	03C	09/28/21 10:20 AM	1LHDPEHNO3		1					-03
BU-21	Aqueous	03D	09/28/21 10:20 AM	1LHDPEHNO3	1						-03
Dup 101	Aqueous	04C	09/28/21 10:30 AM	1LHDPEHNO3		1					-04
Dup 101	Aqueous	04D	09/28/21 10:30 AM	1LHDPEHNO3	1						-04
MW-8	Aqueous	05C	09/28/21 11:20 AM	1LHDPEHNO3		1					-05
MW-8	Aqueous	05D	09/28/21 11:20 AM	1LHDPEHNO3	1						-05
MW-6	Aqueous	06C	09/28/21 12:15 PM	1LHDPEHNO3		1					-06
MW-6	Aqueous	06D	09/28/21 12:15 PM	1LHDPEHNO3	1						-06
MW-11	Aqueous	07C	09/28/21 01:15 PM	1LHDPEHNO3		1					-07
MW-11	Aqueous	07D	09/28/21 01:15 PM	1LHDPEHNO3	1						-07
MW-9	Aqueous	08C	09/28/21 02:00 PM	1LHDPEHNO3		1					-08
MW-9	Aqueous	08D	09/28/21 02:00 PM	1LHDPEHNO3	1						-08
MW-5	Aqueous	09C	09/28/21 02:45 PM	1LHDPEHNO3		1					-09

General Comments:

Please analyze these samples with Normal Turnaround Time.
 Report Ra-226, Ra-228 & Combined per Specs.
 Quality Control Package Needed: Standard - NELAC Rad Test compliant
 Email to cac@dhlanalytical.com & dupont@dhlanalytical.com

Relinquished by: 	Date/Time: 9/29/21 1800	Received by: 	Date/Time: 10/01/21 10:00
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____

2313+0=23.3 A7A

DHL Analytical, Inc.
 2300 Double Creek Drive
 Round Rock, TX 78664

CHAIN-OF-CUSTODY RECORD

TEL: (512) 388-8222 FAX:
 Work Order: 2109210

Subcontractor:

Pace Analytical
 12065 Lebanon Rd
 Mt. Juliet, TN 37122

TEL: (615) 773-5923
 FAX:
 Acct #: DHLRRTX

LH11846
 29-Sep-21


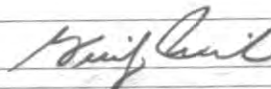
Sample ID	Matrix	DHL#	Date Collected	Bottle Type	Requested Tests						
					Ra-228	Ra-226					
					E904.0	M7500 Ra B M					
MW-5	Aqueous	09D	09/28/21 02:45 PM	1LHDPEHNO3	1						-09
MW-10	Aqueous	10C	09/28/21 03:25 PM	1LHDPEHNO3		1					-10
MW-10	Aqueous	10D	09/28/21 03:25 PM	1LHDPEHNO3	1						-10

Sample Receipt Checklist

COC Seal Present/Intact: Y N If Applicable
 COC Signed/Accurate: Y N VOA Zero Headspace: Y N
 Bottles arrive intact: Y N Pres. Correct/Check: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N
 RAD Screen <0.5 mR/hr: Y N

General Comments:

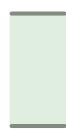
Please analyze these samples with Normal Turnaround Time.
 Report Ra-226, Ra-228 & Combined per Specs.
 Quality Control Package Needed: Standard - NELAC Rad Test compliant
 Email to cac@dhlanalytical.com & dupont@dhlanalytical.com

Relinquished by: 	Date/Time: 9/29/21 1800	Received by: 	Date/Time: 10/01/21 10:00
Relinquished by:		Received by:	

23.375 = 23.3
197A

ATTACHMENT 2
2021 APPENDIX IV CONFIDENCE INTERVAL GRAPHS

EXPLANATION



95% Upper confidence limit

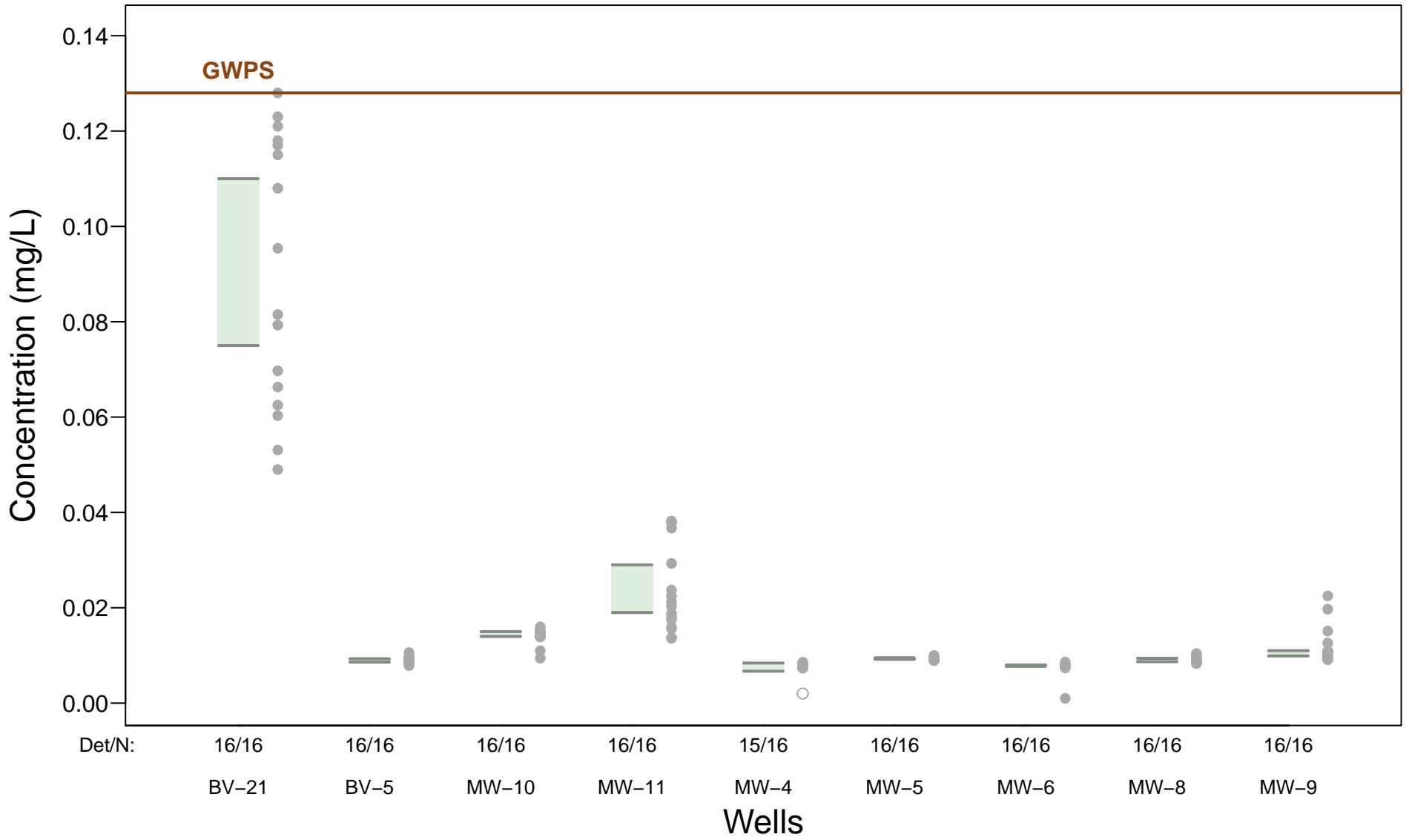
95% Lower confidence limit

● Detected sample concentration

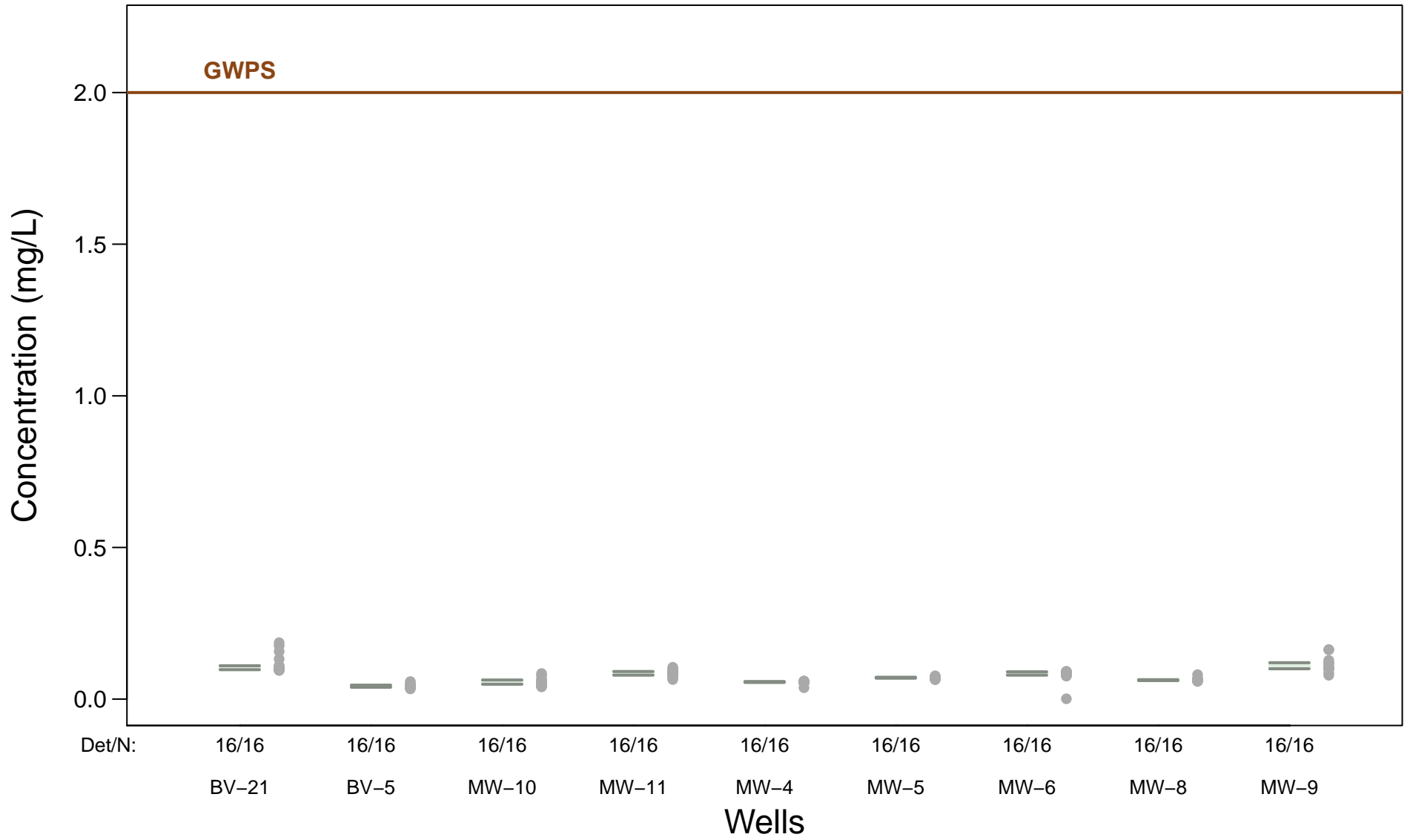
○ Non-detect sample result (concentration set to laboratory reporting limit)

Note: An SSL is indicated if the lower confidence interval exceeds the GWPS (SSLs are not indicated).

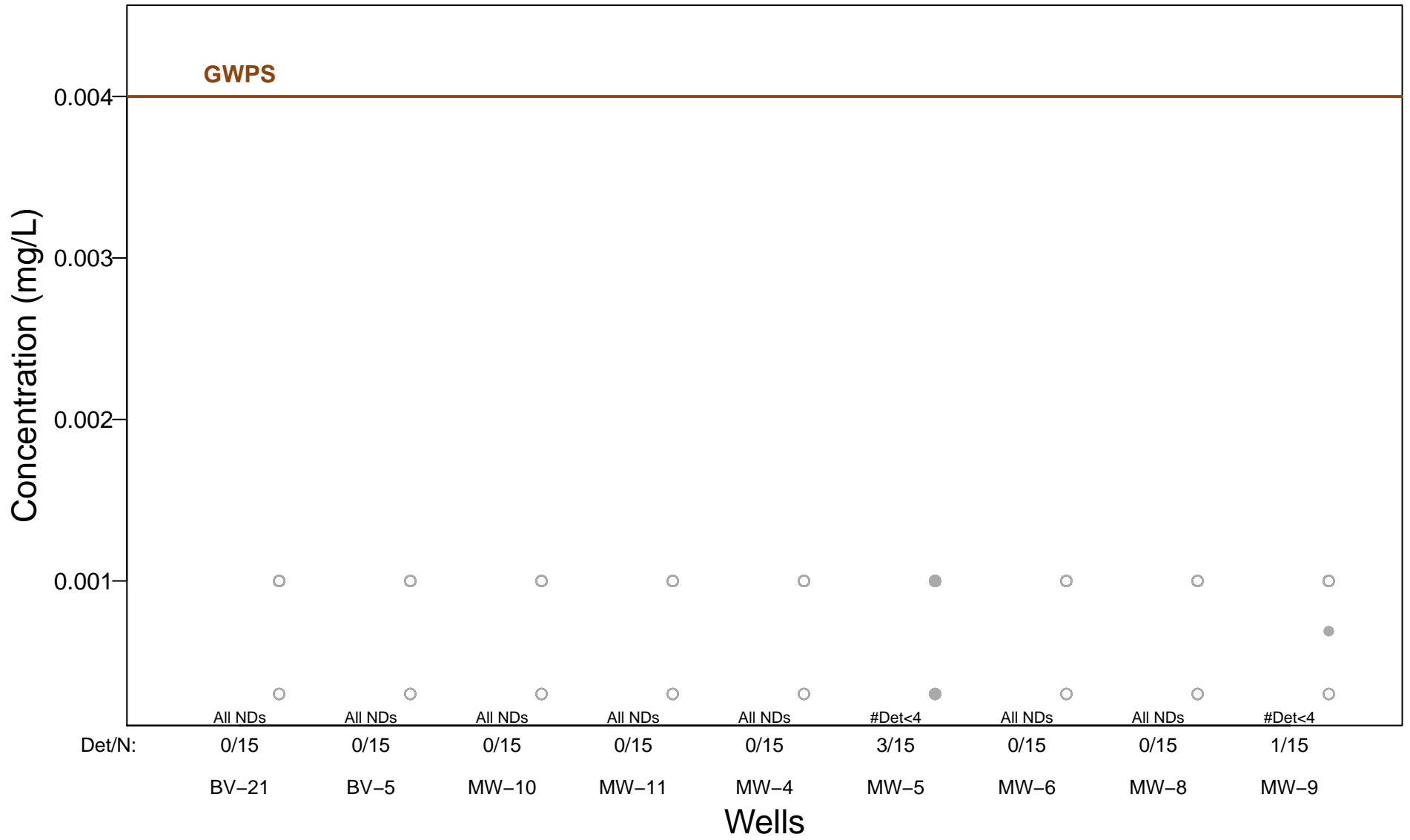
Arsenic – 95% Confidence Intervals



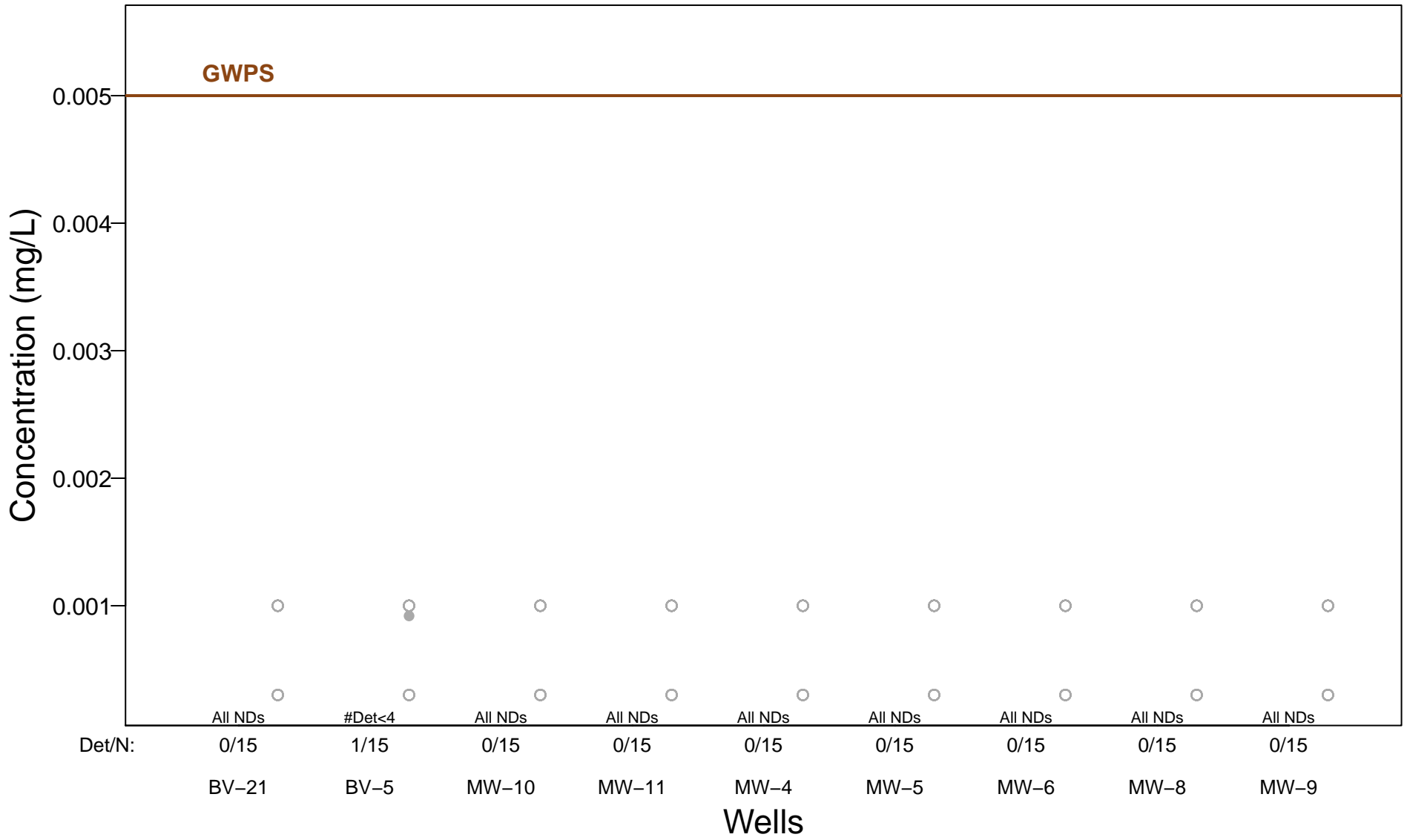
Barium – 95% Confidence Intervals



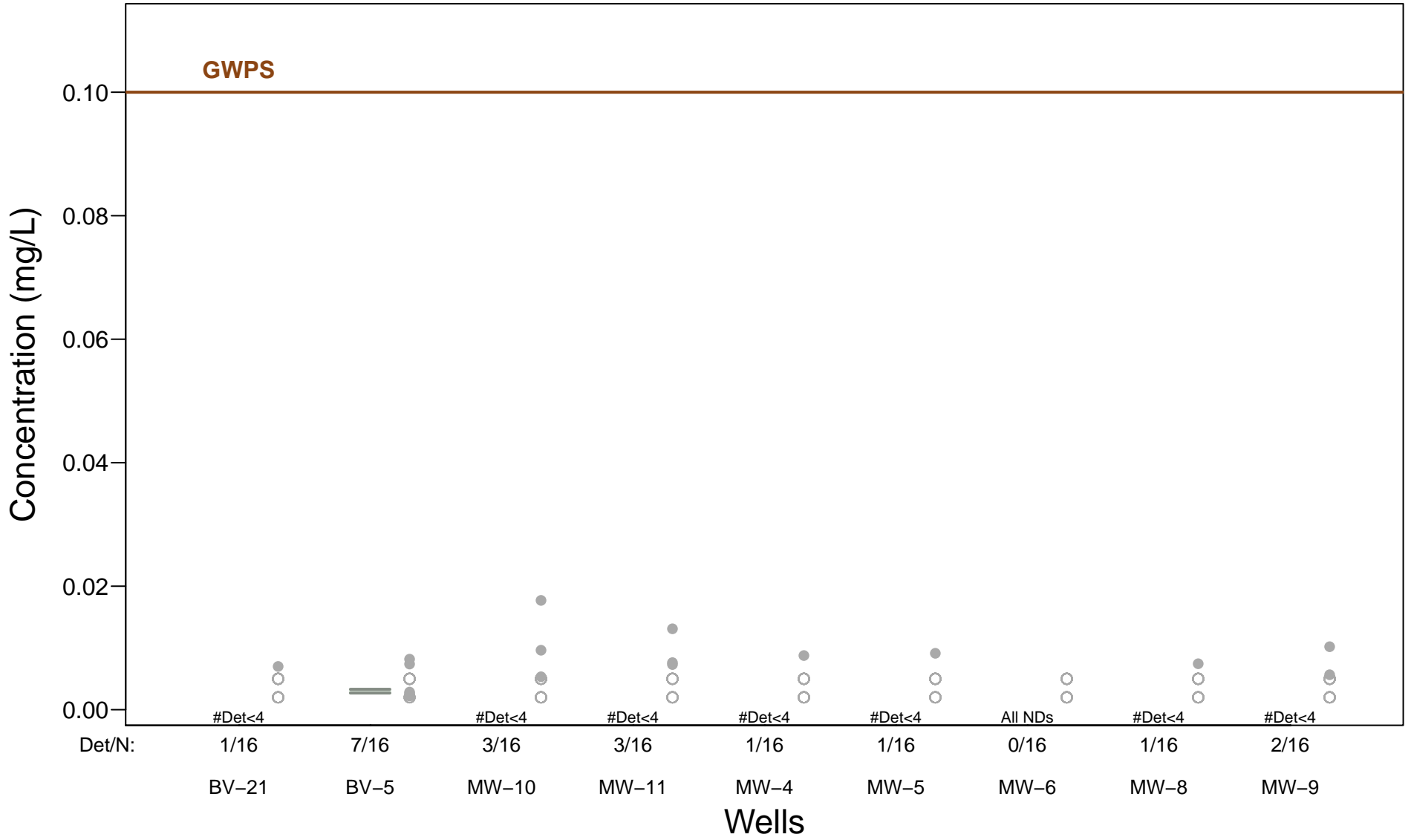
Beryllium – 95% Confidence Intervals



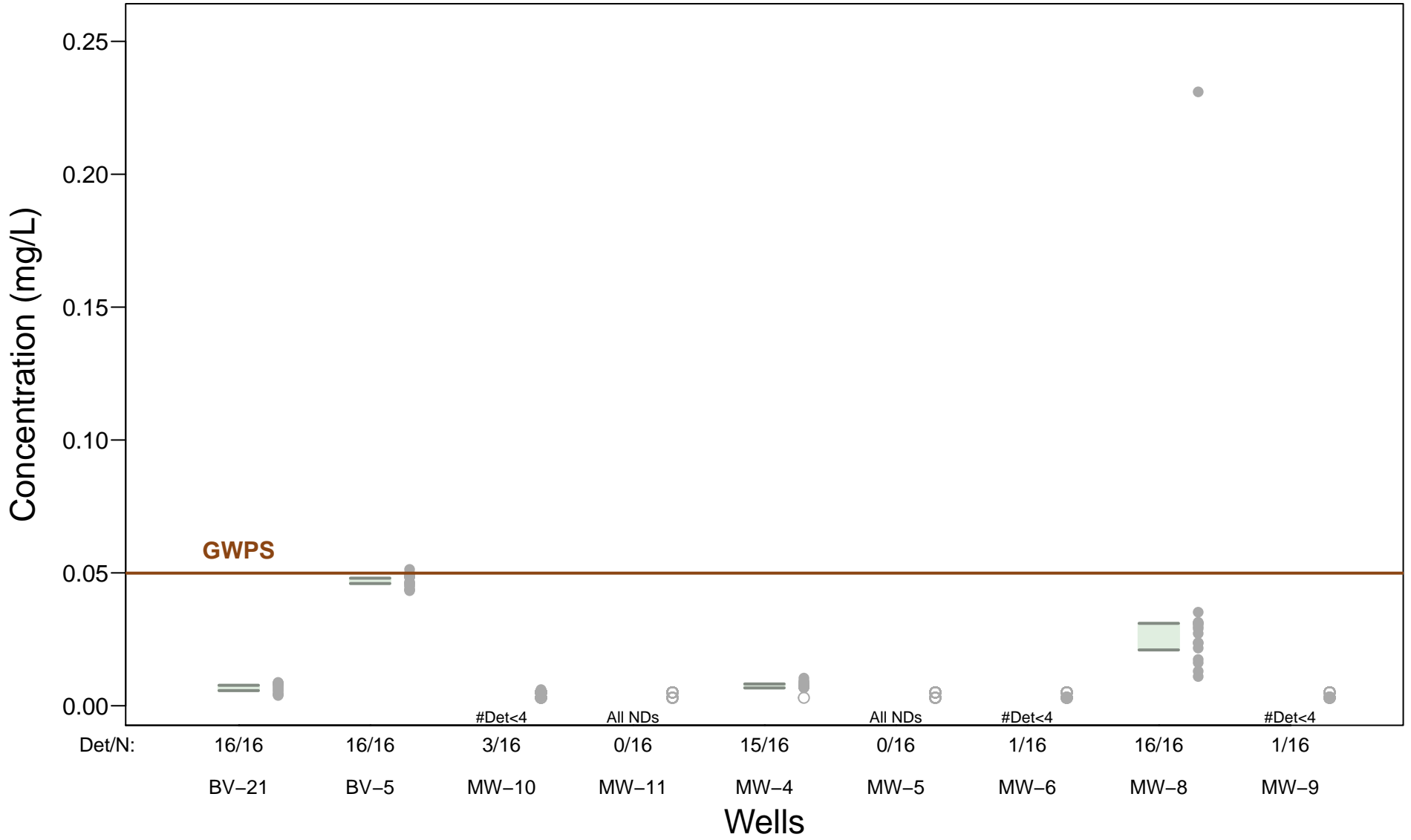
Cadmium – 95% Confidence Intervals



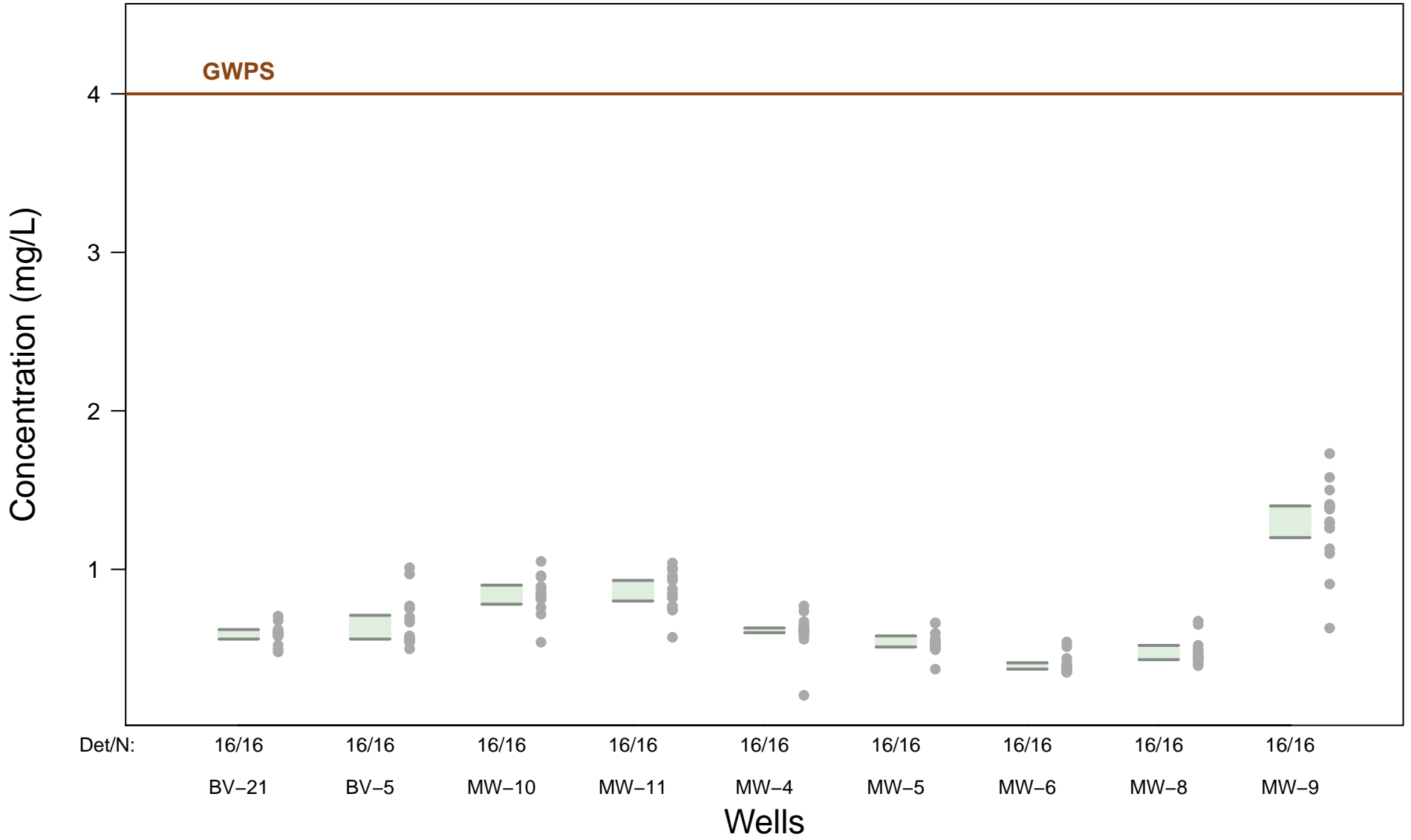
Chromium – 95% Confidence Intervals



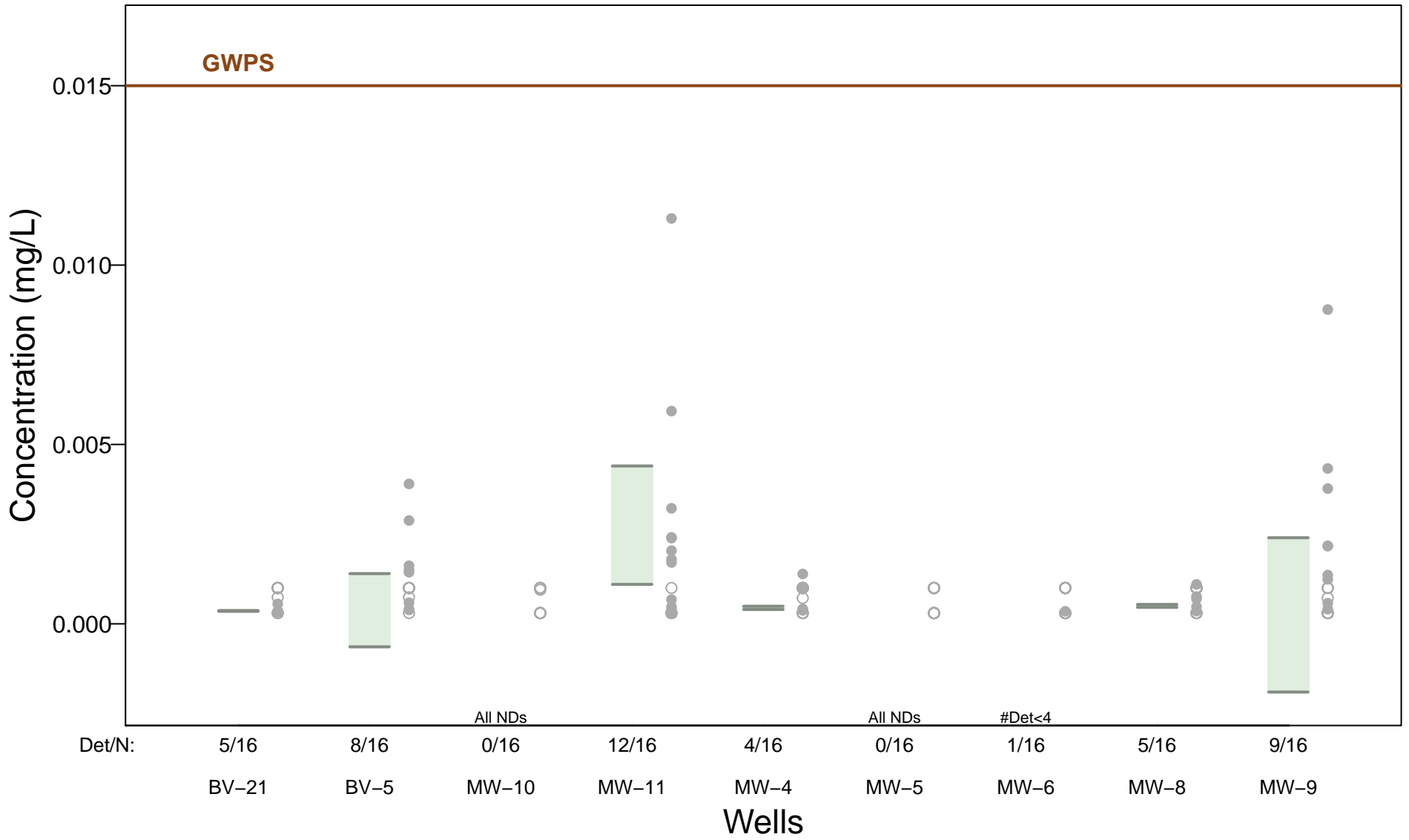
Cobalt – 95% Confidence Intervals



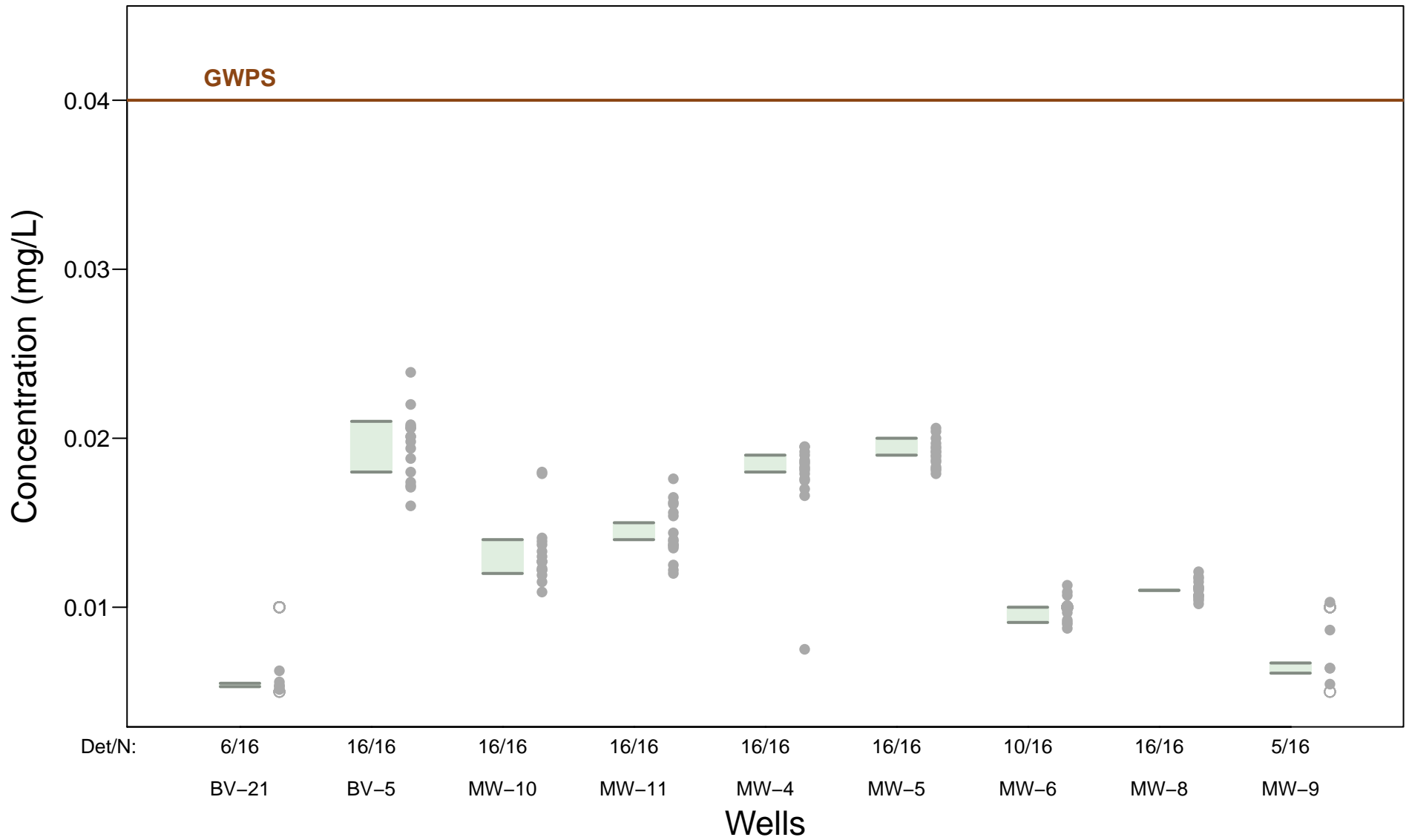
Fluoride (Appendix IV) – 95% Confidence Intervals



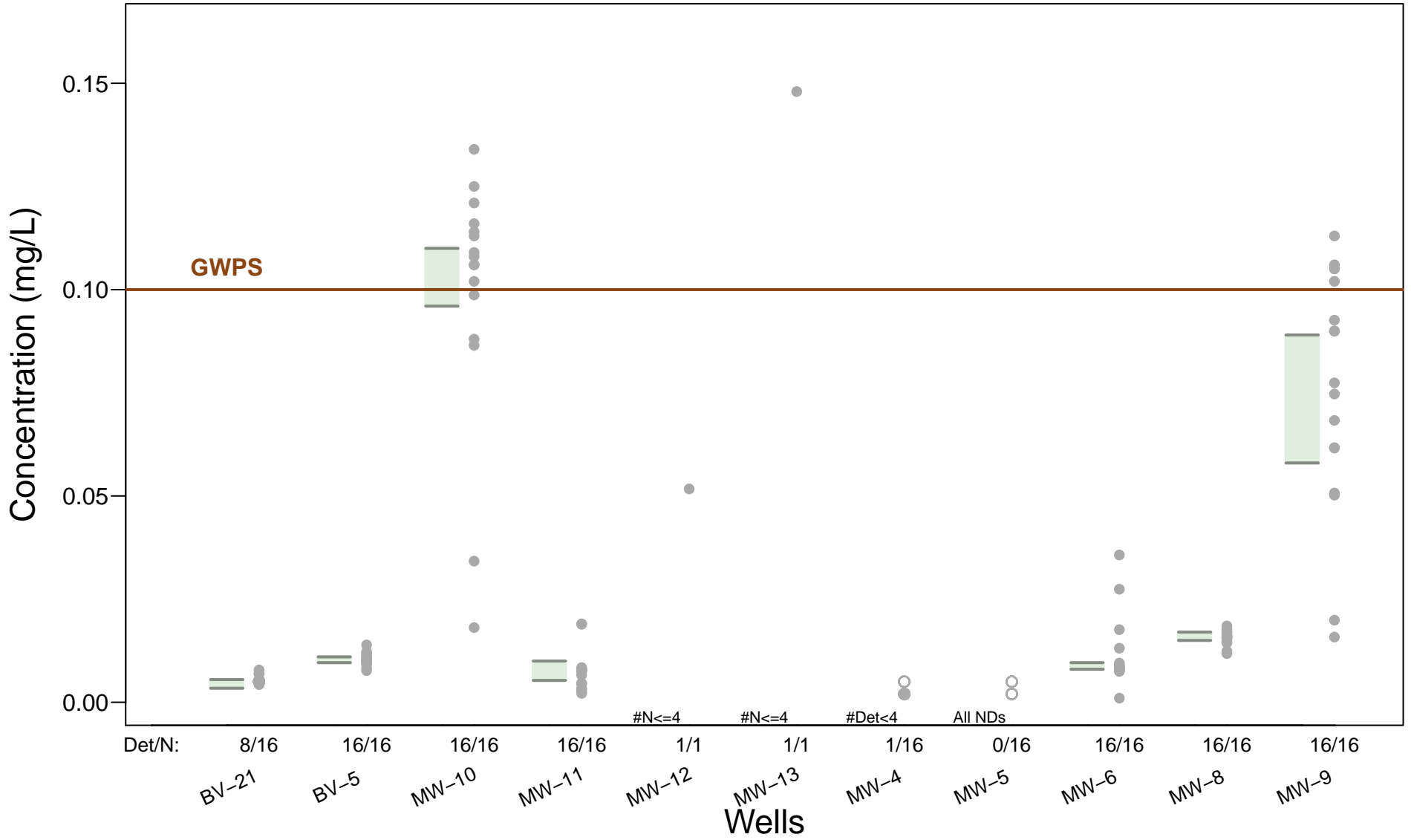
Lead – 95% Confidence Intervals



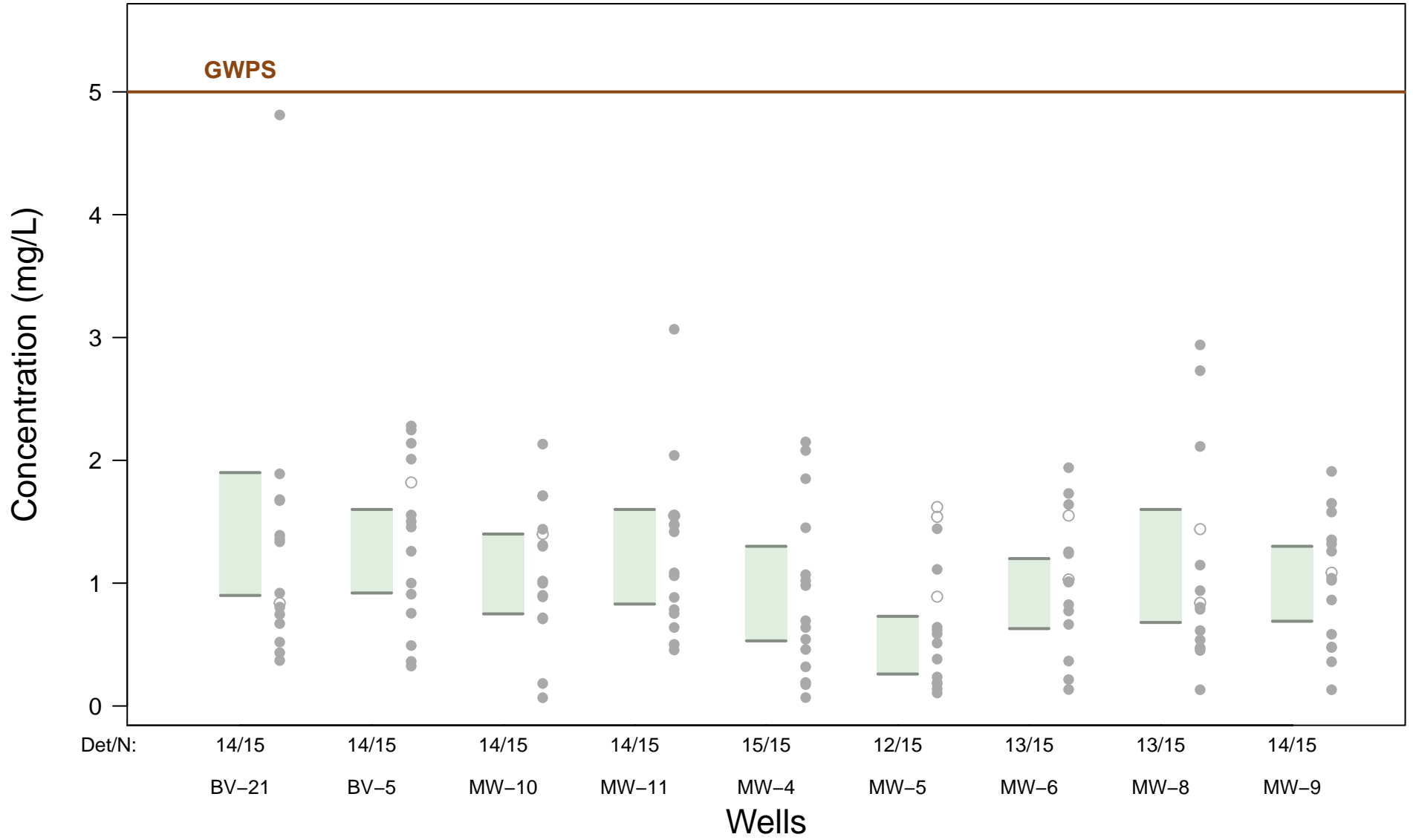
Lithium – 95% Confidence Intervals



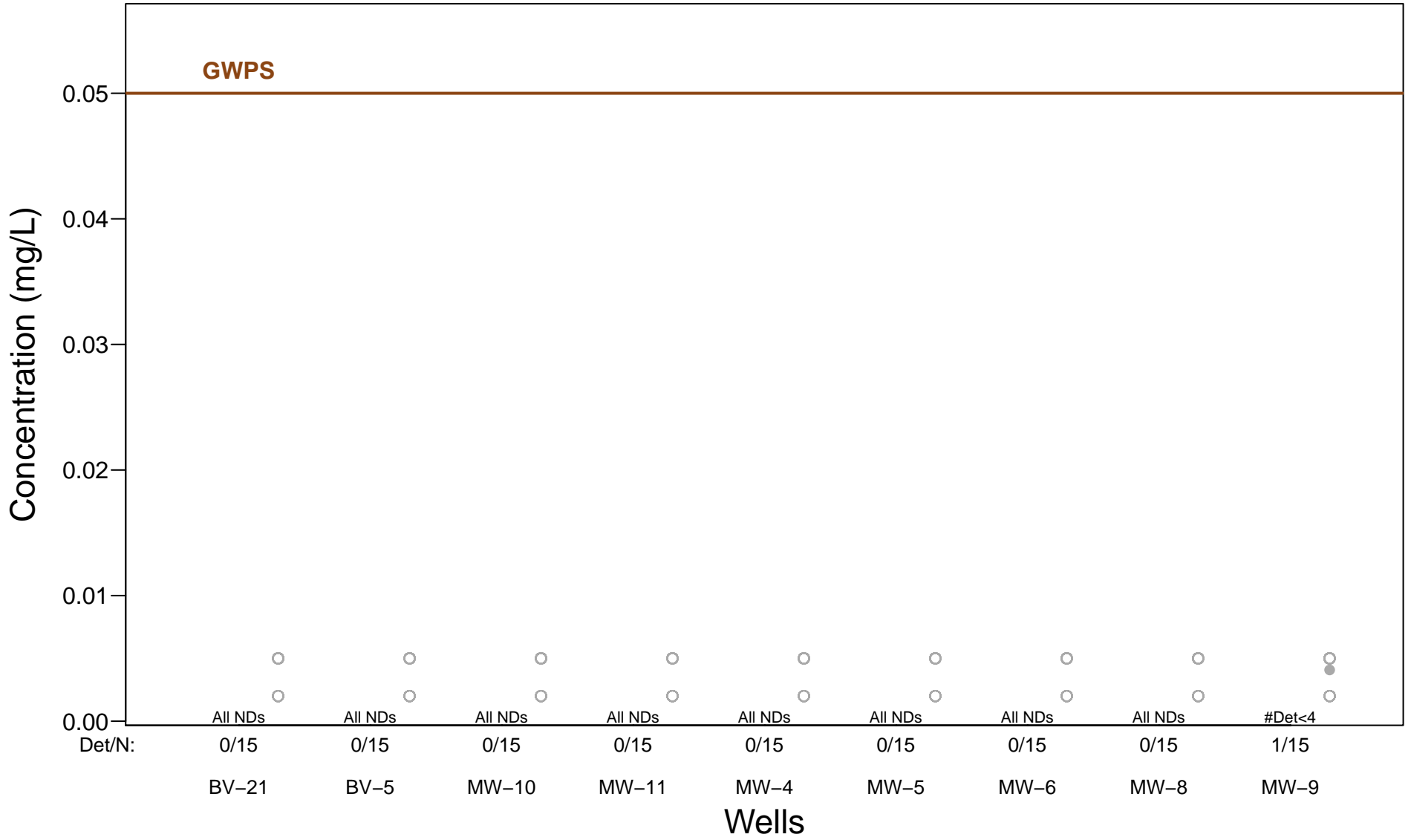
Molybdenum – 95% Confidence Intervals



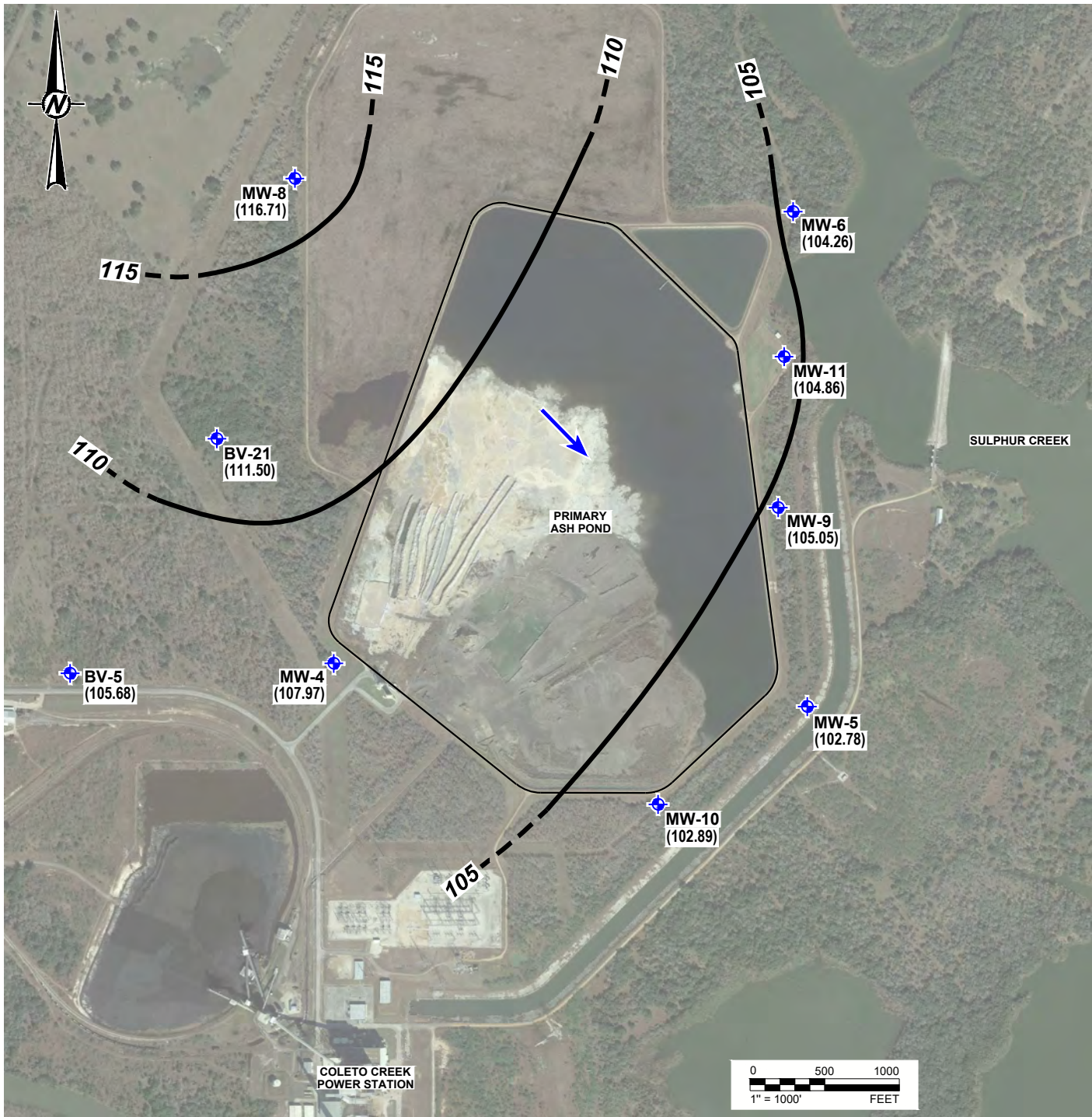
Radium-226/228 combined – 95% Confidence Intervals






Selenium – 95% Confidence Intervals

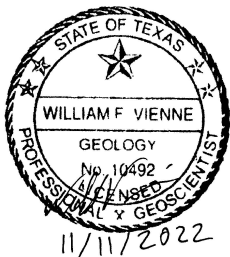


ATTACHMENT 3
2021 GROUNDWATER POTENTIOMETRIC SURFACE MAPS



LEGEND

-  CCR MONITORING WELL
- (113.02)** GROUNDWATER POTENTIOMETRIC SURFACE (FT MSL)
-  GROUNDWATER POTENTIOMETRIC SURFACE CONTOUR (C.I. = 5 FT)
-  INFERRED DIRECTION OF GROUNDWATER FLOW




REFERENCE(S)

BASE MAP TAKEN FROM GOOGLE EARTH, IMAGERY DATED 1/22/16.

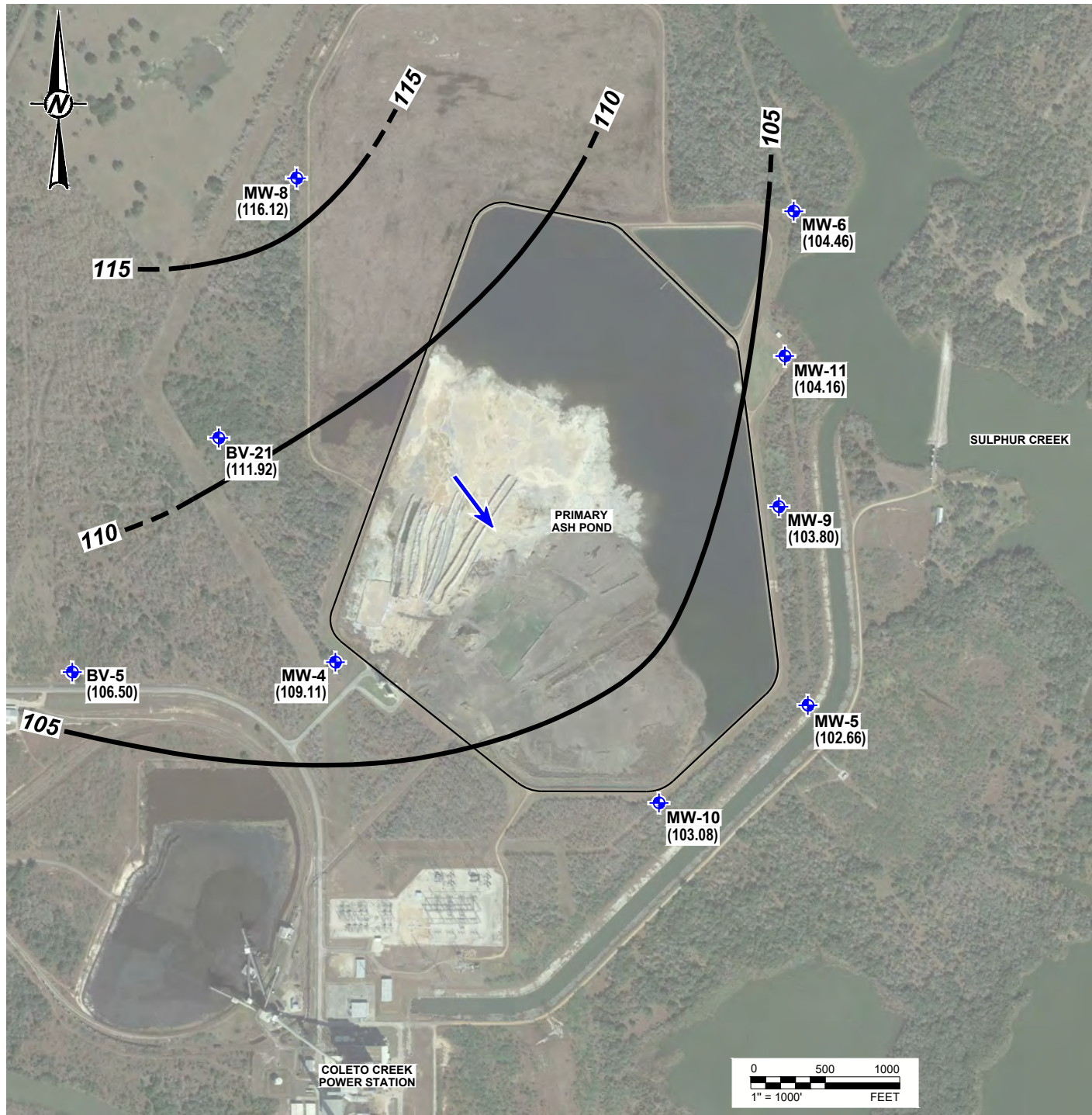
CLIENT
LUMINANT

PROJECT
**COLETO CREEK POWER STATION
FANNIN, TEXAS**




TITLE
**PRIMARY ASH POND
POTENTIOMETRIC SURFACE MAP
JUNE 2, 2021**

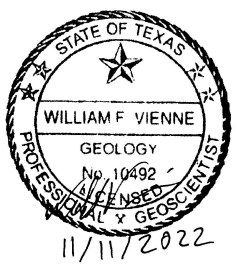
CONSULTANT	YYYY-MM-DD	2021-01-18
	DESIGNED	AJD
	PREPARED	AJD
	REVIEWED	HD
	APPROVED	WV

PROJECT NO.	CONTROL	REV.	FIGURE
1912262		0	1



LEGEND

-  CCR MONITORING WELL
- (113.02)** GROUNDWATER POTENTIOMETRIC SURFACE (FT MSL)
-  GROUNDWATER POTENTIOMETRIC SURFACE CONTOUR (C.I. = 5 FT)
-  INFERRED DIRECTION OF GROUNDWATER FLOW




REFERENCE(S)

BASE MAP TAKEN FROM GOOGLE EARTH, IMAGERY DATED 1/22/16.

CLIENT
LUMINANT

PROJECT
**COLETO CREEK POWER STATION
FANNIN, TEXAS**

TITLE
**PRIMARY ASH POND
POTENTIOMETRIC SURFACE MAP
SEPTEMBER 28, 2021**

CONSULTANT	YYYY-MM-DD	2022-01-18
	DESIGNED	AJD
	PREPARED	AJD
	REVIEWED	HD
	APPROVED	WV

PROJECT NO.	CONTROL	REV.	FIGURE
1912262		0	2

Last Edited By: adiamond Date: 2022-01-18 Time: 2:34:04 PM | Printed By: adiamond Date: 2022-01-18 Time: 2:48:00 PM Path: \\golder-gis\completd\alekoff\Toskan\mat\Projects - Round Rock - Luminant\1912262 - Coleto Creek\2021 CCR GWMR | File Name: FIG 2 - Pot Surface Map-Primary Ash Pond (September 2021).dwg

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI A 11in