Atha Energy Corp.
2025 Angilak Project Water Quality Report



Prepared by:
2SG Inc.

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EXECUTIVE SUMMARY

In August 2025, Sustainable Solutions Group (2SG), on behalf of ATHA Energy Corp., conducted a surface water quality study at the Angilak Project in Nunavut. The program built on historical baseline studies initiated in 2010 and provided updated characterization of surface water conditions across 26 monitoring sites. The objectives were to validate historical results, expand the dataset in support of exploration planning, and strengthen the foundation for future environmental permitting.

In total 28 samples were collected and analyzed for a full suite of physical, chemical, and radiological parameters. Field and laboratory quality assurance/quality control (QA/QC) measures confirmed the integrity of the dataset. Results indicated that water quality across the majority of sites is consistent with tundra surface water systems—characterized by low conductivity, neutral to slightly alkaline pH, low nutrient concentrations, and dissolved oxygen levels suitable for aquatic life.

Screening against Canadian Council of Ministers of the Environment (CCME) guidelines for the protection of freshwater aquatic life identified limited exceedances, primarily for fluoride, copper, and iron. A single seep, WQ25, exceeded guidelines for uranium. The groundwater-influenced seep exhibited elevated uranium and detectable radium-226, consistent with its location over a uranium-rich ore body. Downstream sites (e.g., WQ26) did not show similar exceedances, suggesting localized influence.

Overall, the 2025 results are consistent with historical monitoring campaigns (2010-2022) at the Angilak Project and are representative of pre-disturbance water quality. The dataset provides valuable baseline information to inform project planning, risk management, and regulatory engagement.

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SECTION 1 • INTRODUCTION

In summer of 2025, ATHA Energy Corp. (ATHA), retained Sustainable Solutions Group, 2SG Inc. (2SG) to provide environmental permitting and monitoring support for the Angilak exploration project in Nunavut. The scope of work was multi-disciplinary, in support of advanced exploration activities in the medium term and baseline environmental assessment studies in the long term. This report details the results of water quality characterization conducted at the Angilak Project in August 2025, which was conducted to build on historical reconnaissance conducted in the area.

1.1 BACKGROUND

The Angilak Project is owned by ATHA Energy Corp. (ATHA) and is located in the Angikuni Basin in the Kivalliq Region, Nunavut (refer to Figure 1). The Project covers approximately 191,925 ha (474,257 acres) and is comprised of 135 mineral claims, one Mineral Lease and one Mineral Exploration Agreement (MEA) with Nunavut Tunngavik Incorporated (NTI) on Inuit Owned Land (IOL) subsurface Parcel RI-30, which hosts the Lac 50 Deposit.

ATHA is a Canadian mineral exploration company focused on the acquisition, exploration, and development of mineral resource properties.

Since acquiring the Property, ATHA has continued to advance the Lac 50 Deposit and regional exploration, including the recent discoveries of the RIB and KU showings.

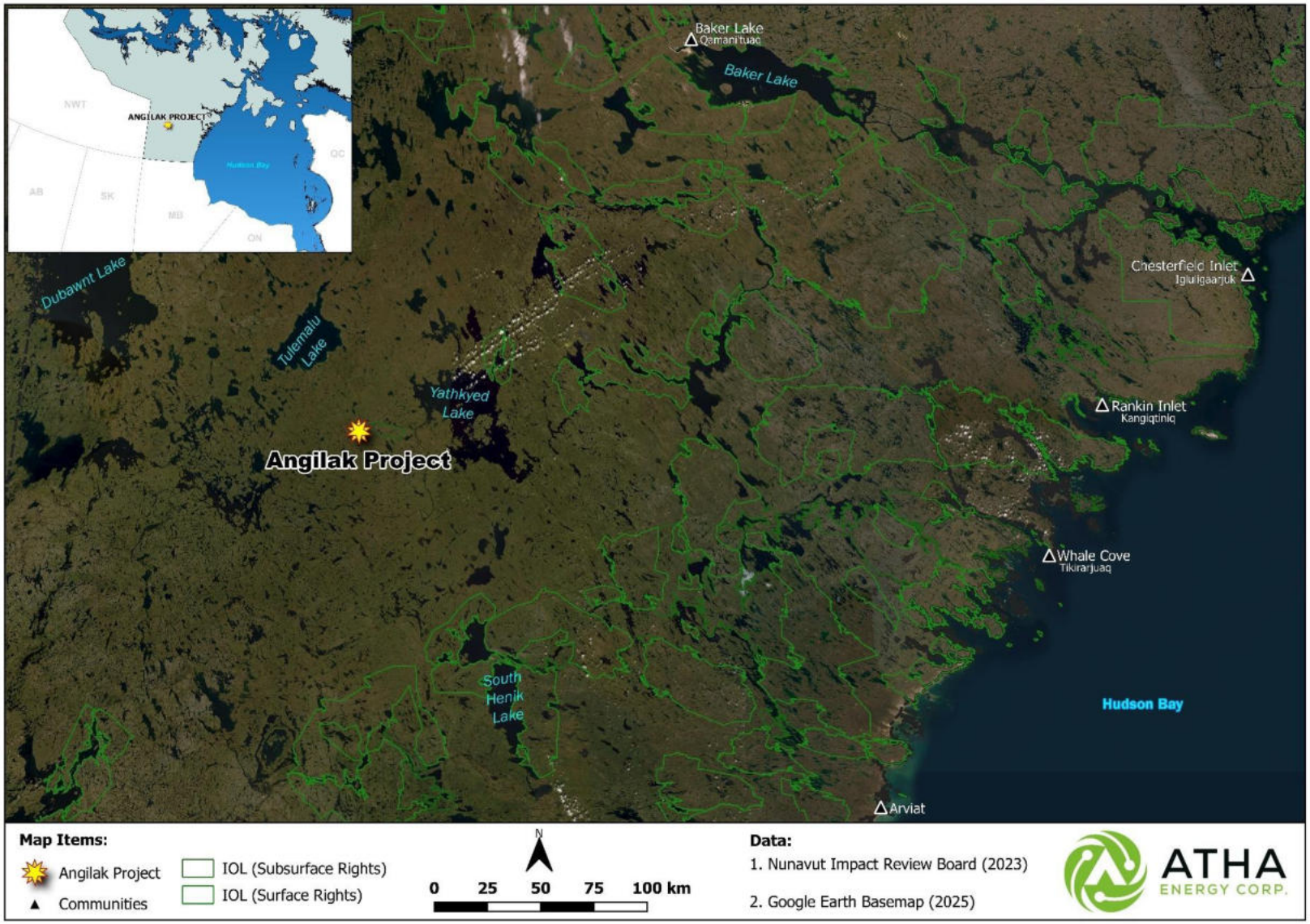


Figure 1: Angilak Project Location

1.2 HISTORICAL ENVIRONMENTAL STUDIES

Early baseline environmental studies have been conducted prior to 2025 at the Project. In 2010, Kivalliq Energy Corporation (predecessor to ValOre) retained Hemmera Envirochem Inc. (Hemmera) to initiate studies focused on climate, hydrology, surface water quality, air quality, wildlife, and habitat. Hemmera established an early-stage environmental baseline program with the objectives of documenting biophysical components of importance, initiating data collection to contribute to future project planning and due diligence, and supporting future potential regulatory needs for an Environmental Assessment (Hemmera 2011a).

Hemmera initially established 20 surface water quality sites across the project area in 2010. In-situ parameters were taken in the field and samples were taken and submitted for laboratory analysis. Water quality results were screened against Canadian Council of Ministers of the Environment (CCME) Water Quality Guidelines for the Protection of Freshwater Aquatic Life (2007). The program was repeated in various permutations in years 2011 (Hemmera 2011b), 2012 (Hemmera 2013), 2014 (Hemmera 2015), 2016 (Kivalliq Energy Corporation 2017), and 2022 (Ausenco 2022).

A summary of past surface water quality sampling sites is shown in Table 1.

Table 1: Sites Sampled from Historical Surface Water Studies at the Angilak Project

Site	2010	2011	2012	2014	2016	2022
	18 August	12-14 May (under ice), 12-14 August	30-31 August	31 August	11-12 July	15-16 July
WQ1	☑	☑	☑	☐	☐	☑
WQ2	☑	☑	☑	☑	☑	☑
WQ3	☑	☑	☑	☑	☑	☑
WQ4	☑	☑	☑	☑	☑	☑
WQ5	☑	☑	☑	☐	☐	☑
WQ6	☑	☑	☑	☐	☐	☑
WQ7	☑	☑	☑	☐	☐	☑
WQ8	☑	☑	☑	☐	☐	☑
WQ9	☑	☑	☑	☐	☐	☑
WQ10	☑	☑	☑	☐	☐	☑
WQ11	☑	☑	☑	☑	☑	☑
WQ12	☑	☑	☑	☑	☑	☐
WQ13	☑	☑	☑	☑	☑	☐
WQ14	☑	☑	☑	☑	☑	☑
WQ15	☑	☑	☑	☐	☐	☑
WQ16	☑	☑	☑	☐	☐	☑
WQ17	☑	☑	☑	☐	☐	☑
WQ18	☑	☑	☑	☑	☑	☐
WQ19	☑	☑	☑	☑	☑	☑
WQ20	☑	☑	☑	☐	☐	☑
WQ21	☐	☐	☑	☐	☐	☑

Site	2010 18 August	2011 12-14 May (under ice), 12-14 August	2012 30-31 August	2014 31 August	2016 11-12 July	2022 15-16 July
WQ22	☐	☐	☑	☑	☑	☐
WQ23	☐	☐	☑	☑	☑	☑
WQ24	☐	☐	☑	☑	☑	☑
WQ25	☐	☐	☑	☐	☐	☐
WQ26	☐	☐	☐	☑	☑	☐
WQDP	☐	☐	☐	☐	☑	☐
WQRB	☐	☐	☐	☐	☑	☐

1.3 OBJECTIVES

The 2025 surface water quality field program sought to validate the past water quality characterization of the Angilak Project area, and contribute to the body of early baseline data. In the medium term the objective is to support permitting for advanced exploration improvements. Proposed concepts were in the form of an overland trail and potential airstrip construction. These concepts are shown plotted on the Angilak Project Area in Appendix A. The Property remains relatively undeveloped with only exploration and a small camp impacting the Project area, therefore the conditions exist to document pre-disturbance water quality. The field program has the benefit of improving the understanding of pre-disturbance surface water quality across the Property, which may inform planning and baseline studies at Angilak.

1.4 STUDY AREA

2SG focused on the study area previously defined by Hemmera. Sites previously defined from 2010 to 2022 were resampled where possible for continuity. New sample sites were added in cases to bolster overland trail options analysis, and to pair with habitat and hydrology data. While the number of surface water quality sample sites continue to grow since the program was initiated in 2010, it is noted that there is currently no regulatory requirement prescribing this work. The results of the 2025 field program can be used as a scoping exercise to prioritize which areas are worthy of study in future years. By looking at trends in the water quality data from 2010-2025 and considering potential areas of development for the Project, Atha can determine which historical sample sites provide value for continued annual sampling and which may be curtailed. As the exploration program advances, new areas of study may be identified, and new sampling sites established on that basis.

A summary of sample sites visited in 2025 is provided in Table 2 and is depicted in Figure 2. Photos of each sample site are provided in **Appendix E.**

Table 2: Surface Water Quality Sites Sampled in the August 2025 Field Program

Site	UTM 14N Easting	UTM 14N Northing	Waterbody	Note
C1-1	522306	6942037	Stream	Co-located with hydrology
C1-2	521848	6941414	Stream	Potential trail crossing
CP	528244	6937905	Camp Pond	Sampled at outlet from pond
S1	530949	6941717	Stream	Co-located with hydrology
W4	514572	6940460	Stream	Co-located with hydrology
WQ1	518875	6938683	Pond	
WQ2	520324	6938719	Pond	Sampled from west shoreline
WQ3	521578	6940092	Pond	
WQ4	522400	6942568	Lake	Sampled from east shoreline
WQ5	515280	6939479	Lake	Sampled from north shoreline
WQ6	516328	6938229	Lake	
WQ7	513281	6941799	Pond	
WQ8	517631	6944157	Lake	
WQ9	519177	6944419	Lake	
WQ10	519897	6943305	Lake	
WQ11	516327	6939863	Pond	
WQ12	517334	6940394	Molson Lake	
WQ13	518693	6940705	Lac Cinquante	Sampled from west shoreline
WQ14	528404	6937763	Nutaaq Lake	
WQ15	524222	6945205	Stream	Sampled from south shore
WQ16	532976	6942307	Stream	
WQ17	538569	6930410	Kazan River	Sampled from west shore
WQ19	523358	6939271	Pond	Sampled from west shoreline
WQ20	532047	6938425	Stream	Sampled in Tributary upstream of Kazan River
WQ25	524049	6939465	Seep	Standing water below rock outcrop
WQ26	522804	6940426	Pond	Sampled from point on south side of pond. Coordinates differ from 2014 and 2016 reports.

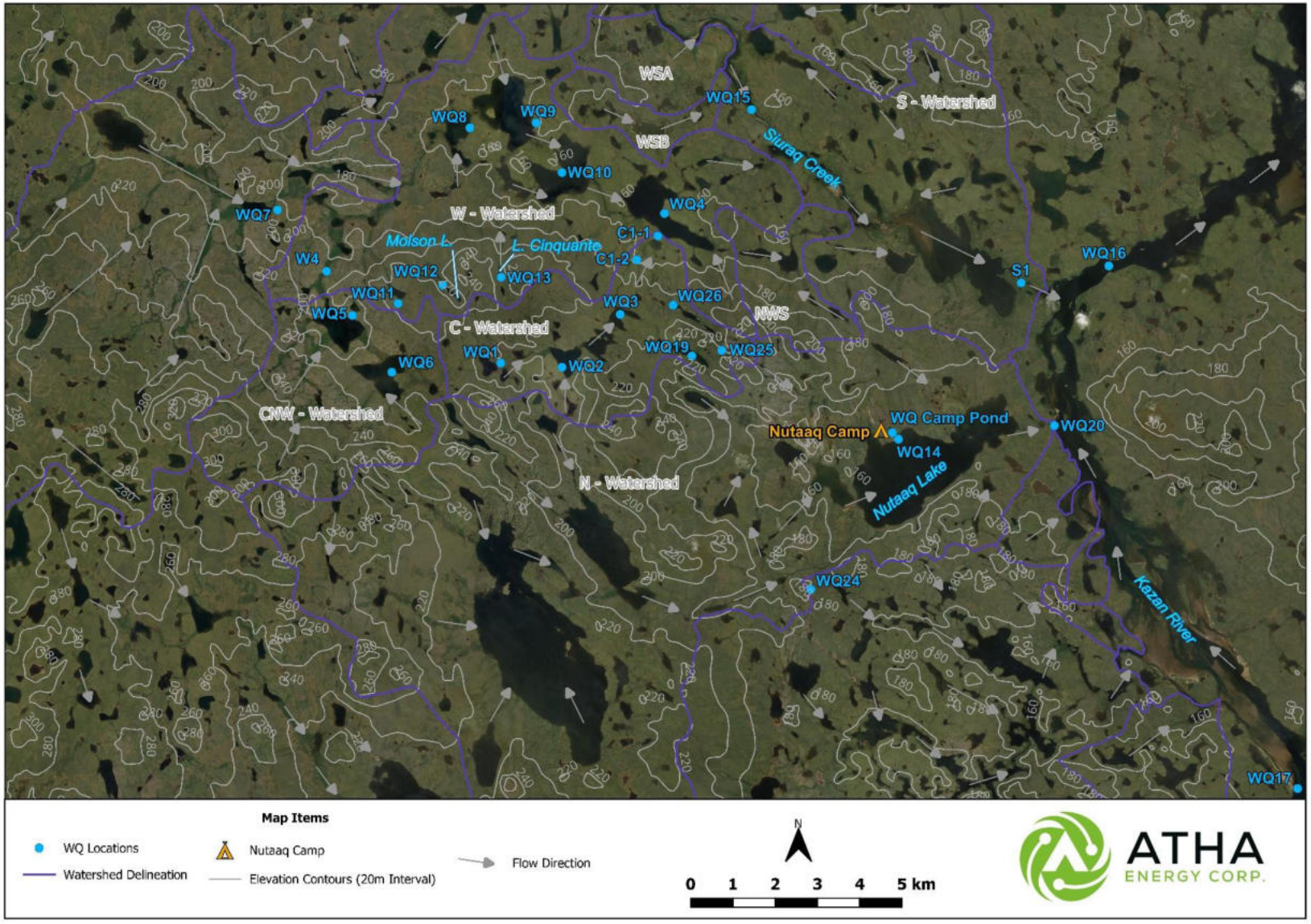


Figure 2: Surface Water Sample Sites for the 2025 Field Program

SECTION 2 • OUR APPROACH

2.1 FIELD SAMPLE COLLECTION

2SG ordered 28 water quality bottle kits from ALS Environmental in Winnipeg, which were transported to site. The kits were for a standard “full suite” of water quality parameters, and included preservatives, syringes, and 0.45 µm filters to enable preserving and filtering in the field. The field team brought a Hannah HI 98194 multi-parameter sonde for recording in-situ parameters of temperature, electrical conductivity, dissolved oxygen, pH, and oxidizing reducing potential (ORP). The device was calibrated on-site on 20 August, prior to sample collection. It was recalibrated mid-way through the field program on 25 August.

Sample sites were accessed by helicopter and on foot between 20 August and 26 August. The field team included at least two personnel. Bottle kits were transported in individual sealed ziplock bags for each site. Bottles were labeled in the field. Field personnel wore clean nitrile gloves and changed them at each sample site. Care was taken to approach each sample site from downstream on shore to prevent contamination or turbidity from being introduced in the bottles. Where possible, bottles were submerged to a depth of 0.1 m under the water surface to be filled. Bottles without a tamper proof cap were triple rinsed at the sample site, disposing the rinse water downstream. Preservative was added, and bottles for dissolved parameters were filtered in the field using a syringe and filter. Samples were returned to the ziplock bag, inventoried, and refrigerated upon return to camp at the end of each sampling day. In-situ parameters were logged on the Hannah sonde and recorded with field observations on a form. Photographs were taken at each sample site and the GPS coordinates logged.

Samples were sent in two separate shipments. Given the Angilak Project’s remote location, the shipments were sent by the earliest means available on charter aircraft to Baker Lake, NU. From there they were expedited to ALS Edmonton, AB. Samples were kept on ice in sealed coolers during the transit.

2.2 LABORATORY METHODS

The detailed description of the laboratory methods is provided in the ALS Quality Control Interpretive report provided as part of the ALS laboratory data in **Appendix F.** ALS Environmental is an accredited third party lab, whose methods meet standards used by the US Environmental Protection Agency, Environment Canada, British Columbia Ministry of Environment, Ontario Ministry of Environment, and other global agencies. Analysis was completed at ALS Edmonton facilities, except for the parameter Radium-226. 2SG requested analysis of Radium-226 as the Angilak Project overlies a uranium rich orebody, which has the potential to yield elevated background concentrations of radionuclides. ALS subcontracted the analysis for this parameter to Saskatchewan Research Council Environmental Analytical Laboratories in Saskatoon. Radium-226 was not acidified (preserved) in the field, due to shortage of preservatives.

2.3 DATA SCREENING

Field data was digitized into Excel format following the field program. Laboratory data were copied from ALS-provided Excel format into a customized Excel screening template using recognized Water Quality Guidelines (WQG). CCME provides guidelines for the protection of freshwater aquatic life (FWAL). These standards provide a science-based framework to protect water quality and are considered a nationalized standard. The CCME guidelines were used in the 2010 to 2022

water quality studies, so were also applied in 2025 for continuity. Chronic long-term exposure concentrations were used for screening as the guidelines for chronic exposure tend to be more protective than those for acute exposure (i.e., have lower thresholds). Those samples that exceed a guideline were highlighted for detailed review. There is no regulatory requirement to submit these results or screen against specific limits or guidelines.

2.4 FIELD QA/QC

Sample collection followed best practice protocols described in Section 2.1.1 to avoid contamination. Calibration of the Hannah multi-parameter sonde was recorded in field notes and is included in **Appendix D**.

Two duplicate bottle sets were taken in the field at sample sites WQ14 and CP, which were submitted to the lab blind. All duplicate samples were handled in the same way as regular samples. The results from each duplicate sample were compared to the paired original sample. The comparison process includes calculating the relative percentage difference (RPD) between the samples. Results with 20% RPD and higher were flagged if the result was greater than 5x the concentration of the laboratory detection limit. Of all 81 parameters reported by the lab, only ammonia and total selenium in sample CP exceeded the 20% RPD trigger. All parameters in the WQ14 sample and its duplicate were within 20% RPD. It follows that the samples submitted appear homogeneous and the lab and field methods were robust, yielding a high degree of precision. A table comparing the RPD for each parameter is provided in **Appendix D**.

A post-field check of sample dates and times against the lab data ensured there were no errors in sample labelling or transcription on the chain of custody. The samples were received at ALS Edmonton on 28 August and 3 September respectively.

A second QA/QC check involved flagging cases where a dissolved parameter was greater than the total parameter for a given sample. The total parameters analysis was taken from an HDPE bottle filled directly with the sample water at the sample site, while the dissolved parameter analysis was taken from an HDPE bottle which had been filled through a syringe and 0.45 µm filter in the field. In theory, the water passing the filter for the dissolved analysis should not return a higher concentration than the unfiltered water for total analysis of the same parameter. If dissolved values are higher, it may indicate issues with sample homogeneity, contamination, handling, or laboratory processing. Pairs for total and dissolved metals for each individual sample and parameter were compared using the following rule:

$$Dissolved\ Parameter\ <= 5 * DL + Total\ Parameter$$

A 5x detection limit threshold was used to ignore flags within the limits of laboratory precision. Where there were exceptions to the rule, the dissolved to total fraction is shown in Table 3 below.

Table 3: Samples Flagged for Higher Dissolved Metals than Total Metals Concentrations

Sample ID	Parameter and Ratio of Dissolved to Total Metal Concentration			
	Barium	**Calcium**	**Magnesium**	**Manganese**
DUP 2 (CP)			1.01	
WQ11	1.08	1.10	1.10	
WQ16	1.06			
WQ17				1.35
WQ20	1.01		1.02	
WQ25	1.07	1.02	1.12	

Of the 588 total and dissolved metal pairs, only 11 had a dissolved concentration greater than 5x detection limit above the total metal concentration. This corresponds to only 2% of the pairs. The largest discrepancy was for manganese at WQ17, with a ratio of 1.35 dissolved to total concentration. These results do not suggest issues with contamination or sample integrity throughout the program as minor discrepancies are often explained by laboratory resolution or sample heterogeneity.

2.5 LABORATORY QA/QC

Laboratory QA/QC measures included reporting on hold time exceedances and sample conditions upon arrival. Due to the inevitably long transit time from the remote site in Nunavut to the lab in Edmonton, the parameters pH, nutrients, total dissolved solids (TDS) and total suspended solids (TSS) did not meet laboratory hold times, however were still successfully analyzed. ALS Laboratories also performed internal quality control measures described below. The results of the QA/QC tests are found in **Appendix F**.

1. **Laboratory Duplicate Samples**:
    - Used to assess method precision and sample heterogeneity.
    - Screened against RPD criteria, similar to field duplicate screening.
    - All laboratory duplicate samples met QA/QC criteria in 2025.
2. **Method Blanks**:
    - Processed using an analyte-free matrix to assess potential laboratory contamination.
    - All method blanks met QA/QC criteria in 2025.
3. **Laboratory Control Samples**:
    - Analyte-free matrices fortified with known concentrations to assess percent recovery.
    - All laboratory control samples met QA/QC criteria in 2025.
4. **Matrix Spikes**:
    - Fortified replicate samples randomly selected to evaluate laboratory bias.
    - All matrix spikes met QA/QC criteria in 2025.

SECTION 3 • RESULTS AND DISCUSSION

3.1 SUMMARY

Between 20 and 26 August 2025, 28 water quality samples were taken across 26 sample sites in the Angilak Project Area. The reader is referred to Table 2 and Figure 2 in Section 1.4 to aid in spatial interpretation of the results. The in-situ and lab results are provided in **Appendix B**.

In general, the water chemistry for the sites sampled in August 2025 was representative of freshwater runoff in the tundra. Temperatures between 12 and 16°C indicated mostly surface water influence from shallow lakes and streams which are at their warmest in the late summer. Low conductivity, total dissolved solids, and alkalinity indicate the water is mostly fed by rainwater or melt. Concentrations of nutrients including ammonia, nitrate, nitrite, and phosphorus were low or non-detect. pH was neutral to slightly alkaline, and dissolved oxygen was in ranges which can sustain aquatic life. Metals concentrations were mostly low, representing background water quality.

The only exception was WQ25, a known seep first identified in the 2012 Hemmera report. At the time of sampling in 2025, this water was stagnant in a shallow, mossy/grassy pool below a rock outcrop. The sample site was positively identified with a gamma radiation scintillometer, which registered elevated readings about 4000 counts per second above background. The lower temperature, elevated conductivity and hardness attest to the groundwater influence. High ion and metal concentrations were also found in this sample, particularly for uranium. It was the only sample to yield a detectable concentration for radium-226. This result is unsurprising given that the site overlies a uranium ore body and is prudent to document in its baseline condition. Importantly, the results for WQ26 located downstream of this seep were again typical of surface water and did not share the same high metal concentrations as the seep.

3.2 WATER QUALITY GUIDELINE SCREENING

Water quality at the surface water sites was good overall. There were few exceedances when screened against CCME guidelines for protection of aquatic life. A summary list of exceeding samples and parameters is provided below. The screened parameters which exceeded CCME FWAL guidelines are shown in bold in in **Appendix B**.

Table 4: Summary of CCME Guideline Exceedances by Surface Water Monitoring Sites, August 2025

Parameter	CCME Guideline (FWAL, mg/L)	Sample Sites	Median Exceeding Value (mg/L)	Max Exceeding Value (mg/L)
Fluoride	0.12	C1-1, C1-2, CP, S1, W4, WQ1, WQ6, WQ7, WQ8, WQ9, WQ11, WQ12, WQ13, WQ15, WQ19, WQ20, WQ25, WQ26	0.14	0.25
Copper [i]	0.002-0.0029	WQ11, WQ12, WQ25	0.0036	0.0078
Iron	0.3	CP, WQ13	0.428	0.448
Uranium	0.015	WQ25	0.121	0.121

i. Hardness dependent guideline

The 2025 surface water quality results, at a screening level, are similar to those from the 2010 to 2022 studies. The parameters flagged for exceeding the CCME FWAL guidelines in 2025 were all flagged in previous year's reports, that is, there were no new parameters of concern identified in 2025. The sample sites which exceeded differed between years. Aluminum, one parameter that was consistently flagged in all studies between 2010 and 2022, did not exceed CCME guidelines at any of the sample sites in 2025. This suggests temporal trends, driven by seasonal fluctuations in flow, may be responsible for differences in water quality results across study years.

2025 was the first time that samples were tested for radium-226 since the surface water studies began in 2010. Metal and Diamond Mine Effluent Regulations (MDMER, Government of Canada 2002) provide discharge limits for radium-226, however the Angilak Project is not subject to MDMER limits at this time. Only one sample site, seep WQ25, returned a positive result for radium-226. This follows as radium is a decay product of natural uranium, which was detected in the same sample. The concentration of radium-226 detected at WQ25 in August 2025 was below the MDMER maximum authorized concentration in a grab sample (1.11 Bq/L). Compliance with MDMER limits may be a consideration with future plans to develop the Project.

SECTION 4 • CONCLUSIONS AND RECOMMENDATIONS

4.1 CONCLUSIONS OF THE AUGUST 2025 STUDY

- The 2025 program confirmed that surface water quality across the Angilak Project remains largely representative of background tundra conditions.
- Exceedances of CCME FWAL guidelines for fluoride, copper, and iron were observed at select sample sites, but these parameters have been flagged in previous years and appear to reflect natural variability.
- Radium-226 was added to the list of analytes in 2025. This parameter was only detected at one site, WQ25, which was a previously discovered groundwater seep. The sample site is associated with uranium concentration and gamma radiation elevated above background, which was not seen in any of the other sample sites in 2025.
- Best practice sampling methodologies were employed in the program and the QA/QC analysis show the results to be robust.

4.2 RECOMMENDATIONS FOR FUTURE STUDIES

- Continue to refine the selection of sample sites in future years to ensure the dataset meets objectives of the project. This may mean curtailing sampling at surface water quality sites in the Project area which do not provide value, and adding new sampling sites in locations relevant to the development of the Project.
- Ensure consistency with field documentation and methods, using the coordinates and Figures from this report as a reference to maintain repeatability in future studies.
- Add field and travel blanks to future studies to bolster the strength of the QA/QC program.
- Consider evaluating temporal trends in surface water quality for sites repeatedly sampled since the initiation of studies in 2010.

SECTION 5 • CLOSURE

This concludes the report on the 2025 surface water quality study conducted by 2SG at the Angilak Project. We trust that this report satisfies your present requirements. The reader is referred to the Hydrology Baseline Report, Wildlife and Terrain Reconnaissance Report, Fisheries Reconnaissance Report, Consultation and Engagement Report, and Archaeological Summary Technical Memo, which compliment the surface water quality study contained in this report.

SECTION 6 • REFERENCES

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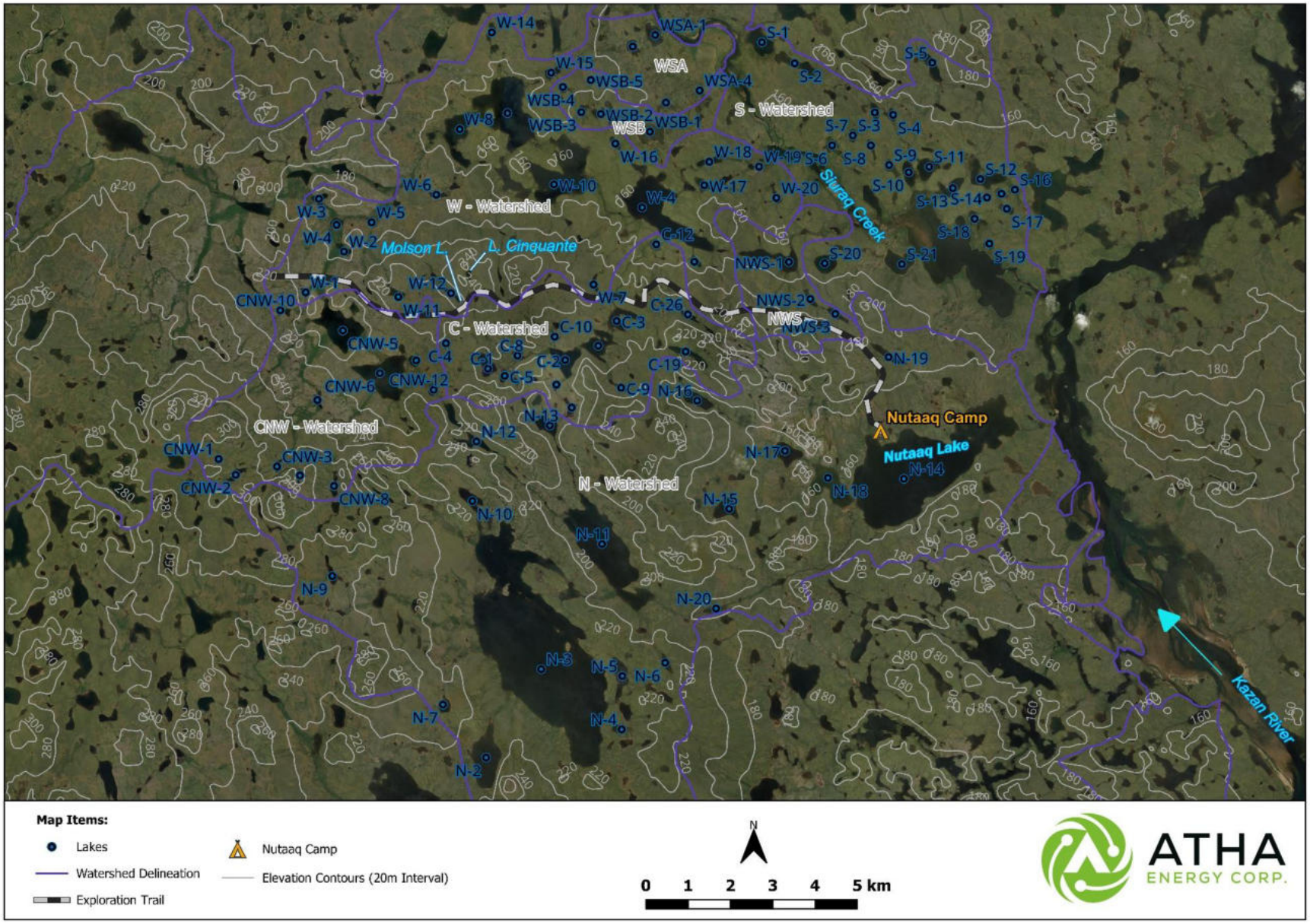
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APPENDIX A: PROPOSED TRAIL AND WATERBODIES OVERVIEW FIGURE


W-14
WSA-1
S-1
W-15
WSA
S-5
WSB-5
WSA-4
S-2
WSB-4
S - Watershed
W-8
WSB-3
WSB-2
WSB
WSB-1
S-7
S-3
S-4
W-16
W-18
W-19
S-6
S-8
S-9
S-11
S-12
S-16
W-6
W-10
W-17
W-20
Siuraq Creek
S-10
W-3
W-5
W - Watershed
W-4
W-4
W-2
Molson L.
L. Cinquante
C-12
S-13
S-14
S-17
S-18
S-20
S-21
S-19
NWS-1
W-1
W-12
W-7
C-26
NWS-2
CNW-10
W-11
C - Watershed
C-10
C-3
NWS
NWS-3
CNW-5
C-8
C-4
C-1
C-2
C-19
N-19
CNW-12
C-5
CNW-6
C-9
N-16
Nutaaq Camp
CNW - Watershed
N-13
N-12
Nutaaq Lake
CNW-1
CNW-3
N-17
N-14
CNW-2
N - Watershed
N-18
CNW-8
N-15
N-10
N-11
N-9
N-20
N-3
N-5
N-6
Kazan River
N-7
N-4
N-2
Map Items:
Lakes
Watershed Delineation
Exploration Trail
Nutaaq Camp
Elevation Contours (20m Interval)
N
0 1 2 3 4 5 km
ATHA
ENERGY CORP.

APPENDIX B: SCREENED WATER QUALITY DATA

Table 1: Surfrace Water Quality Summary, Angilak Project 2025

Parameter	Unit	CCME Guidelines for the Protection of Aquatic Life Chronic	Sampling Sites																											
			C1-1	C1-2	CP	DUP2 (CP)	S1	W4	WQ1	WQ2	WQ3	WQ4	WQ5	WQ6	WQ7	WQ8	WQ9	WQ10	WQ11	WQ12	WQ13	WQ14	DUP1 (WQ14)	WQ15	WQ16	WQ17	WQ19	WQ20	WQ25	WQ26
			08-20-2025 13:30	20-08-25 15:10	25-08-25 10:20	25-08-25 10:20	23-08-25 09:30	26-08-25 14:20	22-08-25 07:50	22-08-25 10:05	24-08-25 08:20	22-08-25 12:00	21-08-25 16:40	21-08-25 16:00	24-08-25 13:20	23-08-25 08:20	22-08-25 14:20	22-08-25 13:50	25-08-25 13:40	25-08-25 14:20	25-08-25 15:45	25-08-25 09:30	25-08-25 09:30	23-08-25 12:10	23-08-25 11:10	23-08-25 15:20	24-08-25 09:45	24-08-25 12:45	26-08-25 16:30	26-08-25 15:40
Field Measured																														
pH	-	6.5 - 9.0	7.8	7.5	7.9	7.9	7.8	7.6	7.8	7.6	7.9	7.7	7.8	8.2	8.1	8.0	8.2	8.0	7.8	7.6	7.7	7.7	7.7	8.4	7.6	7.5	7.6	8.7	8.7	8.1
Temperature	°C	-	16	15	14	14	13	13	13	13	14	14	13	14	15	14	15	14	14	15	16	14	14	15	14	16	14	16	9.2	14
Dissolved oxygen	mg/L	6.5	8.8	6.8	8.5	8.5	9.2	8.4	6.9	8.8	9.9	9.0	6.6	8.0	9.3	9.0	8.9	9.6	**6.4**[C]	7.4	6.9	8.4	8.4	8.9	8.2	9.0	8.6	12	11	9.6
Dissolved oxygen	%	-	91	69	84	84	88	77	67	85	100	88	62	80	93	85	90	95	63	79	76	83	83	86	90	90	85	124	97	95
Specific conductivity	µS/cm	-	69	67	85	85	45	101	79	62	57	46	108	72	102	96	66	54	77	73	85	47	47	48	26	24	44	45	247	70
Conductivity	µS/cm	-	57	55	68	68	34	78	61	48	45	37	82	57	84	76	54	43	62	60	70	38	38	39	21	20	34	37	172	55
ORP	mV	-	220	244	197	197	222	235	236	229	202	235	115	215	242	223	225	207	212	78	140	207	207	213	243	212	248	214	209	203
Conventional Parameters																														
pH	-	6.5 - 9.0	7.8	7.7	7.8	7.8	7.7	7.8	7.9	7.7	7.8	7.7	8.1	7.9	8.1	8.1	7.9	7.8	7.8	7.8	7.7	7.3	7.5	7.8	7.4	7.4	7.6	7.8	8.0	7.6
Hardness, as $CaCO_3$	mg/L	-	35	34	44	44	23	53	42	34	31	24	46	37	54	52	35	30	41	38	45	24	23	24	13	11	23	23	129	36
Total alkalinity, as $CaCO_3$	mg/L	-	38	37	45	44	24	55	44	35	32	25	47	41	56	53	37	30	42	39	45	27	25	26	12	10	24	24	113	36
Alkalinity, bicarbonate (as HCO3)	mg/L	-	46	45	55	54	30	67	54	43	39	30	58	50	69	65	45	37	51	47	55	33	30	32	15	13	29	29	138	44
Alkalinity, carbonate (as CO3)	mg/L	-	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Alkalinity, hydroxide (as OH)	mg/L	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total dissolved solids	mg/L	-	67	48	87	77	43	75	69	47	68	35	59	54	71	62	56	47	77	80	92	61	54	45	26	34	46	33	178	69
Solids, total dissolved [TDS], calculated	mg/L	-	38	37	49	48	24	54	44	36	32	25	47	40	57	55	37	30	41	39	46	27	25	26	14	12	24	24	146	38
Total suspended solids	mg/L	-	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	5.3	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	5.3	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Specific conductivity	µS/cm	-	71	69	86	84	47	99	80	65	60	48	88	74	104	98	68	57	76	72	84	50	48	50	28	25	46	46	253	70
Major Ions																														
Ion balance (cations/anions)	%	-	99	100	104	107	106	101	102	104	106	104	102	98	102	104	101	105	102	105	109	93	100	104	115	123	108	104	99	104
Calcium	mg/L	-	7.8	7.5	12	12	5.1	11	8.7	7.5	6.7	5.3	9.6	7.6	13	12	7.8	6.5	9.6	8.0	9.5	5.3	5.2	5.5	3.3	2.8	5.3	5.0	40	9.9
Chloride	mg/L	120	0.69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.56	0.52	<0.5	<0.5	<0.5	<0.5	0.51	0.57	<0.5	0.60	<0.5	<0.5	<0.5	12	<0.5
Fluoride	mg/L	0.12	**0.14**[C]	**0.13**[C]	**0.13**[C]	**0.13**[C]	**0.14**[C]	**0.12**[C]	**0.17**[C]	0.12	0.11	0.11	0.12	**0.13**[C]	**0.19**[C]	**0.15**[C]	**0.13**[C]	0.12	**0.16**[C]	**0.17**[C]	**0.17**[C]	0.084	0.082	**0.14**[C]	0.10	0.11	**0.13**[C]	**0.14**[C]	**0.25**[C]	**0.13**[C]
Magnesium	mg/L	-	3.8	3.8	3.5	3.5	2.5	6.2	4.9	3.6	3.5	2.5	5.4	4.4	5.4	5.6	3.9	3.3	4.0	4.5	5.2	2.6	2.6	2.6	1.3	1.1	2.3	2.6	7.0	2.8
Sodium	mg/L	-	1.2	1.1	1.3	1.4	0.92	0.94	1.4	1.00	1.0	0.70	0.90	0.99	1.4	1.3	0.99	0.85	0.82	1.1	1.4	0.77	0.76	1.0	0.64	0.62	0.92	0.77	2.1	1.00
Sulphate	mg/L	-	<0.3	<0.3	0.32	0.35	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.32	0.33	<0.3	<0.3	6.0	1.2
Nutrients																														
Nitrate	mg-N/L	2.9	<0.02	0.047	<0.02	<0.02	<0.02	0.038	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.040	<0.02	<0.02	<0.02
Nitrite	mg-N/L	0.060	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate + nitrite	mg-N/L	-	<0.0224	0.047	<0.0224	<0.0224	<0.0224	0.038	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	0.040	<0.0224	<0.0224	<0.0224
Total ammonia	mg-N/L	0.12 - 1.8[a]	0.023	0.015	0.010	0.016	0.029	0.0094	0.015	0.031	0.0098	0.016	0.010	0.013	0.013	0.011	0.031	0.015	0.021	0.013	0.018	0.0087	0.0076	0.012	0.0098	0.019	0.042	0.0082	0.012	0.0077
Total phosphorus	mg-P/L	-	0.0071	0.0064	0.0054	0.0056	0.013	0.0076	0.012	0.012	0.011	0.012	0.0065	0.0096	0.0064	0.0065	0.024	0.012	0.014	0.016	0.024	0.0092	0.0092	0.0078	0.0082	0.0046	0.012	0.0068	0.021	0.014
Total Metals																														
Aluminum	µg/L	100[b, c]	20	15	30	28	21	5.0	17	9.6	16	15	5.8	9.8	8.4	8.2	68	13	6.5	12	56	19	17	18	12	7.7	7.7	12	40	29
Antimony	µg/L	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.15	<0.1
Arsenic	µg/L	5.0	0.18	0.17	0.22	0.19	0.16	0.14	0.19	0.13	0.17	0.11	0.12	0.11	0.13	<0.1	0.15	0.10	0.16	0.24	0.29	0.13	0.15	0.15	0.14	0.12	0.15	0.13	0.23	0.18
Barium	µg/L	-	106	109	102	96	54	187	128	100	86	68	158	131	142	150	100	84	97	124	162	64	63	60	16	11	68	55	102	83
Boron	µg/L	1,500	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	17	<10	<10	<10	<10	<10	<10	<10	<10
Cadmium	µg/L	0.040 - 0.20[d]	<0.005	<0.005	<0.005	0.0057	<0.005	<0.005	0.0061	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.015	0.0072
Calcium	µg/L	-	8,260	7,900	11,600	11,700	5,250	11,100	8,870	7,730	6,990	5,520	9,620	7,850	13,100	11,800	8,010	6,490	8,710	7,920	9,470	5,030	5,150	5,670	3,220	2,960	5,340	4,970	39,800	10,000
Chromium	µg/L	1.0[e]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Copper	µg/L	2.0 - 2.9[d]	0.86	0.82	1.8	1.8	0.94	1.4	1.1	0.75	0.94	0.67	1.1	0.59	1.0	0.86	0.88	0.73	**3.0**[C]	**4.1**[C]	1.6	1.1	0.97	0.93	<0.5	<0.5	0.54	1.5	**7.8**[C]	**3.0**[C]
Iron	µg/L	300	170	64	**428**[C]	**448**[C]	79	46	98	82	90	95	25	48	77	56	93	68	72	288	**404**[C]	65	70	68	58	32	219	108	64	130
Lead	µg/L	1.0 - 4.4[d]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.061	<0.05	<0.05	<0.05	0.13	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.37	<0.05
Magnesium	µg/L	-	4,100	4,030	3,560	3,460	2,630	6,300	5,340	3,900	3,490	2,740	5,910	4,860	5,440	5,730	4,010	3,300	3,640	4,620	5,170	2,690	2,620	2,680	1,230	1,050	2,340	2,520	6,210	2,860
Manganese	µg/L	120 - 390[f]	10.0	5.7	8.0	8.0	17	9.1	8.5	28	17	9.8	6.9	7.1	10	4.0	5.4	7.4	5.0	26	17	12	11	11	13	10	26	8.5	15	10
Mercury	µg/L	0.026	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Nickel	µg/L	25 - 116[d]	0.57	0.57	1.6	1.4	<0.5	0.72	0.76	0.56	0.57	<0.5	<0.5	<0.5	<0.5	<0.5	0.74	<0.5	0.62	1.2	1.7	0.77	0.72	<0.5	<0.5	<0.5	<0.5	0.72	0.71	0.84
Potassium	µg/L	-	490	555	400	367	514	483	553	465	533	406	425	391	422	453	357	348	350	421	800	493	476	602	458	462	535	440	1,030	516
Selenium	µg/L	1.0	0.054	<0.05	0.10	0.066	<0.05	0.070	0.060	<0.05	<0.05	<0.05	<0.05	<0.05	0.054	<0.05	<0.05	<0.05	0.071	0.082	0.074	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.091	0.11
Silver	µg/L	0.25	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.021	0.011	<0.01
Sodium	µg/L	-	1,180	1,070	1,420	1,380	931	1,060	1,330	996	971	718	882	990	1,370	1,290	987	827	830	1,230	1,510	881	892	1,010	617	577	918	721	2,020	1,060
Uranium	µg/L	15	0.16	0.15	0.058	0.053	0.14	0.64	0.71	0.28	0.23	0.13	0.75	0.64	0.41	0.26	0.23	0.18	0.33	0.16	0.22	0.084	0.082	0.13	0.066	0.056	0.048	0.087	**121**[C]	1.3
Zinc	µg/L	5.1 - 26[g]	<3.0	<3.0	4.4	4.6	<3.0	<3.0	<3.0	<3.0	4.0	<3.0	<3.0	<3.0	3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	3.1	<3.0	3.4	<3.0	<3.0	3.2	<3.0
Dissolved Metals																														
Aluminum	µg/L	-	10	11	11	11	12	2.2	8.0	2.6	7.8	5.5	2.4	3.4	4.7	4.2	10	4.7	3.3	4.0	16	4.9	5.7	9.7	5.5	7.0	1.8	5.8	23	22
Antimony	µg/L	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic	µg/L	-	0.16	0.16	0.12	0.14	0.14	<0.1	0.18	0.12	0.18	<0.1	<0.1	<0.1	0.11	0.11	0.10	0.11	0.12	0.18	0.25	0.12	0.11	0.15	0.11	0.13	0.13	0.14	0.21	0.15
Barium	µg/L	-	103	106	93	93	55	173	124	95	84	67	153	123	139	144	100	83	105	114	151	60	59	59	17	11	69	56	109	77
Beryllium	µg/L	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Bismuth	µg/L	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Boron	µg/L	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Cadmium	µg/L	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.012	<0.005
Cesium	µg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	µg/L	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cobalt	µg/L	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper	µg/L	-	0.69	0.79	1.1	1.1	0.78	0.72	0.92	0.62	0.74	0.51	0.89	0.46	0.83	0.64	0.64	0.60	0.94	0.68	1.1	0.49	0.49	0.75	0.37	0.33	0.39	0.56	6.7	2.3
Iron	µg/L	-	110	42	204	210	36	28	54	36	32	45	11	22	48	34	33	35	48	105	208	17	17	29	32	48	69	20	29	71
Lead	µg/L	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.077	<0.05

Table 1: Surfrace Water Quality Summary, Angilak Project 2025

Parameter	Unit	CCME Guidelines for the Protection of Aquatic Life Chronic	Sampling Sites																													
			C1-1	C1-2	CP	DUP2 (CP)	S1	W4	WQ1	WQ2	WQ3	WQ4	WQ5	WQ6	WQ7	WQ8	WQ9	WQ10	WQ11	WQ12	WQ13	WQ14	DUP1 (WQ14)	WQ15	WQ16	WQ17	WQ19	WQ20	WQ25	WQ26
			08-20-2025 13:30	20-08-25 15:10	25-08-25 10:20	25-08-25 10:20	23-08-25 09:30	26-08-25 14:20	22-08-25 07:50	22-08-25 10:05	24-08-25 08:20	22-08-25 12:00	21-08-25 16:40	21-08-25 16:00	24-08-25 13:20	23-08-25 08:20	22-08-25 14:20	22-08-25 13:50	25-08-25 13:40	25-08-25 14:20	25-08-25 15:45	25-08-25 09:30	25-08-25 09:30	23-08-25 12:10	23-08-25 11:10	23-08-25 15:20	24-08-25 09:45	24-08-25 12:45	26-08-25 16:30	26-08-25 15:40
Lithium	µg/L	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	1.9	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	1.5	<1.0
Manganese	µg/L	120 - 390[h]	3.7	2.7	2.7	2.7	7.5	5.9	2.0	5.1	0.67	2.1	0.39	1.0	5.7	0.54	1.7	0.90	2.2	2.0	4.0	1.0	1.1	2.6	4.0	14	6.5	3.2	7.6	1.9
Mercury	µg/L	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Molybdenum	µg/L	-	0.21	0.25	0.10	0.10	0.11	0.34	0.16	0.22	0.23	0.13	0.32	0.29	0.18	0.20	0.16	0.15	0.32	0.10	0.26	0.12	0.11	0.14	0.078	0.090	0.088	0.11	11	1.4
Phosphorus	µg/L	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Potassium	µg/L	-	467	562	351	351	493	444	554	452	498	402	425	384	402	457	329	360	349	373	715	459	456	579	474	450	518	443	1,110	488
Nickel	µg/L	-	0.85	1.0	1.2	1.3	0.58	0.55	1.0	0.90	0.78	0.53	0.64	0.66	0.61	0.62	<0.5	0.52	0.55	1.0	1.5	0.53	0.52	0.60	<0.5	<0.5	<0.5	0.54	0.63	0.76
Rubidium	µg/L	-	1.0	1.4	1.0	1.1	1.7	0.91	1.5	1.0	1.2	1.0	0.89	0.81	0.98	1.3	0.94	1.0	0.90	0.98	2.1	1.1	1.1	2.0	1.3	1.4	1.1	1.1	0.95	1.2
Selenium	µg/L	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.074	<0.05
Silicon	µg/L	-	542	691	1,490	1,490	117	935	553	821	352	323	749	494	1,190	1,060	394	308	474	430	441	361	349	256	60	70	103	330	3,380	129
Silver	µg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Strontium	µg/L	-	96	97	76	76	66	176	144	90	82	64	166	135	118	142	97	80	102	124	139	83	83	72	24	17	56	82	243	69
Sulfur	µg/L	-	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	2,290	810
Tellurium	µg/L	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Thallium	µg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.014	<0.01
Thorium	µg/L	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tin	µg/L	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Titanium	µg/L	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.35	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.45	<0.3
Tungsten	µg/L	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Uranium	µg/L	-	0.13	0.13	0.050	0.049	0.12	0.61	0.58	0.22	0.20	0.10	0.64	0.51	0.37	0.23	0.20	0.16	0.34	0.15	0.20	0.073	0.075	0.11	0.060	0.056	0.038	0.079	120	1.3
Vanadium	µg/L	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Zinc	µg/L	5.1 - 26[i]	2.6	2.1	2.7	2.8	<1.0	1.3	1.4	1.2	1.1	1.0	<1.0	<1.0	3.8	1.2	<1.0	<1.0	1.2	1.4	1.6	<1.0	<1.0	<1.0	1.0	<1.0	1.1	<1.0	1.9	1.1
Zirconium	µg/L	-	<0.2	<0.2	0.24	0.25	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.29	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.80	0.25
Radiological Parameters																														
Radium-226	Bq/L	-	<0.06	<0.06	<0.05	<0.05	<0.06	<0.05	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.05	<0.05	<0.05	<0.06	<0.05	<0.06	<0.06	<0.06	<0.06	<0.06	0.80	<0.05

[a] = the ammonia guideline is pH and temperature dependent. The guideline that results in the minimum ammonia guideline (0.12 mg-N/L) is based on the combination of field pH (8.7) and water temperature (16.1°C).
Guidelines calculated with temperature and pH values falling outside the defined range (i.e., pH 6.0 to 10.0 and temperature 0°C to 30°C) should be used with caution, as the WQG does not necessarily accurately reflect toxic effects at the low and high pH and temperature extremes. The guideline is calculated based on the individual field pH and temperature measurements for each sample.
[b] = guideline is pH dependent. The guideline range shown is based on the pH range observed in the dataset (7.5 to 8.7). The guideline is calculated based on the individual pH for each sample.
[c] = guideline is pH dependent: 5 µg/L at pH < 6.5 and 100 µg/L at pH ≥ 6.5.
[d] = guideline is hardness dependent. The guideline range shown is based on the hardness range observed in the dataset (11 to 129 mg/L). The guideline is calculated based on the individual hardness value for each sample.
[e] = guideline is for chromium VI.
[f] = guideline is for dissolved manganese, but comparison to total manganese is appropriate when no dissolved manganese concentrations are available. The chronic dissolved manganese guideline is pH and hardness dependent. The guideline that results in the minimum chronic manganese guideline (120.0 µg/L) is based on the combination of field pH (8.7), and hardness (23.1 mg/L).
Guidelines calculated with pH and hardness values falling outside the defined range (i.e., pH 5.8 to 8.4 and hardness 25 to 670 mg/L) should be used with caution, as the WQG does not necessarily accurately reflect toxic effects at the low and high pH and harndess extremes. The guideline is calculated based on the individual pH and hardness measurements for each sample.
[g] = guideline is for dissolved zinc, but comparison to total zinc is appropriate when no dissolved zinc concentrations are available. The chronic dissolved zinc guideline is pH, hardness and DOC dependent. The guideline that results in the minimum chronic zinc guideline (5.1 µg/L) is based on the combination of field pH (8.7), hardness (23.1 mg/L) and DOC (5.0 mg/L).
Guidelines calculated with pH, hardness, and DOC values falling outside the defined range (i.e., pH 6.5 to 8.13, hardness 23.4 to 399 mg/L and DOC 0.3 to 22.9 mg/L) should be used with caution, as the WQG does not necessarily accurately reflect toxic effects at the low and high pH, hardness and DOC extremes. The guideline is calculated based on the individual pH, hardness and DOC measurements for each sample.
[h] = the chronic dissolved manganese guideline is pH, and hardness dependent. The guideline that results in the minimum chronic manganese guideline (120.0 µg/L) is based on the combination of field pH (8.7), and hardness (23.1 mg/L). Guidelines calculated with pH and hardness values falling outside the defined range (i.e., pH 5.8 to 8.4 and hardness 25 to 670 mg/L) should be used with caution, as the WQG does not necessarily accurately reflect toxic effects at the low and high pH and harndess extremes. The guideline is calculated based on the individual pH and hardness measurements for each sample.
[i] = the chronic dissolved zinc guideline is pH, hardness and DOC dependent. The guideline that results in the minimum chronic zinc guideline (5.1 µg/L) is based on the combination of field pH (8.7), hardness (23.1 mg/L) and DOC (5.0 mg/L). Guidelines calculated with pH, hardness, and DOC values falling outside the defined range (i.e., pH 6.5 to 8.13, hardness 23.4 to 399 mg/L and DOC 0.3 to 22.9 mg/L) should be used with caution, as the WQG does not necessarily accurately reflect toxic effects at the low and high pH, hardness and DOC extremes. The guideline is calculated based on the individual pH, hardness and DOC measurements for each sample.
[C] = concentration is higher than the chronic aquatic life CCME guideline or outside the recommended pH, DO or total alkalinity range.

Bolded concentrations are higher than water quality guidelines.
Water quality data and guidelines shown in this table were rounded to reflect laboratory or field instrument precision *after* comparisons to guidelines. Therefore, values slightly above guidelines may be displayed as being equal to the guidelines and identified as exceedances. Concentrations equal to the guideline values were not identified as exceedances.
- = no guideline or no data.

APPENDIX C: FIELD NOTES

LAKE or POND WQ STATION INFORMATION

Lake Station: WQ1
Sample ID (and REP): WQ1
Crew: LK
Date/ Time: 22-Aug-25 7:50
Weather Observations: 10°C OVC moderate wind

UTM Coordina Easting: **Waypoint#:**
Northing:
Photo #s: Yes

FIELD MEASUREMENTS

Depth	Temperature	Conductivity		Dissolved Oxygen		pH	ORP / Turbidity
units:	°C	uS/cm	µs/cm^A	mg/L	%		mV
(0)	13.26	79	61	6.86	66.9	7.78	235.5
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Total Water Depth: ~2.1 m
Surface pH:
Secchi Depth:
Field Notes: Small pond.

WATER SAMPLE CHECKLIST

Lake Station: WQ1
Sample ID (and REP): WQ1
Date/ Time: 22-Aug-2025 7:50

	Depths Sampled	Depth ID	Field DUP? Name?
A-	SFC		
B-			
C-			

For each of the above depths, collect the full suite of

Jar Type	Filter?	Parameter	Preservation / Storage
2 x 1L plastic		Conventionals*	none / keep cool
250 mL amber glass		TKN, Ammonia	1 vial sulfuric acid / keep cool
125 mL amber glass		TOC	1 vial hydrochloric acid / keep cool
125 mL amber glass	yes	DOC	1 vial hydrochloric acid / keep cool
250 mL plastic		Total Metals	1 vial nitric acid / keep cool
250 mL plastic	yes	Dissolved Metal:	1 vial nitric acid / keep cool
Filter (1L water pumpec	yes	Chlorophyll-a	1-2 drops magnesium carbonat
eDNA ^		Fisheries data	Freeze filter

^ Field filter 500 mL otherwise record volume

* Conventionals include: conductivity, hardness, pH, TSS-low, TDS, total phosphate, orthophosphate, silicate, anion scan (nitrate, nitrite, sulphate, chloride), alkalinity (speciated),.

Notes:

Separate eDNA also taken from south basin

LAKE or POND WQ STATION INFORMATION

Lake Station: WQ2
Sample ID (and REP): WQ2
Crew: LK
Date/ Time: 22-Aug-2024 10:05
Weather Observations: OVC 10°C wind moderate from east.

UTM Coordina Easting: **Waypoint#:**
Northing:
Photo #s: Yes

FIELD MEASUREMENTS

Depth	Temperature	Conductivity		Dissolved Oxygen		pH	ORP
	~~Turbidity~~						
units:	°C	µS/cm	µS/cm^A	mg/L	%		mV
✓ 0	13.12	62	48	8.83	85.2	7.64	229.2
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Total Water Depth:
Surface pH:
Secchi Depth:
Field Notes: Larger pond / lake

WATER SAMPLE CHECKLIST

Lake Station: WQ2

Sample ID (and REP): WQ2

Date/ Time: 22-Aug-2025 10:05

Depths Sampled	Depth ID	Field DUP? Name?
A- Sfc		
B-		
C-		

For each of the above depths, collect the full suite of

Jar Type	Filter?	Parameter	Preservation / Storage
2 x 1L plastic		Conventionals*	none / keep cool
250 mL amber glass		TKN, Ammonia	1 vial sulfuric acid / keep cool
125 mL amber glass		TOC	1 vial hydrochloric acid / keep cool
125 mL amber glass	yes	DOC	1 vial hydrochloric acid / keep cool
250 mL plastic		Total Metals	1 vial nitric acid / keep cool
250 mL plastic	yes	Dissolved Metals	1 vial nitric acid / keep cool
Filter (1L water pumped	yes	Chlorophyll-a	1-2 drops magnesium carbonat
eDNA	^	Fisheries data	Freeze filter

^ Field filter 500 mL otherwise record volume

* Conventionals include: conductivity, hardness, pH, TSS-low, TDS, total phosphate, orthophosphate, silicate, anion scan (nitrate, nitrite, sulphate, chloride), alkalinity (speciated),.

Notes: Sample from West Shoreline

LAKE or POND WQ STATION INFORMATION

Lake Station: WQ3
Sample ID (and REP): WQ3
Crew: LK
Date/ Time: 24-Aug-25 8:20
Weather Observations: 10°C Partly cloudy Strong wind from west

UTM Coordina Easting: **Waypoint#:**
Northing:
Photo #s: Yes

FIELD MEASUREMENTS

Depth	Temperature	Conductivity		Dissolved Oxygen		pH	ORP
~~Turbidity~~							
m units:	°C	uS/cm	uS/cm^A	mg/L	%		mV
(0)	14.05	57	45	9.87	100%	7.85	202.0
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Total Water Depth:
Surface pH:
Secchi Depth:
Field Notes:

WATER SAMPLE CHECKLIST

Lake Station: WQ3
Sample ID (and REP): WQ3
Date/ Time: 24-Aug-25 8:20

	Depths Sampled	Depth ID	Field DUP? Name?
A-	SFC		
B-			
C-			

For each of the above depths, collect the full suite of

Jar Type	Filter?	Parameter	Preservation / Storage
2 x 1L plastic		Conventionals*	none / keep cool
250 mL amber glass		TKN, Ammonia	1 vial sulfuric acid / keep cool
125 mL amber glass		TOC	1 vial hydrochloric acid / keep cool
125 mL amber glass	yes	DOC	1 vial hydrochloric acid / keep cool
250 mL plastic		Total Metals	1 vial nitric acid / keep cool
250 mL plastic	yes	Dissolved Metals	1 vial nitric acid / keep cool
Filter (1L water pumped	yes	Chlorophyll-a	1-2 drops magnesium carbonat
eDNA ^		Fisheries data	Freeze filter

^ Field filter 500 mL otherwise record volume

* Conventionals include: conductivity, hardness, pH, TSS-low, TDS, total phosphate, orthophosphate, silicate, anion scan (nitrate, nitrite, sulphate, chloride), alkalinity (speciated),.

Notes:

LAKE or POND WQ STATION INFORMATION

Lake Station: WQ4
Sample ID (and REP): WQ4
Crew: LK
Date/ Time: 22-Aug-2025 12:00
Weather Observations: Partly cloudy 13°C moderate wind

UTM Coordina Easting: **Waypoint#:**
Northing:
Photo #s: yes

FIELD MEASUREMENTS

Depth	Temperature	Conductivity		Dissolved Oxygen		pH	ORP
	~~Turbidity~~						
units:	°C	µS/cm	µS/cm	mg/L	%		mV
✓ (0)	14.38	46	37	9.00	88.0	7.73	234.8
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Total Water Depth:
Surface pH:
Secchi Depth:
Field Notes: Larger lake. Sampled from east shore

WATER SAMPLE CHECKLIST

Lake Station: WQ4
Sample ID (and REP): WQ4
Date/ Time: 22-Aug-2025 12:00

	Depths Sampled	Depth ID	Field DUP? Name?
A-	SEC		
B-			
C-			

For each of the above depths, collect the full suite of

Jar Type	Filter?	Parameter	Preservation / Storage
2 x 1L plastic		Conventionals*	none / keep cool
250 mL amber glass		TKN, Ammonia	1 vial sulfuric acid / keep cool
125 mL amber glass		TOC	1 vial hydrochloric acid / keep cool
125 mL amber glass	yes	DOC	1 vial hydrochloric acid / keep cool
250 mL plastic		Total Metals	1 vial nitric acid / keep cool
250 mL plastic	yes	Dissolved Metal:	1 vial nitric acid / keep cool
Filter (1L water pumpec	yes	Chlorophyll-a	1-2 drops magnesium carbonat
eDNA ^		Fisheries data	Freeze filter

^ Field filter 500 mL otherwise record volume

* Conventionals include: conductivity, hardness, pH, TSS-low, TDS, total phosphate, orthophosphate, silicate, anion scan (nitrate, nitrite, sulphate, chloride), alkalinity (speciated),.

Notes:

RIVER, STREAM or CREEK STATION INFORMATION

Stream Station: W4
Sample ID (and REP): W4
Crew: LK
Date/ Time: 26 Aug-2025 14:20
Weather Observations: 15'c overcast Light wind

UTM Coordina Easting: **Waypoint#:**
Northing:
Photo #s: US/MS/DS

FIELD MEASUREMENTS

Stream order: pH ORP

Depth	Temperature	Conductivity		Dissolved Oxygen		Turbidity	
units: m	'C	µs/cm	µs/cm^A	mg/L	%		mV
SFC	12.76	101	78	8.36	77.3	7.64	234.8

Wetted width: **Bankful:**

% of substrate: 70% boulders 20% cobbles 10% gravel + finer

Slope: **Depth of upgradient pond/lake:**

Sketch the stream – riffles, substrate, overhanging veg, etc:

Sampled 5m DS from SG.
SG: 0.604

WATER SAMPLE CHECKLIST

~~Lake~~ Stream Station: W4
Sample ID (and REP): W4
Date/ Time: 26-Aug-25 14:20

~~Field DUP~~? Name?

A- SFC
B-
C-

For each of the above depths, collect the full suite of ja

Jar Type	Filter?	Parameter	Preservation / Storage
2 x 1L plastic		Conventionals*	none / keep cool
250 mL amber glass		TKN, Ammonia	1 vial sulfuric acid / keep cool
125 mL amber glass		TOC	1 vial hydrochloric acid / keep cool
125 mL amber glass	yes	DOC	1 vial hydrochloric acid / keep cool
250 mL plastic		Total Metals	1 vial nitric acid / keep cool
250 mL plastic	yes	Dissolved Metals	1 vial nitric acid / keep cool
Filter (1L water pumpec	yes	Chlorophyll-a	1-2 drops magnesium carbonat
eDNA	^	Fisheries data	Freeze filter

^ Field filter 500 mL otherwise record volume

* Conventionals include: conductivity, hardness, pH, TSS-low, TDS, total phosphate, orthophosphate, silicate, anion scan (nitrate, nitrite, sulphate, chloride), alkalinity (speciated),.

Notes: Potential fish species based on habitat and connectivity, describe stream

LAKE or POND WQ STATION INFORMATION

Lake Station: WQ-5
Sample ID (and REP): WQ5
Crew: LK
Date/ Time: 21-Aug-2025 16:40
Weather Observations: 10°C spitting rain OVC wind from north
UTM Coordina Easting: Photos • **Waypoint#:**
Northing:
Photo #s: ✓

FIELD MEASUREMENTS

Depth	Temperature	Conductivity		Dissolved Oxygen		pH	ORP / Turbidity
units:	°C	µS/cm	µS/cm^A	mg/l	%		mV
LK 0	~~11.59~~	~~16.1~~	~~120~~	error dlt bubble on probe			
LK ~~10~~	~~13.29~~	~~92~~	~~73~~	~~7.48~~	~~71.2~~	~~7.84~~	~~109.3~~
2 0	12.71	108	82	6.55	62.4	7.75	115.0
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Total Water Depth:
Surface pH:
Secchi Depth:
Field Notes:

Note: Sample taken in large lake on bank dlt absence of channel @ sample waypoint btw small and large pond.

WATER SAMPLE CHECKLIST

Lake Station: WQ5
Sample ID (and REP): WQ5
Date/ Time: 21-Aug-2025 16:40

	Depths Sampled	Depth ID	Field DUP? Name?
A-	Surface only	from shoreline	
B-			
C-			

For each of the above depths, collect the full suite of

Jar Type	Filter?	Parameter	Preservation / Storage
✓ 2 x 1L plastic		Conventionals*	none / keep cool
250 mL amber glass		TKN, Ammonia	1 vial sulfuric acid / keep cool
✓ 125 mL amber glass		TOC	1 vial hydrochloric acid / keep cool
✓ 125 mL amber glass	yes	DOC	1 vial hydrochloric acid / keep cool
✓ 250 mL plastic		Total Metals	1 vial nitric acid / keep cool
✓ 250 mL plastic	yes	Dissolved Metals	1 vial nitric acid / keep cool
Filter (1L water pumped	yes	Chlorophyll-a	1-2 drops magnesium carbonat
✓ eDNA ^		Fisheries data	Freeze filter

^ Field filter 500 mL otherwise record volume

* Conventionals include: conductivity, hardness, pH, TSS-low, TDS, total phosphate, orthophosphate, silicate, anion scan (nitrate, nitrite, sulphate, chloride), alkalinity (speciated),.

Notes:

LAKE

RIVER, STREAM or CREEK STATION INFORMATION

Stream Station:
Sample ID (and REP): WQ-6
Crew: LK
Date/ Time: 16:00 21-Aug-2025
Weather Observations: 10°c spitting rain moderate wind from north
UTM Coordina Easting: See photos **Waypoint#:**
Northing:
Photo #s: Yes

FIELD MEASUREMENTS

Stream order:

Depth	Temperature	Conductivity		Dissolved Oxygen		pH	ORP
units: m	°c	MS/cm	uS/cm^A	mg/L	%		mV
SFC	14,36	72	57	8,02	80,0	8,17	215

Wetted width: **Bankful:**

% of substrate:

Slope: **Depth of upgradient pond/lake:**

Sketch the stream – riffles, substrate, overhanging veg, etc:

~~* Sample taken in big pond d/t absence of channel @ Sample location between small~~

WATER SAMPLE CHECKLIST

Lake Station: WB6
Sample ID (and REP): WQ6
Date/ Time: 16:00 21-Aug-2025

Field DUP? Name?
A- surface only.
B-
C-

For each of the above depths, collect the full suite of ja

Jar Type	Filter?	Parameter	Preservation / Storage
2 x 1L plastic		Conventionals*	none / keep cool
250 mL amber glass		TKN, Ammonia	1 vial sulfuric acid / keep cool
125 mL amber glass		TOC	1 vial hydrochloric acid / keep cool
125 mL amber glass	yes	DOC	1 vial hydrochloric acid / keep cool
250 mL plastic		Total Metals	1 vial nitric acid / keep cool
250 mL plastic	yes	Dissolved Metals	1 vial nitric acid / keep cool
Filter (1L water pumpec	yes	Chlorophyll-a	1-2 drops magnesium carbonat
eDNA	^	Fisheries data	Freeze filter

^ Field filter 500 mL otherwise record volume

* Conventionals include: conductivity, hardness, pH, TSS-low, TDS, total phosphate, orthophosphate, silicate, anion scan (nitrate, nitrite, sulphate, chloride), alkalinity (speciated),.

Notes: Potential fish species based on habitat and connectivity, describe stream

LAKE or POND WQ STATION INFORMATION

Lake Station: WQ7
Sample ID (and REP): WQ7
Crew: LK
Date/ Time: 24-Aug-25 13:20
Weather Observations: 20°C Sunny Strong wind from West

UTM Coordina Easting: **Waypoint#:**
Northing:
Photo #s: yes

FIELD MEASUREMENTS

Depth	Temperature	Conductivity		Dissolved Oxygen		pH	~~Turbidity~~ ORP
m units:	°C	uS/cm	uS/cm	mg/L	%		mV
(0)	15.38	102	84	9.27	93.4	8.14	241.7
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Total Water Depth:
Surface pH:
Secchi Depth:
Field Notes:

WATER SAMPLE CHECKLIST

Lake Station: WQ7
Sample ID (and REP): WQ7
Date/ Time: 24-Aug-25 13:20

	Depths Sampled	Depth ID	Field DUP? Name?
A-	SFC		
B-			
C-			

For each of the above depths, collect the full suite of

Jar Type	Filter?	Parameter	Preservation / Storage
✓ 2 x 1L plastic		Conventionals*	none / keep cool
250 mL amber glass		TKN, Ammonia	1 vial sulfuric acid / keep cool
✓ 125 mL amber glass		TOC	1 vial hydrochloric acid / keep cool
✓ 125 mL amber glass	yes	DOC	1 vial hydrochloric acid / keep cool
✓ 250 mL plastic		Total Metals	1 vial nitric acid / keep cool
✓ 250 mL plastic	yes	Dissolved Metals	1 vial nitric acid / keep cool
Filter (1L water pumpec	yes	Chlorophyll-a	1-2 drops magnesium carbonat
✓ eDNA ^		Fisheries data	Freeze filter

^ Field filter 500 mL otherwise record volume

* Conventionals include: conductivity, hardness, pH, TSS-low, TDS, total phosphate, orthophosphate, silicate, anion scan (nitrate, nitrite, sulphate, chloride), alkalinity (speciated),.

Notes:

LAKE or POND WQ STATION INFORMATION

Lake Station: WQ 8
Sample ID (and REP): WQ8
Crew: LK
Date/ Time: 23-Aug-2025 8:20
Weather Observations: Partly cloudy 10°C Light wind from W

UTM Coordina Easting: **Waypoint#:**
Northing:
Photo #s: yes

FIELD MEASUREMENTS

Depth	Temperature	Conductivity		Dissolved Oxygen		pH Turbidity	ORP
units:	°C	µS/cm	µS/cm^A	mg/L	%		mV
(0)	13.91	96	76	~~6.43~~ LK	~~62.8~~ LK	8.04	222.8
1				8.96	85.3		
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Total Water Depth:
Surface pH:
Secchi Depth:
Field Notes:

WATER SAMPLE CHECKLIST

Lake Station: WQ8
Sample ID (and REP): WQ8
Date/ Time: 23- Aug- 2025 8:20

	Depths Sampled	Depth ID	Field DUP? Name?
A-	SFC		
B-			
C-			

For each of the above depths, collect the full suite of

Jar Type	Filter?	Parameter	Preservation / Storage
2 x 1L plastic		Conventionals*	none / keep cool
250 mL amber glass		TKN, Ammonia	1 vial sulfuric acid / keep cool
125 mL amber glass		TOC	1 vial hydrochloric acid / keep cool
125 mL amber glass	yes	DOC	1 vial hydrochloric acid / keep cool
250 mL plastic		Total Metals	1 vial nitric acid / keep cool
250 mL plastic	yes	Dissolved Metals	1 vial nitric acid / keep cool
Filter (1L water pumped	yes	Chlorophyll-a	1-2 drops magnesium carbonat
eDNA ^		Fisheries data	Freeze filter

^ Field filter 500 mL otherwise record volume

* Conventionals include: conductivity, hardness, pH, TSS-low, TDS, total phosphate, orthophosphate, silicate, anion scan (nitrate, nitrite, sulphate, chloride), alkalinity (speciated),.

Notes:

LAKE

RIVER, STREAM or CREEK STATION INFORMATION

Stream Station: ~~wq~~ wq9
Sample ID (and REP): wq 9
Crew: LK
Date/ Time: 22-Aug-25 14:20
Weather Observations: 16°c partly cloudy moderate wind from East

UTM Coordina Easting: **Waypoint#:**
Northing:
Photo #s: Yes

FIELD MEASUREMENTS

Stream order:

Depth	Temperature	Conductivity		Dissolved Oxygen		pH	ORP
units: m	°C	µs/cm	µs/cm^A	mg/L	%		mV
SFC	15.08	66	54	8.94	90.1	8.15	224.5

~~Turbidity~~

Wetted width: **Bankful:**

% of substrate:

Slope: **Depth of upgradient pond/lake:**

Sketch the stream – riffles, substrate, overhanging veg, etc:

WATER SAMPLE CHECKLIST

Lake Station: WQ9
Sample ID (and REP): WQ9
Date/ Time: 22-Aug-25 14:20

Field ~~DUP~~? Name?
A- SFC
B-
C-

For each of the above depths, collect the full suite of ja

Jar Type	Filter?	Parameter	Preservation / Storage
2 x 1L plastic		Conventionals*	none / keep cool
250 mL amber glass		TKN, Ammonia	1 vial sulfuric acid / keep cool
125 mL amber glass		TOC	1 vial hydrochloric acid / keep cool
125 mL amber glass	yes	DOC	1 vial hydrochloric acid / keep cool
250 mL plastic		Total Metals	1 vial nitric acid / keep cool
250 mL plastic	yes	Dissolved Metals	1 vial nitric acid / keep cool
Filter (1L water pumpec	yes	Chlorophyll-a	1-2 drops magnesium carbonat
eDNA	^	Fisheries data	Freeze filter

^ Field filter 500 mL otherwise record volume

* Conventionals include: conductivity, hardness, pH, TSS-low, TDS, total phosphate, orthophosphate, silicate, anion scan (nitrate, nitrite, sulphate, chloride), alkalinity (speciated),.

Notes: Potential fish species based on habitat and connectivity, describe stream

LAKE

RIVER, STREAM or CREEK STATION INFORMATION

Stream Station: WQ 10
Sample ID (and REP): WQ 10
Crew: LK
Date/ Time: 22-Aug-2025 13:50
Weather Observations: Partly cloudy. 14°C wind from east.

UTM Coordina Easting: **Waypoint#:**
Northing:
Photo #s: Yes

FIELD MEASUREMENTS

Stream order:

Depth	Temperature	Conductivity		Dissolved Oxygen		pH	ORP
units: ~~sfc~~ m	°C	µS/cm	µS/cm A	mg/L	%		mV
SFC	14.00	54	43	9.64	95.4	7.95	206.6

Wetted width: **Bankful:**

% of substrate:

Slope: **Depth of upgradient pond/lake:**

Sketch the stream – riffles, substrate, overhanging veg, etc:

WATER SAMPLE CHECKLIST

Lake Station: WQ10
Sample ID (and REP): WQ10
Date/ Time: 22-Aug-2025 13:50

Field DUP? Name?
A- SFC
B-
C-

For each of the above depths, collect the full suite of ja

Jar Type	Filter?	Parameter	Preservation / Storage
2 x 1L plastic		Conventionals*	none / keep cool
250 mL amber glass		TKN, Ammonia	1 vial sulfuric acid / keep cool
125 mL amber glass		TOC	1 vial hydrochloric acid / keep cool
125 mL amber glass	yes	DOC	1 vial hydrochloric acid / keep cool
250 mL plastic		Total Metals	1 vial nitric acid / keep cool
250 mL plastic	yes	Dissolved Metals	1 vial nitric acid / keep cool
Filter (1L water pumpec	yes	Chlorophyll-a	1-2 drops magnesium carbonat
eDNA	^	Fisheries data	Freeze filter

^ Field filter 500 mL otherwise record volume

* Conventionals include: conductivity, hardness, pH, TSS-low, TDS, total phosphate, orthophosphate, silicate, anion scan (nitrate, nitrite, sulphate, chloride), alkalinity (speciated),.

Notes: Potential fish species based on habitat and connectivity, describe stream

LAKE or POND WQ STATION INFORMATION

Lake Station: WQ11
Sample ID (and REP): WQ11
Crew: LK
Date/ Time: 25-Aug-25 13:40
Weather Observations: 12°c OVC moderate wind from North.

UTM Coordina Easting: **Waypoint#:**
Northing:
Photo #s: Yes - Aventza

FIELD MEASUREMENTS

Depth	Temperature	Conductivity		Dissolved Oxygen		pH	~~Turbidity~~ ORP
m units:	°c	uS/cm	uSkm^A	mg/L	%		mV
(0)	14.13	77	62	6.38	62.7	7.75	211.8
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Total Water Depth:
Surface pH:
Secchi Depth:
Field Notes:

WATER SAMPLE CHECKLIST

Lake Station: WQ 11
Sample ID (and REP): WQ11
Date/ Time: 25-Aug-25 13:40

	Depths Sampled	Depth ID	Field DUP? Name?
A-	SFC		
B-			
C-			

For each of the above depths, collect the full suite of

Jar Type	Filter?	Parameter	Preservation / Storage
✓ 2 x 1L plastic		Conventionals*	none / keep cool
250 mL amber glass		TKN, Ammonia	1 vial sulfuric acid / keep cool
✓ 125 mL amber glass		TOC	1 vial hydrochloric acid / keep cool
✓ 125 mL amber glass	yes	DOC	1 vial hydrochloric acid / keep cool
✓ 250 mL plastic		Total Metals	1 vial nitric acid / keep cool
✓ 250 mL plastic	yes	Dissolved Metal:	1 vial nitric acid / keep cool
Filter (1L water pumpec	yes	Chlorophyll-a	1-2 drops magnesium carbonat
✓ eDNA ^		Fisheries data	Freeze filter

^ Field filter 500 mL otherwise record volume

* Conventionals include: conductivity, hardness, pH, TSS-low, TDS, total phosphate, orthophosphate, silicate, anion scan (nitrate, nitrite, sulphate, chloride), alkalinity (speciated),.

Notes:

LAKE or POND WQ STATION INFORMATION

Lake Station: WQ 12
Sample ID (and REP): WQ12
Crew: LK
Date/ Time: 25-Aug-25 14:20
Weather Observations: 15°c OVC moderate wind from N

UTM Coordina Easting: **Waypoint#:**
Northing:
Photo #s: Yes

FIELD MEASUREMENTS

Depth	Temperature	Conductivity		Dissolved Oxygen		pH	ORP ~~Turbidity~~
m units:	°c	us/cm	us/cm^A	mg/L	%		mV
@	15.25	73	60	7.39	78.5	7.61	~~8~~ 77.9
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Total Water Depth:
Surface pH:
Secchi Depth:
Field Notes: Tea coloured. Lots of fines easily stirred up on bed.

WATER SAMPLE CHECKLIST

Lake Station: WQ12
Sample ID (and REP): WQ12
Date/ Time: 25-Aug-25 14:20

	Depths Sampled	Depth ID	~~Field DUP? Name?~~
A-	SFC		
B-			
C-			

For each of the above depths, collect the full suite of

Jar Type	Filter?	Parameter	Preservation / Storage
2 x 1L plastic		Conventionals*	none / keep cool
250 mL amber glass		TKN, Ammonia	1 vial sulfuric acid / keep cool
125 mL amber glass		TOC	1 vial hydrochloric acid / keep cool
125 mL amber glass	yes	DOC	1 vial hydrochloric acid / keep cool
250 mL plastic		Total Metals	1 vial nitric acid / keep cool
250 mL plastic	yes	Dissolved Metals	1 vial nitric acid / keep cool
Filter (1L water pumpec	yes	Chlorophyll-a	1-2 drops magnesium carbonat
eDNA ^		Fisheries data	Freeze filter

^ Field filter 500 mL otherwise record volume

* Conventionals include: conductivity, hardness, pH, TSS-low, TDS, total phosphate, orthophosphate, silicate, anion scan (nitrate, nitrite, sulphate, chloride), alkalinity (speciated),.

Notes:

2x eDNA Filters Submitted as volume passed through each was <250 ml.

LAKE or POND WQ STATION INFORMATION

Lake Station: WQ13
Sample ID (and REP): WQ 13
Crew: LR
Date/ Time: 25-Aug-25 15:45
Weather Observations: 14°C OVC moderate wind from North.

UTM Coordina Easting: **Waypoint#:**
Northing:
Photo #s: Yes

FIELD MEASUREMENTS

Depth	Temperature	Conductivity		Dissolved Oxygen		pH	ORP ~~Turbidity~~
m units:	°C	µS/cm	µS/cm^A	mg/L	%		mV
(0)	15.46	85	70	6.88	76.0	7.67	140.3
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Total Water Depth:
Surface pH:
Secchi Depth:
Field Notes: west side of pond.

WATER SAMPLE CHECKLIST

Lake Station: WQ13
Sample ID (and REP): WQ13
Date/ Time: 25-Aug-25 15:45

	Depths Sampled	Depth ID	Field DUP? Name?
A-	SFC		
B-			
C-			

For each of the above depths, collect the full suite of

Jar Type	Filter?	Parameter	Preservation / Storage
2 x 1L plastic		Conventionals*	none / keep cool
250 mL amber glass		TKN, Ammonia	1 vial sulfuric acid / keep cool
125 mL amber glass		TOC	1 vial hydrochloric acid / keep cool
125 mL amber glass	yes	DOC	1 vial hydrochloric acid / keep cool
250 mL plastic		Total Metals	1 vial nitric acid / keep cool
250 mL plastic	yes	Dissolved Metal	1 vial nitric acid / keep cool
Filter (1L water pumpec	yes	Chlorophyll-a	1-2 drops magnesium carbonat
eDNA ^		Fisheries data	Freeze filter

^ Field filter 500 mL otherwise record volume

* Conventionals include: conductivity, hardness, pH, TSS-low, TDS, total phosphate, orthophosphate, silicate, anion scan (nitrate, nitrite, sulphate, chloride), alkalinity (speciated),.

Notes:

LAKE or POND WQ STATION INFORMATION

Lake Station: WQ14
Sample ID (and REP): WQ14
Crew: LK
Date/ Time: 25-Aug-25 9:30
Weather Observations: 10°C ovc wind L+V

UTM Coordina Easting: **Waypoint#:**
Northing:
Photo #s: Yes

FIELD MEASUREMENTS

Depth	Temperature	Conductivity		Dissolved Oxygen		pH	ORP ~~Turbidity~~
m units:	°C	µS/cm	µS/cm^A	mg/L	%		mV
⓪	14.38	47	38	8.40	82.9	7.71	206.8
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Total Water Depth:
Surface pH:
Secchi Depth:
Field Notes:

WATER SAMPLE CHECKLIST

Lake Station: WG 14
Sample ID (and REP): WG 14
Date/ Time: 25-Aug-25 9:30

	Depths Sampled	Depth ID	Field DUP? Name?
A-	SFC		DUP 1
B-			
C-			

For each of the above depths, collect the full suite of

Jar Type	Filter?	Parameter	Preservation / Storage
2 x 1L plastic		Conventionals*	none / keep cool
250 mL amber glass		TKN, Ammonia	1 vial sulfuric acid / keep cool
125 mL amber glass		TOC	1 vial hydrochloric acid / keep cool
125 mL amber glass	yes	DOC	1 vial hydrochloric acid / keep cool
250 mL plastic		Total Metals	1 vial nitric acid / keep cool
250 mL plastic	yes	Dissolved Metal:	1 vial nitric acid / keep cool
Filter (1L water pumpec	yes	Chlorophyll-a	1-2 drops magnesium carbonat
eDNA ^		Fisheries data	Freeze filter

^ Field filter 500 mL otherwise record volume

* Conventionals include: conductivity, hardness, pH, TSS-low, TDS, total phosphate, orthophosphate, silicate, anion scan (nitrate, nitrite, sulphate, chloride), alkalinity (speciated),.

Notes:

RIVER, STREAM or CREEK STATION INFORMATION

Stream Station: WQ 15
Sample ID (and REP): WQ 15
Crew: LK
Date/ Time: 23-Aug-25 12:10
Weather Observations: Partly cloudy 16°C wind light from East

UTM Coordina Easting: **Waypoint#:**
Northing:
Photo #s: 105 US/MS/substrate/DS

FIELD MEASUREMENTS

Stream order:

Depth	Temperature	Conductivity		Dissolved Oxygen		pH	ORP
units: m	°C	µS/cm	µS/cm^A	mg/L	%		mV
SFC	14.84	48	39	8.89	86.0	8.44	212.7

Wetted width: 63 m **Bankful:** 82 m
% of substrate: 60% boulders 40% Cobbles
Slope: Flat **Depth of upgradient pond/lake:**

Sketch the stream – riffles, substrate, overhanging veg, etc:

Sample from South shore.

WATER SAMPLE CHECKLIST

Stream
Lake Station: WQ15
Sample ID (and REP): WQ15
Date/ Time: 23-Aug-25 ~~+2:00~~ 12:10

~~**Field DUP? Name?**~~
A- SCC
B-
C-

For each of the above depths, collect the full suite of ja

Jar Type	Filter?	Parameter	Preservation / Storage
2 x 1L plastic		Conventionals*	none / keep cool
250 mL amber glass		TKN, Ammonia	1 vial sulfuric acid / keep cool
125 mL amber glass		TOC	1 vial hydrochloric acid / keep cool
125 mL amber glass	yes	DOC	1 vial hydrochloric acid / keep cool
250 mL plastic		Total Metals	1 vial nitric acid / keep cool
250 mL plastic	yes	Dissolved Metals	1 vial nitric acid / keep cool
Filter (1L water pumpec	yes	Chlorophyll-a	1-2 drops magnesium carbonat
eDNA	^	Fisheries data	Freeze filter

^ Field filter 500 mL otherwise record volume

* Conventionals include: conductivity, hardness, pH, TSS-low, TDS, total phosphate, orthophosphate, silicate, anion scan (nitrate, nitrite, sulphate, chloride), alkalinity (speciated),.

Notes: Potential fish species based on habitat and connectivity, describe stream

RIVER, STREAM or CREEK STATION INFORMATION

Stream Station: WQ 16
Sample ID (and REP): WQ16
Crew: LK
Date/ Time: 23 Aug 2025 11:10
Weather Observations: 16°C sunny wind light

UTM Coordina Easting: **Waypoint#:**
Northing:
Photo #s: Yes

FIELD MEASUREMENTS

Stream order:

Depth	Temperature	Conductivity		Dissolved Oxygen		pH	ORP
units: m	°C	µS/cm	µS/cm[A]	mg/L	%		mV
SFC	14.17	26	21	~~7~~ 8.16	~~7~~ 89.7	7.61	243.0

Wetted width: 2.44 m **Bankful:**

% of substrate: 30% boulders 60% cobble 10% gravel

Slope: **Depth of upgradient pond/lake:**

Sketch the stream – riffles, substrate, overhanging veg, etc:

WATER SAMPLE CHECKLIST

~~Lake~~ Stream Station: WQ16
Sample ID (and REP): WQ16
Date/ Time: 23-Aug-25 11:10

~~Field DUP?~~ Name?
A- SFC
B-
C-

For each of the above depths, collect the full suite of ja

Jar Type	Filter?	Parameter	Preservation / Storage
2 x 1L plastic		Conventionals*	none / keep cool
250 mL amber glass		TKN, Ammonia	1 vial sulfuric acid / keep cool
125 mL amber glass		TOC	1 vial hydrochloric acid / keep cool
125 mL amber glass	yes	DOC	1 vial hydrochloric acid / keep cool
250 mL plastic		Total Metals	1 vial nitric acid / keep cool
250 mL plastic	yes	Dissolved Metals	1 vial nitric acid / keep cool
Filter (1L water pumpec	yes	Chlorophyll-a	1-2 drops magnesium carbonat
eDNA	^	Fisheries data	Freeze filter

^ Field filter 500 mL otherwise record volume

* Conventionals include: conductivity, hardness, pH, TSS-low, TDS, total phosphate, orthophosphate, silicate, anion scan (nitrate, nitrite, sulphate, chloride), alkalinity (speciated),.

Notes: Potential fish species based on habitat and connectivity, describe stream

River

LAKE or POND WQ STATION INFORMATION

Lake Station: WQ17
Sample ID (and REP): WQ17
Crew: LK
Date/ Time: 23 Aug - 2025 15:20
Weather Observations: Sunny 18°C wind light

UTM Coordina Easting: **Waypoint#:**
Northing:
Photo #s: US / ms / substrate / DS

FIELD MEASUREMENTS

Depth	Temperature	Conductivity		Dissolved Oxygen		~~Turbidity~~ pH	ORP
units: m	°C	µS/cm	µS/cm^	mg/L	%		mV
(0)	16.15	24	20	9.04	90.1	7.45	211.5
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Total Water Depth:
Surface pH:
Secchi Depth:
Field Notes:

Wetted width: 395 m

Bankful: ~500 m

% substrate

Slope

Taken from west shore

WATER SAMPLE CHECKLIST

Lake Station: WQ17
Sample ID (and REP): WQ17
Date/ Time: 23-Aug-2025 15:20

	Depths Sampled	Depth ID	Field DUP? Name?
A-	SFC		
B-			
C-			

For each of the above depths, collect the full suite of

Jar Type	Filter?	Parameter	Preservation / Storage
2 x 1L plastic		Conventionals*	none / keep cool
250 mL amber glass		TKN, Ammonia	1 vial sulfuric acid / keep cool
125 mL amber glass		TOC	1 vial hydrochloric acid / keep cool
125 mL amber glass	yes	DOC	1 vial hydrochloric acid / keep cool
250 mL plastic		Total Metals	1 vial nitric acid / keep cool
250 mL plastic	yes	Dissolved Metal:	1 vial nitric acid / keep cool
Filter (1L water pumpec	yes	Chlorophyll-a	1-2 drops magnesium carbonat
eDNA ^		Fisheries data	Freeze filter

^ Field filter 500 mL otherwise record volume

* Conventionals include: conductivity, hardness, pH, TSS-low, TDS, total phosphate, orthophosphate, silicate, anion scan (nitrate, nitrite, sulphate, chloride), alkalinity (speciated),.

Notes:

LAKE or POND WQ STATION INFORMATION

Lake Station: WQ19
Sample ID (and REP): WQ19
Crew: LK
Date/ Time: 24-Aug-25 9:45
Weather Observations: Partly cloudy 10C wind moderate from west

UTM Coordina Easting: **Waypoint#:**
Northing:
Photo #s: Yes

FIELD MEASUREMENTS

Depth	Temperature	Conductivity		Dissolved Oxygen		pH ~~Turbidity~~	ORP
m units:	°C	MS/cm	µS/cm	mg/L	%		mV
(0)	13.59	44	34	8.59	84.6	7.55	248.3
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Total Water Depth:
Surface pH:
Secchi Depth:
Field Notes: Sampled west end of pond

WATER SAMPLE CHECKLIST

Lake Station: WQ19
Sample ID (and REP): WQ19
Date/ Time: 24-Aug-25 9:45

	Depths Sampled	Depth ID	Field DUP? Name?
A-	SFC		
B-			
C-			

For each of the above depths, collect the full suite of

Jar Type	Filter?	Parameter	Preservation / Storage
2 x 1L plastic		Conventionals*	none / keep cool
250 mL amber glass		TKN, Ammonia	1 vial sulfuric acid / keep cool
125 mL amber glass		TOC	1 vial hydrochloric acid / keep cool
125 mL amber glass	yes	DOC	1 vial hydrochloric acid / keep cool
250 mL plastic		Total Metals	1 vial nitric acid / keep cool
250 mL plastic	yes	Dissolved Metals	1 vial nitric acid / keep cool
Filter (1L water pumped	yes	Chlorophyll-a	1-2 drops magnesium carbonat
eDNA ^		Fisheries data	Freeze filter

^ Field filter 500 mL otherwise record volume

* Conventionals include: conductivity, hardness, pH, TSS-low, TDS, total phosphate, orthophosphate, silicate, anion scan (nitrate, nitrite, sulphate, chloride), alkalinity (speciated),.

Notes:

RIVER, STREAM or CREEK STATION INFORMATION

Stream Station: WQ20
Sample ID (and REP): WQ20
Crew: LK
Date/ Time: 24-Aug-2025 12:45
Weather Observations: 18°C sunny wind from west

UTM Coordina Easting: **Waypoint#:**
Northing:
Photo #s: US/MS/substrate/DS

FIELD MEASUREMENTS

Stream order:

Depth	Temperature	Conductivity		Dissolved Oxygen		pH	ORP
units: m	°C	µS/cm	µS/cm^A	mg/L	%		mV
SFC	16.12	45	37	12.01	123.8	8.70	214.0

Wetted width: **Bankful:**

% of substrate:

Slope: **Depth of upgradient pond/lake:**

Sketch the stream – riffles, substrate, overhanging veg, etc:

Sampled in Tributary before emptying into Kazan.

WATER SAMPLE CHECKLIST

Stream
Lake Station: WQ20
Sample ID (and REP): WQ20
Date/ Time: 24-Aug-25 12:45

Field DUP? Name?
A- SFC
B-
C-

For each of the above depths, collect the full suite of ja

Jar Type	Filter?	Parameter	Preservation / Storage
2 x 1L plastic		Conventionals*	none / keep cool
250 mL amber glass		TKN, Ammonia	1 vial sulfuric acid / keep cool
125 mL amber glass		TOC	1 vial hydrochloric acid / keep cool
125 mL amber glass	yes	DOC	1 vial hydrochloric acid / keep cool
250 mL plastic		Total Metals	1 vial nitric acid / keep cool
250 mL plastic	yes	Dissolved Metals	1 vial nitric acid / keep cool
Filter (1L water pumpec	yes	Chlorophyll-a	1-2 drops magnesium carbonat
eDNA	^	Fisheries data	Freeze filter

^ Field filter 500 mL otherwise record volume

* Conventionals include: conductivity, hardness, pH, TSS-low, TDS, total phosphate, orthophosphate, silicate, anion scan (nitrate, nitrite, sulphate, chloride), alkalinity (speciated),.

Notes: Potential fish species based on habitat and connectivity, describe stream

RIVER, STREAM or CREEK STATION INFORMATION

Stream Station: WQ25 "Hot swamp"
Sample ID (and REP): WQ25
Crew: LK
Date/ Time: 26-Aug 2025 16:30
Weather Observations:

UTM Coordina Easting: **Waypoint#:**
Northing:
Photo #s: Yes

FIELD MEASUREMENTS

Stream order:

pH ORP

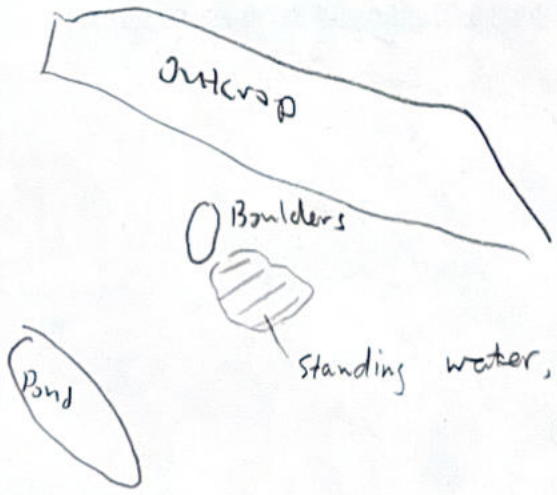
Depth	Temperature	Conductivity		Dissolved Oxygen		Turbidity	
units: m	°C	µS/cm	µS/cm^A	mg/L	%		mV
SFC	9.17	247	172	11.02	97.2	8.74	208.7

Wetted width: **Bankful:**

% of substrate:

Slope: **Depth of upgradient pond/lake:**

Sketch the stream – riffles, substrate, overhanging veg, etc:



High count rate w scintillometer ~4000 cps

Not flowing.

WATER SAMPLE CHECKLIST

~~Lake~~ Seep Station: WQ25
Sample ID (and REP): WQ25
Date/ Time: 26-Aug-25 16:30

~~Field DUP? Name?~~
A- SFE
B-
C-

For each of the above depths, collect the full suite of ja

Jar Type	Filter?	Parameter	Preservation / Storage
2 x 1L plastic		Conventionals*	none / keep cool
250 mL amber glass		TKN, Ammonia	1 vial sulfuric acid / keep cool
125 mL amber glass		TOC	1 vial hydrochloric acid / keep cool
125 mL amber glass	yes	DOC	1 vial hydrochloric acid / keep cool
250 mL plastic		Total Metals	1 vial nitric acid / keep cool
250 mL plastic	yes	Dissolved Metals	1 vial nitric acid / keep cool
Filter (1L water pumpec	yes	Chlorophyll-a	1-2 drops magnesium carbonat
eDNA	^	Fisheries data	Freeze filter

^ Field filter 500 mL otherwise record volume

* Conventionals include: conductivity, hardness, pH, TSS-low, TDS, total phosphate, orthophosphate, silicate, anion scan (nitrate, nitrite, sulphate, chloride), alkalinity (speciated),.

Notes: Potential fish species based on habitat and connectivity, describe stream

LAKE or POND WQ STATION INFORMATION

Lake Station: WQ 26
Sample ID (and REP): WQ26
Crew: LK
Date/ Time: 26-Aug-2025 15:40
Weather Observations: 14°C partly cloudy light wind from East

UTM Coordina Easting: **Waypoint#:**
Northing:
Photo #s: Yes

FIELD MEASUREMENTS

Depth	Temperature	Conductivity		Dissolved Oxygen		pH ~~Turbidity~~	ORP
m units:	°C	µs/cm	µs/cm^A	mg/L	%		mV
(0)	14.16	70	55	9.58	94.7	8.05	202.8
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Total Water Depth:
Surface pH:
Secchi Depth:
Field Notes:

Sampled from point on south side of pond. Sandy beach. Lots of fine organics ~2m from shoreline + deeper. Appears deep in centre.

WATER SAMPLE CHECKLIST

Lake Station: WQ26
Sample ID (and REP): WQ26
Date/ Time: 26-Aug 2025 15:40

	Depths Sampled	Depth ID	~~Field DUP? Name?~~
A-	SFC		
B-			
C-			

For each of the above depths, collect the full suite of

Jar Type	Filter?	Parameter	Preservation / Storage
2 x 1L plastic		Conventionals*	none / keep cool
250 mL amber glass		TKN, Ammonia	1 vial sulfuric acid / keep cool
125 mL amber glass		TOC	1 vial hydrochloric acid / keep cool
125 mL amber glass	yes	DOC	1 vial hydrochloric acid / keep cool
250 mL plastic		Total Metals	1 vial nitric acid / keep cool
250 mL plastic	yes	Dissolved Metals	1 vial nitric acid / keep cool
Filter (1L water pumped	yes	Chlorophyll-a	1-2 drops magnesium carbonat
eDNA ^		Fisheries data	Freeze filter

^ Field filter 500 mL otherwise record volume

* Conventionals include: conductivity, hardness, pH, TSS-low, TDS, total phosphate, orthophosphate, silicate, anion scan (nitrate, nitrite, sulphate, chloride), alkalinity (speciated),.

Notes:

LAKE or POND WQ STATION INFORMATION

Lake Station: Camp Pond
Sample ID (and REP): CP
Crew: LK
Date/ Time: 25-Aug-25 10:20
Weather Observations: 12c OVC moderate wind from North.

UTM Coordina Easting: **Waypoint#:**
Northing:
Photo #s: Yes - Avenza

FIELD MEASUREMENTS

Depth	Temperature	Conductivity		Dissolved Oxygen		pH ~~Turbidity~~	ORP
m units:	°C	uS/cm	mS/cm	mg/l	%		mV
(0)	14.27	85	68	8.48	84.2	7.86	197.0
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Total Water Depth: ≈ 0.6 m Centre of pond
Surface pH:
Secchi Depth:
Field Notes: Sampled @ outlet from pond.

WATER SAMPLE CHECKLIST

Lake Station: Camp Pond
Sample ID (and REP): CP
Date/ Time: ~~30~~ 25-Aug-25 10:20

Depths Sampled	Depth ID	Field DUP? Name?
A- SFC		DUP 2
B-		
C-		

eDNA DUP as well

For each of the above depths, collect the full suite of

Jar Type	Filter?	Parameter	Preservation / Storage
2 x 1L plastic		Conventionals*	none / keep cool
250 mL amber glass		TKN, Ammonia	1 vial sulfuric acid / keep cool
125 mL amber glass		TOC	1 vial hydrochloric acid / keep cool
125 mL amber glass	yes	DOC	1 vial hydrochloric acid / keep cool
250 mL plastic		Total Metals	1 vial nitric acid / keep cool
250 mL plastic	yes	Dissolved Metal:	1 vial nitric acid / keep cool
Filter (1L water pumpec	yes	Chlorophyll-a	1-2 drops magnesium carbonat
eDNA ^		Fisheries data	Freeze filter

^ Field filter 500 mL otherwise record volume

* Conventionals include: conductivity, hardness, pH, TSS-low, TDS, total phosphate, orthophosphate, silicate, anion scan (nitrate, nitrite, sulphate, chloride), alkalinity (speciated),.

Notes:

APPENDIX D: FIELD QA/QC

Table 1: Relative Percent Difference Comparison for Duplicate Surface Water Samples

Sample ID	CP		WQ14	
Lab Parameter	**Result > 5x Detection Limit?**	**Relative Percent Difference (%)**	**Result > 5x Detection Limit?**	**Relative Percent Difference (%)**
Conventional Parameters				
Conductivity	Yes	2	Yes	5
Alkalinity, bicarbonate (as HCO3)	Yes	2	Yes	10
Alkalinity, carbonate (as CO3)	-	0	-	0
Alkalinity, hydroxide (as OH)	-	0	-	0
Alkalinity, total (as CaCO3)	Yes	2	Yes	10
Hardness (as CaCO3), dissolved	Yes	0	Yes	2
Solids, total dissolved [TDS]	Yes	12	Yes	12
Solids, total dissolved [TDS], calculated	Yes	1	Yes	6
Solids, total suspended [TSS]	-	0	-	0
pH	Yes	0	Yes	3
Anions and Nutrients				
Ammonia, total (as N)	Yes	**40**	Yes	13
Chloride	-	0	Yes	11
Fluoride	Yes	3	Yes	2
Nitrate (as N)	-	0	-	0
Nitrate + Nitrite (as N)	Yes	0	Yes	0
Nitrite (as N)	-	0	-	0
Phosphorus, total	Yes	4	Yes	0
Sulfate (as SO4)	Yes	9	-	0
Ion Balance				
Ion balance (cations/anions)	Yes	3	Yes	7
Total Metals				
Aluminum, total	Yes	8	Yes	11
Antimony, total	-	0	-	0
Arsenic, total	Yes	15	Yes	14
Barium, total	Yes	6	Yes	3
Boron, total	-	0	-	52
Cadmium, total	-	13	-	0
Calcium, total	Yes	1	Yes	2
Chromium, total	-	0	-	0
Copper, total	Yes	2	Yes	13
Iron, total	Yes	5	Yes	7
Lead, total	-	0	-	0
Magnesium, total	Yes	3	Yes	3
Manganese, total	Yes	0	Yes	8
Mercury, total	-	0	-	0
Nickel, total	Yes	7	Yes	7

Sample ID	CP		WQ14	
Lab Parameter	**Result > 5x Detection Limit?**	**Relative Percent Difference (%)**	**Result > 5x Detection Limit?**	**Relative Percent Difference (%)**
Potassium, total	Yes	9	Yes	4
Selenium, total	Yes	**42**	-	0
Silver, total	-	0	-	0
Sodium, total	Yes	3	Yes	1
Uranium, total	Yes	9	Yes	2
Zinc, total	Yes	4	-	0
Dissolved Metals				
Aluminum, dissolved	Yes	1	Yes	15
Antimony, dissolved	-	0	-	0
Arsenic, dissolved	Yes	15	Yes	9
Barium, dissolved	Yes	1	Yes	1
Beryllium, dissolved	-	0	-	0
Bismuth, dissolved	-	0	-	0
Boron, dissolved	-	0	-	0
Cadmium, dissolved	-	0	-	0
Calcium, dissolved	Yes	1	Yes	2
Cesium, dissolved	-	0	-	0
Chromium, dissolved	-	0	-	0
Cobalt, dissolved	-	0	-	0
Copper, dissolved	Yes	1	Yes	0
Iron, dissolved	Yes	3	Yes	0
Lead, dissolved	-	0	-	0
Lithium, dissolved	-	0	-	0
Magnesium, dissolved	Yes	1	Yes	1
Manganese, dissolved	Yes	0	Yes	5
Mercury, dissolved	-	0	-	0
Molybdenum, dissolved	Yes	1	Yes	8
Nickel, dissolved	Yes	5	Yes	2
Phosphorus, dissolved	-	0	-	0
Potassium, dissolved	Yes	0	Yes	1
Rubidium, dissolved	Yes	3	Yes	7
Selenium, dissolved	-	0	-	0
Silicon, dissolved	Yes	0	Yes	3
Silver, dissolved	-	0	-	0
Sodium, dissolved	Yes	2	Yes	1
Strontium, dissolved	Yes	1	Yes	0
Sulfur, dissolved	-	0	-	0
Tellurium, dissolved	-	0	-	0
Thallium, dissolved	-	0	-	0

Sample ID	CP		WQ14	
Lab Parameter	**Result > 5x Detection Limit?**	**Relative Percent Difference (%)**	**Result > 5x Detection Limit?**	**Relative Percent Difference (%)**
Thorium, dissolved	-	0	-	0
Tin, dissolved	-	0	-	0
Titanium, dissolved	-	0	-	0
Tungsten, dissolved	-	0	-	0
Uranium, dissolved	Yes	2	Yes	3
Vanadium, dissolved	-	0	-	0
Zinc, dissolved	Yes	4	-	0
Zirconium, dissolved	Yes	4	-	0
Radiological Parameters				
Radium-226	-	0	-	18

20-Aug-25 LK/LQ/RV

15:20

Site C1-2

Temp	DO		Cond		pH	ORP
°C	mg/L	%	µS/cm	mS/cm		mV
15.17	6.82	67	55		7.48	244.1
	~~68.~~ 68.7					

Rite in the Rain

Rite in the Rain

L. Krist 20-Aug-2025

Atha - Angilak Project.

HI 98194 calibration 07:40
Probe SN K3467668
Meter SIN 09200004
Firmware v1.08

Installed fresh DO membrane w O-ring + electrolyte.

Soak all probes in cal beaker filled w HI9828-0 Sol'n 5 minutes
Quick calibration pH ✓
Conductivity ✓
Dissolved oxygen ✓

Scale: 1 square = _____

Rite in the Rain

25-Aug-2025 HI98194

Parameter check

HI 9828-0 soln

check			
	pH	6.85	
	ORP	298.0	mV
	Cond	4907	µS/cm
	Cond	4289	µS/cm A
	DO	4.81	mg/L
	DO	53.1	%
	Temp	18.37	°C

7:30 quick calibration.

pH ✓

conductivity ✓

DO ✓

Scale: 1 square = _____

Rite in the Rain

APPENDIX E: FIELD PHOTOS



Sample Site: C1-1 view downstream



Sample Site: C1-2 view downstream



Sample Site: CP view upstream



Sample Site: S1 from south bank



Sample Site: W4 midstream



Sample Site: WQ1 from north shore



Sample Site: WQ2 from southwest shore



Sample Site: WQ3 from east shore



Sample Site: WQ4 from north shore



Sample Site: WQ5 from north shore



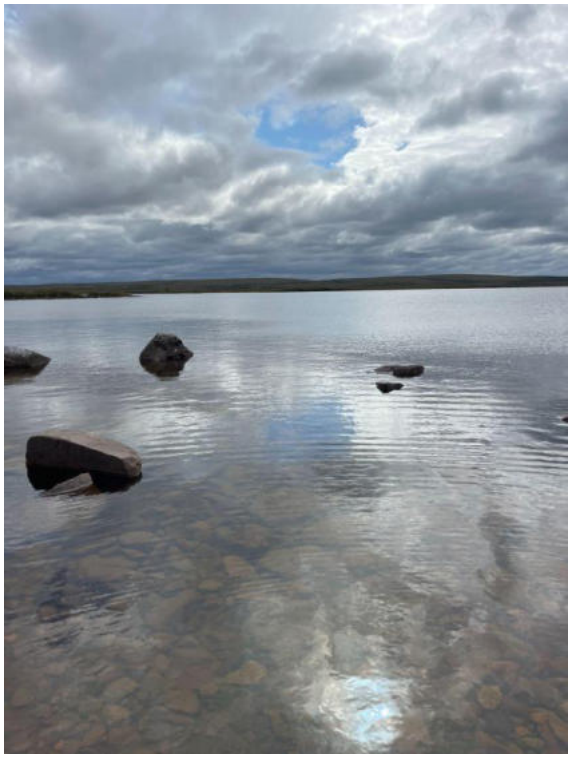
Sample Site: WQ6 from south shore



Sample Site: WQ7 from east shore



Sample Site: WQ8 from east shore



Sample Site: WQ9



Sample Site: WQ10 from north shore



Sample Site: WQ11 from south bank



Sample Site: WQ12 from north shore



Sample Site: WQ13 from north (airborne)



Sample Site: WQ14 from west shore, recording in-situ data and filling bottles



Sample Site: WQ15 from south bank



Sample Site: WQ16 from west bank view downstream



Sample Site: WQ17 from west bank view upstream



Sample Site: WQ19 from north shore



Sample Site: WQ20, recording in-situ data from south bank



Sample Site: WQ25 stagnant pool below rock outcrop



Sample Site: WQ26 from southwest shore

APPENDIX F: LABORATORY RESULTS

CERTIFICATE OF ANALYSIS

Work Order	: **EO2507632**	Page	: 1 of 39
Client	: **Sustainable Solutions Group (2SG Inc.)**	Laboratory	: ALS Environmental - Edmonton
Contact	: Ryan Van Engen	Account Manager	: Vishal Akolkar
Address	: 68 Cork St. W Guelph ON Canada NIH 2X4	Address	: 9450 - 17 Avenue NW Edmonton AB Canada T6N 1M9
Telephone	: 519.710.8516	Telephone	: +1 780 413 5227
Project	: Angilak	Date Samples Received	: 28-Aug-2025 09:00
PO	: P-CA202500004399	Date Analysis Commenced	: 28-Aug-2025
C-O-C number	: ----	Issue Date	: 25-Sep-2025 15:44
Sampler	: RV/LK		
Site	: ----		
Quote number	: EO24-SSGR100-001 (water)		
No. of samples received	: 18		
No. of samples analysed	: 18		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Alannah Barron	Laboratory Analyst	Metals, Edmonton, Alberta
Alastair McGibbon	Laboratory Analyst	Inorganics, Edmonton, Alberta
Alex Drake	Lab Analyst	Inorganics, Edmonton, Alberta
Alex Drake	Lab Analyst	Metals, Edmonton, Alberta
Amanda Powell	Account Manager	External Subcontracting, Saskatoon, Saskatchewan
Dan Nguyen	Team Leader - Inorganics	Metals, Edmonton, Alberta
Daniel Nguyen	Laboratory Analyst	Inorganics, Edmonton, Alberta
Daniel Nguyen	Laboratory Analyst	Metals, Edmonton, Alberta
Jing Liu	Laboratory Analyst	Inorganics, Edmonton, Alberta
Leah Yee	Lab Assistant	Inorganics, Edmonton, Alberta
Shruti Mudliar	Lab Analyst	Inorganics, Edmonton, Alberta

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).
Measurement Uncertainty: The reported uncertainties in this report are expanded uncertainties calculated using a coverage factor of 2, which gives a level of confidence of approximately 95%.
Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Unit	*Description*
-	no units
%	percent
µS/cm	microsiemens per centimetre
Bq/L	becquerels per litre
mg/L	milligrams per litre
pH units	pH units

>: greater than.
<: less than.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Qualifiers

Qualifier	*Description*
IB:INT	*Ion Balance Reviewed: Imbalance is due to interference or non-measured component.*

Analytical Results

EO2507632-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: C1-1
Client sampling date / time: 20-Aug-2025 13:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	46.2	1.2	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188550
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188550
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188550
Alkalinity, total (as CaCO3)	----	37.9	1.0	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188550
Conductivity	----	71.4	1.0	µS/cm	E100/EO	28-Aug-2025	29-Aug-2025	2188549
Hardness (as CaCO3), dissolved	----	35.2	0.50	mg/L	EC100/EO	-	30-Aug-2025	-
pH	----	7.78	0.10	pH units	E108/EO	28-Aug-2025	29-Aug-2025	2188548
Solids, total dissolved [TDS]	----	67	20	mg/L	E162/EO	-	30-Aug-2025	2188450
Solids, total dissolved [TDS], calculated	----	38.4	1.0	mg/L	EC103/EO	-	29-Aug-2025	-
Solids, total suspended [TSS]	----	<3.0	3.0	mg/L	E160/EO	-	29-Aug-2025	2189859
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	0.0225	0.0050	mg/L	E298/EO	29-Aug-2025	30-Aug-2025	2188688
Chloride	16887-00-6	0.69	0.50	mg/L	E235.Cl/EO	28-Aug-2025	28-Aug-2025	2188389
Fluoride	16984-48-8	0.141	0.020	mg/L	E235.F/EO	28-Aug-2025	28-Aug-2025	2188388
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	28-Aug-2025	28-Aug-2025	2188386
Nitrate + Nitrite (as N)	----	<0.0224	0.0224	mg/L	EC235.N+N/EO	-	29-Aug-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	28-Aug-2025	28-Aug-2025	2188387
Phosphorus, total	7723-14-0	0.0071	0.0020	mg/L	E372-U/EO	03-Sep-2025	03-Sep-2025	2196466
Sulfate (as SO4)	14808-79-8	<0.30	0.30	mg/L	E235.SO4/EO	28-Aug-2025	28-Aug-2025	2188385
Ion Balance								
Ion balance (cations/anions)	----	98.7	0.010	%	EC101/EO	-	29-Aug-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0203	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Arsenic, total	7440-38-2	0.00018	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Barium, total	7440-39-3	0.106	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Boron, total	7440-42-8	<0.010	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Calcium, total	7440-70-2	8.26	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Copper, total	7440-50-8	0.00086	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Iron, total	7439-89-6	0.170	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Magnesium, total	7439-95-4	4.10	0.0050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Manganese, total	7439-96-5	0.00999	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/EO	28-Aug-2025	28-Aug-2025	2188308
Nickel, total	7440-02-0	0.00057	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Potassium, total	7440-09-7	0.490	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Selenium, total	7782-49-2	0.000054	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Sodium, total	7440-23-5	1.18	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Uranium, total	7440-61-1	0.000163	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0104	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905

Analytical Results

EO2507632-001

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: C1-1
Client sampling date / time: 20-Aug-2025 13:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Arsenic, dissolved	7440-38-2	0.00016	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Barium, dissolved	7440-39-3	0.103	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Calcium, dissolved	7440-70-2	7.80	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Copper, dissolved	7440-50-8	0.00069	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Iron, dissolved	7439-89-6	0.110	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Magnesium, dissolved	7439-95-4	3.81	0.0050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Manganese, dissolved	7439-96-5	0.00370	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/EO	29-Aug-2025	29-Aug-2025	2190505
Molybdenum, dissolved	7439-98-7	0.000213	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Nickel, dissolved	7440-02-0	0.00085	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Potassium, dissolved	7440-09-7	0.467	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Rubidium, dissolved	7440-17-7	0.00104	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Silicon, dissolved	7440-21-3	0.542	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Sodium, dissolved	7440-23-5	1.17	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Strontium, dissolved	7440-24-6	0.0961	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Uranium, dissolved	7440-61-1	0.000131	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Zinc, dissolved	7440-66-6	0.0026	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Dissolved mercury filtration location	----	Field	-	-	EP509/EO	-	29-Aug-2025	2190505
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	29-Aug-2025	2189905
Radiological Parameters								
Radium-226	13982-63-3	see attached	0.005	Bq/L	Ra-226/2I	-	12-Sep-2025	-

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

EO2507632-002

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: C1-2
Client sampling date / time: 20-Aug-2025 15:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	45.0	1.2	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188550
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188550
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188550
Alkalinity, total (as CaCO3)	----	36.9	1.0	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188550
Conductivity	----	69.1	1.0	µS/cm	E100/EO	28-Aug-2025	29-Aug-2025	2188549
Hardness (as CaCO3), dissolved	----	34.2	0.50	mg/L	EC100/EO	-	30-Aug-2025	-
pH	----	7.70	0.10	pH units	E108/EO	28-Aug-2025	29-Aug-2025	2188548
Solids, total dissolved [TDS]	----	48	13	mg/L	E162/EO	-	30-Aug-2025	2188450
Solids, total dissolved [TDS], calculated	----	37.3	1.0	mg/L	EC103/EO	-	29-Aug-2025	-
Solids, total suspended [TSS]	----	<3.0	3.0	mg/L	E160/EO	-	29-Aug-2025	2189859
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	0.0149	0.0050	mg/L	E298/EO	29-Aug-2025	30-Aug-2025	2188688
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl/EO	28-Aug-2025	28-Aug-2025	2188389
Fluoride	16984-48-8	0.134	0.020	mg/L	E235.F/EO	28-Aug-2025	28-Aug-2025	2188388
Nitrate (as N)	14797-55-8	0.047	0.020	mg/L	E235.NO3/EO	28-Aug-2025	28-Aug-2025	2188386
Nitrate + Nitrite (as N)	----	0.0470	0.0224	mg/L	EC235.N+N/EO	-	29-Aug-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	28-Aug-2025	28-Aug-2025	2188387
Phosphorus, total	7723-14-0	0.0064	0.0020	mg/L	E372-U/EO	03-Sep-2025	03-Sep-2025	2196466
Sulfate (as SO4)	14808-79-8	<0.30	0.30	mg/L	E235.SO4/EO	28-Aug-2025	28-Aug-2025	2188385
Ion Balance								
Ion balance (cations/anions)	----	100	0.010	%	EC101/EO	-	29-Aug-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0153	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Arsenic, total	7440-38-2	0.00017	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Barium, total	7440-39-3	0.109	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Boron, total	7440-42-8	<0.010	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Calcium, total	7440-70-2	7.90	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Copper, total	7440-50-8	0.00082	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Iron, total	7439-89-6	0.064	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Magnesium, total	7439-95-4	4.03	0.0050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Manganese, total	7439-96-5	0.00569	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/EO	28-Aug-2025	28-Aug-2025	2188308
Nickel, total	7440-02-0	0.00057	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Potassium, total	7440-09-7	0.555	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Selenium, total	7782-49-2	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Sodium, total	7440-23-5	1.07	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Uranium, total	7440-61-1	0.000153	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	29-Aug-2025	30-Aug-2025	2189856
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0105	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905

Analytical Results

EO2507632-002

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: C1-2
Client sampling date / time: 20-Aug-2025 15:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Arsenic, dissolved	7440-38-2	0.00016	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Barium, dissolved	7440-39-3	0.106	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Calcium, dissolved	7440-70-2	7.50	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Copper, dissolved	7440-50-8	0.00079	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Iron, dissolved	7439-89-6	0.042	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Magnesium, dissolved	7439-95-4	3.75	0.0050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Manganese, dissolved	7439-96-5	0.00274	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/EO	29-Aug-2025	29-Aug-2025	2190505
Molybdenum, dissolved	7439-98-7	0.000251	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Nickel, dissolved	7440-02-0	0.00103	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Potassium, dissolved	7440-09-7	0.562	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Rubidium, dissolved	7440-17-7	0.00140	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Silicon, dissolved	7440-21-3	0.691	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Sodium, dissolved	7440-23-5	1.10	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Strontium, dissolved	7440-24-6	0.0972	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Uranium, dissolved	7440-61-1	0.000126	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Zinc, dissolved	7440-66-6	0.0021	0.0010	mg/L	E421/EO	29-Aug-2025	30-Aug-2025	2189905
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Dissolved mercury filtration location	----	Field	-	-	EP509/EO	-	29-Aug-2025	2190505
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	29-Aug-2025	2189905
Radiological Parameters								
Radium-226	13982-63-3	see attached	0.005	Bq/L	Ra-226/2I	-	12-Sep-2025	-

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

EO2507632-003

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ6
Client sampling date / time: 21-Aug-2025 16:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	50.0	1.2	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188550
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188550
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188550
Alkalinity, total (as CaCO3)	----	41.0	1.0	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188550
Conductivity	----	73.8	1.0	µS/cm	E100/EO	28-Aug-2025	29-Aug-2025	2188549
Hardness (as CaCO3), dissolved	----	37.1	0.50	mg/L	EC100/EO	-	30-Aug-2025	-
pH	----	7.88	0.10	pH units	E108/EO	28-Aug-2025	29-Aug-2025	2188548
Solids, total dissolved [TDS]	----	54	13	mg/L	E162/EO	-	30-Aug-2025	2188450
Solids, total dissolved [TDS], calculated	----	39.5	1.0	mg/L	EC103/EO	-	29-Aug-2025	-
Solids, total suspended [TSS]	----	<3.0	3.0	mg/L	E160/EO	-	29-Aug-2025	2189859
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	0.0134	0.0050	mg/L	E298/EO	29-Aug-2025	30-Aug-2025	2188688
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl/EO	28-Aug-2025	28-Aug-2025	2188389
Fluoride	16984-48-8	0.126	0.020	mg/L	E235.F/EO	28-Aug-2025	28-Aug-2025	2188388
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	28-Aug-2025	28-Aug-2025	2188386
Nitrate + Nitrite (as N)	----	<0.0224	0.0224	mg/L	EC235.N+N/EO	-	29-Aug-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	28-Aug-2025	28-Aug-2025	2188387
Phosphorus, total	7723-14-0	0.0096	0.0020	mg/L	E372-U/EO	03-Sep-2025	03-Sep-2025	2196466
Sulfate (as SO4)	14808-79-8	<0.30	0.30	mg/L	E235.SO4/EO	28-Aug-2025	28-Aug-2025	2188385
Ion Balance								
Ion balance (cations/anions)	----	97.6	0.010	%	EC101/EO	-	29-Aug-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0098	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Arsenic, total	7440-38-2	0.00011	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Barium, total	7440-39-3	0.131	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Boron, total	7440-42-8	<0.010	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Calcium, total	7440-70-2	7.85	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Copper, total	7440-50-8	0.00059	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Iron, total	7439-89-6	0.048	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Magnesium, total	7439-95-4	4.86	0.0050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Manganese, total	7439-96-5	0.00707	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/EO	28-Aug-2025	28-Aug-2025	2188308
Nickel, total	7440-02-0	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Potassium, total	7440-09-7	0.391	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Selenium, total	7782-49-2	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Sodium, total	7440-23-5	0.990	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Uranium, total	7440-61-1	0.000641	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0034	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905

Analytical Results

EO2507632-003

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ6
Client sampling date / time: 21-Aug-2025 16:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Arsenic, dissolved	7440-38-2	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Barium, dissolved	7440-39-3	0.123	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Calcium, dissolved	7440-70-2	7.57	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Copper, dissolved	7440-50-8	0.00046	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Iron, dissolved	7439-89-6	0.022	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Magnesium, dissolved	7439-95-4	4.41	0.0050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Manganese, dissolved	7439-96-5	0.00104	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/EO	29-Aug-2025	29-Aug-2025	2190505
Molybdenum, dissolved	7439-98-7	0.000290	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Nickel, dissolved	7440-02-0	0.00066	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Potassium, dissolved	7440-09-7	0.384	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Rubidium, dissolved	7440-17-7	0.00081	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Silicon, dissolved	7440-21-3	0.494	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Sodium, dissolved	7440-23-5	0.992	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Strontium, dissolved	7440-24-6	0.135	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Uranium, dissolved	7440-61-1	0.000513	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Dissolved mercury filtration location	----	Field	-	-	EP509/EO	-	29-Aug-2025	2190505
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	29-Aug-2025	2189905
Radiological Parameters								
Radium-226	13982-63-3	see attached	0.005	Bq/L	Ra-226/2I	-	12-Sep-2025	-

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

EO2507632-004

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: WQ5

Client sampling date / time: 21-Aug-2025 16:40

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	57.8	1.2	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188550
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188550
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188550
Alkalinity, total (as CaCO3)	----	47.4	1.0	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188550
Conductivity	----	87.6	1.0	µS/cm	E100/EO	28-Aug-2025	29-Aug-2025	2188549
Hardness (as CaCO3), dissolved	----	46.1	0.50	mg/L	EC100/EO	-	30-Aug-2025	-
pH	----	8.07	0.10	pH units	E108/EO	28-Aug-2025	29-Aug-2025	2188548
Solids, total dissolved [TDS]	----	59	13	mg/L	E162/EO	-	30-Aug-2025	2188450
Solids, total dissolved [TDS], calculated	----	46.9	1.0	mg/L	EC103/EO	-	29-Aug-2025	-
Solids, total suspended [TSS]	----	<3.0	3.0	mg/L	E160/EO	-	29-Aug-2025	2189859
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	0.0103	0.0050	mg/L	E298/EO	29-Aug-2025	30-Aug-2025	2188688
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl/EO	28-Aug-2025	28-Aug-2025	2188389
Fluoride	16984-48-8	0.116	0.020	mg/L	E235.F/EO	28-Aug-2025	28-Aug-2025	2188388
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	28-Aug-2025	28-Aug-2025	2188386
Nitrate + Nitrite (as N)	----	<0.0224	0.0224	mg/L	EC235.N+N/EO	-	29-Aug-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	28-Aug-2025	28-Aug-2025	2188387
Phosphorus, total	7723-14-0	0.0065	0.0020	mg/L	E372-U/EO	03-Sep-2025	03-Sep-2025	2196466
Sulfate (as SO4)	14808-79-8	<0.30	0.30	mg/L	E235.SO4/EO	28-Aug-2025	28-Aug-2025	2188385
Ion Balance								
Ion balance (cations/anions)	----	102	0.010	%	EC101/EO	-	29-Aug-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0058	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Arsenic, total	7440-38-2	0.00012	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Barium, total	7440-39-3	0.158	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Boron, total	7440-42-8	<0.010	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Calcium, total	7440-70-2	9.62	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Copper, total	7440-50-8	0.00106	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Iron, total	7439-89-6	0.025	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Magnesium, total	7439-95-4	5.91	0.0050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Manganese, total	7439-96-5	0.00693	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/EO	28-Aug-2025	28-Aug-2025	2188308
Nickel, total	7440-02-0	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Potassium, total	7440-09-7	0.425	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Selenium, total	7782-49-2	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Sodium, total	7440-23-5	0.882	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Uranium, total	7440-61-1	0.000751	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0024	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905

Analytical Results

EO2507632-004

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ5
Client sampling date / time: 21-Aug-2025 16:40

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Arsenic, dissolved	7440-38-2	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Barium, dissolved	7440-39-3	0.153	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Calcium, dissolved	7440-70-2	9.57	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Copper, dissolved	7440-50-8	0.00089	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Iron, dissolved	7439-89-6	0.011	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Magnesium, dissolved	7439-95-4	5.39	0.0050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Manganese, dissolved	7439-96-5	0.00039	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/EO	29-Aug-2025	29-Aug-2025	2190505
Molybdenum, dissolved	7439-98-7	0.000322	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Nickel, dissolved	7440-02-0	0.00064	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Potassium, dissolved	7440-09-7	0.425	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Rubidium, dissolved	7440-17-7	0.00089	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Silicon, dissolved	7440-21-3	0.749	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Sodium, dissolved	7440-23-5	0.895	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Strontium, dissolved	7440-24-6	0.166	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Uranium, dissolved	7440-61-1	0.000640	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Dissolved mercury filtration location	----	Field	-	-	EP509/EO	-	29-Aug-2025	2190505
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	29-Aug-2025	2189905
Radiological Parameters								
Radium-226	13982-63-3	see attached	0.005	Bq/L	Ra-226/2I	-	12-Sep-2025	-

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

EO2507632-005

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: WQ1
Client sampling date / time: 22-Aug-2025 07:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	53.9	1.2	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188550
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188550
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188550
Alkalinity, total (as CaCO3)	----	44.2	1.0	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188550
Conductivity	----	80.2	1.0	µS/cm	E100/EO	28-Aug-2025	29-Aug-2025	2188549
Hardness (as CaCO3), dissolved	----	41.9	0.50	mg/L	EC100/EO	-	30-Aug-2025	-
pH	----	7.85	0.10	pH units	E108/EO	28-Aug-2025	29-Aug-2025	2188548
Solids, total dissolved [TDS]	----	69	13	mg/L	E162/EO	-	30-Aug-2025	2188450
Solids, total dissolved [TDS], calculated	----	43.8	1.0	mg/L	EC103/EO	-	29-Aug-2025	-
Solids, total suspended [TSS]	----	<3.0	3.0	mg/L	E160/EO	-	29-Aug-2025	2189859
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	0.0151	0.0050	mg/L	E298/EO	29-Aug-2025	30-Aug-2025	2188688
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl/EO	28-Aug-2025	28-Aug-2025	2188389
Fluoride	16984-48-8	0.165	0.020	mg/L	E235.F/EO	28-Aug-2025	28-Aug-2025	2188388
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	28-Aug-2025	28-Aug-2025	2188386
Nitrate + Nitrite (as N)	----	<0.0224	0.0224	mg/L	EC235.N+N/EO	-	29-Aug-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	28-Aug-2025	28-Aug-2025	2188387
Phosphorus, total	7723-14-0	0.0121	0.0020	mg/L	E372-U/EO	03-Sep-2025	03-Sep-2025	2196466
Sulfate (as SO4)	14808-79-8	<0.30	0.30	mg/L	E235.SO4/EO	28-Aug-2025	28-Aug-2025	2188385
Ion Balance								
Ion balance (cations/anions)	----	102	0.010	%	EC101/EO	-	29-Aug-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0165	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Arsenic, total	7440-38-2	0.00019	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Barium, total	7440-39-3	0.128	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Boron, total	7440-42-8	<0.010	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Cadmium, total	7440-43-9	0.0000061	0.0000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Calcium, total	7440-70-2	8.87	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Copper, total	7440-50-8	0.00107	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Iron, total	7439-89-6	0.098	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Magnesium, total	7439-95-4	5.34	0.0050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Manganese, total	7439-96-5	0.00851	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/EO	28-Aug-2025	28-Aug-2025	2188308
Nickel, total	7440-02-0	0.00076	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Potassium, total	7440-09-7	0.553	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Selenium, total	7782-49-2	0.000060	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Sodium, total	7440-23-5	1.33	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Uranium, total	7440-61-1	0.000710	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0080	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905

Analytical Results

EO2507632-005

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ1
Client sampling date / time: 22-Aug-2025 07:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Arsenic, dissolved	7440-38-2	0.00018	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Barium, dissolved	7440-39-3	0.124	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Calcium, dissolved	7440-70-2	8.73	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Copper, dissolved	7440-50-8	0.00092	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Iron, dissolved	7439-89-6	0.054	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Lithium, dissolved	7439-93-2	0.0012	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Magnesium, dissolved	7439-95-4	4.89	0.0050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Manganese, dissolved	7439-96-5	0.00202	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/EO	29-Aug-2025	29-Aug-2025	2190505
Molybdenum, dissolved	7439-98-7	0.000164	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Nickel, dissolved	7440-02-0	0.00104	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Potassium, dissolved	7440-09-7	0.554	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Rubidium, dissolved	7440-17-7	0.00146	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Silicon, dissolved	7440-21-3	0.553	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Sodium, dissolved	7440-23-5	1.35	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Strontium, dissolved	7440-24-6	0.144	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Uranium, dissolved	7440-61-1	0.000583	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Zinc, dissolved	7440-66-6	0.0014	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Dissolved mercury filtration location	----	Field	-	-	EP509/EO	-	29-Aug-2025	2190505
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	29-Aug-2025	2189905
Radiological Parameters								
Radium-226	13982-63-3	see attached	0.005	Bq/L	Ra-226/2I	-	12-Sep-2025	-

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

EO2507632-006

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ2
Client sampling date / time: 22-Aug-2025 10:05

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	42.6	1.2	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188550
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188550
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188550
Alkalinity, total (as CaCO3)	----	34.9	1.0	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188550
Conductivity	----	64.8	1.0	µS/cm	E100/EO	28-Aug-2025	29-Aug-2025	2188549
Hardness (as CaCO3), dissolved	----	33.5	0.50	mg/L	EC100/EO	-	30-Aug-2025	-
pH	----	7.73	0.10	pH units	E108/EO	28-Aug-2025	29-Aug-2025	2188548
Solids, total dissolved [TDS]	----	47	13	mg/L	E162/EO	-	30-Aug-2025	2188450
Solids, total dissolved [TDS], calculated	----	35.9	1.0	mg/L	EC103/EO	-	29-Aug-2025	-
Solids, total suspended [TSS]	----	5.3	3.0	mg/L	E160/EO	-	29-Aug-2025	2189859
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	0.0307	0.0050	mg/L	E298/EO	29-Aug-2025	30-Aug-2025	2188688
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl/EO	28-Aug-2025	28-Aug-2025	2188389
Fluoride	16984-48-8	0.118	0.020	mg/L	E235.F/EO	28-Aug-2025	28-Aug-2025	2188388
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	28-Aug-2025	28-Aug-2025	2188386
Nitrate + Nitrite (as N)	----	<0.0224	0.0224	mg/L	EC235.N+N/EO	-	29-Aug-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	28-Aug-2025	28-Aug-2025	2188387
Phosphorus, total	7723-14-0	0.0119	0.0020	mg/L	E372-U/EO	03-Sep-2025	03-Sep-2025	2196466
Sulfate (as SO4)	14808-79-8	<0.30	0.30	mg/L	E235.SO4/EO	28-Aug-2025	28-Aug-2025	2188385
Ion Balance								
Ion balance (cations/anions)	----	104	0.010	%	EC101/EO	-	29-Aug-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0096	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Arsenic, total	7440-38-2	0.00013	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Barium, total	7440-39-3	0.100	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Boron, total	7440-42-8	<0.010	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Calcium, total	7440-70-2	7.73	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Copper, total	7440-50-8	0.00075	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Iron, total	7439-89-6	0.082	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Magnesium, total	7439-95-4	3.90	0.0050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Manganese, total	7439-96-5	0.0283	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/EO	28-Aug-2025	28-Aug-2025	2188308
Nickel, total	7440-02-0	0.00056	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Potassium, total	7440-09-7	0.465	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Selenium, total	7782-49-2	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Sodium, total	7440-23-5	0.996	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Uranium, total	7440-61-1	0.000275	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0026	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905

Analytical Results

EO2507632-006

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ2
Client sampling date / time: 22-Aug-2025 10:05

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Arsenic, dissolved	7440-38-2	0.00012	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Barium, dissolved	7440-39-3	0.0947	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Calcium, dissolved	7440-70-2	7.48	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Copper, dissolved	7440-50-8	0.00062	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Iron, dissolved	7439-89-6	0.036	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Magnesium, dissolved	7439-95-4	3.61	0.0050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Manganese, dissolved	7439-96-5	0.00509	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/EO	29-Aug-2025	29-Aug-2025	2190505
Molybdenum, dissolved	7439-98-7	0.000220	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Nickel, dissolved	7440-02-0	0.00090	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Potassium, dissolved	7440-09-7	0.452	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Rubidium, dissolved	7440-17-7	0.00100	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Silicon, dissolved	7440-21-3	0.821	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Sodium, dissolved	7440-23-5	0.996	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Strontium, dissolved	7440-24-6	0.0898	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Uranium, dissolved	7440-61-1	0.000223	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Zinc, dissolved	7440-66-6	0.0012	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Dissolved mercury filtration location	----	Field	-	-	EP509/EO	-	29-Aug-2025	2190505
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	29-Aug-2025	2189905
Radiological Parameters								
Radium-226	13982-63-3	see attached	0.005	Bq/L	Ra-226/2I	-	12-Sep-2025	-

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

EO2507632-007

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ4
Client sampling date / time: 22-Aug-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	30.4	1.2	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, total (as CaCO3)	----	24.9	1.0	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Conductivity	----	47.7	1.0	µS/cm	E100/EO	28-Aug-2025	29-Aug-2025	2188584
Hardness (as CaCO3), dissolved	----	23.8	0.50	mg/L	EC100/EO	-	30-Aug-2025	-
pH	----	7.71	0.10	pH units	E108/EO	28-Aug-2025	29-Aug-2025	2188583
Solids, total dissolved [TDS]	----	35	13	mg/L	E162/EO	-	30-Aug-2025	2188450
Solids, total dissolved [TDS], calculated	----	25.0	1.0	mg/L	EC103/EO	-	29-Aug-2025	-
Solids, total suspended [TSS]	----	<3.0	3.0	mg/L	E160/EO	-	29-Aug-2025	2189859
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	0.0162	0.0050	mg/L	E298/EO	29-Aug-2025	30-Aug-2025	2188688
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl/EO	28-Aug-2025	28-Aug-2025	2188389
Fluoride	16984-48-8	0.108	0.020	mg/L	E235.F/EO	28-Aug-2025	28-Aug-2025	2188388
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	28-Aug-2025	28-Aug-2025	2188386
Nitrate + Nitrite (as N)	----	<0.0224	0.0224	mg/L	EC235.N+N/EO	-	29-Aug-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	28-Aug-2025	28-Aug-2025	2188387
Phosphorus, total	7723-14-0	0.0122	0.0020	mg/L	E372-U/EO	03-Sep-2025	03-Sep-2025	2196466
Sulfate (as SO4)	14808-79-8	<0.30	0.30	mg/L	E235.SO4/EO	28-Aug-2025	28-Aug-2025	2188385
Ion Balance								
Ion balance (cations/anions)	----	104	0.010	%	EC101/EO	-	29-Aug-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0149	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Arsenic, total	7440-38-2	0.00011	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Barium, total	7440-39-3	0.0679	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Boron, total	7440-42-8	<0.010	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Calcium, total	7440-70-2	5.52	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Copper, total	7440-50-8	0.00067	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Iron, total	7439-89-6	0.095	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Magnesium, total	7439-95-4	2.74	0.0050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Manganese, total	7439-96-5	0.00982	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/EO	28-Aug-2025	28-Aug-2025	2188309
Nickel, total	7440-02-0	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Potassium, total	7440-09-7	0.406	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Selenium, total	7782-49-2	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Sodium, total	7440-23-5	0.718	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Uranium, total	7440-61-1	0.000127	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0055	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905

Analytical Results

EO2507632-007

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ4
Client sampling date / time: 22-Aug-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Arsenic, dissolved	7440-38-2	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Barium, dissolved	7440-39-3	0.0671	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Calcium, dissolved	7440-70-2	5.34	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Copper, dissolved	7440-50-8	0.00051	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Iron, dissolved	7439-89-6	0.045	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Magnesium, dissolved	7439-95-4	2.53	0.0050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Manganese, dissolved	7439-96-5	0.00209	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/EO	29-Aug-2025	29-Aug-2025	2190505
Molybdenum, dissolved	7439-98-7	0.000131	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Nickel, dissolved	7440-02-0	0.00053	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Potassium, dissolved	7440-09-7	0.402	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Rubidium, dissolved	7440-17-7	0.00100	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Silicon, dissolved	7440-21-3	0.323	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Sodium, dissolved	7440-23-5	0.704	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Strontium, dissolved	7440-24-6	0.0642	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Uranium, dissolved	7440-61-1	0.000102	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Zinc, dissolved	7440-66-6	0.0010	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Dissolved mercury filtration location	----	Field	-	-	EP509/EO	-	29-Aug-2025	2190505
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	29-Aug-2025	2189905
Radiological Parameters								
Radium-226	13982-63-3	see attached	0.005	Bq/L	Ra-226/2I	-	12-Sep-2025	-

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

EO2507632-008

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: WQ10
Client sampling date / time: 22-Aug-2025 13:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	37.1	1.2	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, total (as CaCO3)	----	30.4	1.0	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Conductivity	----	56.7	1.0	µS/cm	E100/EO	28-Aug-2025	29-Aug-2025	2188584
Hardness (as CaCO3), dissolved	----	29.7	0.50	mg/L	EC100/EO	-	30-Aug-2025	-
pH	----	7.78	0.10	pH units	E108/EO	28-Aug-2025	29-Aug-2025	2188583
Solids, total dissolved [TDS]	----	47	13	mg/L	E162/EO	-	30-Aug-2025	2188450
Solids, total dissolved [TDS], calculated	----	30.2	1.0	mg/L	EC103/EO	-	29-Aug-2025	-
Solids, total suspended [TSS]	----	<3.0	3.0	mg/L	E160/EO	-	29-Aug-2025	2189859
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	0.0153	0.0050	mg/L	E298/EO	29-Aug-2025	30-Aug-2025	2188688
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl/EO	28-Aug-2025	28-Aug-2025	2188389
Fluoride	16984-48-8	0.116	0.020	mg/L	E235.F/EO	28-Aug-2025	28-Aug-2025	2188388
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	28-Aug-2025	28-Aug-2025	2188386
Nitrate + Nitrite (as N)	----	<0.0224	0.0224	mg/L	EC235.N+N/EO	-	29-Aug-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	28-Aug-2025	28-Aug-2025	2188387
Phosphorus, total	7723-14-0	0.0120	0.0020	mg/L	E372-U/EO	03-Sep-2025	03-Sep-2025	2196466
Sulfate (as SO4)	14808-79-8	<0.30	0.30	mg/L	E235.SO4/EO	28-Aug-2025	28-Aug-2025	2188385
Ion Balance								
Ion balance (cations/anions)	----	105	0.010	%	EC101/EO	-	29-Aug-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0132	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Arsenic, total	7440-38-2	0.00010	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Barium, total	7440-39-3	0.0836	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Boron, total	7440-42-8	<0.010	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Calcium, total	7440-70-2	6.49	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Copper, total	7440-50-8	0.00073	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Iron, total	7439-89-6	0.068	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Magnesium, total	7439-95-4	3.30	0.0050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Manganese, total	7439-96-5	0.00735	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/EO	28-Aug-2025	28-Aug-2025	2188309
Nickel, total	7440-02-0	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Potassium, total	7440-09-7	0.348	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Selenium, total	7782-49-2	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Sodium, total	7440-23-5	0.827	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Uranium, total	7440-61-1	0.000183	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0047	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905

Analytical Results

EO2507632-008

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ10
Client sampling date / time: 22-Aug-2025 13:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Arsenic, dissolved	7440-38-2	0.00011	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Barium, dissolved	7440-39-3	0.0828	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Calcium, dissolved	7440-70-2	6.53	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Copper, dissolved	7440-50-8	0.00060	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Iron, dissolved	7439-89-6	0.035	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Magnesium, dissolved	7439-95-4	3.26	0.0050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Manganese, dissolved	7439-96-5	0.00090	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/EO	29-Aug-2025	29-Aug-2025	2190505
Molybdenum, dissolved	7439-98-7	0.000147	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Nickel, dissolved	7440-02-0	0.00052	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Potassium, dissolved	7440-09-7	0.360	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Rubidium, dissolved	7440-17-7	0.00100	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Silicon, dissolved	7440-21-3	0.308	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Sodium, dissolved	7440-23-5	0.850	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Strontium, dissolved	7440-24-6	0.0797	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Uranium, dissolved	7440-61-1	0.000161	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Dissolved mercury filtration location	----	Field	-	-	EP509/EO	-	29-Aug-2025	2190505
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	29-Aug-2025	2189905
Radiological Parameters								
Radium-226	13982-63-3	see attached	0.005	Bq/L	Ra-226/2I	-	12-Sep-2025	-

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

EO2507632-009

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: WQ9

Client sampling date / time: 22-Aug-2025 14:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	44.5	1.2	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, total (as CaCO3)	----	36.5	1.0	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Conductivity	----	68.3	1.0	µS/cm	E100/EO	28-Aug-2025	29-Aug-2025	2188584
Hardness (as CaCO3), dissolved	----	35.4	0.50	mg/L	EC100/EO	-	30-Aug-2025	-
pH	----	7.91	0.10	pH units	E108/EO	28-Aug-2025	29-Aug-2025	2188583
Solids, total dissolved [TDS]	----	56	13	mg/L	E162/EO	-	30-Aug-2025	2188450
Solids, total dissolved [TDS], calculated	----	36.7	1.0	mg/L	EC103/EO	-	29-Aug-2025	-
Solids, total suspended [TSS]	----	<3.0	3.0	mg/L	E160/EO	-	29-Aug-2025	2189859
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	0.0314	0.0050	mg/L	E298/EO	29-Aug-2025	30-Aug-2025	2188688
Chloride	16887-00-6	0.52	0.50	mg/L	E235.Cl/EO	28-Aug-2025	28-Aug-2025	2188389
Fluoride	16984-48-8	0.134	0.020	mg/L	E235.F/EO	28-Aug-2025	28-Aug-2025	2188388
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	28-Aug-2025	28-Aug-2025	2188386
Nitrate + Nitrite (as N)	----	<0.0224	0.0224	mg/L	EC235.N+N/EO	-	29-Aug-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	28-Aug-2025	28-Aug-2025	2188387
Phosphorus, total	7723-14-0	0.0236	0.0020	mg/L	E372-U/EO	03-Sep-2025	03-Sep-2025	2196466
Sulfate (as SO4)	14808-79-8	<0.30	0.30	mg/L	E235.SO4/EO	28-Aug-2025	28-Aug-2025	2188385
Ion Balance								
Ion balance (cations/anions)	----	101	0.010	%	EC101/EO	-	29-Aug-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0678	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Arsenic, total	7440-38-2	0.00015	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Barium, total	7440-39-3	0.100	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Boron, total	7440-42-8	<0.010	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Calcium, total	7440-70-2	8.01	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Copper, total	7440-50-8	0.00088	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Iron, total	7439-89-6	0.093	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Lead, total	7439-92-1	0.000061	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Magnesium, total	7439-95-4	4.01	0.0050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Manganese, total	7439-96-5	0.00536	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/EO	28-Aug-2025	28-Aug-2025	2188309
Nickel, total	7440-02-0	0.00074	0.00050	mg/L	E420/EO	29-Aug-2025	30-Aug-2025	2189856
Potassium, total	7440-09-7	0.357	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Selenium, total	7782-49-2	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Sodium, total	7440-23-5	0.987	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Uranium, total	7440-61-1	0.000229	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0104	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905

Analytical Results

EO2507632-009

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ9
Client sampling date / time: 22-Aug-2025 14:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Arsenic, dissolved	7440-38-2	0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Barium, dissolved	7440-39-3	0.0997	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Calcium, dissolved	7440-70-2	7.81	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Copper, dissolved	7440-50-8	0.00064	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Iron, dissolved	7439-89-6	0.033	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Magnesium, dissolved	7439-95-4	3.86	0.0050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Manganese, dissolved	7439-96-5	0.00170	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/EO	29-Aug-2025	29-Aug-2025	2190505
Molybdenum, dissolved	7439-98-7	0.000162	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	30-Aug-2025	2189905
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Potassium, dissolved	7440-09-7	0.329	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Rubidium, dissolved	7440-17-7	0.00094	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Silicon, dissolved	7440-21-3	0.394	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Sodium, dissolved	7440-23-5	0.988	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Strontium, dissolved	7440-24-6	0.0972	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Uranium, dissolved	7440-61-1	0.000201	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Dissolved mercury filtration location	----	Field	-	-	EP509/EO	-	29-Aug-2025	2190505
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	29-Aug-2025	2189905
Radiological Parameters								
Radium-226	13982-63-3	see attached	0.005	Bq/L	Ra-226/2I	-	12-Sep-2025	-

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

EO2507632-010

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ8
Client sampling date / time: 23-Aug-2025 08:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	64.7	1.2	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, total (as CaCO3)	----	53.0	1.0	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Conductivity	----	98.0	1.0	µS/cm	E100/EO	28-Aug-2025	29-Aug-2025	2188584
Hardness (as CaCO3), dissolved	----	52.4	0.50	mg/L	EC100/EO	-	30-Aug-2025	-
pH	----	8.05	0.10	pH units	E108/EO	28-Aug-2025	29-Aug-2025	2188583
Solids, total dissolved [TDS]	----	62	13	mg/L	E162/EO	-	30-Aug-2025	2188450
Solids, total dissolved [TDS], calculated	----	54.6	1.0	mg/L	EC103/EO	-	29-Aug-2025	-
Solids, total suspended [TSS]	----	<3.0	3.0	mg/L	E160/EO	-	29-Aug-2025	2189859
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	0.0106	0.0050	mg/L	E298/EO	29-Aug-2025	30-Aug-2025	2188688
Chloride	16887-00-6	0.56	0.50	mg/L	E235.Cl/EO	28-Aug-2025	28-Aug-2025	2188389
Fluoride	16984-48-8	0.150	0.020	mg/L	E235.F/EO	28-Aug-2025	28-Aug-2025	2188388
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	28-Aug-2025	28-Aug-2025	2188386
Nitrate + Nitrite (as N)	----	<0.0224	0.0224	mg/L	EC235.N+N/EO	-	29-Aug-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	28-Aug-2025	28-Aug-2025	2188387
Phosphorus, total	7723-14-0	0.0065	0.0020	mg/L	E372-U/EO	03-Sep-2025	03-Sep-2025	2196466
Sulfate (as SO4)	14808-79-8	<0.30	0.30	mg/L	E235.SO4/EO	28-Aug-2025	28-Aug-2025	2188385
Ion Balance								
Ion balance (cations/anions)	----	104	0.010	%	EC101/EO	-	29-Aug-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0082	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Arsenic, total	7440-38-2	<0.00010	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Barium, total	7440-39-3	0.150	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Boron, total	7440-42-8	<0.010	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Calcium, total	7440-70-2	11.8	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Copper, total	7440-50-8	0.00086	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Iron, total	7439-89-6	0.056	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Magnesium, total	7439-95-4	5.73	0.0050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Manganese, total	7439-96-5	0.00397	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/EO	28-Aug-2025	28-Aug-2025	2188309
Nickel, total	7440-02-0	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Potassium, total	7440-09-7	0.453	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Selenium, total	7782-49-2	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Sodium, total	7440-23-5	1.29	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Uranium, total	7440-61-1	0.000262	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0042	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905

Analytical Results

EO2507632-010

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ8
Client sampling date / time: 23-Aug-2025 08:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Arsenic, dissolved	7440-38-2	0.00011	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Barium, dissolved	7440-39-3	0.144	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Calcium, dissolved	7440-70-2	11.8	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Copper, dissolved	7440-50-8	0.00064	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Iron, dissolved	7439-89-6	0.034	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Magnesium, dissolved	7439-95-4	5.58	0.0050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Manganese, dissolved	7439-96-5	0.00054	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/EO	29-Aug-2025	29-Aug-2025	2190505
Molybdenum, dissolved	7439-98-7	0.000200	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Nickel, dissolved	7440-02-0	0.00062	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Potassium, dissolved	7440-09-7	0.457	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Rubidium, dissolved	7440-17-7	0.00126	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Silicon, dissolved	7440-21-3	1.06	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Sodium, dissolved	7440-23-5	1.32	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Strontium, dissolved	7440-24-6	0.142	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Uranium, dissolved	7440-61-1	0.000232	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Zinc, dissolved	7440-66-6	0.0012	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Dissolved mercury filtration location	----	Field	-	-	EP509/EO	-	29-Aug-2025	2190505
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	29-Aug-2025	2189905
Radiological Parameters								
Radium-226	13982-63-3	see attached	0.005	Bq/L	Ra-226/2I	-	12-Sep-2025	-

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

EO2507632-011

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: S1

Client sampling date / time: 23-Aug-2025 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	29.5	1.2	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, total (as CaCO3)	----	24.2	1.0	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Conductivity	----	46.5	1.0	µS/cm	E100/EO	28-Aug-2025	29-Aug-2025	2188584
Hardness (as CaCO3), dissolved	----	23.2	0.50	mg/L	EC100/EO	-	30-Aug-2025	-
pH	----	7.67	0.10	pH units	E108/EO	28-Aug-2025	29-Aug-2025	2188583
Solids, total dissolved [TDS]	----	43	13	mg/L	E162/EO	-	30-Aug-2025	2188450
Solids, total dissolved [TDS], calculated	----	24.1	1.0	mg/L	EC103/EO	-	29-Aug-2025	-
Solids, total suspended [TSS]	----	<3.0	3.0	mg/L	E160/EO	-	29-Aug-2025	2189859
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	0.0289	0.0050	mg/L	E298/EO	29-Aug-2025	30-Aug-2025	2188688
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl/EO	28-Aug-2025	28-Aug-2025	2188389
Fluoride	16984-48-8	0.136	0.020	mg/L	E235.F/EO	28-Aug-2025	28-Aug-2025	2188388
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	28-Aug-2025	28-Aug-2025	2188386
Nitrate + Nitrite (as N)	----	<0.0224	0.0224	mg/L	EC235.N+N/EO	-	29-Aug-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	28-Aug-2025	28-Aug-2025	2188387
Phosphorus, total	7723-14-0	0.0126	0.0020	mg/L	E372-U/EO	03-Sep-2025	03-Sep-2025	2196466
Sulfate (as SO4)	14808-79-8	<0.30	0.30	mg/L	E235.SO4/EO	28-Aug-2025	28-Aug-2025	2188385
Ion Balance								
Ion balance (cations/anions)	----	106	0.010	%	EC101/EO	-	29-Aug-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0210	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Arsenic, total	7440-38-2	0.00016	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Barium, total	7440-39-3	0.0544	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Boron, total	7440-42-8	<0.010	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Calcium, total	7440-70-2	5.25	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Copper, total	7440-50-8	0.00094	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Iron, total	7439-89-6	0.079	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Magnesium, total	7439-95-4	2.63	0.0050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Manganese, total	7439-96-5	0.0172	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/EO	28-Aug-2025	28-Aug-2025	2188309
Nickel, total	7440-02-0	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Potassium, total	7440-09-7	0.514	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Selenium, total	7782-49-2	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Sodium, total	7440-23-5	0.931	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Uranium, total	7440-61-1	0.000136	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0122	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905

Analytical Results

EO2507632-011

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: S1
Client sampling date / time: 23-Aug-2025 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Arsenic, dissolved	7440-38-2	0.00014	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Barium, dissolved	7440-39-3	0.0546	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Calcium, dissolved	7440-70-2	5.13	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Copper, dissolved	7440-50-8	0.00078	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Iron, dissolved	7439-89-6	0.036	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Magnesium, dissolved	7439-95-4	2.53	0.0050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Manganese, dissolved	7439-96-5	0.00752	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/EO	29-Aug-2025	29-Aug-2025	2190505
Molybdenum, dissolved	7439-98-7	0.000108	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Nickel, dissolved	7440-02-0	0.00058	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Potassium, dissolved	7440-09-7	0.493	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Rubidium, dissolved	7440-17-7	0.00165	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Silicon, dissolved	7440-21-3	0.117	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Sodium, dissolved	7440-23-5	0.921	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Strontium, dissolved	7440-24-6	0.0664	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Uranium, dissolved	7440-61-1	0.000116	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189905
Dissolved mercury filtration location	----	Field	-	-	EP509/EO	-	29-Aug-2025	2190505
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	29-Aug-2025	2189905
Radiological Parameters								
Radium-226	13982-63-3	see attached	0.005	Bq/L	Ra-226/2I	-	12-Sep-2025	-

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

EO2507632-012

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ16
Client sampling date / time: 23-Aug-2025 11:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	14.5	1.2	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, total (as CaCO3)	----	11.9	1.0	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Conductivity	----	27.9	1.0	µS/cm	E100/EO	28-Aug-2025	29-Aug-2025	2188584
Hardness (as CaCO3), dissolved	----	13.4	0.50	mg/L	EC100/EO	-	30-Aug-2025	-
pH	----	7.44	0.10	pH units	E108/EO	28-Aug-2025	29-Aug-2025	2188583
Solids, total dissolved [TDS]	----	26	13	mg/L	E162/EO	-	30-Aug-2025	2188450
Solids, total dissolved [TDS], calculated	----	14.0	1.0	mg/L	EC103/EO	-	29-Aug-2025	-
Solids, total suspended [TSS]	----	<3.0	3.0	mg/L	E160/EO	-	29-Aug-2025	2189859
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	0.0098	0.0050	mg/L	E298/EO	29-Aug-2025	30-Aug-2025	2188688
Chloride	16887-00-6	0.60	0.50	mg/L	E235.Cl/EO	28-Aug-2025	28-Aug-2025	2188389
Fluoride	16984-48-8	0.104	0.020	mg/L	E235.F/EO	28-Aug-2025	28-Aug-2025	2188388
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	28-Aug-2025	28-Aug-2025	2188386
Nitrate + Nitrite (as N)	----	<0.0224	0.0224	mg/L	EC235.N+N/EO	-	29-Aug-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	28-Aug-2025	28-Aug-2025	2188387
Phosphorus, total	7723-14-0	0.0082	0.0020	mg/L	E372-U/EO	03-Sep-2025	03-Sep-2025	2196466
Sulfate (as SO4)	14808-79-8	0.32	0.30	mg/L	E235.SO4/EO	28-Aug-2025	28-Aug-2025	2188385
Ion Balance								
Ion balance (cations/anions)	----	115 IB:INT,	0.010	%	EC101/EO	-	29-Aug-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0120	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Arsenic, total	7440-38-2	0.00014	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Barium, total	7440-39-3	0.0164	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Boron, total	7440-42-8	<0.010	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Calcium, total	7440-70-2	3.22	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Copper, total	7440-50-8	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Iron, total	7439-89-6	0.058	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Magnesium, total	7439-95-4	1.23	0.0050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Manganese, total	7439-96-5	0.0126	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/EO	28-Aug-2025	28-Aug-2025	2188309
Nickel, total	7440-02-0	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Potassium, total	7440-09-7	0.458	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Selenium, total	7782-49-2	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Sodium, total	7440-23-5	0.617	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Uranium, total	7440-61-1	0.000066	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0055	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906

Analytical Results

EO2507632-012

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ16
Client sampling date / time: 23-Aug-2025 11:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Arsenic, dissolved	7440-38-2	0.00011	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Barium, dissolved	7440-39-3	0.0174	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Calcium, dissolved	7440-70-2	3.30	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Copper, dissolved	7440-50-8	0.00037	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Iron, dissolved	7439-89-6	0.032	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Magnesium, dissolved	7439-95-4	1.25	0.0050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Manganese, dissolved	7439-96-5	0.00399	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/EO	29-Aug-2025	29-Aug-2025	2190505
Molybdenum, dissolved	7439-98-7	0.000078	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Potassium, dissolved	7440-09-7	0.474	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Rubidium, dissolved	7440-17-7	0.00128	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Silicon, dissolved	7440-21-3	0.060	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Sodium, dissolved	7440-23-5	0.637	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Strontium, dissolved	7440-24-6	0.0237	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Uranium, dissolved	7440-61-1	0.000060	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Zinc, dissolved	7440-66-6	0.0010	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Dissolved mercury filtration location	----	Field	-	-	EP509/EO	-	29-Aug-2025	2190505
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	29-Aug-2025	2189906
Radiological Parameters								
Radium-226	13982-63-3	see attached	0.005	Bq/L	Ra-226/2I	-	12-Sep-2025	-

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

EO2507632-013

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ15
Client sampling date / time: 23-Aug-2025 12:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	31.8	1.2	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, total (as CaCO3)	----	26.1	1.0	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Conductivity	----	50.1	1.0	µS/cm	E100/EO	28-Aug-2025	29-Aug-2025	2188584
Hardness (as CaCO3), dissolved	----	24.4	0.50	mg/L	EC100/EO	-	30-Aug-2025	-
pH	----	7.77	0.10	pH units	E108/EO	28-Aug-2025	29-Aug-2025	2188583
Solids, total dissolved [TDS]	----	45	10	mg/L	E162/EO	-	02-Sep-2025	2189862
Solids, total dissolved [TDS], calculated	----	26.2	1.0	mg/L	EC103/EO	-	29-Aug-2025	-
Solids, total suspended [TSS]	----	<3.0	3.0	mg/L	E160/EO	-	29-Aug-2025	2189859
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	0.0121	0.0050	mg/L	E298/EO	29-Aug-2025	30-Aug-2025	2188688
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl/EO	28-Aug-2025	28-Aug-2025	2188389
Fluoride	16984-48-8	0.138	0.020	mg/L	E235.F/EO	28-Aug-2025	28-Aug-2025	2188388
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	28-Aug-2025	28-Aug-2025	2188386
Nitrate + Nitrite (as N)	----	<0.0224	0.0224	mg/L	EC235.N+N/EO	-	29-Aug-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	28-Aug-2025	28-Aug-2025	2188387
Phosphorus, total	7723-14-0	0.0078	0.0020	mg/L	E372-U/EO	03-Sep-2025	03-Sep-2025	2196466
Sulfate (as SO4)	14808-79-8	<0.30	0.30	mg/L	E235.SO4/EO	28-Aug-2025	28-Aug-2025	2188385
Ion Balance								
Ion balance (cations/anions)	----	104	0.010	%	EC101/EO	-	29-Aug-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0182	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Arsenic, total	7440-38-2	0.00015	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Barium, total	7440-39-3	0.0599	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Boron, total	7440-42-8	<0.010	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Calcium, total	7440-70-2	5.67	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Copper, total	7440-50-8	0.00093	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Iron, total	7439-89-6	0.068	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Magnesium, total	7439-95-4	2.68	0.0050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Manganese, total	7439-96-5	0.0108	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/EO	28-Aug-2025	28-Aug-2025	2188309
Nickel, total	7440-02-0	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Potassium, total	7440-09-7	0.602	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Selenium, total	7782-49-2	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Sodium, total	7440-23-5	1.01	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Uranium, total	7440-61-1	0.000131	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Zinc, total	7440-66-6	0.0031	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0097	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906

Analytical Results

EO2507632-013

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ15
Client sampling date / time: 23-Aug-2025 12:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Arsenic, dissolved	7440-38-2	0.00015	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Barium, dissolved	7440-39-3	0.0594	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Calcium, dissolved	7440-70-2	5.48	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Copper, dissolved	7440-50-8	0.00075	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Iron, dissolved	7439-89-6	0.029	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Lithium, dissolved	7439-93-2	0.0011	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Magnesium, dissolved	7439-95-4	2.61	0.0050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Manganese, dissolved	7439-96-5	0.00260	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/EO	29-Aug-2025	29-Aug-2025	2190505
Molybdenum, dissolved	7439-98-7	0.000140	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Nickel, dissolved	7440-02-0	0.00060	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Potassium, dissolved	7440-09-7	0.579	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Rubidium, dissolved	7440-17-7	0.00197	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Silicon, dissolved	7440-21-3	0.256	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Sodium, dissolved	7440-23-5	1.02	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Strontium, dissolved	7440-24-6	0.0718	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Uranium, dissolved	7440-61-1	0.000112	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Dissolved mercury filtration location	----	Field	-	-	EP509/EO	-	29-Aug-2025	2190505
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	29-Aug-2025	2189906
Radiological Parameters								
Radium-226	13982-63-3	see attached	0.005	Bq/L	Ra-226/2I	-	12-Sep-2025	-

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

EO2507632-014

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: WQ17

Client sampling date / time: 23-Aug-2025 15:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	12.7	1.2	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, total (as CaCO3)	----	10.4	1.0	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Conductivity	----	25.1	1.0	µS/cm	E100/EO	28-Aug-2025	29-Aug-2025	2188584
Hardness (as CaCO3), dissolved	----	11.4	0.50	mg/L	EC100/EO	-	30-Aug-2025	-
pH	----	7.38	0.10	pH units	E108/EO	28-Aug-2025	29-Aug-2025	2188583
Solids, total dissolved [TDS]	----	34	10	mg/L	E162/EO	-	02-Sep-2025	2189862
Solids, total dissolved [TDS], calculated	----	11.9	1.0	mg/L	EC103/EO	-	29-Aug-2025	-
Solids, total suspended [TSS]	----	<3.0	3.0	mg/L	E160/EO	-	29-Aug-2025	2190434
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	0.0194	0.0050	mg/L	E298/EO	29-Aug-2025	30-Aug-2025	2188688
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl/EO	28-Aug-2025	28-Aug-2025	2188389
Fluoride	16984-48-8	0.107	0.020	mg/L	E235.F/EO	28-Aug-2025	28-Aug-2025	2188388
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	28-Aug-2025	28-Aug-2025	2188386
Nitrate + Nitrite (as N)	----	<0.0224	0.0224	mg/L	EC235.N+N/EO	-	29-Aug-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	28-Aug-2025	28-Aug-2025	2188387
Phosphorus, total	7723-14-0	0.0046	0.0020	mg/L	E372-U/EO	03-Sep-2025	03-Sep-2025	2196466
Sulfate (as SO4)	14808-79-8	0.33	0.30	mg/L	E235.SO4/EO	28-Aug-2025	28-Aug-2025	2188385
Ion Balance								
Ion balance (cations/anions)	----	123 IB:INT,	0.010	%	EC101/EO	-	29-Aug-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0077	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Arsenic, total	7440-38-2	0.00012	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Barium, total	7440-39-3	0.0110	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Boron, total	7440-42-8	<0.010	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Calcium, total	7440-70-2	2.96	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Copper, total	7440-50-8	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Iron, total	7439-89-6	0.032	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Magnesium, total	7439-95-4	1.05	0.0050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Manganese, total	7439-96-5	0.0101	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/EO	28-Aug-2025	28-Aug-2025	2188309
Nickel, total	7440-02-0	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Potassium, total	7440-09-7	0.462	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Selenium, total	7782-49-2	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Sodium, total	7440-23-5	0.577	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Uranium, total	7440-61-1	0.000056	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Zinc, total	7440-66-6	0.0034	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189856
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0070	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906

Analytical Results

EO2507632-014

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ17
Client sampling date / time: 23-Aug-2025 15:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Arsenic, dissolved	7440-38-2	0.00013	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Barium, dissolved	7440-39-3	0.0114	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Calcium, dissolved	7440-70-2	2.84	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Copper, dissolved	7440-50-8	0.00033	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Iron, dissolved	7439-89-6	0.048	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Magnesium, dissolved	7439-95-4	1.05	0.0050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Manganese, dissolved	7439-96-5	0.0136	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/EO	29-Aug-2025	29-Aug-2025	2190505
Molybdenum, dissolved	7439-98-7	0.000090	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Potassium, dissolved	7440-09-7	0.450	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Rubidium, dissolved	7440-17-7	0.00135	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Silicon, dissolved	7440-21-3	0.070	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Sodium, dissolved	7440-23-5	0.619	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Strontium, dissolved	7440-24-6	0.0169	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Uranium, dissolved	7440-61-1	0.000056	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Dissolved mercury filtration location	----	Field	-	-	EP509/EO	-	29-Aug-2025	2190505
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	29-Aug-2025	2189906
Radiological Parameters								
Radium-226	13982-63-3	see attached	0.005	Bq/L	Ra-226/2I	-	12-Sep-2025	-

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

EO2507632-015

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ3
Client sampling date / time: 24-Aug-2025 08:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	38.8	1.2	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, total (as CaCO3)	----	31.8	1.0	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Conductivity	----	59.6	1.0	µS/cm	E100/EO	28-Aug-2025	29-Aug-2025	2188584
Hardness (as CaCO3), dissolved	----	31.2	0.50	mg/L	EC100/EO	-	30-Aug-2025	-
pH	----	7.79	0.10	pH units	E108/EO	28-Aug-2025	29-Aug-2025	2188583
Solids, total dissolved [TDS]	----	68	13	mg/L	E162/EO	-	02-Sep-2025	2189862
Solids, total dissolved [TDS], calculated	----	32.0	1.0	mg/L	EC103/EO	-	29-Aug-2025	-
Solids, total suspended [TSS]	----	<3.0	3.0	mg/L	E160/EO	-	29-Aug-2025	2190434
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	0.0098	0.0050	mg/L	E298/EO	29-Aug-2025	30-Aug-2025	2188688
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl/EO	28-Aug-2025	28-Aug-2025	2188389
Fluoride	16984-48-8	0.105	0.020	mg/L	E235.F/EO	28-Aug-2025	28-Aug-2025	2188388
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	28-Aug-2025	28-Aug-2025	2188386
Nitrate + Nitrite (as N)	----	<0.0224	0.0224	mg/L	EC235.N+N/EO	-	29-Aug-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	28-Aug-2025	28-Aug-2025	2188387
Phosphorus, total	7723-14-0	0.0106	0.0020	mg/L	E372-U/EO	03-Sep-2025	03-Sep-2025	2196466
Sulfate (as SO4)	14808-79-8	<0.30	0.30	mg/L	E235.SO4/EO	28-Aug-2025	28-Aug-2025	2188385
Ion Balance								
Ion balance (cations/anions)	----	106	0.010	%	EC101/EO	-	29-Aug-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0160	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Arsenic, total	7440-38-2	0.00017	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Barium, total	7440-39-3	0.0860	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Boron, total	7440-42-8	<0.010	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Calcium, total	7440-70-2	6.99	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Copper, total	7440-50-8	0.00094	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Iron, total	7439-89-6	0.090	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Magnesium, total	7439-95-4	3.49	0.0050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Manganese, total	7439-96-5	0.0172	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/EO	28-Aug-2025	28-Aug-2025	2188309
Nickel, total	7440-02-0	0.00057	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Potassium, total	7440-09-7	0.533	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Selenium, total	7782-49-2	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Sodium, total	7440-23-5	0.971	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Uranium, total	7440-61-1	0.000229	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Zinc, total	7440-66-6	0.0040	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0078	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906

Analytical Results

EO2507632-015

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ3
Client sampling date / time: 24-Aug-2025 08:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Arsenic, dissolved	7440-38-2	0.00018	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Barium, dissolved	7440-39-3	0.0836	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Calcium, dissolved	7440-70-2	6.74	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Copper, dissolved	7440-50-8	0.00074	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Iron, dissolved	7439-89-6	0.032	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Magnesium, dissolved	7439-95-4	3.50	0.0050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Manganese, dissolved	7439-96-5	0.00067	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/EO	29-Aug-2025	29-Aug-2025	2190505
Molybdenum, dissolved	7439-98-7	0.000231	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Nickel, dissolved	7440-02-0	0.00078	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Potassium, dissolved	7440-09-7	0.498	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Rubidium, dissolved	7440-17-7	0.00117	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Silicon, dissolved	7440-21-3	0.352	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Sodium, dissolved	7440-23-5	1.02	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Strontium, dissolved	7440-24-6	0.0815	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Uranium, dissolved	7440-61-1	0.000196	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Zinc, dissolved	7440-66-6	0.0011	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Dissolved mercury filtration location	----	Field	-	-	EP509/EO	-	29-Aug-2025	2190505
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	29-Aug-2025	2189906
Radiological Parameters								
Radium-226	13982-63-3	see attached	0.005	Bq/L	Ra-226/2I	-	12-Sep-2025	-

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

EO2507632-016

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ19
Client sampling date / time: 24-Aug-2025 09:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	28.8	1.2	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, total (as CaCO3)	----	23.6	1.0	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Conductivity	----	46.3	1.0	µS/cm	E100/EO	28-Aug-2025	29-Aug-2025	2188584
Hardness (as CaCO3), dissolved	----	22.8	0.50	mg/L	EC100/EO	-	30-Aug-2025	-
pH	----	7.61	0.10	pH units	E108/EO	28-Aug-2025	29-Aug-2025	2188583
Solids, total dissolved [TDS]	----	46	10	mg/L	E162/EO	-	02-Sep-2025	2189862
Solids, total dissolved [TDS], calculated	----	23.9	1.0	mg/L	EC103/EO	-	29-Aug-2025	-
Solids, total suspended [TSS]	----	<3.0	3.0	mg/L	E160/EO	-	29-Aug-2025	2190434
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	0.0424	0.0050	mg/L	E298/EO	29-Aug-2025	30-Aug-2025	2188688
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl/EO	28-Aug-2025	28-Aug-2025	2188700
Fluoride	16984-48-8	0.131	0.020	mg/L	E235.F/EO	28-Aug-2025	28-Aug-2025	2188697
Nitrate (as N)	14797-55-8	0.040	0.020	mg/L	E235.NO3/EO	28-Aug-2025	28-Aug-2025	2188698
Nitrate + Nitrite (as N)	----	0.0400	0.0224	mg/L	EC235.N+N/EO	-	29-Aug-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	28-Aug-2025	28-Aug-2025	2188701
Phosphorus, total	7723-14-0	0.0124	0.0020	mg/L	E372-U/EO	03-Sep-2025	03-Sep-2025	2196466
Sulfate (as SO4)	14808-79-8	<0.30	0.30	mg/L	E235.SO4/EO	28-Aug-2025	28-Aug-2025	2188699
Ion Balance								
Ion balance (cations/anions)	----	108	0.010	%	EC101/EO	-	29-Aug-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0077	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Arsenic, total	7440-38-2	0.00015	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Barium, total	7440-39-3	0.0684	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Boron, total	7440-42-8	<0.010	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Calcium, total	7440-70-2	5.34	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Copper, total	7440-50-8	0.00054	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Iron, total	7439-89-6	0.219	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Magnesium, total	7439-95-4	2.34	0.0050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Manganese, total	7439-96-5	0.0256	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/EO	28-Aug-2025	28-Aug-2025	2188309
Nickel, total	7440-02-0	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Potassium, total	7440-09-7	0.535	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Selenium, total	7782-49-2	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Sodium, total	7440-23-5	0.918	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Uranium, total	7440-61-1	0.000048	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0018	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906

Analytical Results

EO2507632-016

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ19
Client sampling date / time: 24-Aug-2025 09:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Arsenic, dissolved	7440-38-2	0.00013	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Barium, dissolved	7440-39-3	0.0686	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Calcium, dissolved	7440-70-2	5.28	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Copper, dissolved	7440-50-8	0.00039	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Iron, dissolved	7439-89-6	0.069	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Magnesium, dissolved	7439-95-4	2.34	0.0050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Manganese, dissolved	7439-96-5	0.00651	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/EO	29-Aug-2025	29-Aug-2025	2190505
Molybdenum, dissolved	7439-98-7	0.000088	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Potassium, dissolved	7440-09-7	0.518	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Rubidium, dissolved	7440-17-7	0.00110	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Silicon, dissolved	7440-21-3	0.103	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Sodium, dissolved	7440-23-5	0.918	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Strontium, dissolved	7440-24-6	0.0560	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Uranium, dissolved	7440-61-1	0.000038	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Zinc, dissolved	7440-66-6	0.0011	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Dissolved mercury filtration location	----	Field	-	-	EP509/EO	-	29-Aug-2025	2190505
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	29-Aug-2025	2189906
Radiological Parameters								
Radium-226	13982-63-3	see attached	0.005	Bq/L	Ra-226/2I	-	12-Sep-2025	-

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

EO2507632-017

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ20
Client sampling date / time: 24-Aug-2025 12:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	29.3	1.2	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, total (as CaCO3)	----	24.0	1.0	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Conductivity	----	45.8	1.0	µS/cm	E100/EO	28-Aug-2025	29-Aug-2025	2188584
Hardness (as CaCO3), dissolved	----	23.1	0.50	mg/L	EC100/EO	-	30-Aug-2025	-
pH	----	7.79	0.10	pH units	E108/EO	28-Aug-2025	29-Aug-2025	2188583
Solids, total dissolved [TDS]	----	33	10	mg/L	E162/EO	-	02-Sep-2025	2189862
Solids, total dissolved [TDS], calculated	----	24.2	1.0	mg/L	EC103/EO	-	29-Aug-2025	-
Solids, total suspended [TSS]	----	<3.0	3.0	mg/L	E160/EO	-	29-Aug-2025	2190434
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	0.0082	0.0050	mg/L	E298/EO	29-Aug-2025	30-Aug-2025	2190176
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl/EO	28-Aug-2025	28-Aug-2025	2188700
Fluoride	16984-48-8	0.135	0.020	mg/L	E235.F/EO	28-Aug-2025	28-Aug-2025	2188697
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	28-Aug-2025	28-Aug-2025	2188698
Nitrate + Nitrite (as N)	----	<0.0224	0.0224	mg/L	EC235.N+N/EO	-	29-Aug-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	28-Aug-2025	28-Aug-2025	2188701
Phosphorus, total	7723-14-0	0.0068	0.0020	mg/L	E372-U/EO	03-Sep-2025	03-Sep-2025	2196466
Sulfate (as SO4)	14808-79-8	<0.30	0.30	mg/L	E235.SO4/EO	28-Aug-2025	28-Aug-2025	2188699
Ion Balance								
Ion balance (cations/anions)	----	104	0.010	%	EC101/EO	-	29-Aug-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0122	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Arsenic, total	7440-38-2	0.00013	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Barium, total	7440-39-3	0.0548	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Boron, total	7440-42-8	<0.010	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Calcium, total	7440-70-2	4.97	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Copper, total	7440-50-8	0.00150	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Iron, total	7439-89-6	0.108	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Magnesium, total	7439-95-4	2.52	0.0050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Manganese, total	7439-96-5	0.00846	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/EO	28-Aug-2025	28-Aug-2025	2188309
Nickel, total	7440-02-0	0.00072	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Potassium, total	7440-09-7	0.440	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Selenium, total	7782-49-2	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Silver, total	7440-22-4	0.000021	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Sodium, total	7440-23-5	0.721	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Uranium, total	7440-61-1	0.000087	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0058	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906

Analytical Results

EO2507632-017

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ20
Client sampling date / time: 24-Aug-2025 12:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Arsenic, dissolved	7440-38-2	0.00014	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Barium, dissolved	7440-39-3	0.0555	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Calcium, dissolved	7440-70-2	4.99	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Copper, dissolved	7440-50-8	0.00056	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Iron, dissolved	7439-89-6	0.020	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Magnesium, dissolved	7439-95-4	2.58	0.0050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Manganese, dissolved	7439-96-5	0.00315	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/EO	29-Aug-2025	29-Aug-2025	2190505
Molybdenum, dissolved	7439-98-7	0.000114	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Nickel, dissolved	7440-02-0	0.00054	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Potassium, dissolved	7440-09-7	0.443	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Rubidium, dissolved	7440-17-7	0.00109	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Silicon, dissolved	7440-21-3	0.330	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Sodium, dissolved	7440-23-5	0.771	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Strontium, dissolved	7440-24-6	0.0816	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Uranium, dissolved	7440-61-1	0.000079	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Dissolved mercury filtration location	----	Field	-	-	EP509/EO	-	29-Aug-2025	2190505
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	29-Aug-2025	2189906
Radiological Parameters								
Radium-226	13982-63-3	see attached	0.005	Bq/L	Ra-226/2I	-	12-Sep-2025	-

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

EO2507632-018

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: WQ7

Client sampling date / time: 24-Aug-2025 13:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	68.7	1.2	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Alkalinity, total (as CaCO3)	----	56.3	1.0	mg/L	E290/EO	28-Aug-2025	29-Aug-2025	2188585
Conductivity	----	104	1.0	µS/cm	E100/EO	28-Aug-2025	29-Aug-2025	2188584
Hardness (as CaCO3), dissolved	----	54.2	0.50	mg/L	EC100/EO	-	30-Aug-2025	-
pH	----	8.10	0.10	pH units	E108/EO	28-Aug-2025	29-Aug-2025	2188583
Solids, total dissolved [TDS]	----	71	13	mg/L	E162/EO	-	02-Sep-2025	2189862
Solids, total dissolved [TDS], calculated	----	57.3	1.0	mg/L	EC103/EO	-	29-Aug-2025	-
Solids, total suspended [TSS]	----	<3.0	3.0	mg/L	E160/EO	-	29-Aug-2025	2190434
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	0.0131	0.0050	mg/L	E298/EO	29-Aug-2025	30-Aug-2025	2190176
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl/EO	28-Aug-2025	28-Aug-2025	2188700
Fluoride	16984-48-8	0.192	0.020	mg/L	E235.F/EO	28-Aug-2025	28-Aug-2025	2188697
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	28-Aug-2025	28-Aug-2025	2188698
Nitrate + Nitrite (as N)	----	<0.0224	0.0224	mg/L	EC235.N+N/EO	-	29-Aug-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	28-Aug-2025	28-Aug-2025	2188701
Phosphorus, total	7723-14-0	0.0064	0.0020	mg/L	E372-U/EO	03-Sep-2025	03-Sep-2025	2196467
Sulfate (as SO4)	14808-79-8	<0.30	0.30	mg/L	E235.SO4/EO	28-Aug-2025	28-Aug-2025	2188699
Ion Balance								
Ion balance (cations/anions)	----	102	0.010	%	EC101/EO	-	29-Aug-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0084	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Arsenic, total	7440-38-2	0.00013	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Barium, total	7440-39-3	0.142	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Boron, total	7440-42-8	<0.010	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Calcium, total	7440-70-2	13.1	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Copper, total	7440-50-8	0.00104	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Iron, total	7439-89-6	0.077	0.010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Magnesium, total	7439-95-4	5.44	0.0050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Manganese, total	7439-96-5	0.0101	0.00010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/EO	28-Aug-2025	28-Aug-2025	2188309
Nickel, total	7440-02-0	<0.00050	0.00050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Potassium, total	7440-09-7	0.422	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Selenium, total	7782-49-2	0.000054	0.000050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Sodium, total	7440-23-5	1.37	0.050	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Uranium, total	7440-61-1	0.000406	0.000010	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Zinc, total	7440-66-6	0.0030	0.0030	mg/L	E420/EO	29-Aug-2025	29-Aug-2025	2189857
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0047	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906

Analytical Results

EO2507632-018

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ7
Client sampling date / time: 24-Aug-2025 13:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Arsenic, dissolved	7440-38-2	0.00011	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Barium, dissolved	7440-39-3	0.139	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Calcium, dissolved	7440-70-2	12.8	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Copper, dissolved	7440-50-8	0.00083	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Iron, dissolved	7439-89-6	0.048	0.010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Magnesium, dissolved	7439-95-4	5.40	0.0050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Manganese, dissolved	7439-96-5	0.00569	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/EO	29-Aug-2025	29-Aug-2025	2190505
Molybdenum, dissolved	7439-98-7	0.000175	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Nickel, dissolved	7440-02-0	0.00061	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Potassium, dissolved	7440-09-7	0.402	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Rubidium, dissolved	7440-17-7	0.00098	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Silicon, dissolved	7440-21-3	1.19	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Sodium, dissolved	7440-23-5	1.39	0.050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Strontium, dissolved	7440-24-6	0.118	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Uranium, dissolved	7440-61-1	0.000370	0.000010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Zinc, dissolved	7440-66-6	0.0038	0.0010	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	29-Aug-2025	29-Aug-2025	2189906
Dissolved mercury filtration location	----	Field	-	-	EP509/EO	-	29-Aug-2025	2190505
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	29-Aug-2025	2189906
Radiological Parameters								
Radium-226	13982-63-3	see attached	0.005	Bq/L	Ra-226/2I	-	12-Sep-2025	-

Please refer to the General Comments section for an explanation of any result qualifiers detected.

ALS Canada Ltd.

QUALITY CONTROL REPORT

Work Order	: **EO2507632**	Page	: 1 of 24
Client	: Sustainable Solutions Group (2SG Inc.)	Laboratory	: ALS Environmental - Edmonton
Contact	: Ryan Van Engen	Account Manager	: Vishal Akolkar
Address	: 68 Cork St. W Guelph ON Canada NIH 2X4	Address	: 9450 - 17 Avenue NW Edmonton, Alberta Canada T6N 1M9
Telephone	: 519.710.8516	Telephone	: +1 780 413 5227
Project	: Angilak	Date Samples Received	: 28-Aug-2025 09:00
PO	: P-CA202500004399	Date Analysis Commenced	: 28-Aug-2025
C-O-C number	: ----	Issue Date	: 25-Sep-2025 15:50
Sampler	: RV/LK		
Site	: ----		
Quote number	: EO24-SSGR100-001 (water)		
No. of samples received	: 18		
No. of samples analysed	: 18		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Alannah Barron	Laboratory Analyst	Edmonton Metals, Edmonton, Alberta
Alastair McGibbon	Laboratory Analyst	Edmonton Inorganics, Edmonton, Alberta
Alex Drake	Lab Analyst	Edmonton Inorganics, Edmonton, Alberta
Alex Drake	Lab Analyst	Edmonton Metals, Edmonton, Alberta
Amanda Powell	Account Manager	Saskatchewan Research Council External Subcontracting, Saskatoon, Saskatchewan
Dan Nguyen	Team Leader - Inorganics	Edmonton Metals, Edmonton, Alberta
Daniel Nguyen	Laboratory Analyst	Edmonton Inorganics, Edmonton, Alberta
Daniel Nguyen	Laboratory Analyst	Edmonton Metals, Edmonton, Alberta
Jing Liu	Laboratory Analyst	Edmonton Inorganics, Edmonton, Alberta
Leah Yee	Lab Assistant	Edmonton Inorganics, Edmonton, Alberta
Shruti Mudliar	Lab Analyst	Edmonton Inorganics, Edmonton, Alberta

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests (QC Lot: 2188450)											
EO2507632-001	C1-1	Solids, total dissolved [TDS]	----	E162	20	mg/L	67	74	8	Diff <2x LOR	----
Physical Tests (QC Lot: 2188548)											
EO2507639-014	Anonymous	pH	----	E108	0.10	pH units	7.73	7.76	0.387%	3%	----
Physical Tests (QC Lot: 2188549)											
EO2507639-014	Anonymous	Conductivity	----	E100	1.0	µS/cm	3580	3590	0.279%	10%	----
Physical Tests (QC Lot: 2188550)											
EO2507639-014	Anonymous	Alkalinity, total (as CaCO3)	----	E290	1.0	mg/L	418	419	0.0717%	20%	----
Physical Tests (QC Lot: 2188583)											
FC2502390-003	Anonymous	pH	----	E108	0.10	pH units	8.26	8.26	0.00%	3%	----
Physical Tests (QC Lot: 2188584)											
FC2502390-003	Anonymous	Conductivity	----	E100	2.0	µS/cm	771	772	0.130%	10%	----
Physical Tests (QC Lot: 2188585)											
FC2502390-003	Anonymous	Alkalinity, total (as CaCO3)	----	E290	2.0	mg/L	216	218	0.646%	20%	----
Physical Tests (QC Lot: 2189859)											
EO2507564-001	Anonymous	Solids, total suspended [TSS]	----	E160	3.0	mg/L	6.5	7.1	0.6	Diff <2x LOR	----
Physical Tests (QC Lot: 2189862)											
EO2507511-017	Anonymous	Solids, total dissolved [TDS]	----	E162	20	mg/L	655	666	1.59%	20%	----
Physical Tests (QC Lot: 2190434)											
EO2507565-002	Anonymous	Solids, total suspended [TSS]	----	E160	3.0	mg/L	<3.0	4.4	1.4	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2188385)											
EO2507632-010	WQ8	Sulfate (as SO4)	14808-79-8	E235.SO4	0.30	mg/L	<0.30	<0.30	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2188386)											
EO2507632-010	WQ8	Nitrate (as N)	14797-55-8	E235.NO3	0.020	mg/L	<0.020	<0.020	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2188387)											
EO2507632-010	WQ8	Nitrite (as N)	14797-65-0	E235.NO2	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2188388)											
EO2507632-010	WQ8	Fluoride	16984-48-8	E235.F	0.020	mg/L	0.150	0.147	0.003	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2188389)											
EO2507632-010	WQ8	Chloride	16887-00-6	E235.Cl	0.50	mg/L	0.56	0.57	0.003	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2188688)											

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Anions and Nutrients (QC Lot: 2188688) - continued											
EO2507622-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.0050	mg/L	0.0482	0.0488	0.0006	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2188697)											
EO2507632-018	WQ7	Fluoride	16984-48-8	E235.F	0.020	mg/L	0.192	0.198	0.006	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2188698)											
EO2507632-018	WQ7	Nitrate (as N)	14797-55-8	E235.NO3	0.020	mg/L	<0.020	<0.020	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2188699)											
EO2507632-018	WQ7	Sulfate (as SO4)	14808-79-8	E235.SO4	0.30	mg/L	<0.30	<0.30	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2188700)											
EO2507632-018	WQ7	Chloride	16887-00-6	E235.Cl	0.50	mg/L	<0.50	<0.50	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2188701)											
EO2507632-018	WQ7	Nitrite (as N)	14797-65-0	E235.NO2	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2190176)											
FC2502402-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.0050	mg/L	0.411	0.416	1.11%	20%	----
Anions and Nutrients (QC Lot: 2196466)											
EO2507620-001	Anonymous	Phosphorus, total	7723-14-0	E372-U	0.0020	mg/L	0.119	0.117	2.12%	20%	----
Anions and Nutrients (QC Lot: 2196467)											
EO2507632-018	WQ7	Phosphorus, total	7723-14-0	E372-U	0.0020	mg/L	0.0064	0.0061	0.0003	Diff <2x LOR	----
Total Metals (QC Lot: 2188308)											
EO2507630-001	Anonymous	Mercury, total	7439-97-6	E508	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Total Metals (QC Lot: 2188309)											
EO2507632-007	WQ4	Mercury, total	7439-97-6	E508	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Total Metals (QC Lot: 2189856)											
EO2507630-008	Anonymous	Aluminum, total	7429-90-5	E420	0.0030	mg/L	0.0234	0.0280	0.0046	Diff <2x LOR	----
		Antimony, total	7440-36-0	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Arsenic, total	7440-38-2	E420	0.00010	mg/L	0.00012	0.00012	0.000002	Diff <2x LOR	----
		Barium, total	7440-39-3	E420	0.00010	mg/L	0.108	0.112	3.91%	20%	----
		Boron, total	7440-42-8	E420	0.010	mg/L	0.040	0.042	0.001	Diff <2x LOR	----
		Cadmium, total	7440-43-9	E420	0.0000050	mg/L	0.0000329	0.0000308	0.0000021	Diff <2x LOR	----
		Calcium, total	7440-70-2	E420	0.050	mg/L	94.6	96.0	1.45%	20%	----
		Chromium, total	7440-47-3	E420	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Copper, total	7440-50-8	E420	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Iron, total	7439-89-6	E420	0.010	mg/L	0.034	0.034	0.0006	Diff <2x LOR	----
		Lead, total	7439-92-1	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Magnesium, total	7439-95-4	E420	0.0050	mg/L	34.9	35.0	0.425%	20%	----

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Total Metals (QC Lot: 2189856) - continued											
EO2507630-008	Anonymous	Manganese, total	7439-96-5	E420	0.00010	mg/L	0.00085	0.00076	0.00009	Diff <2x LOR	----
		Nickel, total	7440-02-0	E420	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Potassium, total	7440-09-7	E420	0.050	mg/L	0.602	0.596	0.853%	20%	----
		Selenium, total	7782-49-2	E420	0.000050	mg/L	0.00161	0.00168	4.67%	20%	----
		Silver, total	7440-22-4	E420	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Sodium, total	7440-23-5	E420	0.050	mg/L	8.89	9.11	2.45%	20%	----
		Uranium, total	7440-61-1	E420	0.000010	mg/L	0.00126	0.00130	3.00%	20%	----
		Zinc, total	7440-66-6	E420	0.0030	mg/L	<0.0030	<0.0030	0	Diff <2x LOR	----
Total Metals (QC Lot: 2189857)											
EO2507632-015	WQ3	Aluminum, total	7429-90-5	E420	0.0030	mg/L	0.0160	0.0161	0.00007	Diff <2x LOR	----
		Antimony, total	7440-36-0	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Arsenic, total	7440-38-2	E420	0.00010	mg/L	0.00017	0.00017	0.000004	Diff <2x LOR	----
		Barium, total	7440-39-3	E420	0.00010	mg/L	0.0860	0.0816	5.26%	20%	----
		Boron, total	7440-42-8	E420	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	----
		Cadmium, total	7440-43-9	E420	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
		Calcium, total	7440-70-2	E420	0.050	mg/L	6.99	6.83	2.28%	20%	----
		Chromium, total	7440-47-3	E420	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Copper, total	7440-50-8	E420	0.00050	mg/L	0.00094	0.00097	0.00003	Diff <2x LOR	----
		Iron, total	7439-89-6	E420	0.010	mg/L	0.090	0.089	0.001	Diff <2x LOR	----
		Lead, total	7439-92-1	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Magnesium, total	7439-95-4	E420	0.0050	mg/L	3.49	3.50	0.320%	20%	----
		Manganese, total	7439-96-5	E420	0.00010	mg/L	0.0172	0.0175	1.50%	20%	----
		Nickel, total	7440-02-0	E420	0.00050	mg/L	0.00057	<0.00050	0.00007	Diff <2x LOR	----
		Potassium, total	7440-09-7	E420	0.050	mg/L	0.533	0.521	2.27%	20%	----
		Selenium, total	7782-49-2	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Silver, total	7440-22-4	E420	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Sodium, total	7440-23-5	E420	0.050	mg/L	0.971	0.975	0.411%	20%	----
		Uranium, total	7440-61-1	E420	0.000010	mg/L	0.000229	0.000232	1.14%	20%	----
		Zinc, total	7440-66-6	E420	0.0030	mg/L	0.0040	<0.0030	0.0010	Diff <2x LOR	----
Dissolved Metals (QC Lot: 2189905)											
EO2507618-001	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.0010	mg/L	0.0065	0.0076	0.0011	Diff <2x LOR	----
		Antimony, dissolved	7440-36-0	E421	0.00010	mg/L	0.00013	0.00013	0.000001	Diff <2x LOR	----
		Arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	0.00200	0.00203	1.40%	20%	----
		Barium, dissolved	7440-39-3	E421	0.00010	mg/L	0.0466	0.0469	0.539%	20%	----

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Dissolved Metals (QC Lot: 2189905) - continued											
EO2507618-001	Anonymous	Beryllium, dissolved	7440-41-7	E421	0.000020	mg/L	<0.000020	<0.000020	0	Diff <2x LOR	----
		Bismuth, dissolved	7440-69-9	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Boron, dissolved	7440-42-8	E421	0.010	mg/L	0.069	0.067	0.002	Diff <2x LOR	----
		Cadmium, dissolved	7440-43-9	E421	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
		Calcium, dissolved	7440-70-2	E421	0.050	mg/L	37.4	37.8	1.00%	20%	----
		Cesium, dissolved	7440-46-2	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Chromium, dissolved	7440-47-3	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Cobalt, dissolved	7440-48-4	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Copper, dissolved	7440-50-8	E421	0.00020	mg/L	0.00032	0.00034	0.00002	Diff <2x LOR	----
		Iron, dissolved	7439-89-6	E421	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	----
		Lead, dissolved	7439-92-1	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Lithium, dissolved	7439-93-2	E421	0.0010	mg/L	0.0340	0.0330	2.88%	20%	----
		Magnesium, dissolved	7439-95-4	E421	0.0050	mg/L	24.9	25.0	0.412%	20%	----
		Manganese, dissolved	7439-96-5	E421	0.00010	mg/L	0.00234	0.00212	9.74%	20%	----
		Molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	0.000545	0.000560	2.72%	20%	----
		Nickel, dissolved	7440-02-0	E421	0.00050	mg/L	0.00062	0.00087	0.00025	Diff <2x LOR	----
		Phosphorus, dissolved	7723-14-0	E421	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Potassium, dissolved	7440-09-7	E421	0.050	mg/L	4.78	4.83	0.975%	20%	----
		Rubidium, dissolved	7440-17-7	E421	0.00020	mg/L	0.00153	0.00146	0.00006	Diff <2x LOR	----
		Selenium, dissolved	7782-49-2	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Silicon, dissolved	7440-21-3	E421	0.050	mg/L	1.08	1.12	3.27%	20%	----
		Silver, dissolved	7440-22-4	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Sodium, dissolved	7440-23-5	E421	0.050	mg/L	57.9	59.2	2.13%	20%	----
		Strontium, dissolved	7440-24-6	E421	0.00020	mg/L	0.497	0.496	0.313%	20%	----
		Sulfur, dissolved	7704-34-9	E421	0.50	mg/L	76.1	77.7	2.08%	20%	----
		Tellurium, dissolved	13494-80-9	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
		Thallium, dissolved	7440-28-0	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Thorium, dissolved	7440-29-1	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Tin, dissolved	7440-31-5	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Titanium, dissolved	7440-32-6	E421	0.00030	mg/L	<0.00030	<0.00030	0	Diff <2x LOR	----
		Tungsten, dissolved	7440-33-7	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Uranium, dissolved	7440-61-1	E421	0.000010	mg/L	0.000403	0.000410	1.64%	20%	----
		Vanadium, dissolved	7440-62-2	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Zinc, dissolved	7440-66-6	E421	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Dissolved Metals (QC Lot: 2189905) - continued											
EO2507618-001	Anonymous	Zirconium, dissolved	7440-67-7	E421	0.00030	mg/L	<0.00030	<0.00030	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 2189906)											
EO2507632-012	WQ16	Aluminum, dissolved	7429-90-5	E421	0.0010	mg/L	0.0055	0.0055	0.00002	Diff <2x LOR	----
		Antimony, dissolved	7440-36-0	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	0.00011	0.00011	0.000003	Diff <2x LOR	----
		Barium, dissolved	7440-39-3	E421	0.00010	mg/L	0.0174	0.0170	2.17%	20%	----
		Beryllium, dissolved	7440-41-7	E421	0.000020	mg/L	<0.000020	<0.000020	0	Diff <2x LOR	----
		Bismuth, dissolved	7440-69-9	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Boron, dissolved	7440-42-8	E421	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	----
		Cadmium, dissolved	7440-43-9	E421	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
		Calcium, dissolved	7440-70-2	E421	0.050	mg/L	3.30	3.22	2.37%	20%	----
		Cesium, dissolved	7440-46-2	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Chromium, dissolved	7440-47-3	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Cobalt, dissolved	7440-48-4	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Copper, dissolved	7440-50-8	E421	0.00020	mg/L	0.00037	0.00037	0.000004	Diff <2x LOR	----
		Iron, dissolved	7439-89-6	E421	0.010	mg/L	0.032	0.032	0.0005	Diff <2x LOR	----
		Lead, dissolved	7439-92-1	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Lithium, dissolved	7439-93-2	E421	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
		Magnesium, dissolved	7439-95-4	E421	0.0050	mg/L	1.25	1.24	0.754%	20%	----
		Manganese, dissolved	7439-96-5	E421	0.00010	mg/L	0.00399	0.00394	1.40%	20%	----
		Molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	0.000078	0.000088	0.000010	Diff <2x LOR	----
		Nickel, dissolved	7440-02-0	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Phosphorus, dissolved	7723-14-0	E421	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Potassium, dissolved	7440-09-7	E421	0.050	mg/L	0.474	0.468	0.005	Diff <2x LOR	----
		Rubidium, dissolved	7440-17-7	E421	0.00020	mg/L	0.00128	0.00124	0.00004	Diff <2x LOR	----
		Selenium, dissolved	7782-49-2	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Silicon, dissolved	7440-21-3	E421	0.050	mg/L	0.060	0.063	0.003	Diff <2x LOR	----
		Silver, dissolved	7440-22-4	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Sodium, dissolved	7440-23-5	E421	0.050	mg/L	0.637	0.634	0.578%	20%	----
		Strontium, dissolved	7440-24-6	E421	0.00020	mg/L	0.0237	0.0233	1.72%	20%	----
		Sulfur, dissolved	7704-34-9	E421	0.50	mg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tellurium, dissolved	13494-80-9	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
		Thallium, dissolved	7440-28-0	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Thorium, dissolved	7440-29-1	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Dissolved Metals (QC Lot: 2189906) - continued											
EO2507632-012	WQ16	Tin, dissolved	7440-31-5	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Titanium, dissolved	7440-32-6	E421	0.00030	mg/L	<0.00030	<0.00030	0	Diff <2x LOR	----
		Tungsten, dissolved	7440-33-7	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Uranium, dissolved	7440-61-1	E421	0.000010	mg/L	0.000060	0.000057	0.000003	Diff <2x LOR	----
		Vanadium, dissolved	7440-62-2	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Zinc, dissolved	7440-66-6	E421	0.0010	mg/L	0.0010	<0.0010	0.000007	Diff <2x LOR	----
		Zirconium, dissolved	7440-67-7	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 2190505)											
EO2507632-001	C1-1	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 2188450)						
Solids, total dissolved [TDS]	----	E162	10	mg/L	<10	----
Physical Tests (QCLot: 2188549)						
Conductivity	----	E100	1	µS/cm	<1.0	----
Physical Tests (QCLot: 2188550)						
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	<1.0	----
Physical Tests (QCLot: 2188584)						
Conductivity	----	E100	1	µS/cm	<1.0	----
Physical Tests (QCLot: 2188585)						
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	<1.0	----
Physical Tests (QCLot: 2189859)						
Solids, total suspended [TSS]	----	E160	3	mg/L	<3.0	----
Physical Tests (QCLot: 2189862)						
Solids, total dissolved [TDS]	----	E162	10	mg/L	<10	----
Physical Tests (QCLot: 2190434)						
Solids, total suspended [TSS]	----	E160	3	mg/L	<3.0	----
Anions and Nutrients (QCLot: 2188385)						
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	<0.30	----
Anions and Nutrients (QCLot: 2188386)						
Nitrate (as N)	14797-55-8	E235.NO3	0.02	mg/L	<0.020	----
Anions and Nutrients (QCLot: 2188387)						
Nitrite (as N)	14797-65-0	E235.NO2	0.01	mg/L	<0.010	----
Anions and Nutrients (QCLot: 2188388)						
Fluoride	16984-48-8	E235.F	0.02	mg/L	<0.020	----
Anions and Nutrients (QCLot: 2188389)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Anions and Nutrients (QCLot: 2188688)						
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	<0.0050	----
Anions and Nutrients (QCLot: 2188697)						
Fluoride	16984-48-8	E235.F	0.02	mg/L	<0.020	----
Anions and Nutrients (QCLot: 2188698)						
Nitrate (as N)	14797-55-8	E235.NO3	0.02	mg/L	<0.020	----
Anions and Nutrients (QCLot: 2188699)						

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Anions and Nutrients (QCLot: 2188699) - continued						
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	<0.30	----
Anions and Nutrients (QCLot: 2188700)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Anions and Nutrients (QCLot: 2188701)						
Nitrite (as N)	14797-65-0	E235.NO2	0.01	mg/L	<0.010	----
Anions and Nutrients (QCLot: 2190176)						
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	<0.0050	----
Anions and Nutrients (QCLot: 2196466)						
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	<0.0020	----
Anions and Nutrients (QCLot: 2196467)						
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	<0.0020	----
Total Metals (QCLot: 2188308)						
Mercury, total	7439-97-6	E508	0.000005	mg/L	<0.0000050	----
Total Metals (QCLot: 2188309)						
Mercury, total	7439-97-6	E508	0.000005	mg/L	<0.0000050	----
Total Metals (QCLot: 2189856)						
Aluminum, total	7429-90-5	E420	0.003	mg/L	<0.0030	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	<0.00010	----
Arsenic, total	7440-38-2	E420	0.0001	mg/L	<0.00010	----
Barium, total	7440-39-3	E420	0.0001	mg/L	<0.00010	----
Boron, total	7440-42-8	E420	0.01	mg/L	<0.010	----
Cadmium, total	7440-43-9	E420	0.000005	mg/L	<0.0000050	----
Calcium, total	7440-70-2	E420	0.05	mg/L	<0.050	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	<0.00050	----
Copper, total	7440-50-8	E420	0.0005	mg/L	<0.00050	----
Iron, total	7439-89-6	E420	0.01	mg/L	<0.010	----
Lead, total	7439-92-1	E420	0.00005	mg/L	<0.000050	----
Magnesium, total	7439-95-4	E420	0.005	mg/L	<0.0050	----
Manganese, total	7439-96-5	E420	0.0001	mg/L	<0.00010	----
Nickel, total	7440-02-0	E420	0.0005	mg/L	<0.00050	----
Potassium, total	7440-09-7	E420	0.05	mg/L	<0.050	----
Selenium, total	7782-49-2	E420	0.00005	mg/L	<0.000050	----
Silver, total	7440-22-4	E420	0.00001	mg/L	<0.000010	----
Sodium, total	7440-23-5	E420	0.05	mg/L	<0.050	----
Uranium, total	7440-61-1	E420	0.00001	mg/L	<0.000010	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 2189856) - continued						
Zinc, total	7440-66-6	E420	0.003	mg/L	<0.0030	----
Total Metals (QCLot: 2189857)						
Aluminum, total	7429-90-5	E420	0.003	mg/L	<0.0030	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	<0.00010	----
Arsenic, total	7440-38-2	E420	0.0001	mg/L	<0.00010	----
Barium, total	7440-39-3	E420	0.0001	mg/L	<0.00010	----
Boron, total	7440-42-8	E420	0.01	mg/L	<0.010	----
Cadmium, total	7440-43-9	E420	0.000005	mg/L	<0.0000050	----
Calcium, total	7440-70-2	E420	0.05	mg/L	<0.050	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	<0.00050	----
Copper, total	7440-50-8	E420	0.0005	mg/L	<0.00050	----
Iron, total	7439-89-6	E420	0.01	mg/L	<0.010	----
Lead, total	7439-92-1	E420	0.00005	mg/L	<0.000050	----
Magnesium, total	7439-95-4	E420	0.005	mg/L	<0.0050	----
Manganese, total	7439-96-5	E420	0.0001	mg/L	<0.00010	----
Nickel, total	7440-02-0	E420	0.0005	mg/L	<0.00050	----
Potassium, total	7440-09-7	E420	0.05	mg/L	<0.050	----
Selenium, total	7782-49-2	E420	0.00005	mg/L	<0.000050	----
Silver, total	7440-22-4	E420	0.00001	mg/L	<0.000010	----
Sodium, total	7440-23-5	E420	0.05	mg/L	<0.050	----
Uranium, total	7440-61-1	E420	0.00001	mg/L	<0.000010	----
Zinc, total	7440-66-6	E420	0.003	mg/L	<0.0030	----
Dissolved Metals (QCLot: 2189905)						
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	<0.0010	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	<0.00010	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	<0.00010	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	<0.00010	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	<0.000020	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	<0.000050	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	<0.010	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	<0.0000050	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	<0.050	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	<0.000010	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	<0.00050	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	<0.00010	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Dissolved Metals (QCLot: 2189905) - continued						
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	<0.00020	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	<0.010	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	<0.0010	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	<0.0050	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	<0.00010	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	<0.000050	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	<0.00050	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	<0.050	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	<0.050	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	<0.00020	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	<0.000050	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	<0.050	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	<0.000010	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	<0.00020	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	<0.50	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	<0.00020	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	<0.00010	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	<0.00010	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	<0.00030	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	<0.00010	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	<0.000010	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	<0.00050	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	<0.0010	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	<0.00020	----
Dissolved Metals (QCLot: 2189906)						
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	<0.0010	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	<0.00010	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	<0.00010	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	<0.00010	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	<0.000020	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	<0.000050	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	<0.010	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Dissolved Metals (QCLot: 2189906) - continued						
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	<0.0000050	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	<0.050	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	<0.000010	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	<0.00050	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	<0.00010	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	<0.00020	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	<0.010	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	<0.0010	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	<0.0050	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	<0.00010	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	<0.000050	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	<0.00050	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	<0.050	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	<0.050	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	<0.00020	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	<0.000050	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	<0.050	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	<0.000010	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	<0.00020	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	<0.50	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	<0.00020	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	<0.00010	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	<0.00010	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	<0.00030	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	<0.00010	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	<0.000010	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	<0.00050	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	<0.0010	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	<0.00020	----
Dissolved Metals (QCLot: 2190505)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 2188450)									
Solids, total dissolved [TDS]	----	E162	10	mg/L	1000 mg/L	98.4	85.0	115	----
Physical Tests (QCLot: 2188548)									
pH	----	E108	----	pH units	6 pH units	102	97.0	103	----
Physical Tests (QCLot: 2188549)									
Conductivity	----	E100	1	µS/cm	1410 µS/cm	94.9	90.0	110	----
Physical Tests (QCLot: 2188550)									
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	500 mg/L	101	85.0	115	----
Physical Tests (QCLot: 2188583)									
pH	----	E108	----	pH units	6 pH units	102	97.0	103	----
Physical Tests (QCLot: 2188584)									
Conductivity	----	E100	1	µS/cm	1410 µS/cm	97.0	90.0	110	----
Physical Tests (QCLot: 2188585)									
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	500 mg/L	101	85.0	115	----
Physical Tests (QCLot: 2189859)									
Solids, total suspended [TSS]	----	E160	3	mg/L	150 mg/L	93.5	85.0	115	----
Physical Tests (QCLot: 2189862)									
Solids, total dissolved [TDS]	----	E162	10	mg/L	1000 mg/L	103	85.0	115	----
Physical Tests (QCLot: 2190434)									
Solids, total suspended [TSS]	----	E160	3	mg/L	150 mg/L	93.7	85.0	115	----
Anions and Nutrients (QCLot: 2188385)									
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	100 mg/L	100	90.0	110	----
Anions and Nutrients (QCLot: 2188386)									
Nitrate (as N)	14797-55-8	E235.NO3	0.02	mg/L	2.5 mg/L	101	90.0	110	----
Anions and Nutrients (QCLot: 2188387)									
Nitrite (as N)	14797-65-0	E235.NO2	0.01	mg/L	0.5 mg/L	101	90.0	110	----
Anions and Nutrients (QCLot: 2188388)									
Fluoride	16984-48-8	E235.F	0.02	mg/L	1 mg/L	106	90.0	110	----
Anions and Nutrients (QCLot: 2188389)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	101	90.0	110	----
Anions and Nutrients (QCLot: 2188688)									
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	106	85.0	115	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Anions and Nutrients (QCLot: 2188697)									
Fluoride	16984-48-8	E235.F	0.02	mg/L	1 mg/L	102	90.0	110	----
Anions and Nutrients (QCLot: 2188698)									
Nitrate (as N)	14797-55-8	E235.NO3	0.02	mg/L	2.5 mg/L	97.3	90.0	110	----
Anions and Nutrients (QCLot: 2188699)									
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	100 mg/L	96.6	90.0	110	----
Anions and Nutrients (QCLot: 2188700)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	93.3	90.0	110	----
Anions and Nutrients (QCLot: 2188701)									
Nitrite (as N)	14797-65-0	E235.NO2	0.01	mg/L	0.5 mg/L	93.1	90.0	110	----
Anions and Nutrients (QCLot: 2190176)									
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	106	85.0	115	----
Anions and Nutrients (QCLot: 2196466)									
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	0.05 mg/L	99.6	80.0	120	----
Anions and Nutrients (QCLot: 2196467)									
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	0.05 mg/L	101	80.0	120	----
Total Metals (QCLot: 2188308)									
Mercury, total	7439-97-6	E508	0.000005	mg/L	0 mg/L	103	80.0	120	----
Total Metals (QCLot: 2188309)									
Mercury, total	7439-97-6	E508	0.000005	mg/L	0 mg/L	103	80.0	120	----
Total Metals (QCLot: 2189856)									
Aluminum, total	7429-90-5	E420	0.003	mg/L	2 mg/L	97.3	80.0	120	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	1 mg/L	97.3	80.0	120	----
Arsenic, total	7440-38-2	E420	0.0001	mg/L	1 mg/L	99.2	80.0	120	----
Barium, total	7440-39-3	E420	0.0001	mg/L	0.25 mg/L	98.6	80.0	120	----
Boron, total	7440-42-8	E420	0.01	mg/L	1 mg/L	107	80.0	120	----
Cadmium, total	7440-43-9	E420	0.000005	mg/L	0.1 mg/L	98.5	80.0	120	----
Calcium, total	7440-70-2	E420	0.05	mg/L	50 mg/L	99.0	80.0	120	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	0.25 mg/L	102	80.0	120	----
Copper, total	7440-50-8	E420	0.0005	mg/L	0.25 mg/L	97.8	80.0	120	----
Iron, total	7439-89-6	E420	0.01	mg/L	1 mg/L	97.7	80.0	120	----
Lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	94.0	80.0	120	----
Magnesium, total	7439-95-4	E420	0.005	mg/L	50 mg/L	100	80.0	120	----
Manganese, total	7439-96-5	E420	0.0001	mg/L	0.25 mg/L	101	80.0	120	----
Nickel, total	7440-02-0	E420	0.0005	mg/L	0.5 mg/L	105	80.0	120	----
Potassium, total	7440-09-7	E420	0.05	mg/L	50 mg/L	102	80.0	120	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 2189856) - continued									
Selenium, total	7782-49-2	E420	0.00005	mg/L	1 mg/L	91.4	80.0	120	----
Silver, total	7440-22-4	E420	0.00001	mg/L	0.1 mg/L	92.4	80.0	120	----
Sodium, total	7440-23-5	E420	0.05	mg/L	50 mg/L	100	80.0	120	----
Uranium, total	7440-61-1	E420	0.00001	mg/L	0.005 mg/L	98.5	80.0	120	----
Zinc, total	7440-66-6	E420	0.003	mg/L	0.5 mg/L	100	80.0	120	----
Total Metals (QCLot: 2189857)									
Aluminum, total	7429-90-5	E420	0.003	mg/L	2 mg/L	96.6	80.0	120	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	1 mg/L	98.3	80.0	120	----
Arsenic, total	7440-38-2	E420	0.0001	mg/L	1 mg/L	99.1	80.0	120	----
Barium, total	7440-39-3	E420	0.0001	mg/L	0.25 mg/L	99.1	80.0	120	----
Boron, total	7440-42-8	E420	0.01	mg/L	1 mg/L	98.5	80.0	120	----
Cadmium, total	7440-43-9	E420	0.000005	mg/L	0.1 mg/L	98.3	80.0	120	----
Calcium, total	7440-70-2	E420	0.05	mg/L	50 mg/L	99.0	80.0	120	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	0.25 mg/L	101	80.0	120	----
Copper, total	7440-50-8	E420	0.0005	mg/L	0.25 mg/L	97.5	80.0	120	----
Iron, total	7439-89-6	E420	0.01	mg/L	1 mg/L	98.4	80.0	120	----
Lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	95.0	80.0	120	----
Magnesium, total	7439-95-4	E420	0.005	mg/L	50 mg/L	99.8	80.0	120	----
Manganese, total	7439-96-5	E420	0.0001	mg/L	0.25 mg/L	101	80.0	120	----
Nickel, total	7440-02-0	E420	0.0005	mg/L	0.5 mg/L	103	80.0	120	----
Potassium, total	7440-09-7	E420	0.05	mg/L	50 mg/L	102	80.0	120	----
Selenium, total	7782-49-2	E420	0.00005	mg/L	1 mg/L	93.8	80.0	120	----
Silver, total	7440-22-4	E420	0.00001	mg/L	0.1 mg/L	91.8	80.0	120	----
Sodium, total	7440-23-5	E420	0.05	mg/L	50 mg/L	101	80.0	120	----
Uranium, total	7440-61-1	E420	0.00001	mg/L	0.005 mg/L	99.2	80.0	120	----
Zinc, total	7440-66-6	E420	0.003	mg/L	0.5 mg/L	103	80.0	120	----
Dissolved Metals (QCLot: 2189905)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	2 mg/L	102	80.0	120	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	1 mg/L	101	80.0	120	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	1 mg/L	106	80.0	120	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.25 mg/L	106	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.1 mg/L	102	80.0	120	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	1 mg/L	96.5	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	1 mg/L	98.8	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.1 mg/L	102	80.0	120	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Dissolved Metals (QCLot: 2189905) - continued									
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	50 mg/L	96.6	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.05 mg/L	101	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.25 mg/L	103	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.25 mg/L	104	80.0	120	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.25 mg/L	104	80.0	120	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	1 mg/L	103	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.5 mg/L	99.4	80.0	120	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	0.25 mg/L	102	80.0	120	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	50 mg/L	104	80.0	120	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	0.25 mg/L	101	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.25 mg/L	97.8	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.5 mg/L	105	80.0	120	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	10 mg/L	97.5	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	50 mg/L	105	80.0	120	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.1 mg/L	107	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	1 mg/L	103	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	10 mg/L	104	80.0	120	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.1 mg/L	97.2	80.0	120	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	50 mg/L	104	80.0	120	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	0.25 mg/L	103	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	50 mg/L	94.8	80.0	120	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.1 mg/L	101	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	1 mg/L	100	80.0	120	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	0.1 mg/L	97.6	80.0	120	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	0.5 mg/L	99.7	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.25 mg/L	96.0	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.1 mg/L	102	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.005 mg/L	100	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.5 mg/L	106	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.5 mg/L	97.6	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.1 mg/L	100	80.0	120	----
Dissolved Metals (QCLot: 2189906)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	2 mg/L	103	80.0	120	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	1 mg/L	104	80.0	120	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	1 mg/L	110	80.0	120	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.25 mg/L	109	80.0	120	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Dissolved Metals (QCLot: 2189906) - continued									
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.1 mg/L	105	80.0	120	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	1 mg/L	102	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	1 mg/L	101	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.1 mg/L	106	80.0	120	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	50 mg/L	99.6	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.05 mg/L	102	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.25 mg/L	108	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.25 mg/L	110	80.0	120	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.25 mg/L	107	80.0	120	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	1 mg/L	105	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.5 mg/L	104	80.0	120	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	0.25 mg/L	106	80.0	120	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	50 mg/L	108	80.0	120	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	0.25 mg/L	104	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.25 mg/L	103	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.5 mg/L	110	80.0	120	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	10 mg/L	107	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	50 mg/L	108	80.0	120	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.1 mg/L	109	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	1 mg/L	104	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	10 mg/L	106	80.0	120	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.1 mg/L	101	80.0	120	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	50 mg/L	108	80.0	120	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	0.25 mg/L	106	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	50 mg/L	93.1	80.0	120	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.1 mg/L	108	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	1 mg/L	104	80.0	120	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	0.1 mg/L	105	80.0	120	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	0.5 mg/L	103	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.25 mg/L	100	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.1 mg/L	103	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.005 mg/L	102	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.5 mg/L	110	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.5 mg/L	103	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.1 mg/L	103	80.0	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0 mg/L	103	80.0	120	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nutrients (QCLot: 2188385)										
EO2507632-010	WQ8	Sulfate (as SO4)	14808-79-8	E235.SO4	100 mg/L	100 mg/L	100	75.0	125	----
Anions and Nutrients (QCLot: 2188386)										
EO2507632-010	WQ8	Nitrate (as N)	14797-55-8	E235.NO3	2.57 mg/L	2.5 mg/L	103	75.0	125	----
Anions and Nutrients (QCLot: 2188387)										
EO2507632-010	WQ8	Nitrite (as N)	14797-65-0	E235.NO2	0.519 mg/L	0.5 mg/L	104	75.0	125	----
Anions and Nutrients (QCLot: 2188388)										
EO2507632-010	WQ8	Fluoride	16984-48-8	E235.F	1.01 mg/L	1 mg/L	101	75.0	125	----
Anions and Nutrients (QCLot: 2188389)										
EO2507632-010	WQ8	Chloride	16887-00-6	E235.Cl	101 mg/L	100 mg/L	101	75.0	125	----
Anions and Nutrients (QCLot: 2188688)										
EO2507622-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.0956 mg/L	0.1 mg/L	95.6	75.0	125	----
Anions and Nutrients (QCLot: 2188697)										
EO2507632-018	WQ7	Fluoride	16984-48-8	E235.F	1.02 mg/L	1 mg/L	102	75.0	125	----
Anions and Nutrients (QCLot: 2188698)										
EO2507632-018	WQ7	Nitrate (as N)	14797-55-8	E235.NO3	2.37 mg/L	2.5 mg/L	95.0	75.0	125	----
Anions and Nutrients (QCLot: 2188699)										
EO2507632-018	WQ7	Sulfate (as SO4)	14808-79-8	E235.SO4	103 mg/L	100 mg/L	103	75.0	125	----
Anions and Nutrients (QCLot: 2188700)										
EO2507632-018	WQ7	Chloride	16887-00-6	E235.Cl	97.5 mg/L	100 mg/L	97.5	75.0	125	----
Anions and Nutrients (QCLot: 2188701)										
EO2507632-018	WQ7	Nitrite (as N)	14797-65-0	E235.NO2	0.492 mg/L	0.5 mg/L	98.3	75.0	125	----
Anions and Nutrients (QCLot: 2190176)										
FC2502402-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	ND mg/L	----	ND	75.0	125	----
Anions and Nutrients (QCLot: 2196466)										
EO2507620-002	Anonymous	Phosphorus, total	7723-14-0	E372-U	0.0706 mg/L	0.067 mg/L	105	70.0	130	----
Anions and Nutrients (QCLot: 2196467)										
EO2507674-001	Anonymous	Phosphorus, total	7723-14-0	E372-U	0.0689 mg/L	0.067 mg/L	103	70.0	130	----
Total Metals (QCLot: 2188308)										
EO2507630-002	Anonymous	Mercury, total	7439-97-6	E508	0.000105 mg/L	0 mg/L	105	70.0	130	----
Total Metals (QCLot: 2188309)										

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Total Metals (QCLot: 2188309) - continued										
EO2507632-008	WQ10	Mercury, total	7439-97-6	E508	0.000112 mg/L	0 mg/L	112	70.0	130	----
Total Metals (QCLot: 2189856)										
EO2507630-009	Anonymous	Aluminum, total	7429-90-5	E420	0.198 mg/L	0.2 mg/L	98.9	70.0	130	----
		Antimony, total	7440-36-0	E420	0.0202 mg/L	0.02 mg/L	101	70.0	130	----
		Arsenic, total	7440-38-2	E420	0.0205 mg/L	0.02 mg/L	102	70.0	130	----
		Barium, total	7440-39-3	E420	ND mg/L	----	ND	70.0	130	----
		Boron, total	7440-42-8	E420	0.103 mg/L	0.1 mg/L	103	70.0	130	----
		Cadmium, total	7440-43-9	E420	0.00418 mg/L	0.004 mg/L	104	70.0	130	----
		Calcium, total	7440-70-2	E420	ND mg/L	----	ND	70.0	130	----
		Chromium, total	7440-47-3	E420	0.0419 mg/L	0.04 mg/L	105	70.0	130	----
		Copper, total	7440-50-8	E420	0.0193 mg/L	0.02 mg/L	96.7	70.0	130	----
		Iron, total	7439-89-6	E420	2.03 mg/L	2 mg/L	102	70.0	130	----
		Lead, total	7439-92-1	E420	0.0194 mg/L	0.02 mg/L	96.8	70.0	130	----
		Magnesium, total	7439-95-4	E420	ND mg/L	----	ND	70.0	130	----
		Manganese, total	7439-96-5	E420	0.0196 mg/L	0.02 mg/L	98.1	70.0	130	----
		Nickel, total	7440-02-0	E420	0.0414 mg/L	0.04 mg/L	104	70.0	130	----
		Potassium, total	7440-09-7	E420	4.00 mg/L	4 mg/L	100	70.0	130	----
		Selenium, total	7782-49-2	E420	0.0413 mg/L	0.04 mg/L	103	70.0	130	----
		Silver, total	7440-22-4	E420	0.00403 mg/L	0.004 mg/L	101	70.0	130	----
		Sodium, total	7440-23-5	E420	ND mg/L	----	ND	70.0	130	----
		Uranium, total	7440-61-1	E420	0.00418 mg/L	0.004 mg/L	104	70.0	130	----
		Zinc, total	7440-66-6	E420	0.363 mg/L	0.4 mg/L	90.7	70.0	130	----
Total Metals (QCLot: 2189857)										
EO2507632-016	WQ19	Aluminum, total	7429-90-5	E420	0.185 mg/L	0.2 mg/L	92.6	70.0	130	----
		Antimony, total	7440-36-0	E420	0.0192 mg/L	0.02 mg/L	95.8	70.0	130	----
		Arsenic, total	7440-38-2	E420	0.0191 mg/L	0.02 mg/L	95.7	70.0	130	----
		Barium, total	7440-39-3	E420	ND mg/L	----	ND	70.0	130	----
		Boron, total	7440-42-8	E420	0.108 mg/L	0.1 mg/L	108	70.0	130	----
		Cadmium, total	7440-43-9	E420	0.00398 mg/L	0.004 mg/L	99.4	70.0	130	----
		Calcium, total	7440-70-2	E420	ND mg/L	----	ND	70.0	130	----
		Chromium, total	7440-47-3	E420	0.0398 mg/L	0.04 mg/L	99.5	70.0	130	----
		Copper, total	7440-50-8	E420	0.0196 mg/L	0.02 mg/L	98.0	70.0	130	----
		Iron, total	7439-89-6	E420	1.97 mg/L	2 mg/L	98.3	70.0	130	----
		Lead, total	7439-92-1	E420	0.0186 mg/L	0.02 mg/L	92.9	70.0	130	----
		Magnesium, total	7439-95-4	E420	ND mg/L	----	ND	70.0	130	----
		Manganese, total	7439-96-5	E420	ND mg/L	----	ND	70.0	130	----
		Nickel, total	7440-02-0	E420	0.0425 mg/L	0.04 mg/L	106	70.0	130	----
		Potassium, total	7440-09-7	E420	3.85 mg/L	4 mg/L	96.2	70.0	130	----
		Selenium, total	7782-49-2	E420	0.0404 mg/L	0.04 mg/L	101	70.0	130	----
		Silver, total	7440-22-4	E420	0.00387 mg/L	0.004 mg/L	96.8	70.0	130	----
		Sodium, total	7440-23-5	E420	1.89 mg/L	2 mg/L	94.7	70.0	130	----
		Uranium, total	7440-61-1	E420	0.00381 mg/L	0.004 mg/L	95.3	70.0	130	----
		Zinc, total	7440-66-6	E420	0.362 mg/L	0.4 mg/L	90.4	70.0	130	----

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Dissolved Metals (QCLot: 2189905)										
EO2507618-001	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.188 mg/L	0.2 mg/L	94.0	70.0	130	----
		Antimony, dissolved	7440-36-0	E421	0.0190 mg/L	0.02 mg/L	95.0	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	0.0201 mg/L	0.02 mg/L	100	70.0	130	----
		Barium, dissolved	7440-39-3	E421	ND mg/L	----	ND	70.0	130	----
		Beryllium, dissolved	7440-41-7	E421	0.0404 mg/L	0.04 mg/L	101	70.0	130	----
		Bismuth, dissolved	7440-69-9	E421	0.00844 mg/L	0.01 mg/L	84.4	70.0	130	----
		Boron, dissolved	7440-42-8	E421	0.090 mg/L	0.1 mg/L	89.9	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.00400 mg/L	0.004 mg/L	100	70.0	130	----
		Calcium, dissolved	7440-70-2	E421	ND mg/L	----	ND	70.0	130	----
		Cesium, dissolved	7440-46-2	E421	0.00952 mg/L	0.01 mg/L	95.2	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	0.0397 mg/L	0.04 mg/L	99.3	70.0	130	----
		Cobalt, dissolved	7440-48-4	E421	0.0193 mg/L	0.02 mg/L	96.5	70.0	130	----
		Copper, dissolved	7440-50-8	E421	0.0189 mg/L	0.02 mg/L	94.5	70.0	130	----
		Iron, dissolved	7439-89-6	E421	1.91 mg/L	2 mg/L	95.7	70.0	130	----
		Lead, dissolved	7439-92-1	E421	0.0181 mg/L	0.02 mg/L	90.3	70.0	130	----
		Lithium, dissolved	7439-93-2	E421	0.0948 mg/L	0.1 mg/L	94.8	70.0	130	----
		Magnesium, dissolved	7439-95-4	E421	ND mg/L	----	ND	70.0	130	----
		Manganese, dissolved	7439-96-5	E421	0.0189 mg/L	0.02 mg/L	94.6	70.0	130	----
		Molybdenum, dissolved	7439-98-7	E421	0.0186 mg/L	0.02 mg/L	92.8	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	0.0384 mg/L	0.04 mg/L	96.0	70.0	130	----
		Phosphorus, dissolved	7723-14-0	E421	9.49 mg/L	10 mg/L	94.9	70.0	130	----
		Potassium, dissolved	7440-09-7	E421	ND mg/L	----	ND	70.0	130	----
		Rubidium, dissolved	7440-17-7	E421	0.0194 mg/L	0.02 mg/L	97.0	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	0.0424 mg/L	0.04 mg/L	106	70.0	130	----
		Silicon, dissolved	7440-21-3	E421	9.29 mg/L	10 mg/L	92.9	70.0	130	----
		Silver, dissolved	7440-22-4	E421	0.00372 mg/L	0.004 mg/L	93.0	70.0	130	----
		Sodium, dissolved	7440-23-5	E421	ND mg/L	----	ND	70.0	130	----
		Strontium, dissolved	7440-24-6	E421	ND mg/L	----	ND	70.0	130	----
		Sulfur, dissolved	7704-34-9	E421	ND mg/L	----	ND	70.0	130	----
		Tellurium, dissolved	13494-80-9	E421	0.0390 mg/L	0.04 mg/L	97.6	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	0.00367 mg/L	0.004 mg/L	91.7	70.0	130	----
		Thorium, dissolved	7440-29-1	E421	0.0189 mg/L	0.02 mg/L	94.4	70.0	130	----
		Tin, dissolved	7440-31-5	E421	0.0188 mg/L	0.02 mg/L	94.2	70.0	130	----
		Titanium, dissolved	7440-32-6	E421	0.0362 mg/L	0.04 mg/L	90.4	70.0	130	----
		Tungsten, dissolved	7440-33-7	E421	0.0191 mg/L	0.02 mg/L	95.6	70.0	130	----
		Uranium, dissolved	7440-61-1	E421	0.00369 mg/L	0.004 mg/L	92.2	70.0	130	----
		Vanadium, dissolved	7440-62-2	E421	0.100 mg/L	0.1 mg/L	100	70.0	130	----
		Zinc, dissolved	7440-66-6	E421	0.376 mg/L	0.4 mg/L	94.0	70.0	130	----
		Zirconium, dissolved	7440-67-7	E421	0.0374 mg/L	0.04 mg/L	93.6	70.0	130	----
Dissolved Metals (QCLot: 2189906)										
EO2507632-012	WQ16	Aluminum, dissolved	7429-90-5	E421	0.201 mg/L	0.2 mg/L	100	70.0	130	----
		Antimony, dissolved	7440-36-0	E421	0.0199 mg/L	0.02 mg/L	99.5	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	0.0208 mg/L	0.02 mg/L	104	70.0	130	----
		Barium, dissolved	7440-39-3	E421	0.0206 mg/L	0.02 mg/L	103	70.0	130	----

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Dissolved Metals (QCLot: 2189906) - continued										
EO2507632-012	WQ16	Beryllium, dissolved	7440-41-7	E421	0.0418 mg/L	0.04 mg/L	105	70.0	130	----
		Bismuth, dissolved	7440-69-9	E421	0.00892 mg/L	0.01 mg/L	89.2	70.0	130	----
		Boron, dissolved	7440-42-8	E421	0.097 mg/L	0.1 mg/L	96.7	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.00412 mg/L	0.004 mg/L	103	70.0	130	----
		Calcium, dissolved	7440-70-2	E421	3.73 mg/L	4 mg/L	93.3	70.0	130	----
		Cesium, dissolved	7440-46-2	E421	0.00997 mg/L	0.01 mg/L	99.7	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	0.0421 mg/L	0.04 mg/L	105	70.0	130	----
		Cobalt, dissolved	7440-48-4	E421	0.0208 mg/L	0.02 mg/L	104	70.0	130	----
		Copper, dissolved	7440-50-8	E421	0.0207 mg/L	0.02 mg/L	103	70.0	130	----
		Iron, dissolved	7439-89-6	E421	1.96 mg/L	2 mg/L	98.3	70.0	130	----
		Lead, dissolved	7439-92-1	E421	0.0198 mg/L	0.02 mg/L	98.8	70.0	130	----
		Lithium, dissolved	7439-93-2	E421	0.103 mg/L	0.1 mg/L	103	70.0	130	----
		Magnesium, dissolved	7439-95-4	E421	ND mg/L	----	ND	70.0	130	----
		Manganese, dissolved	7439-96-5	E421	0.0200 mg/L	0.02 mg/L	100.0	70.0	130	----
		Molybdenum, dissolved	7439-98-7	E421	0.0193 mg/L	0.02 mg/L	96.7	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	0.0422 mg/L	0.04 mg/L	105	70.0	130	----
		Phosphorus, dissolved	7723-14-0	E421	10.1 mg/L	10 mg/L	101	70.0	130	----
		Potassium, dissolved	7440-09-7	E421	4.16 mg/L	4 mg/L	104	70.0	130	----
		Rubidium, dissolved	7440-17-7	E421	0.0215 mg/L	0.02 mg/L	107	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	0.0425 mg/L	0.04 mg/L	106	70.0	130	----
		Silicon, dissolved	7440-21-3	E421	9.56 mg/L	10 mg/L	95.6	70.0	130	----
		Silver, dissolved	7440-22-4	E421	0.00404 mg/L	0.004 mg/L	101	70.0	130	----
		Sodium, dissolved	7440-23-5	E421	1.99 mg/L	2 mg/L	99.5	70.0	130	----
		Strontium, dissolved	7440-24-6	E421	ND mg/L	----	ND	70.0	130	----
		Sulfur, dissolved	7704-34-9	E421	19.9 mg/L	20 mg/L	99.5	70.0	130	----
		Tellurium, dissolved	13494-80-9	E421	0.0428 mg/L	0.04 mg/L	107	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	0.00400 mg/L	0.004 mg/L	99.9	70.0	130	----
		Thorium, dissolved	7440-29-1	E421	0.0197 mg/L	0.02 mg/L	98.6	70.0	130	----
		Tin, dissolved	7440-31-5	E421	0.0195 mg/L	0.02 mg/L	97.5	70.0	130	----
		Titanium, dissolved	7440-32-6	E421	0.0392 mg/L	0.04 mg/L	98.0	70.0	130	----
		Tungsten, dissolved	7440-33-7	E421	0.0195 mg/L	0.02 mg/L	97.6	70.0	130	----
		Uranium, dissolved	7440-61-1	E421	0.00386 mg/L	0.004 mg/L	96.6	70.0	130	----
		Vanadium, dissolved	7440-62-2	E421	0.103 mg/L	0.1 mg/L	103	70.0	130	----
		Zinc, dissolved	7440-66-6	E421	0.408 mg/L	0.4 mg/L	102	70.0	130	----
		Zirconium, dissolved	7440-67-7	E421	0.0394 mg/L	0.04 mg/L	98.6	70.0	130	----
Dissolved Metals (QCLot: 2190505)										
EO2507632-002	C1-2	Mercury, dissolved	7439-97-6	E509	0.000113 mg/L	0 mg/L	113	70.0	130	----

ALS Canada Ltd.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **EO2507632**	Page	: 1 of 42
Client	: **Sustainable Solutions Group (2SG Inc.)**	Laboratory	: ALS Environmental - Edmonton
Contact	: Ryan Van Engen	Account Manager	: Vishal Akolkar
Address	: 68 Cork St. W Guelph ON Canada NIH 2X4	Address	: 9450 - 17 Avenue NW Edmonton, Alberta Canada T6N 1M9
Telephone	: 519.710.8516	Telephone	: +1 780 413 5227
Project	: Angilak	Date Samples Received	: 28-Aug-2025 09:00
PO	: P-CA202500004399	Issue Date	: 25-Sep-2025 15:44
C-O-C number	: ----		
Sampler	: RV/LK		
Site	: ----		
Quote number	: EO24-SSGR100-001 (water)		
No. of samples received	: 18		
No. of samples analysed	: 18		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WQ19	E298	24-Aug-2025	29-Aug-2025	28 days	5 days	✓	30-Aug-2025	28 days	5 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WQ20	E298	24-Aug-2025	29-Aug-2025	28 days	5 days	✓	30-Aug-2025	28 days	5 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WQ3	E298	24-Aug-2025	29-Aug-2025	28 days	5 days	✓	30-Aug-2025	28 days	5 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WQ7	E298	24-Aug-2025	29-Aug-2025	28 days	5 days	✓	30-Aug-2025	28 days	5 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) S1	E298	23-Aug-2025	29-Aug-2025	28 days	6 days	✓	30-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WQ15	E298	23-Aug-2025	29-Aug-2025	28 days	6 days	✓	30-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WQ16	E298	23-Aug-2025	29-Aug-2025	28 days	6 days	✓	30-Aug-2025	28 days	6 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WQ17	E298	23-Aug-2025	29-Aug-2025	28 days	6 days	✓	30-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WQ8	E298	23-Aug-2025	29-Aug-2025	28 days	6 days	✓	30-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WQ1	E298	22-Aug-2025	29-Aug-2025	28 days	7 days	✓	30-Aug-2025	28 days	7 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WQ10	E298	22-Aug-2025	29-Aug-2025	28 days	7 days	✓	30-Aug-2025	28 days	7 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WQ2	E298	22-Aug-2025	29-Aug-2025	28 days	7 days	✓	30-Aug-2025	28 days	7 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WQ4	E298	22-Aug-2025	29-Aug-2025	28 days	7 days	✓	30-Aug-2025	28 days	7 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WQ9	E298	22-Aug-2025	29-Aug-2025	28 days	7 days	✓	30-Aug-2025	28 days	7 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WQ5	E298	21-Aug-2025	29-Aug-2025	28 days	8 days	✓	30-Aug-2025	28 days	8 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WQ6	E298	21-Aug-2025	29-Aug-2025	28 days	8 days	✓	30-Aug-2025	28 days	8 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	*Method*	*Sampling Date*	*Extraction / Preparation*				*Analysis*			
			Preparation Date	*Holding Times*		*Eval*	*Analysis Date*	*Holding Times*		*Eval*
				Rec	*Actual*			*Rec*	*Actual*	
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) C1-1	E298	20-Aug-2025	29-Aug-2025	28 days	9 days	✓	30-Aug-2025	28 days	9 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) C1-2	E298	20-Aug-2025	29-Aug-2025	28 days	9 days	✓	30-Aug-2025	28 days	9 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE WQ19	E235.Cl	24-Aug-2025	28-Aug-2025	28 days	4 days	✓	28-Aug-2025	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE WQ20	E235.Cl	24-Aug-2025	28-Aug-2025	28 days	4 days	✓	28-Aug-2025	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE WQ3	E235.Cl	24-Aug-2025	28-Aug-2025	28 days	4 days	✓	28-Aug-2025	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE WQ7	E235.Cl	24-Aug-2025	28-Aug-2025	28 days	4 days	✓	28-Aug-2025	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE S1	E235.Cl	23-Aug-2025	28-Aug-2025	28 days	5 days	✓	28-Aug-2025	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE WQ15	E235.Cl	23-Aug-2025	28-Aug-2025	28 days	5 days	✓	28-Aug-2025	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE WQ16	E235.Cl	23-Aug-2025	28-Aug-2025	28 days	5 days	✓	28-Aug-2025	28 days	5 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	*Method*	*Sampling Date*	*Extraction / Preparation*				*Analysis*			
			Preparation Date	*Holding Times*		*Eval*	*Analysis Date*	*Holding Times*		*Eval*
				Rec	*Actual*			*Rec*	*Actual*	
Anions and Nutrients : Chloride in Water by IC										
HDPE WQ17	E235.Cl	23-Aug-2025	28-Aug-2025	28 days	5 days	✓	28-Aug-2025	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE WQ8	E235.Cl	23-Aug-2025	28-Aug-2025	28 days	5 days	✓	28-Aug-2025	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE WQ1	E235.Cl	22-Aug-2025	28-Aug-2025	28 days	6 days	✓	28-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE WQ10	E235.Cl	22-Aug-2025	28-Aug-2025	28 days	6 days	✓	28-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE WQ2	E235.Cl	22-Aug-2025	28-Aug-2025	28 days	6 days	✓	28-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE WQ4	E235.Cl	22-Aug-2025	28-Aug-2025	28 days	6 days	✓	28-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE WQ9	E235.Cl	22-Aug-2025	28-Aug-2025	28 days	6 days	✓	28-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE WQ5	E235.Cl	21-Aug-2025	28-Aug-2025	28 days	7 days	✓	28-Aug-2025	28 days	7 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE WQ6	E235.Cl	21-Aug-2025	28-Aug-2025	28 days	7 days	✓	28-Aug-2025	28 days	7 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Chloride in Water by IC										
HDPE C1-1	E235.Cl	20-Aug-2025	28-Aug-2025	28 days	8 days	✓	28-Aug-2025	28 days	8 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE C1-2	E235.Cl	20-Aug-2025	28-Aug-2025	28 days	8 days	✓	28-Aug-2025	28 days	8 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE WQ19	E235.F	24-Aug-2025	28-Aug-2025	28 days	4 days	✓	28-Aug-2025	28 days	4 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE WQ20	E235.F	24-Aug-2025	28-Aug-2025	28 days	4 days	✓	28-Aug-2025	28 days	4 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE WQ3	E235.F	24-Aug-2025	28-Aug-2025	28 days	4 days	✓	28-Aug-2025	28 days	4 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE WQ7	E235.F	24-Aug-2025	28-Aug-2025	28 days	4 days	✓	28-Aug-2025	28 days	4 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE S1	E235.F	23-Aug-2025	28-Aug-2025	28 days	5 days	✓	28-Aug-2025	28 days	5 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE WQ15	E235.F	23-Aug-2025	28-Aug-2025	28 days	5 days	✓	28-Aug-2025	28 days	5 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE WQ16	E235.F	23-Aug-2025	28-Aug-2025	28 days	5 days	✓	28-Aug-2025	28 days	5 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	*Method*	*Sampling Date*	*Extraction / Preparation*				*Analysis*			
			Preparation Date	*Holding Times* Rec	*Holding Times* Actual	*Eval*	*Analysis Date*	*Holding Times* Rec	*Holding Times* Actual	*Eval*
Anions and Nutrients : Fluoride in Water by IC										
HDPE WQ17	E235.F	23-Aug-2025	28-Aug-2025	28 days	5 days	✓	28-Aug-2025	28 days	5 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE WQ8	E235.F	23-Aug-2025	28-Aug-2025	28 days	5 days	✓	28-Aug-2025	28 days	5 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE WQ1	E235.F	22-Aug-2025	28-Aug-2025	28 days	6 days	✓	28-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE WQ10	E235.F	22-Aug-2025	28-Aug-2025	28 days	6 days	✓	28-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE WQ2	E235.F	22-Aug-2025	28-Aug-2025	28 days	6 days	✓	28-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE WQ4	E235.F	22-Aug-2025	28-Aug-2025	28 days	6 days	✓	28-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE WQ9	E235.F	22-Aug-2025	28-Aug-2025	28 days	6 days	✓	28-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE WQ5	E235.F	21-Aug-2025	28-Aug-2025	28 days	7 days	✓	28-Aug-2025	28 days	7 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE WQ6	E235.F	21-Aug-2025	28-Aug-2025	28 days	7 days	✓	28-Aug-2025	28 days	7 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	*Method*	*Sampling Date*	*Extraction / Preparation*				*Analysis*			
			Preparation Date	*Holding Times*		*Eval*	*Analysis Date*	*Holding Times*		*Eval*
				Rec	*Actual*			*Rec*	*Actual*	
Anions and Nutrients : Fluoride in Water by IC										
HDPE C1-1	E235.F	20-Aug-2025	28-Aug-2025	28 days	8 days	✓	28-Aug-2025	28 days	8 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE C1-2	E235.F	20-Aug-2025	28-Aug-2025	28 days	8 days	✓	28-Aug-2025	28 days	8 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE WQ17	E235.NO3	23-Aug-2025	28-Aug-2025	3 days	4 days	× EHTR	28-Aug-2025	3 days	4 days	× EHTR
Anions and Nutrients : Nitrate in Water by IC										
HDPE WQ19	E235.NO3	24-Aug-2025	28-Aug-2025	3 days	4 days	× EHTR	28-Aug-2025	3 days	4 days	× EHTR
Anions and Nutrients : Nitrate in Water by IC										
HDPE WQ20	E235.NO3	24-Aug-2025	28-Aug-2025	3 days	4 days	× EHTR	28-Aug-2025	3 days	4 days	× EHTR
Anions and Nutrients : Nitrate in Water by IC										
HDPE WQ3	E235.NO3	24-Aug-2025	28-Aug-2025	3 days	4 days	× EHTR	28-Aug-2025	3 days	4 days	× EHTR
Anions and Nutrients : Nitrate in Water by IC										
HDPE WQ7	E235.NO3	24-Aug-2025	28-Aug-2025	3 days	4 days	× EHTR	28-Aug-2025	3 days	4 days	× EHTR
Anions and Nutrients : Nitrate in Water by IC										
HDPE S1	E235.NO3	23-Aug-2025	28-Aug-2025	3 days	5 days	× EHTR	28-Aug-2025	3 days	5 days	× EHTR
Anions and Nutrients : Nitrate in Water by IC										
HDPE WQ10	E235.NO3	22-Aug-2025	28-Aug-2025	3 days	5 days	× EHTR	28-Aug-2025	3 days	5 days	× EHTR

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Nitrate in Water by IC										
HDPE WQ15	E235.NO3	23-Aug-2025	28-Aug-2025	3 days	5 days	× EHTR	28-Aug-2025	3 days	5 days	× EHTR
Anions and Nutrients : Nitrate in Water by IC										
HDPE WQ16	E235.NO3	23-Aug-2025	28-Aug-2025	3 days	5 days	× EHTR	28-Aug-2025	3 days	5 days	× EHTR
Anions and Nutrients : Nitrate in Water by IC										
HDPE WQ8	E235.NO3	23-Aug-2025	28-Aug-2025	3 days	5 days	× EHTR	28-Aug-2025	3 days	5 days	× EHTR
Anions and Nutrients : Nitrate in Water by IC										
HDPE WQ9	E235.NO3	22-Aug-2025	28-Aug-2025	3 days	5 days	× EHTR	28-Aug-2025	3 days	5 days	× EHTR
Anions and Nutrients : Nitrate in Water by IC										
HDPE WQ1	E235.NO3	22-Aug-2025	28-Aug-2025	3 days	6 days	× EHTR	28-Aug-2025	3 days	6 days	× EHTR
Anions and Nutrients : Nitrate in Water by IC										
HDPE WQ2	E235.NO3	22-Aug-2025	28-Aug-2025	3 days	6 days	× EHTR	28-Aug-2025	3 days	6 days	× EHTR
Anions and Nutrients : Nitrate in Water by IC										
HDPE WQ4	E235.NO3	22-Aug-2025	28-Aug-2025	3 days	6 days	× EHTR	28-Aug-2025	3 days	6 days	× EHTR
Anions and Nutrients : Nitrate in Water by IC										
HDPE WQ5	E235.NO3	21-Aug-2025	28-Aug-2025	3 days	6 days	× EHTR	28-Aug-2025	3 days	6 days	× EHTR
Anions and Nutrients : Nitrate in Water by IC										
HDPE WQ6	E235.NO3	21-Aug-2025	28-Aug-2025	3 days	6 days	× EHTR	28-Aug-2025	3 days	6 days	× EHTR

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Nitrate in Water by IC										
HDPE C1-1	E235.NO3	20-Aug-2025	28-Aug-2025	3 days	7 days	× EHTR	28-Aug-2025	3 days	7 days	× EHTR
Anions and Nutrients : Nitrate in Water by IC										
HDPE C1-2	E235.NO3	20-Aug-2025	28-Aug-2025	3 days	7 days	× EHTR	28-Aug-2025	3 days	7 days	× EHTR
Anions and Nutrients : Nitrite in Water by IC										
HDPE WQ17	E235.NO2	23-Aug-2025	28-Aug-2025	3 days	4 days	× EHTR	28-Aug-2025	3 days	4 days	× EHTR
Anions and Nutrients : Nitrite in Water by IC										
HDPE WQ19	E235.NO2	24-Aug-2025	28-Aug-2025	3 days	4 days	× EHTR	28-Aug-2025	3 days	4 days	× EHTR
Anions and Nutrients : Nitrite in Water by IC										
HDPE WQ20	E235.NO2	24-Aug-2025	28-Aug-2025	3 days	4 days	× EHTR	28-Aug-2025	3 days	4 days	× EHTR
Anions and Nutrients : Nitrite in Water by IC										
HDPE WQ3	E235.NO2	24-Aug-2025	28-Aug-2025	3 days	4 days	× EHTR	28-Aug-2025	3 days	4 days	× EHTR
Anions and Nutrients : Nitrite in Water by IC										
HDPE WQ7	E235.NO2	24-Aug-2025	28-Aug-2025	3 days	4 days	× EHTR	28-Aug-2025	3 days	4 days	× EHTR
Anions and Nutrients : Nitrite in Water by IC										
HDPE S1	E235.NO2	23-Aug-2025	28-Aug-2025	3 days	5 days	× EHTR	28-Aug-2025	3 days	5 days	× EHTR
Anions and Nutrients : Nitrite in Water by IC										
HDPE WQ10	E235.NO2	22-Aug-2025	28-Aug-2025	3 days	5 days	× EHTR	28-Aug-2025	3 days	5 days	× EHTR

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Nitrite in Water by IC										
HDPE WQ15	E235.NO2	23-Aug-2025	28-Aug-2025	3 days	5 days	× EHTR	28-Aug-2025	3 days	5 days	× EHTR
Anions and Nutrients : Nitrite in Water by IC										
HDPE WQ16	E235.NO2	23-Aug-2025	28-Aug-2025	3 days	5 days	× EHTR	28-Aug-2025	3 days	5 days	× EHTR
Anions and Nutrients : Nitrite in Water by IC										
HDPE WQ8	E235.NO2	23-Aug-2025	28-Aug-2025	3 days	5 days	× EHTR	28-Aug-2025	3 days	5 days	× EHTR
Anions and Nutrients : Nitrite in Water by IC										
HDPE WQ9	E235.NO2	22-Aug-2025	28-Aug-2025	3 days	5 days	× EHTR	28-Aug-2025	3 days	5 days	× EHTR
Anions and Nutrients : Nitrite in Water by IC										
HDPE WQ1	E235.NO2	22-Aug-2025	28-Aug-2025	3 days	6 days	× EHTR	28-Aug-2025	3 days	6 days	× EHTR
Anions and Nutrients : Nitrite in Water by IC										
HDPE WQ2	E235.NO2	22-Aug-2025	28-Aug-2025	3 days	6 days	× EHTR	28-Aug-2025	3 days	6 days	× EHTR
Anions and Nutrients : Nitrite in Water by IC										
HDPE WQ4	E235.NO2	22-Aug-2025	28-Aug-2025	3 days	6 days	× EHTR	28-Aug-2025	3 days	6 days	× EHTR
Anions and Nutrients : Nitrite in Water by IC										
HDPE WQ5	E235.NO2	21-Aug-2025	28-Aug-2025	3 days	6 days	× EHTR	28-Aug-2025	3 days	6 days	× EHTR
Anions and Nutrients : Nitrite in Water by IC										
HDPE WQ6	E235.NO2	21-Aug-2025	28-Aug-2025	3 days	6 days	× EHTR	28-Aug-2025	3 days	6 days	× EHTR

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Nitrite in Water by IC										
HDPE C1-1	E235.NO2	20-Aug-2025	28-Aug-2025	3 days	7 days	× EHTR	28-Aug-2025	3 days	7 days	× EHTR
Anions and Nutrients : Nitrite in Water by IC										
HDPE C1-2	E235.NO2	20-Aug-2025	28-Aug-2025	3 days	7 days	× EHTR	28-Aug-2025	3 days	7 days	× EHTR
Anions and Nutrients : Sulfate in Water by IC										
HDPE WQ19	E235.SO4	24-Aug-2025	28-Aug-2025	28 days	4 days	✓	28-Aug-2025	28 days	4 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE WQ20	E235.SO4	24-Aug-2025	28-Aug-2025	28 days	4 days	✓	28-Aug-2025	28 days	4 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE WQ3	E235.SO4	24-Aug-2025	28-Aug-2025	28 days	4 days	✓	28-Aug-2025	28 days	4 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE WQ7	E235.SO4	24-Aug-2025	28-Aug-2025	28 days	4 days	✓	28-Aug-2025	28 days	4 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE S1	E235.SO4	23-Aug-2025	28-Aug-2025	28 days	5 days	✓	28-Aug-2025	28 days	5 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE WQ15	E235.SO4	23-Aug-2025	28-Aug-2025	28 days	5 days	✓	28-Aug-2025	28 days	5 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE WQ16	E235.SO4	23-Aug-2025	28-Aug-2025	28 days	5 days	✓	28-Aug-2025	28 days	5 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	*Method*	*Sampling Date*	*Extraction / Preparation*				*Analysis*			
			Preparation Date	*Holding Times* Rec	*Holding Times* Actual	*Eval*	*Analysis Date*	*Holding Times* Rec	*Holding Times* Actual	*Eval*
Anions and Nutrients : Sulfate in Water by IC										
HDPE WQ17	E235.SO4	23-Aug-2025	28-Aug-2025	28 days	5 days	✓	28-Aug-2025	28 days	5 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE WQ8	E235.SO4	23-Aug-2025	28-Aug-2025	28 days	5 days	✓	28-Aug-2025	28 days	5 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE WQ1	E235.SO4	22-Aug-2025	28-Aug-2025	28 days	6 days	✓	28-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE WQ10	E235.SO4	22-Aug-2025	28-Aug-2025	28 days	6 days	✓	28-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE WQ2	E235.SO4	22-Aug-2025	28-Aug-2025	28 days	6 days	✓	28-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE WQ4	E235.SO4	22-Aug-2025	28-Aug-2025	28 days	6 days	✓	28-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE WQ9	E235.SO4	22-Aug-2025	28-Aug-2025	28 days	6 days	✓	28-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE WQ5	E235.SO4	21-Aug-2025	28-Aug-2025	28 days	7 days	✓	28-Aug-2025	28 days	7 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE WQ6	E235.SO4	21-Aug-2025	28-Aug-2025	28 days	7 days	✓	28-Aug-2025	28 days	7 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Sulfate in Water by IC										
HDPE C1-1	E235.SO4	20-Aug-2025	28-Aug-2025	28 days	8 days	✓	28-Aug-2025	28 days	8 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE C1-2	E235.SO4	20-Aug-2025	28-Aug-2025	28 days	8 days	✓	28-Aug-2025	28 days	8 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) WQ19	E372-U	24-Aug-2025	03-Sep-2025	28 days	10 days	✓	03-Sep-2025	28 days	10 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) WQ20	E372-U	24-Aug-2025	03-Sep-2025	28 days	10 days	✓	03-Sep-2025	28 days	10 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) WQ3	E372-U	24-Aug-2025	03-Sep-2025	28 days	10 days	✓	03-Sep-2025	28 days	10 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) WQ7	E372-U	24-Aug-2025	03-Sep-2025	28 days	10 days	✓	03-Sep-2025	28 days	10 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) S1	E372-U	23-Aug-2025	03-Sep-2025	28 days	11 days	✓	03-Sep-2025	28 days	11 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) WQ15	E372-U	23-Aug-2025	03-Sep-2025	28 days	11 days	✓	03-Sep-2025	28 days	11 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) WQ16	E372-U	23-Aug-2025	03-Sep-2025	28 days	11 days	✓	03-Sep-2025	28 days	11 days	✓

Matrix: **Water**

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) WQ17	E372-U	23-Aug-2025	03-Sep-2025	28 days	11 days	✓	03-Sep-2025	28 days	11 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) WQ8	E372-U	23-Aug-2025	03-Sep-2025	28 days	11 days	✓	03-Sep-2025	28 days	11 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) WQ1	E372-U	22-Aug-2025	03-Sep-2025	28 days	12 days	✓	03-Sep-2025	28 days	12 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) WQ10	E372-U	22-Aug-2025	03-Sep-2025	28 days	12 days	✓	03-Sep-2025	28 days	12 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) WQ2	E372-U	22-Aug-2025	03-Sep-2025	28 days	12 days	✓	03-Sep-2025	28 days	12 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) WQ4	E372-U	22-Aug-2025	03-Sep-2025	28 days	12 days	✓	03-Sep-2025	28 days	12 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) WQ9	E372-U	22-Aug-2025	03-Sep-2025	28 days	12 days	✓	03-Sep-2025	28 days	12 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) WQ5	E372-U	21-Aug-2025	03-Sep-2025	28 days	13 days	✓	03-Sep-2025	28 days	13 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) WQ6	E372-U	21-Aug-2025	03-Sep-2025	28 days	13 days	✓	03-Sep-2025	28 days	13 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	*Method*	*Sampling Date*	*Extraction / Preparation*				*Analysis*			
			Preparation Date	*Holding Times*		*Eval*	*Analysis Date*	*Holding Times*		*Eval*
				Rec	*Actual*			*Rec*	*Actual*	
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) C1-1	E372-U	20-Aug-2025	03-Sep-2025	28 days	14 days	✓	03-Sep-2025	28 days	14 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) C1-2	E372-U	20-Aug-2025	03-Sep-2025	28 days	14 days	✓	03-Sep-2025	28 days	14 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) WQ19	E509	24-Aug-2025	29-Aug-2025	28 days	5 days	✓	29-Aug-2025	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) WQ20	E509	24-Aug-2025	29-Aug-2025	28 days	5 days	✓	29-Aug-2025	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) WQ3	E509	24-Aug-2025	29-Aug-2025	28 days	5 days	✓	29-Aug-2025	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) WQ7	E509	24-Aug-2025	29-Aug-2025	28 days	5 days	✓	29-Aug-2025	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) S1	E509	23-Aug-2025	29-Aug-2025	28 days	6 days	✓	29-Aug-2025	28 days	6 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) WQ15	E509	23-Aug-2025	29-Aug-2025	28 days	6 days	✓	29-Aug-2025	28 days	6 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) WQ16	E509	23-Aug-2025	29-Aug-2025	28 days	6 days	✓	29-Aug-2025	28 days	6 days	✓

Matrix: **Water**

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
WQ17	E509	23-Aug-2025	29-Aug-2025	28 days	6 days	✓	29-Aug-2025	28 days	6 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
WQ8	E509	23-Aug-2025	29-Aug-2025	28 days	6 days	✓	29-Aug-2025	28 days	6 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
WQ1	E509	22-Aug-2025	29-Aug-2025	28 days	7 days	✓	29-Aug-2025	28 days	7 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
WQ10	E509	22-Aug-2025	29-Aug-2025	28 days	7 days	✓	29-Aug-2025	28 days	7 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
WQ2	E509	22-Aug-2025	29-Aug-2025	28 days	7 days	✓	29-Aug-2025	28 days	7 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
WQ4	E509	22-Aug-2025	29-Aug-2025	28 days	7 days	✓	29-Aug-2025	28 days	7 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
WQ9	E509	22-Aug-2025	29-Aug-2025	28 days	7 days	✓	29-Aug-2025	28 days	7 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
WQ5	E509	21-Aug-2025	29-Aug-2025	28 days	8 days	✓	29-Aug-2025	28 days	8 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
WQ6	E509	21-Aug-2025	29-Aug-2025	28 days	8 days	✓	29-Aug-2025	28 days	8 days	✓

Matrix: **Water**

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) C1-1	E509	20-Aug-2025	29-Aug-2025	28 days	9 days	✓	29-Aug-2025	28 days	9 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) C1-2	E509	20-Aug-2025	29-Aug-2025	28 days	9 days	✓	29-Aug-2025	28 days	9 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) WQ19	E421	24-Aug-2025	29-Aug-2025	180 days	5 days	✓	29-Aug-2025	180 days	5 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) WQ20	E421	24-Aug-2025	29-Aug-2025	180 days	5 days	✓	29-Aug-2025	180 days	5 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) WQ3	E421	24-Aug-2025	29-Aug-2025	180 days	5 days	✓	29-Aug-2025	180 days	5 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) WQ7	E421	24-Aug-2025	29-Aug-2025	180 days	5 days	✓	29-Aug-2025	180 days	5 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) S1	E421	23-Aug-2025	29-Aug-2025	180 days	6 days	✓	29-Aug-2025	180 days	6 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) WQ15	E421	23-Aug-2025	29-Aug-2025	180 days	6 days	✓	29-Aug-2025	180 days	6 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) WQ16	E421	23-Aug-2025	29-Aug-2025	180 days	6 days	✓	29-Aug-2025	180 days	6 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	*Method*	*Sampling Date*	*Extraction / Preparation*				*Analysis*			
			Preparation Date	*Holding Times*		*Eval*	*Analysis Date*	*Holding Times*		*Eval*
				Rec	*Actual*			*Rec*	*Actual*	
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) WQ17	E421	23-Aug-2025	29-Aug-2025	180 days	6 days	✓	29-Aug-2025	180 days	6 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) WQ8	E421	23-Aug-2025	29-Aug-2025	180 days	6 days	✓	29-Aug-2025	180 days	6 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) WQ1	E421	22-Aug-2025	29-Aug-2025	180 days	7 days	✓	29-Aug-2025	180 days	7 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) WQ10	E421	22-Aug-2025	29-Aug-2025	180 days	7 days	✓	29-Aug-2025	180 days	7 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) WQ2	E421	22-Aug-2025	29-Aug-2025	180 days	7 days	✓	29-Aug-2025	180 days	7 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) WQ4	E421	22-Aug-2025	29-Aug-2025	180 days	7 days	✓	29-Aug-2025	180 days	7 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) WQ9	E421	22-Aug-2025	29-Aug-2025	180 days	7 days	✓	29-Aug-2025	180 days	7 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) WQ5	E421	21-Aug-2025	29-Aug-2025	180 days	8 days	✓	29-Aug-2025	180 days	8 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) WQ6	E421	21-Aug-2025	29-Aug-2025	180 days	8 days	✓	29-Aug-2025	180 days	8 days	✓

Matrix: **Water**

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
C1-1	E421	20-Aug-2025	29-Aug-2025	180 days	9 days	✓	29-Aug-2025	180 days	9 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
C1-2	E421	20-Aug-2025	29-Aug-2025	180 days	9 days	✓	29-Aug-2025	180 days	9 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE										
WQ19	E290	24-Aug-2025	28-Aug-2025	14 days	4 days	✓	29-Aug-2025	14 days	4 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE										
WQ20	E290	24-Aug-2025	28-Aug-2025	14 days	4 days	✓	29-Aug-2025	14 days	4 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE										
WQ3	E290	24-Aug-2025	28-Aug-2025	14 days	4 days	✓	29-Aug-2025	14 days	4 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE										
WQ7	E290	24-Aug-2025	28-Aug-2025	14 days	4 days	✓	29-Aug-2025	14 days	4 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE										
S1	E290	23-Aug-2025	28-Aug-2025	14 days	5 days	✓	29-Aug-2025	14 days	5 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE										
WQ15	E290	23-Aug-2025	28-Aug-2025	14 days	5 days	✓	29-Aug-2025	14 days	5 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE										
WQ16	E290	23-Aug-2025	28-Aug-2025	14 days	5 days	✓	29-Aug-2025	14 days	5 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	*Method*	*Sampling Date*	*Extraction / Preparation*				*Analysis*			
			Preparation Date	*Holding Times*		*Eval*	*Analysis Date*	*Holding Times*		*Eval*
				Rec	*Actual*			*Rec*	*Actual*	
Physical Tests : Alkalinity Species by Titration										
HDPE WQ17	E290	23-Aug-2025	28-Aug-2025	14 days	5 days	✓	29-Aug-2025	14 days	5 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE WQ8	E290	23-Aug-2025	28-Aug-2025	14 days	5 days	✓	29-Aug-2025	14 days	5 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE WQ1	E290	22-Aug-2025	28-Aug-2025	14 days	6 days	✓	29-Aug-2025	14 days	6 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE WQ10	E290	22-Aug-2025	28-Aug-2025	14 days	6 days	✓	29-Aug-2025	14 days	6 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE WQ2	E290	22-Aug-2025	28-Aug-2025	14 days	6 days	✓	29-Aug-2025	14 days	6 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE WQ4	E290	22-Aug-2025	28-Aug-2025	14 days	6 days	✓	29-Aug-2025	14 days	6 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE WQ9	E290	22-Aug-2025	28-Aug-2025	14 days	6 days	✓	29-Aug-2025	14 days	6 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE WQ5	E290	21-Aug-2025	28-Aug-2025	14 days	7 days	✓	29-Aug-2025	14 days	7 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE WQ6	E290	21-Aug-2025	28-Aug-2025	14 days	7 days	✓	29-Aug-2025	14 days	7 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Alkalinity Species by Titration										
HDPE C1-1	E290	20-Aug-2025	28-Aug-2025	14 days	8 days	✓	29-Aug-2025	14 days	8 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE C1-2	E290	20-Aug-2025	28-Aug-2025	14 days	8 days	✓	29-Aug-2025	14 days	8 days	✓
Physical Tests : Conductivity in Water										
HDPE WQ19	E100	24-Aug-2025	28-Aug-2025	28 days	4 days	✓	29-Aug-2025	28 days	4 days	✓
Physical Tests : Conductivity in Water										
HDPE WQ20	E100	24-Aug-2025	28-Aug-2025	28 days	4 days	✓	29-Aug-2025	28 days	4 days	✓
Physical Tests : Conductivity in Water										
HDPE WQ3	E100	24-Aug-2025	28-Aug-2025	28 days	4 days	✓	29-Aug-2025	28 days	4 days	✓
Physical Tests : Conductivity in Water										
HDPE WQ7	E100	24-Aug-2025	28-Aug-2025	28 days	4 days	✓	29-Aug-2025	28 days	4 days	✓
Physical Tests : Conductivity in Water										
HDPE S1	E100	23-Aug-2025	28-Aug-2025	28 days	5 days	✓	29-Aug-2025	28 days	5 days	✓
Physical Tests : Conductivity in Water										
HDPE WQ15	E100	23-Aug-2025	28-Aug-2025	28 days	5 days	✓	29-Aug-2025	28 days	5 days	✓
Physical Tests : Conductivity in Water										
HDPE WQ16	E100	23-Aug-2025	28-Aug-2025	28 days	5 days	✓	29-Aug-2025	28 days	5 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Conductivity in Water										
HDPE WQ17	E100	23-Aug-2025	28-Aug-2025	28 days	5 days	✓	29-Aug-2025	28 days	5 days	✓
Physical Tests : Conductivity in Water										
HDPE WQ8	E100	23-Aug-2025	28-Aug-2025	28 days	5 days	✓	29-Aug-2025	28 days	5 days	✓
Physical Tests : Conductivity in Water										
HDPE WQ1	E100	22-Aug-2025	28-Aug-2025	28 days	6 days	✓	29-Aug-2025	28 days	6 days	✓
Physical Tests : Conductivity in Water										
HDPE WQ10	E100	22-Aug-2025	28-Aug-2025	28 days	6 days	✓	29-Aug-2025	28 days	6 days	✓
Physical Tests : Conductivity in Water										
HDPE WQ2	E100	22-Aug-2025	28-Aug-2025	28 days	6 days	✓	29-Aug-2025	28 days	6 days	✓
Physical Tests : Conductivity in Water										
HDPE WQ4	E100	22-Aug-2025	28-Aug-2025	28 days	6 days	✓	29-Aug-2025	28 days	6 days	✓
Physical Tests : Conductivity in Water										
HDPE WQ9	E100	22-Aug-2025	28-Aug-2025	28 days	6 days	✓	29-Aug-2025	28 days	6 days	✓
Physical Tests : Conductivity in Water										
HDPE WQ5	E100	21-Aug-2025	28-Aug-2025	28 days	7 days	✓	29-Aug-2025	28 days	7 days	✓
Physical Tests : Conductivity in Water										
HDPE WQ6	E100	21-Aug-2025	28-Aug-2025	28 days	7 days	✓	29-Aug-2025	28 days	7 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Conductivity in Water										
HDPE C1-1	E100	20-Aug-2025	28-Aug-2025	28 days	8 days	✓	29-Aug-2025	28 days	8 days	✓
Physical Tests : Conductivity in Water										
HDPE C1-2	E100	20-Aug-2025	28-Aug-2025	28 days	8 days	✓	29-Aug-2025	28 days	8 days	✓
Physical Tests : pH by Meter										
HDPE WQ19	E108	24-Aug-2025	28-Aug-2025	0.25 hrs	101 hrs	× EHTR-FM	29-Aug-2025	0.25 hrs	101 hrs	× EHTR-FM
Physical Tests : pH by Meter										
HDPE WQ3	E108	24-Aug-2025	28-Aug-2025	0.25 hrs	102 hrs	× EHTR-FM	29-Aug-2025	0.25 hrs	102 hrs	× EHTR-FM
Physical Tests : pH by Meter										
HDPE WQ17	E108	23-Aug-2025	28-Aug-2025	0.25 hrs	119 hrs	× EHTR-FM	29-Aug-2025	0.25 hrs	119 hrs	× EHTR-FM
Physical Tests : pH by Meter										
HDPE WQ15	E108	23-Aug-2025	28-Aug-2025	0.25 hrs	122 hrs	× EHTR-FM	29-Aug-2025	0.25 hrs	122 hrs	× EHTR-FM
Physical Tests : pH by Meter										
HDPE WQ16	E108	23-Aug-2025	28-Aug-2025	0.25 hrs	123 hrs	× EHTR-FM	29-Aug-2025	0.25 hrs	123 hrs	× EHTR-FM
Physical Tests : pH by Meter										
HDPE S1	E108	23-Aug-2025	28-Aug-2025	0.25 hrs	125 hrs	× EHTR-FM	29-Aug-2025	0.25 hrs	125 hrs	× EHTR-FM
Physical Tests : pH by Meter										
HDPE WQ8	E108	23-Aug-2025	28-Aug-2025	0.25 hrs	126 hrs	× EHTR-FM	29-Aug-2025	0.25 hrs	126 hrs	× EHTR-FM

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : pH by Meter										
HDPE WQ9	E108	22-Aug-2025	28-Aug-2025	0.25 hrs	144 hrs	× EHTR-FM	29-Aug-2025	0.25 hrs	144 hrs	× EHTR-FM
Physical Tests : pH by Meter										
HDPE WQ10	E108	22-Aug-2025	28-Aug-2025	0.25 hrs	145 hrs	× EHTR-FM	29-Aug-2025	0.25 hrs	145 hrs	× EHTR-FM
Physical Tests : pH by Meter										
HDPE WQ4	E108	22-Aug-2025	28-Aug-2025	0.25 hrs	146 hrs	× EHTR-FM	29-Aug-2025	0.25 hrs	146 hrs	× EHTR-FM
Physical Tests : pH by Meter										
HDPE WQ2	E108	22-Aug-2025	28-Aug-2025	0.25 hrs	148 hrs	× EHTR-FM	29-Aug-2025	0.25 hrs	148 hrs	× EHTR-FM
Physical Tests : pH by Meter										
HDPE WQ1	E108	22-Aug-2025	28-Aug-2025	0.25 hrs	150 hrs	× EHTR-FM	29-Aug-2025	0.25 hrs	150 hrs	× EHTR-FM
Physical Tests : pH by Meter										
HDPE WQ5	E108	21-Aug-2025	28-Aug-2025	0.25 hrs	165 hrs	× EHTR-FM	29-Aug-2025	0.25 hrs	165 hrs	× EHTR-FM
Physical Tests : pH by Meter										
HDPE WQ6	E108	21-Aug-2025	28-Aug-2025	0.25 hrs	166 hrs	× EHTR-FM	29-Aug-2025	0.25 hrs	166 hrs	× EHTR-FM
Physical Tests : pH by Meter										
HDPE C1-2	E108	20-Aug-2025	28-Aug-2025	0.25 hrs	191 hrs	× EHTR-FM	29-Aug-2025	0.25 hrs	191 hrs	× EHTR-FM
Physical Tests : pH by Meter										
HDPE C1-1	E108	20-Aug-2025	28-Aug-2025	0.25 hrs	193 hrs	× EHTR-FM	29-Aug-2025	0.25 hrs	193 hrs	× EHTR-FM

Matrix: **Water**

Evaluation: ✗ = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : pH by Meter										
HDPE WQ7	E108	24-Aug-2025	28-Aug-2025	0.25 hrs	97 hrs	✗ EHTR-FM	29-Aug-2025	0.25 hrs	97 hrs	✗ EHTR-FM
Physical Tests : pH by Meter										
HDPE WQ20	E108	24-Aug-2025	28-Aug-2025	0.25 hrs	98 hrs	✗ EHTR-FM	29-Aug-2025	0.25 hrs	98 hrs	✗ EHTR-FM
Physical Tests : TDS by Gravimetry										
HDPE C1-1	E162	20-Aug-2025	----	----	----		30-Aug-2025	7 days	10 days	✗ EHTR
Physical Tests : TDS by Gravimetry										
HDPE C1-2	E162	20-Aug-2025	----	----	----		30-Aug-2025	7 days	10 days	✗ EHTR
Physical Tests : TDS by Gravimetry										
HDPE WQ15	E162	23-Aug-2025	----	----	----		02-Sep-2025	7 days	10 days	✗ EHT
Physical Tests : TDS by Gravimetry										
HDPE WQ17	E162	23-Aug-2025	----	----	----		02-Sep-2025	7 days	10 days	✗ EHT
Physical Tests : TDS by Gravimetry										
HDPE S1	E162	23-Aug-2025	----	----	----		30-Aug-2025	7 days	7 days	✓
Physical Tests : TDS by Gravimetry										
HDPE WQ16	E162	23-Aug-2025	----	----	----		30-Aug-2025	7 days	7 days	✓
Physical Tests : TDS by Gravimetry										
HDPE WQ8	E162	23-Aug-2025	----	----	----		30-Aug-2025	7 days	7 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : TDS by Gravimetry										
HDPE WQ1	E162	22-Aug-2025	----	----	----		30-Aug-2025	7 days	8 days	× EHT
Physical Tests : TDS by Gravimetry										
HDPE WQ10	E162	22-Aug-2025	----	----	----		30-Aug-2025	7 days	8 days	× EHT
Physical Tests : TDS by Gravimetry										
HDPE WQ2	E162	22-Aug-2025	----	----	----		30-Aug-2025	7 days	8 days	× EHT
Physical Tests : TDS by Gravimetry										
HDPE WQ4	E162	22-Aug-2025	----	----	----		30-Aug-2025	7 days	8 days	× EHT
Physical Tests : TDS by Gravimetry										
HDPE WQ9	E162	22-Aug-2025	----	----	----		30-Aug-2025	7 days	8 days	× EHT
Physical Tests : TDS by Gravimetry										
HDPE WQ5	E162	21-Aug-2025	----	----	----		30-Aug-2025	7 days	9 days	× EHTL
Physical Tests : TDS by Gravimetry										
HDPE WQ6	E162	21-Aug-2025	----	----	----		30-Aug-2025	7 days	9 days	× EHTL
Physical Tests : TDS by Gravimetry										
HDPE WQ19	E162	24-Aug-2025	----	----	----		02-Sep-2025	7 days	9 days	× EHT
Physical Tests : TDS by Gravimetry										
HDPE WQ20	E162	24-Aug-2025	----	----	----		02-Sep-2025	7 days	9 days	× EHT

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : TDS by Gravimetry										
HDPE WQ3	E162	24-Aug-2025	----	----	----		02-Sep-2025	7 days	9 days	× EHT
Physical Tests : TDS by Gravimetry										
HDPE WQ7	E162	24-Aug-2025	----	----	----		02-Sep-2025	7 days	9 days	× EHT
Physical Tests : TSS by Gravimetry										
HDPE WQ19	E160	24-Aug-2025	----	----	----		29-Aug-2025	7 days	5 days	✓
Physical Tests : TSS by Gravimetry										
HDPE WQ20	E160	24-Aug-2025	----	----	----		29-Aug-2025	7 days	5 days	✓
Physical Tests : TSS by Gravimetry										
HDPE WQ3	E160	24-Aug-2025	----	----	----		29-Aug-2025	7 days	5 days	✓
Physical Tests : TSS by Gravimetry										
HDPE WQ7	E160	24-Aug-2025	----	----	----		29-Aug-2025	7 days	5 days	✓
Physical Tests : TSS by Gravimetry										
HDPE S1	E160	23-Aug-2025	----	----	----		29-Aug-2025	7 days	6 days	✓
Physical Tests : TSS by Gravimetry										
HDPE WQ15	E160	23-Aug-2025	----	----	----		29-Aug-2025	7 days	6 days	✓
Physical Tests : TSS by Gravimetry										
HDPE WQ16	E160	23-Aug-2025	----	----	----		29-Aug-2025	7 days	6 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : TSS by Gravimetry										
HDPE WQ17	E160	23-Aug-2025	----	----	----		29-Aug-2025	7 days	6 days	✓
Physical Tests : TSS by Gravimetry										
HDPE WQ8	E160	23-Aug-2025	----	----	----		29-Aug-2025	7 days	6 days	✓
Physical Tests : TSS by Gravimetry										
HDPE WQ1	E160	22-Aug-2025	----	----	----		29-Aug-2025	7 days	7 days	✓
Physical Tests : TSS by Gravimetry										
HDPE WQ10	E160	22-Aug-2025	----	----	----		29-Aug-2025	7 days	7 days	✓
Physical Tests : TSS by Gravimetry										
HDPE WQ2	E160	22-Aug-2025	----	----	----		29-Aug-2025	7 days	7 days	✓
Physical Tests : TSS by Gravimetry										
HDPE WQ4	E160	22-Aug-2025	----	----	----		29-Aug-2025	7 days	7 days	✓
Physical Tests : TSS by Gravimetry										
HDPE WQ9	E160	22-Aug-2025	----	----	----		29-Aug-2025	7 days	7 days	✓
Physical Tests : TSS by Gravimetry										
HDPE WQ5	E160	21-Aug-2025	----	----	----		29-Aug-2025	7 days	8 days	× EHTL
Physical Tests : TSS by Gravimetry										
HDPE WQ6	E160	21-Aug-2025	----	----	----		29-Aug-2025	7 days	8 days	× EHTL

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : TSS by Gravimetry										
HDPE C1-1	E160	20-Aug-2025	----	----	----		29-Aug-2025	7 days	9 days	× EHTR
Physical Tests : TSS by Gravimetry										
HDPE C1-2	E160	20-Aug-2025	----	----	----		29-Aug-2025	7 days	9 days	× EHTR
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE (lab preserved) C1-1	Ra-226	20-Aug-2025	----	----	----		12-Sep-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE (lab preserved) C1-2	Ra-226	20-Aug-2025	----	----	----		12-Sep-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE (lab preserved) S1	Ra-226	23-Aug-2025	----	----	----		12-Sep-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE (lab preserved) WQ1	Ra-226	22-Aug-2025	----	----	----		12-Sep-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE (lab preserved) WQ10	Ra-226	22-Aug-2025	----	----	----		12-Sep-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE (lab preserved) WQ15	Ra-226	23-Aug-2025	----	----	----		12-Sep-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE (lab preserved) WQ16	Ra-226	23-Aug-2025	----	----	----		12-Sep-2025	----	----	

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE (lab preserved) WQ17	Ra-226	23-Aug-2025	----	----	----		12-Sep-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE (lab preserved) WQ19	Ra-226	24-Aug-2025	----	----	----		12-Sep-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE (lab preserved) WQ2	Ra-226	22-Aug-2025	----	----	----		12-Sep-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE (lab preserved) WQ20	Ra-226	24-Aug-2025	----	----	----		12-Sep-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE (lab preserved) WQ3	Ra-226	24-Aug-2025	----	----	----		12-Sep-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE (lab preserved) WQ4	Ra-226	22-Aug-2025	----	----	----		12-Sep-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE (lab preserved) WQ5	Ra-226	21-Aug-2025	----	----	----		12-Sep-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE (lab preserved) WQ6	Ra-226	21-Aug-2025	----	----	----		12-Sep-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE (lab preserved) WQ7	Ra-226	24-Aug-2025	----	----	----		12-Sep-2025	----	----	

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE (lab preserved) WQ8	Ra-226	23-Aug-2025	----	----	----		12-Sep-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE (lab preserved) WQ9	Ra-226	22-Aug-2025	----	----	----		12-Sep-2025	----	----	
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) WQ19	E508	24-Aug-2025	28-Aug-2025	28 days	4 days	✓	28-Aug-2025	28 days	4 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) WQ20	E508	24-Aug-2025	28-Aug-2025	28 days	4 days	✓	28-Aug-2025	28 days	4 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) WQ3	E508	24-Aug-2025	28-Aug-2025	28 days	4 days	✓	28-Aug-2025	28 days	4 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) WQ7	E508	24-Aug-2025	28-Aug-2025	28 days	4 days	✓	28-Aug-2025	28 days	4 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) S1	E508	23-Aug-2025	28-Aug-2025	28 days	5 days	✓	28-Aug-2025	28 days	5 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) WQ15	E508	23-Aug-2025	28-Aug-2025	28 days	5 days	✓	28-Aug-2025	28 days	5 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) WQ16	E508	23-Aug-2025	28-Aug-2025	28 days	5 days	✓	28-Aug-2025	28 days	5 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	*Method*	*Sampling Date*	*Extraction / Preparation*				*Analysis*			
			Preparation Date	*Holding Times*		*Eval*	*Analysis Date*	*Holding Times*		*Eval*
				Rec	*Actual*			*Rec*	*Actual*	
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) WQ17	E508	23-Aug-2025	28-Aug-2025	28 days	5 days	✓	28-Aug-2025	28 days	5 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) WQ8	E508	23-Aug-2025	28-Aug-2025	28 days	5 days	✓	28-Aug-2025	28 days	5 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) WQ1	E508	22-Aug-2025	28-Aug-2025	28 days	6 days	✓	28-Aug-2025	28 days	6 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) WQ10	E508	22-Aug-2025	28-Aug-2025	28 days	6 days	✓	28-Aug-2025	28 days	6 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) WQ2	E508	22-Aug-2025	28-Aug-2025	28 days	6 days	✓	28-Aug-2025	28 days	6 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) WQ4	E508	22-Aug-2025	28-Aug-2025	28 days	6 days	✓	28-Aug-2025	28 days	6 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) WQ9	E508	22-Aug-2025	28-Aug-2025	28 days	6 days	✓	28-Aug-2025	28 days	6 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) WQ5	E508	21-Aug-2025	28-Aug-2025	28 days	7 days	✓	28-Aug-2025	28 days	7 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) WQ6	E508	21-Aug-2025	28-Aug-2025	28 days	7 days	✓	28-Aug-2025	28 days	7 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)										
C1-1	E508	20-Aug-2025	28-Aug-2025	28 days	8 days	✓	28-Aug-2025	28 days	8 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)										
C1-2	E508	20-Aug-2025	28-Aug-2025	28 days	8 days	✓	28-Aug-2025	28 days	8 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)										
WQ19	E420	24-Aug-2025	29-Aug-2025	180 days	5 days	✓	29-Aug-2025	180 days	5 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)										
WQ20	E420	24-Aug-2025	29-Aug-2025	180 days	5 days	✓	29-Aug-2025	180 days	5 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)										
WQ3	E420	24-Aug-2025	29-Aug-2025	180 days	5 days	✓	29-Aug-2025	180 days	5 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)										
WQ7	E420	24-Aug-2025	29-Aug-2025	180 days	5 days	✓	29-Aug-2025	180 days	5 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)										
S1	E420	23-Aug-2025	29-Aug-2025	180 days	6 days	✓	29-Aug-2025	180 days	6 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)										
WQ15	E420	23-Aug-2025	29-Aug-2025	180 days	6 days	✓	29-Aug-2025	180 days	6 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)										
WQ16	E420	23-Aug-2025	29-Aug-2025	180 days	6 days	✓	29-Aug-2025	180 days	6 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) WQ17	E420	23-Aug-2025	29-Aug-2025	180 days	6 days	✓	29-Aug-2025	180 days	6 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) WQ8	E420	23-Aug-2025	29-Aug-2025	180 days	6 days	✓	29-Aug-2025	180 days	6 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) WQ1	E420	22-Aug-2025	29-Aug-2025	180 days	7 days	✓	29-Aug-2025	180 days	7 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) WQ10	E420	22-Aug-2025	29-Aug-2025	180 days	7 days	✓	29-Aug-2025	180 days	7 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) WQ2	E420	22-Aug-2025	29-Aug-2025	180 days	7 days	✓	29-Aug-2025	180 days	7 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) WQ4	E420	22-Aug-2025	29-Aug-2025	180 days	7 days	✓	29-Aug-2025	180 days	7 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) WQ9	E420	22-Aug-2025	29-Aug-2025	180 days	7 days	✓	29-Aug-2025	180 days	7 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) WQ5	E420	21-Aug-2025	29-Aug-2025	180 days	8 days	✓	29-Aug-2025	180 days	8 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) WQ6	E420	21-Aug-2025	29-Aug-2025	180 days	8 days	✓	29-Aug-2025	180 days	8 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)										
C1-1	E420	20-Aug-2025	29-Aug-2025	180 days	9 days	✓	29-Aug-2025	180 days	9 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)										
C1-2	E420	20-Aug-2025	29-Aug-2025	180 days	9 days	✓	29-Aug-2025	180 days	9 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water**

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
Conductivity in Water	E100	2188549	2	36	5.5	5.0	✓
pH by Meter	E108	2188548	2	36	5.5	5.0	✓
TSS by Gravimetry	E160	2189859	2	40	5.0	5.0	✓
TDS by Gravimetry	E162	2188450	2	40	5.0	5.0	✓
Chloride in Water by IC	E235.Cl	2188389	2	35	5.7	5.0	✓
Fluoride in Water by IC	E235.F	2188388	2	38	5.2	5.0	✓
Nitrite in Water by IC	E235.NO2	2188387	2	38	5.2	5.0	✓
Nitrate in Water by IC	E235.NO3	2188386	2	40	5.0	5.0	✓
Sulfate in Water by IC	E235.SO4	2188385	2	40	5.0	5.0	✓
Alkalinity Species by Titration	E290	2188550	2	36	5.5	5.0	✓
Ammonia by Fluorescence	E298	2188688	2	40	5.0	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2196466	2	32	6.2	5.0	✓
Total Metals in Water by CRC ICPMS	E420	2189856	2	24	8.3	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	2189905	2	40	5.0	5.0	✓
Total Mercury in Water by CVAAS	E508	2188308	2	40	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	2190505	1	20	5.0	5.0	✓
Laboratory Control Samples (LCS)							
Conductivity in Water	E100	2188549	2	36	5.5	5.0	✓
pH by Meter	E108	2188548	2	36	5.5	5.0	✓
TSS by Gravimetry	E160	2189859	2	40	5.0	5.0	✓
TDS by Gravimetry	E162	2188450	2	40	5.0	5.0	✓
Chloride in Water by IC	E235.Cl	2188389	2	35	5.7	5.0	✓
Fluoride in Water by IC	E235.F	2188388	2	38	5.2	5.0	✓
Nitrite in Water by IC	E235.NO2	2188387	2	38	5.2	5.0	✓
Nitrate in Water by IC	E235.NO3	2188386	2	40	5.0	5.0	✓
Sulfate in Water by IC	E235.SO4	2188385	2	40	5.0	5.0	✓
Alkalinity Species by Titration	E290	2188550	2	36	5.5	5.0	✓
Ammonia by Fluorescence	E298	2188688	2	40	5.0	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2196466	2	32	6.2	5.0	✓
Total Metals in Water by CRC ICPMS	E420	2189856	2	24	8.3	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	2189905	2	40	5.0	5.0	✓
Total Mercury in Water by CVAAS	E508	2188308	2	40	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	2190505	1	20	5.0	5.0	✓
Method Blanks (MB)							
Conductivity in Water	E100	2188549	2	36	5.5	5.0	✓

Matrix: **Water**

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Method Blanks (MB) - Continued							
TSS by Gravimetry	E160	2189859	2	40	5.0	5.0	✓
TDS by Gravimetry	E162	2188450	2	40	5.0	5.0	✓
Chloride in Water by IC	E235.Cl	2188389	2	35	5.7	5.0	✓
Fluoride in Water by IC	E235.F	2188388	2	38	5.2	5.0	✓
Nitrite in Water by IC	E235.NO2	2188387	2	38	5.2	5.0	✓
Nitrate in Water by IC	E235.NO3	2188386	2	40	5.0	5.0	✓
Sulfate in Water by IC	E235.SO4	2188385	2	40	5.0	5.0	✓
Alkalinity Species by Titration	E290	2188550	2	36	5.5	5.0	✓
Ammonia by Fluorescence	E298	2188688	2	40	5.0	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2196466	2	32	6.2	5.0	✓
Total Metals in Water by CRC ICPMS	E420	2189856	2	24	8.3	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	2189905	2	40	5.0	5.0	✓
Total Mercury in Water by CVAAS	E508	2188308	2	40	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	2190505	1	20	5.0	5.0	✓
Matrix Spikes (MS)							
Chloride in Water by IC	E235.Cl	2188389	2	35	5.7	5.0	✓
Fluoride in Water by IC	E235.F	2188388	2	38	5.2	5.0	✓
Nitrite in Water by IC	E235.NO2	2188387	2	38	5.2	5.0	✓
Nitrate in Water by IC	E235.NO3	2188386	2	40	5.0	5.0	✓
Sulfate in Water by IC	E235.SO4	2188385	2	40	5.0	5.0	✓
Ammonia by Fluorescence	E298	2188688	2	40	5.0	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2196466	2	32	6.2	5.0	✓
Total Metals in Water by CRC ICPMS	E420	2189856	2	24	8.3	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	2189905	2	40	5.0	5.0	✓
Total Mercury in Water by CVAAS	E508	2188308	2	40	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	2190505	1	20	5.0	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Conductivity in Water	E100 ALS Environmental - Edmonton	Water	APHA 2510 (mod)	Conductivity, also known as Electrical Conductivity (EC) or Specific Conductance, is measured by immersion of a conductivity cell with platinum electrodes into a water sample. Conductivity measurements are temperature-compensated to 25°C.
pH by Meter	E108 ALS Environmental - Edmonton	Water	APHA 4500-H (mod)	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 ± 5°C). For high accuracy test results, pH should be measured in the field within the recommended 15 minute hold time.
TSS by Gravimetry	E160 ALS Environmental - Edmonton	Water	APHA 2540 D (mod)	Total Suspended Solids (TSS) are determined by filtering a sample through a glass fibre filter, following by drying of the filter at 104 ± 1°C, with gravimetric measurement of the filtered solids. Samples containing very high dissolved solid content (i.e. seawaters, brackish waters) may produce a positive bias by this method. Alternate analysis methods are available for these types of samples.
TDS by Gravimetry	E162 ALS Environmental - Edmonton	Water	APHA 2540 C (mod)	Total Dissolved Solids (TDS) are determined by filtering a sample through a glass fibre filter, with evaporation of the filtrate at 180 ± 2°C for 16 hours or to constant weight, with gravimetric measurement of the residue.
Chloride in Water by IC	E235.Cl ALS Environmental - Edmonton	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Fluoride in Water by IC	E235.F ALS Environmental - Edmonton	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Nitrite in Water by IC	E235.NO2 ALS Environmental - Edmonton	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Nitrate in Water by IC	E235.NO3 ALS Environmental - Edmonton	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Sulfate in Water by IC	E235.SO4 ALS Environmental - Edmonton	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Alkalinity Species by Titration	E290 ALS Environmental - Edmonton	Water	APHA 2320 B (mod)	Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.
Ammonia by Fluorescence	E298 ALS Environmental - Edmonton	Water	Method Fialab 100, 2018	Ammonia in water is determined by automated continuous flow analysis with membrane diffusion and fluorescence detection, after reaction with OPA (ortho-phthalaldehyde). This method is approved under US EPA 40 CFR Part 136 (May 2021)
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U ALS Environmental - Edmonton	Water	APHA 4500-P E (mod).	Total Phosphorus is determined colourimetrically using a discrete analyzer after heated persulfate digestion of the sample.
Total Metals in Water by CRC ICPMS	E420 ALS Environmental - Edmonton	Water	EPA 200.2/6020B (mod)	Water samples are digested with nitric and hydrochloric acids, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Dissolved Metals in Water by CRC ICPMS	E421 ALS Environmental - Edmonton	Water	APHA 3030B/EPA 6020B (mod)	Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Total Mercury in Water by CVAAS	E508 ALS Environmental - Edmonton	Water	EPA 1631E (mod)	Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS
Dissolved Mercury in Water by CVAAS	E509 ALS Environmental - Edmonton	Water	APHA 3030B/EPA 1631E (mod)	Water samples are filtered (0.45 um), preserved with HCl, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.
Dissolved Hardness (Calculated)	EC100 ALS Environmental - Edmonton	Water	APHA 2340B	“Hardness (as CaCO3), dissolved” is calculated from the sum of dissolved Calcium and Magnesium concentrations, expressed in CaCO3 equivalents. “Total Hardness” refers to the sum of Calcium and Magnesium Hardness. Hardness is normally or preferentially calculated from dissolved Calcium and Magnesium concentrations, because it is a property of water due to dissolved divalent cations.
Ion Balance using Dissolved Metals	EC101 ALS Environmental - Edmonton	Water	APHA 1030E	Cation Sum, Anion Sum, and Ion Balance are calculated based on guidance from APHA Standard Methods (1030E Checking Correctness of Analysis). Dissolved species are used where available. Minor ions are included where data is present. Ion Balance cannot be calculated accurately for waters with very low electrical conductivity (EC).
TDS in Water (Calculation)	EC103 ALS Environmental - Edmonton	Water	APHA 1030E (mod)	Total Dissolved Solids is calculated based on guidance from APHA Standard Methods (1030E Checking Correctness of Analysis). Dissolved species are used where available. Minor ions are included where data is present.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Nitrate and Nitrite (as N) (Calculation)	EC235.N+N ALS Environmental - Edmonton	Water	EPA 300.0	Nitrate and Nitrite (as N) is a calculated parameter. Nitrate and Nitrite (as N) = Nitrite (as N) + Nitrate (as N).
Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)	Ra-226 Saskatchewan Research Council - 143 - 111 Research Drive Saskatoon Saskatchewan Canada S7N 3R2	Water		See attached report.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Preparation for Ammonia	EP298 ALS Environmental - Edmonton	Water		Sample preparation for Preserved Nutrients Water Quality Analysis.
Digestion for Total Phosphorus in water	EP372 ALS Environmental - Edmonton	Water	APHA 4500-P E (mod).	Samples are heated with a persulfate digestion reagent.
Dissolved Metals Water Filtration	EP421 ALS Environmental - Edmonton	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO3.
Dissolved Mercury Water Filtration	EP509 ALS Environmental - Edmonton	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HCl.

Environmental Analytical Laboratories
143-111 Research Drive, Saskatoon, SK Canada S7N 3R2
T: 306-933-6932 **F:** 306-933-7922
Toll-free: 1-800-240-8808
E: analytical@src.sk.ca
www.src.sk.ca/analytical

Test Report

SRC Group # 2025-11059

Sep 15, 2025

ALS
9450 17 Avenue NW
Edmonton, AB T6N 1M9
Attn: Vishal Akolkar

Date Samples Received: Aug-29-2025 Client P.O.: EO2507632

All results have been reviewed and approved by a Qualified Person in accordance with the Saskatchewan Environmental Code, Corrective Action Plan Chapter, for the purposes of certifying a laboratory analysis

Results from Lab Section 4 approved by Smith-Windsor, Jenna

Test methods and data are validated by the laboratory's Quality Assurance Program.

Routine methods follow recognized procedures from sources such as
-Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF
-Environment Canada
-US EPA
-CANMET

The results reported relate only to the test samples as provided by the client. Results apply to the sample as received, unless otherwise indicated.

Data marked as "by Client" has been provided by the client and may affect the validity of results.

Samples will be kept for 30 days after the final report is sent. Please contact the lab if you have any special requirements.

Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Analytes denoted with * are accredited by CALA to ISO/IEC 17025:2017.

Additional information is available upon request.

This is a final report.

Environmental Analytical Laboratories
143-111 Research Drive, Saskatoon, SK Canada S7N 3R2
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SRC Group # 2025-11059

Sep 15, 2025

ALS

9450 17 Avenue NW
Edmonton, AB T6N 1M9
Attn: Vishal Akolkar

Sample #: **2025031322**
Date Sampled: **Aug 20, 2025**
Sample Matrix: **WATER**
Description: **08/20/2025 14:30 C1-1 EO2507632-001**

Client PO #: **EO2507632**
Date Received: **Aug 29, 2025**

Analyte	Units	Result
Lab Section 4		
Radium-226*	Bq/L	<0.06

Symbol of "<" means "less than". This indicates that it was not detected at level stated above.

The temperature of the cooler was 11.8 °C upon receipt.

The sample for radionuclides was acidified in the lab. Due to the time lapse from sampling to acidification, we can not guarantee that the results accurately reflect the concentration at the time of sampling.

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T: 306-933-6932 **F:** 306-933-7922
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SRC Group # 2025-11059

Sep 15, 2025

ALS

Sample #: **2025031323**
Date Sampled: **Aug 20, 2025**
Sample Matrix: **WATER**
Description: **08/20/2025 16:10 C1-2 EO2507632-002**

Client PO #: **EO2507632**
Date Received: **Aug 29, 2025**

Analyte	Units	Result
Lab Section 4		
Radium-226*	Bq/L	<0.06

Symbol of "<" means "less than". This indicates that it was not detected at level stated above.

The temperature of the cooler was 11.8 °C upon receipt.

The sample for radionuclides was acidified in the lab. Due to the time lapse from sampling to acidification, we can not guarantee that the results accurately reflect the concentration at the time of sampling.

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SRC Group # 2025-11059

Sep 15, 2025

ALS

Sample #: **2025031324**
Date Sampled: **Aug 21, 2025**
Sample Matrix: **WATER**
Description: **08/21/2025 17:00 WQ6 EO2507632-003**

Client PO #: **EO2507632**
Date Received: **Aug 29, 2025**

Analyte	Units	Result
Lab Section 4		
Radium-226*	Bq/L	<0.06

Symbol of "<" means "less than". This indicates that it was not detected at level stated above.

The temperature of the cooler was 11.8 °C upon receipt.

The sample for radionuclides was acidified in the lab. Due to the time lapse from sampling to acidification, we can not guarantee that the results accurately reflect the concentration at the time of sampling.

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www.src.sk.ca/analytical

SRC Group # 2025-11059

Sep 15, 2025

ALS

Sample #: **2025031325**
Date Sampled: **Aug 21, 2025**
Sample Matrix: **WATER**
Description: **08/21/2025 17:40 WQ5 EO2507632-004**

Client PO #: **EO2507632**
Date Received: **Aug 29, 2025**

Analyte	Units	Result
Lab Section 4		
Radium-226*	Bq/L	<0.06

Symbol of "<" means "less than". This indicates that it was not detected at level stated above.

The temperature of the cooler was 11.8 °C upon receipt.

The sample for radionuclides was acidified in the lab. Due to the time lapse from sampling to acidification, we can not guarantee that the results accurately reflect the concentration at the time of sampling.

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www.src.sk.ca/analytical

SRC Group # 2025-11059

Sep 15, 2025

ALS

Sample #: **2025031326**
Date Sampled: **Aug 22, 2025**
Sample Matrix: **WATER**
Description: **08/22/2025 08:50 WQ1 EO2507632-005**

Client PO #: **EO2507632**
Date Received: **Aug 29, 2025**

Analyte	Units	Result
Lab Section 4		
Radium-226*	Bq/L	<0.06

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SRC Group # 2025-11059

Sep 15, 2025

ALS

Sample #: **2025031327**
Date Sampled: **Aug 22, 2025**
Sample Matrix: **WATER**
Description: **08/22/2025 11:05 WQ2 EO2507632-006**

Client PO #: **EO2507632**
Date Received: **Aug 29, 2025**

Analyte	Units	Result
Lab Section 4		
Radium-226*	Bq/L	<0.06

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SRC Group # 2025-11059

Sep 15, 2025

ALS

Sample #: **2025031328**
Date Sampled: **Aug 22, 2025**
Sample Matrix: **WATER**
Description: **08/22/2025 13:00 WQ4 EO2507632-007**

Client PO #: **EO2507632**
Date Received: **Aug 29, 2025**

Analyte	Units	Result
Lab Section 4		
Radium-226*	Bq/L	<0.06

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SRC Group # 2025-11059

Sep 15, 2025

ALS

Sample #: **2025031329**
Date Sampled: **Aug 22, 2025**
Sample Matrix: **WATER**
Description: **08/22/2025 14:50 WQ10 EO2507632-008**

Client PO #: **EO2507632**
Date Received: **Aug 29, 2025**

Analyte	Units	Result
Lab Section 4		
Radium-226*	Bq/L	<0.06

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SRC Group # 2025-11059

Sep 15, 2025

ALS

Sample #: **2025031330**
Date Sampled: **Aug 22, 2025**
Sample Matrix: **WATER**
Description: **08/22/2025 15:20 WQ9 EO2507632-009**

Client PO #: **EO2507632**
Date Received: **Aug 29, 2025**

Analyte	Units	Result
Lab Section 4		
Radium-226*	Bq/L	<0.06

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SRC Group # 2025-11059

Sep 15, 2025

ALS

Sample #: **2025031331**
Date Sampled: **Aug 23, 2025**
Sample Matrix: **WATER**
Description: **08/23/2025 09:20 WQ8 EO2507632-010**

Client PO #: **EO2507632**
Date Received: **Aug 29, 2025**

Analyte	Units	Result
Lab Section 4		
Radium-226*	Bq/L	<0.06

Symbol of "<" means "less than". This indicates that it was not detected at level stated above.

The temperature of the cooler was 11.8 °C upon receipt.

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SRC Group # 2025-11059

Sep 15, 2025

ALS

Sample #: **2025031332**
Date Sampled: **Aug 23, 2025**
Sample Matrix: **WATER**
Description: **08/23/2025 10:30 S1 EO2507632-011**

Client PO #: **EO2507632**
Date Received: **Aug 29, 2025**

Analyte	Units	Result
Lab Section 4		
Radium-226*	Bq/L	<0.06

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SRC Group # 2025-11059

Sep 15, 2025

ALS

Sample #: **2025031333**
Date Sampled: **Aug 23, 2025**
Sample Matrix: **WATER**
Description: **08/23/2025 12:10 WQ16 EO2507632-012**

Client PO #: **EO2507632**
Date Received: **Aug 29, 2025**

Analyte	Units	Result
Lab Section 4		
Radium-226*	Bq/L	<0.06

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SRC Group # 2025-11059

Sep 15, 2025

ALS

Sample #: **2025031334**
Date Sampled: **Aug 23, 2025**
Sample Matrix: **WATER**
Description: **08/23/2025 13:10 WQ15 EO2507632-013**

Client PO #: **EO2507632**
Date Received: **Aug 29, 2025**

Analyte	Units	Result
Lab Section 4		
Radium-226*	Bq/L	<0.06

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SRC Group # 2025-11059

Sep 15, 2025

ALS

Sample #: **2025031335**
Date Sampled: **Aug 23, 2025**
Sample Matrix: **WATER**
Description: **08/23/2025 16:20 WQ17 EO2507632-014**

Client PO #: **EO2507632**
Date Received: **Aug 29, 2025**

Analyte	Units	Result
Lab Section 4		
Radium-226*	Bq/L	<0.06

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SRC Group # 2025-11059

Sep 15, 2025

ALS

Sample #: **2025031336**
Date Sampled: **Aug 24, 2025**
Sample Matrix: **WATER**
Description: **08/24/2025 09:20 WQ3 EO2507632-015**

Client PO #: **EO2507632**
Date Received: **Aug 29, 2025**

Analyte	Units	Result
Lab Section 4		
Radium-226*	Bq/L	<0.06

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SRC Group # 2025-11059

Sep 15, 2025

ALS

Sample #: **2025031337**
Date Sampled: **Aug 24, 2025**
Sample Matrix: **WATER**
Description: **08/24/2025 10:45 WQ19 EO2507632-016**

Client PO #: **EO2507632**
Date Received: **Aug 29, 2025**

Analyte	Units	Result
Lab Section 4		
Radium-226*	Bq/L	<0.06

Symbol of "<" means "less than". This indicates that it was not detected at level stated above.

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The sample for radionuclides was acidified in the lab. Due to the time lapse from sampling to acidification, we can not guarantee that the results accurately reflect the concentration at the time of sampling.

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SRC Group # 2025-11059

Sep 15, 2025

ALS

Sample #: **2025031338**
Date Sampled: **Aug 24, 2025**
Sample Matrix: **WATER**
Description: **08/24/2025 13:45 WQ20 EO2507632-017**

Client PO #: **EO2507632**
Date Received: **Aug 29, 2025**

Analyte	Units	Result
Lab Section 4		
Radium-226*	Bq/L	<0.06

Symbol of "<" means "less than". This indicates that it was not detected at level stated above.

The temperature of the cooler was 11.8 °C upon receipt.

The sample for radionuclides was acidified in the lab. Due to the time lapse from sampling to acidification, we can not guarantee that the results accurately reflect the concentration at the time of sampling.

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SRC Group # 2025-11059

Sep 15, 2025

ALS

Sample #: **2025031339**
Date Sampled: **Aug 24, 2025**
Sample Matrix: **WATER**
Description: **08/24/2025 14:20 WQ7 EO2507632-018**

Client PO #: **EO2507632**
Date Received: **Aug 29, 2025**

Analyte	Units	Result
Lab Section 4		
Radium-226*	Bq/L	<0.06

Symbol of "<" means "less than". This indicates that it was not detected at level stated above.

The temperature of the cooler was 11.8 °C upon receipt.

The sample for radionuclides was acidified in the lab. Due to the time lapse from sampling to acidification, we can not guarantee that the results accurately reflect the concentration at the time of sampling.

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SRC Group # 2025-11059

Sep 15, 2025

ALS

Analyte Methods

Name	Units	Method
Radium-226	Bq/L	Rad-105

Environmental Analytical Laboratories
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www.src.sk.ca/analytical

Sep 15, 2025

This report was generated for samples included in SRC Group # 2025-11059

Quality Control Report

Vishal Akolkar
ALS
9450 17 Avenue NW
Edmonton, AB T6N 1M9

Reference Materials and Standards:

A reference material of known concentration is used whenever possible as either a control sample or control standard and analyzed with each batch of samples. These "QC" results are used to assess the performance of the method and must be within clearly defined limits; otherwise corrective action is required.

QC Analysis	Units	Target Value	Obtained Value
Radium-226	Bq/L	19.1	18.8
Radium-226	Bq	2.13	2.24

Duplicates:

Duplicates are used to assess problems with precision and help ensure that samples within a given batch were processed appropriately. The difference between duplicates must be within strict limits, otherwise corrective action is required. Please note, the duplicate(s) in this report are duplicates analyzed within a given batch of test samples and may not be from this specific group of samples.

Duplicate Analysis	Units	Sample ID	First Result	Second Result
Radium-226	Bq/L	31258	<0.005	<0.005
Radium-226	Bq/L	31373	<0.005	<0.005

All quality control results were within the specified limits and considered acceptable.

Approved by Section Supervisor

CERTIFICATE OF ANALYSIS

Work Order	: **EO2507799**	Page	: 1 of 23
Client	: **Sustainable Solutions Group (2SG Inc.)**	Laboratory	: ALS Environmental - Edmonton
Contact	: Ryan Van Engen	Account Manager	: Vishal Akolkar
Address	: 68 Cork St. W Guelph ON Canada NIH 2X4	Address	: 9450 - 17 Avenue NW Edmonton AB Canada T6N 1M9
Telephone	: 519.710.8516	Telephone	: +1 780 413 5227
Project	: Angilak	Date Samples Received	: 03-Sep-2025 09:00
PO	: P-CA202500004399	Date Analysis Commenced	: 03-Sep-2025
C-O-C number	: ----	Issue Date	: 25-Sep-2025 14:10
Sampler	: RV/LK		
Site	: ----		
Quote number	: EO24-SSGR100-001 (water)		
No. of samples received	: 10		
No. of samples analysed	: 10		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Alannah Barron	Laboratory Analyst	Metals, Edmonton, Alberta
Alastair McGibbon	Laboratory Analyst	Inorganics, Edmonton, Alberta
Alex Drake	Lab Analyst	Inorganics, Edmonton, Alberta
Alex Drake	Lab Analyst	Metals, Edmonton, Alberta
Brayden Ginther	Laboratory Analyst	Inorganics, Edmonton, Alberta
Dan Nguyen	Team Leader - Inorganics	Metals, Edmonton, Alberta
Daniel Nguyen	Laboratory Analyst	Metals, Edmonton, Alberta
Jing Liu	Laboratory Analyst	Inorganics, Edmonton, Alberta
Leah Yee	Lab Assistant	Inorganics, Edmonton, Alberta
Ping Yeung	Team Leader - Inorganics	Inorganics, Edmonton, Alberta
Shruti Mudliar	Lab Analyst	Inorganics, Edmonton, Alberta
Vishal Akolkar	Account Manager	External Subcontracting, Saskatoon, Saskatchewan

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).
Measurement Uncertainty: The reported uncertainties in this report are expanded uncertainties calculated using a coverage factor of 2, which gives a level of confidence of approximately 95%.
Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Unit	*Description*
-	no units
%	percent
µS/cm	microsiemens per centimetre
Bq/L	becquerels per litre
mg/L	milligrams per litre
pH units	pH units

>: greater than.
<: less than.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Qualifiers

Qualifier	*Description*
RRV	*Reported result verified by repeat analysis.*

Analytical Results

EO2507799-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: WQ14
Client sampling date / time: 25-Aug-2025 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	33.2	1.2	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Alkalinity, total (as CaCO3)	----	27.2	1.0	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Conductivity	----	49.8	1.0	µS/cm	E100/EO	03-Sep-2025	09-Sep-2025	2197461
Hardness (as CaCO3), dissolved	----	23.8	0.50	mg/L	EC100/EO	-	08-Sep-2025	-
pH	----	7.31	0.10	pH units	E108/EO	03-Sep-2025	09-Sep-2025	2197462
Solids, total dissolved [TDS]	----	61	20	mg/L	E162/EO	-	05-Sep-2025	2197661
Solids, total dissolved [TDS], calculated	----	27.0	1.0	mg/L	EC103/EO	-	04-Sep-2025	-
Solids, total suspended [TSS]	----	<3.0	3.0	mg/L	E160/EO	-	05-Sep-2025	2197347
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	0.0087	0.0050	mg/L	E298/EO	04-Sep-2025	05-Sep-2025	2199771
Chloride	16887-00-6	0.51	0.50	mg/L	E235.Cl/EO	03-Sep-2025	03-Sep-2025	2197421
Fluoride	16984-48-8	0.084	0.020	mg/L	E235.F/EO	03-Sep-2025	03-Sep-2025	2197420
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	03-Sep-2025	03-Sep-2025	2197418
Nitrate + Nitrite (as N)	----	<0.0224	0.0224	mg/L	EC235.N+N/EO	-	04-Sep-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	03-Sep-2025	03-Sep-2025	2197419
Phosphorus, total	7723-14-0	0.0092	0.0020	mg/L	E372-U/EO	05-Sep-2025	05-Sep-2025	2201465
Sulfate (as SO4)	14808-79-8	<0.30	0.30	mg/L	E235.SO4/EO	03-Sep-2025	03-Sep-2025	2197417
Ion Balance								
Ion balance (cations/anions)	----	92.8	0.010	%	EC101/EO	-	04-Sep-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0194	0.0030	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Arsenic, total	7440-38-2	0.00013	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Barium, total	7440-39-3	0.0643	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Boron, total	7440-42-8	0.017	0.010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Calcium, total	7440-70-2	5.03	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Copper, total	7440-50-8	0.00110	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Iron, total	7439-89-6	0.065	0.010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Magnesium, total	7439-95-4	2.69	0.0050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Manganese, total	7439-96-5	0.0118	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/EO	05-Sep-2025	05-Sep-2025	2201911
Nickel, total	7440-02-0	0.00077	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Potassium, total	7440-09-7	0.493	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Selenium, total	7782-49-2	<0.000050	0.000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Sodium, total	7440-23-5	0.881	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Uranium, total	7440-61-1	0.000084	0.000010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0049	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384

Analytical Results

EO2507799-001

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ14
Client sampling date / time: 25-Aug-2025 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Arsenic, dissolved	7440-38-2	0.00012	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Barium, dissolved	7440-39-3	0.0596	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Calcium, dissolved	7440-70-2	5.25	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Copper, dissolved	7440-50-8	0.00049	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Iron, dissolved	7439-89-6	0.017	0.010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Magnesium, dissolved	7439-95-4	2.59	0.0050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Manganese, dissolved	7439-96-5	0.00100	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/EO	05-Sep-2025	05-Sep-2025	2201674
Molybdenum, dissolved	7439-98-7	0.000116	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Nickel, dissolved	7440-02-0	0.00053	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Potassium, dissolved	7440-09-7	0.459	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Rubidium, dissolved	7440-17-7	0.00114	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Silicon, dissolved	7440-21-3	0.361	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Sodium, dissolved	7440-23-5	0.765	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Strontium, dissolved	7440-24-6	0.0831	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Uranium, dissolved	7440-61-1	0.000073	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Dissolved mercury filtration location	----	Field	-	-	EP509/EO	-	05-Sep-2025	2201674
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	06-Sep-2025	2203384
Radiological Parameters								
Radium-226	13982-63-3	See attached	0.005	Bq/L	Ra-226/2I	-	17-Sep-2025	-

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

EO2507799-002

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: DUP1
Client sampling date / time: 25-Aug-2025 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	30.1	1.2	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Alkalinity, total (as CaCO3)	----	24.7	1.0	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Conductivity	----	47.6 RRV.	1.0	µS/cm	E100/EO	03-Sep-2025	09-Sep-2025	2197461
Hardness (as CaCO3), dissolved	----	23.4	0.50	mg/L	EC100/EO	-	08-Sep-2025	-
pH	----	7.50 RRV.	0.10	pH units	E108/EO	03-Sep-2025	09-Sep-2025	2197462
Solids, total dissolved [TDS]	----	54	20	mg/L	E162/EO	-	05-Sep-2025	2197661
Solids, total dissolved [TDS], calculated	----	25.4	1.0	mg/L	EC103/EO	-	04-Sep-2025	-
Solids, total suspended [TSS]	----	<3.0	3.0	mg/L	E160/EO	-	05-Sep-2025	2197347
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	0.0076	0.0050	mg/L	E298/EO	04-Sep-2025	05-Sep-2025	2199771
Chloride	16887-00-6	0.57	0.50	mg/L	E235.Cl/EO	03-Sep-2025	03-Sep-2025	2197421
Fluoride	16984-48-8	0.082	0.020	mg/L	E235.F/EO	03-Sep-2025	03-Sep-2025	2197420
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	03-Sep-2025	03-Sep-2025	2197418
Nitrate + Nitrite (as N)	----	<0.0224	0.0224	mg/L	EC235.N+N/EO	-	04-Sep-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	03-Sep-2025	03-Sep-2025	2197419
Phosphorus, total	7723-14-0	0.0092	0.0020	mg/L	E372-U/EO	05-Sep-2025	05-Sep-2025	2201465
Sulfate (as SO4)	14808-79-8	<0.30	0.30	mg/L	E235.SO4/EO	03-Sep-2025	03-Sep-2025	2197417
Ion Balance								
Ion balance (cations/anions)	----	100	0.010	%	EC101/EO	-	04-Sep-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0173	0.0030	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Arsenic, total	7440-38-2	0.00015	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Barium, total	7440-39-3	0.0625	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Boron, total	7440-42-8	<0.010	0.010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Calcium, total	7440-70-2	5.15	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Copper, total	7440-50-8	0.00097	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Iron, total	7439-89-6	0.070	0.010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Magnesium, total	7439-95-4	2.62	0.0050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Manganese, total	7439-96-5	0.0109	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/EO	05-Sep-2025	05-Sep-2025	2201911
Nickel, total	7440-02-0	0.00072	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Potassium, total	7440-09-7	0.476	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Selenium, total	7782-49-2	<0.000050	0.000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Sodium, total	7440-23-5	0.892	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Uranium, total	7440-61-1	0.000082	0.000010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0057	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384

Analytical Results

EO2507799-002

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: DUP1
Client sampling date / time: 25-Aug-2025 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Arsenic, dissolved	7440-38-2	0.00011	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Barium, dissolved	7440-39-3	0.0593	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Calcium, dissolved	7440-70-2	5.16	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Copper, dissolved	7440-50-8	0.00049	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Iron, dissolved	7439-89-6	0.017	0.010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Magnesium, dissolved	7439-95-4	2.56	0.0050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Manganese, dissolved	7439-96-5	0.00105	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/EO	05-Sep-2025	05-Sep-2025	2201674
Molybdenum, dissolved	7439-98-7	0.000107	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Nickel, dissolved	7440-02-0	0.00052	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Potassium, dissolved	7440-09-7	0.456	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Rubidium, dissolved	7440-17-7	0.00106	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Silicon, dissolved	7440-21-3	0.349	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Sodium, dissolved	7440-23-5	0.757	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Strontium, dissolved	7440-24-6	0.0832	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Uranium, dissolved	7440-61-1	0.000075	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Dissolved mercury filtration location	----	Field	-	-	EP509/EO	-	05-Sep-2025	2201674
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	06-Sep-2025	2203384
Radiological Parameters								
Radium-226	13982-63-3	See attached	0.005	Bq/L	Ra-226/2I	-	17-Sep-2025	-

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

EO2507799-003

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: CP
Client sampling date / time: 25-Aug-2025 10:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	55.0	1.2	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Alkalinity, total (as CaCO3)	----	45.1	1.0	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Conductivity	----	85.8	1.0	µS/cm	E100/EO	03-Sep-2025	03-Sep-2025	2197461
Hardness (as CaCO3), dissolved	----	43.8	0.50	mg/L	EC100/EO	-	08-Sep-2025	-
pH	----	7.78	0.10	pH units	E108/EO	03-Sep-2025	03-Sep-2025	2197462
Solids, total dissolved [TDS]	----	87	20	mg/L	E162/EO	-	05-Sep-2025	2197661
Solids, total dissolved [TDS], calculated	----	48.7	1.0	mg/L	EC103/EO	-	04-Sep-2025	-
Solids, total suspended [TSS]	----	<3.0	3.0	mg/L	E160/EO	-	05-Sep-2025	2197347
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	0.0104	0.0050	mg/L	E298/EO	04-Sep-2025	05-Sep-2025	2199771
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl/EO	03-Sep-2025	03-Sep-2025	2197421
Fluoride	16984-48-8	0.129	0.020	mg/L	E235.F/EO	03-Sep-2025	03-Sep-2025	2197420
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	03-Sep-2025	03-Sep-2025	2197418
Nitrate + Nitrite (as N)	----	<0.0224	0.0224	mg/L	EC235.N+N/EO	-	04-Sep-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	03-Sep-2025	03-Sep-2025	2197419
Phosphorus, total	7723-14-0	0.0054	0.0020	mg/L	E372-U/EO	05-Sep-2025	10-Sep-2025	2201465
Sulfate (as SO4)	14808-79-8	0.32	0.30	mg/L	E235.SO4/EO	03-Sep-2025	03-Sep-2025	2197417
Ion Balance								
Ion balance (cations/anions)	----	104	0.010	%	EC101/EO	-	04-Sep-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0304	0.0030	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Arsenic, total	7440-38-2	0.00022	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Barium, total	7440-39-3	0.102	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Boron, total	7440-42-8	<0.010	0.010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Calcium, total	7440-70-2	11.6	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Copper, total	7440-50-8	0.00182	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Iron, total	7439-89-6	0.428	0.010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Magnesium, total	7439-95-4	3.56	0.0050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Manganese, total	7439-96-5	0.00798	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/EO	05-Sep-2025	05-Sep-2025	2201911
Nickel, total	7440-02-0	0.00155	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Potassium, total	7440-09-7	0.400	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Selenium, total	7782-49-2	0.000101	0.000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Sodium, total	7440-23-5	1.42	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Uranium, total	7440-61-1	0.000058	0.000010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Zinc, total	7440-66-6	0.0044	0.0030	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0110	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384

Analytical Results

EO2507799-003

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: CP
Client sampling date / time: 25-Aug-2025 10:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Arsenic, dissolved	7440-38-2	0.00012	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Barium, dissolved	7440-39-3	0.0927	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Calcium, dissolved	7440-70-2	11.8	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Copper, dissolved	7440-50-8	0.00112	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Iron, dissolved	7439-89-6	0.204	0.010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Magnesium, dissolved	7439-95-4	3.47	0.0050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Manganese, dissolved	7439-96-5	0.00274	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/EO	05-Sep-2025	05-Sep-2025	2201674
Molybdenum, dissolved	7439-98-7	0.000101	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Nickel, dissolved	7440-02-0	0.00120	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Potassium, dissolved	7440-09-7	0.351	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Rubidium, dissolved	7440-17-7	0.00103	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Silicon, dissolved	7440-21-3	1.49	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Sodium, dissolved	7440-23-5	1.32	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Strontium, dissolved	7440-24-6	0.0764	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Uranium, dissolved	7440-61-1	0.000050	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Zinc, dissolved	7440-66-6	0.0027	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Zirconium, dissolved	7440-67-7	0.00024	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Dissolved mercury filtration location	----	Field	-	-	EP509/EO	-	05-Sep-2025	2201674
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	06-Sep-2025	2203384
Radiological Parameters								
Radium-226	13982-63-3	See attached	0.005	Bq/L	Ra-226/2I	-	17-Sep-2025	-

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

EO2507799-004

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: DUP2

Client sampling date / time: 25-Aug-2025 10:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	53.7	1.2	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Alkalinity, total (as CaCO3)	----	44.0	1.0	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Conductivity	----	83.7	1.0	µS/cm	E100/EO	03-Sep-2025	03-Sep-2025	2197461
Hardness (as CaCO3), dissolved	----	43.7	0.50	mg/L	EC100/EO	-	08-Sep-2025	-
pH	----	7.80	0.10	pH units	E108/EO	03-Sep-2025	03-Sep-2025	2197462
Solids, total dissolved [TDS]	----	77	20	mg/L	E162/EO	-	05-Sep-2025	2197661
Solids, total dissolved [TDS], calculated	----	48.1	1.0	mg/L	EC103/EO	-	04-Sep-2025	-
Solids, total suspended [TSS]	----	<3.0	3.0	mg/L	E160/EO	-	05-Sep-2025	2197347
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	0.0156	0.0050	mg/L	E298/EO	04-Sep-2025	05-Sep-2025	2199771
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl/EO	03-Sep-2025	03-Sep-2025	2197421
Fluoride	16984-48-8	0.125	0.020	mg/L	E235.F/EO	03-Sep-2025	03-Sep-2025	2197420
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	03-Sep-2025	03-Sep-2025	2197418
Nitrate + Nitrite (as N)	----	<0.0224	0.0224	mg/L	EC235.N+N/EO	-	04-Sep-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	03-Sep-2025	03-Sep-2025	2197419
Phosphorus, total	7723-14-0	0.0056	0.0020	mg/L	E372-U/EO	05-Sep-2025	10-Sep-2025	2201465
Sulfate (as SO4)	14808-79-8	0.35	0.30	mg/L	E235.SO4/EO	03-Sep-2025	03-Sep-2025	2197417
Ion Balance								
Ion balance (cations/anions)	----	107	0.010	%	EC101/EO	-	04-Sep-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0281	0.0030	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Arsenic, total	7440-38-2	0.00019	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Barium, total	7440-39-3	0.0958	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Boron, total	7440-42-8	<0.010	0.010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Cadmium, total	7440-43-9	0.0000057	0.0000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Calcium, total	7440-70-2	11.7	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Copper, total	7440-50-8	0.00179	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Iron, total	7439-89-6	0.448	0.010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Magnesium, total	7439-95-4	3.46	0.0050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Manganese, total	7439-96-5	0.00796	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/EO	05-Sep-2025	05-Sep-2025	2201911
Nickel, total	7440-02-0	0.00144	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Potassium, total	7440-09-7	0.367	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Selenium, total	7782-49-2	0.000066	0.000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Sodium, total	7440-23-5	1.38	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Uranium, total	7440-61-1	0.000053	0.000010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Zinc, total	7440-66-6	0.0046	0.0030	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0111	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384

Analytical Results

EO2507799-004

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: DUP2

Client sampling date / time: 25-Aug-2025 10:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Arsenic, dissolved	7440-38-2	0.00014	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Barium, dissolved	7440-39-3	0.0934	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Calcium, dissolved	7440-70-2	11.7	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Copper, dissolved	7440-50-8	0.00113	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Iron, dissolved	7439-89-6	0.210	0.010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Magnesium, dissolved	7439-95-4	3.51	0.0050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Manganese, dissolved	7439-96-5	0.00274	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/EO	05-Sep-2025	05-Sep-2025	2201674
Molybdenum, dissolved	7439-98-7	0.000100	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Nickel, dissolved	7440-02-0	0.00126	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Potassium, dissolved	7440-09-7	0.351	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Rubidium, dissolved	7440-17-7	0.00106	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Silicon, dissolved	7440-21-3	1.49	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Sodium, dissolved	7440-23-5	1.35	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Strontium, dissolved	7440-24-6	0.0756	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Uranium, dissolved	7440-61-1	0.000049	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Zinc, dissolved	7440-66-6	0.0028	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Zirconium, dissolved	7440-67-7	0.00025	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Dissolved mercury filtration location	----	Field	-	-	EP509/EO	-	05-Sep-2025	2201674
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	06-Sep-2025	2203384
Radiological Parameters								
Radium-226	13982-63-3	See attached	0.005	Bq/L	Ra-226/2I	-	17-Sep-2025	-

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

EO2507799-005

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ11
Client sampling date / time: 25-Aug-2025 13:40

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	50.9	1.2	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Alkalinity, total (as CaCO3)	----	41.7	1.0	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Conductivity	----	76.2	1.0	µS/cm	E100/EO	03-Sep-2025	03-Sep-2025	2197461
Hardness (as CaCO3), dissolved	----	40.6	0.50	mg/L	EC100/EO	-	08-Sep-2025	-
pH	----	7.81	0.10	pH units	E108/EO	03-Sep-2025	03-Sep-2025	2197462
Solids, total dissolved [TDS]	----	77	20	mg/L	E162/EO	-	05-Sep-2025	2197661
Solids, total dissolved [TDS], calculated	----	41.4	1.0	mg/L	EC103/EO	-	04-Sep-2025	-
Solids, total suspended [TSS]	----	<3.0	3.0	mg/L	E160/EO	-	05-Sep-2025	2197347
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	0.0207	0.0050	mg/L	E298/EO	04-Sep-2025	05-Sep-2025	2199771
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl/EO	03-Sep-2025	03-Sep-2025	2197421
Fluoride	16984-48-8	0.158	0.020	mg/L	E235.F/EO	03-Sep-2025	03-Sep-2025	2197420
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	03-Sep-2025	03-Sep-2025	2197418
Nitrate + Nitrite (as N)	----	<0.0224	0.0224	mg/L	EC235.N+N/EO	-	04-Sep-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	03-Sep-2025	03-Sep-2025	2197419
Phosphorus, total	7723-14-0	0.0137	0.0020	mg/L	E372-U/EO	05-Sep-2025	05-Sep-2025	2201465
Sulfate (as SO4)	14808-79-8	<0.30	0.30	mg/L	E235.SO4/EO	03-Sep-2025	03-Sep-2025	2197417
Ion Balance								
Ion balance (cations/anions)	----	102	0.010	%	EC101/EO	-	04-Sep-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0065	0.0030	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Arsenic, total	7440-38-2	0.00016	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Barium, total	7440-39-3	0.0968	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Boron, total	7440-42-8	<0.010	0.010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Calcium, total	7440-70-2	8.71	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Copper, total	7440-50-8	0.00298	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Iron, total	7439-89-6	0.072	0.010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Magnesium, total	7439-95-4	3.64	0.0050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Manganese, total	7439-96-5	0.00496	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/EO	05-Sep-2025	05-Sep-2025	2201911
Nickel, total	7440-02-0	0.00062	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Potassium, total	7440-09-7	0.350	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Selenium, total	7782-49-2	0.000071	0.000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Sodium, total	7440-23-5	0.830	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Uranium, total	7440-61-1	0.000326	0.000010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0033	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384

Analytical Results

EO2507799-005

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ11
Client sampling date / time: 25-Aug-2025 13:40

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Arsenic, dissolved	7440-38-2	0.00012	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Barium, dissolved	7440-39-3	0.105	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Calcium, dissolved	7440-70-2	9.62	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Copper, dissolved	7440-50-8	0.00094	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Iron, dissolved	7439-89-6	0.048	0.010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Magnesium, dissolved	7439-95-4	4.02	0.0050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Manganese, dissolved	7439-96-5	0.00215	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/EO	05-Sep-2025	05-Sep-2025	2201674
Molybdenum, dissolved	7439-98-7	0.000316	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Nickel, dissolved	7440-02-0	0.00055	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Potassium, dissolved	7440-09-7	0.349	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Rubidium, dissolved	7440-17-7	0.00090	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Silicon, dissolved	7440-21-3	0.474	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Sodium, dissolved	7440-23-5	0.819	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Strontium, dissolved	7440-24-6	0.102	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Uranium, dissolved	7440-61-1	0.000344	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Zinc, dissolved	7440-66-6	0.0012	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Dissolved mercury filtration location	----	Field	-	-	EP509/EO	-	05-Sep-2025	2201674
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	06-Sep-2025	2203384
Radiological Parameters								
Radium-226	13982-63-3	See attached	0.005	Bq/L	Ra-226/2I	-	17-Sep-2025	-

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

EO2507799-006

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ12
Client sampling date / time: 25-Aug-2025 14:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	47.4	1.2	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Alkalinity, total (as CaCO3)	----	38.9	1.0	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Conductivity	----	71.5	1.0	µS/cm	E100/EO	03-Sep-2025	03-Sep-2025	2197461
Hardness (as CaCO3), dissolved	----	38.4	0.50	mg/L	EC100/EO	-	08-Sep-2025	-
pH	----	7.75	0.10	pH units	E108/EO	03-Sep-2025	03-Sep-2025	2197462
Solids, total dissolved [TDS]	----	80	20	mg/L	E162/EO	-	05-Sep-2025	2197661
Solids, total dissolved [TDS], calculated	----	38.7	1.0	mg/L	EC103/EO	-	04-Sep-2025	-
Solids, total suspended [TSS]	----	<3.0	3.0	mg/L	E160/EO	-	05-Sep-2025	2197347
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	0.0125	0.0050	mg/L	E298/EO	04-Sep-2025	05-Sep-2025	2199771
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl/EO	03-Sep-2025	03-Sep-2025	2197421
Fluoride	16984-48-8	0.167	0.020	mg/L	E235.F/EO	03-Sep-2025	03-Sep-2025	2197420
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	03-Sep-2025	03-Sep-2025	2197418
Nitrate + Nitrite (as N)	----	<0.0224	0.0224	mg/L	EC235.N+N/EO	-	04-Sep-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	03-Sep-2025	03-Sep-2025	2197419
Phosphorus, total	7723-14-0	0.0164	0.0020	mg/L	E372-U/EO	05-Sep-2025	05-Sep-2025	2201465
Sulfate (as SO4)	14808-79-8	<0.30	0.30	mg/L	E235.SO4/EO	03-Sep-2025	03-Sep-2025	2197417
Ion Balance								
Ion balance (cations/anions)	----	105	0.010	%	EC101/EO	-	04-Sep-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0119	0.0030	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Arsenic, total	7440-38-2	0.00024	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Barium, total	7440-39-3	0.124	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Boron, total	7440-42-8	<0.010	0.010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Calcium, total	7440-70-2	7.92	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Copper, total	7440-50-8	0.00411	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Iron, total	7439-89-6	0.288	0.010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Magnesium, total	7439-95-4	4.62	0.0050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Manganese, total	7439-96-5	0.0259	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/EO	05-Sep-2025	05-Sep-2025	2201911
Nickel, total	7440-02-0	0.00120	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Potassium, total	7440-09-7	0.421	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Selenium, total	7782-49-2	0.000082	0.000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Sodium, total	7440-23-5	1.23	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Uranium, total	7440-61-1	0.000161	0.000010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0040	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384

Analytical Results

EO2507799-006

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ12
Client sampling date / time: 25-Aug-2025 14:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Arsenic, dissolved	7440-38-2	0.00018	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Barium, dissolved	7440-39-3	0.114	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Calcium, dissolved	7440-70-2	7.95	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Copper, dissolved	7440-50-8	0.00068	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Iron, dissolved	7439-89-6	0.105	0.010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Lithium, dissolved	7439-93-2	0.0014	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Magnesium, dissolved	7439-95-4	4.50	0.0050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Manganese, dissolved	7439-96-5	0.00197	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/EO	05-Sep-2025	05-Sep-2025	2201674
Molybdenum, dissolved	7439-98-7	0.000102	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Nickel, dissolved	7440-02-0	0.00102	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Potassium, dissolved	7440-09-7	0.373	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Rubidium, dissolved	7440-17-7	0.00098	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Silicon, dissolved	7440-21-3	0.430	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Sodium, dissolved	7440-23-5	1.12	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Strontium, dissolved	7440-24-6	0.124	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Uranium, dissolved	7440-61-1	0.000145	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Zinc, dissolved	7440-66-6	0.0014	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Dissolved mercury filtration location	----	Field	-	-	EP509/EO	-	05-Sep-2025	2201674
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	06-Sep-2025	2203384
Radiological Parameters								
Radium-226	13982-63-3	See attached	0.005	Bq/L	Ra-226/2I	-	17-Sep-2025	-

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

EO2507799-007

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: WQ13
Client sampling date / time: 25-Aug-2025 15:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	55.1	1.2	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Alkalinity, total (as CaCO3)	----	45.2	1.0	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Conductivity	----	84.1	1.0	µS/cm	E100/EO	03-Sep-2025	03-Sep-2025	2197461
Hardness (as CaCO3), dissolved	----	45.1	0.50	mg/L	EC100/EO	-	08-Sep-2025	-
pH	----	7.71	0.10	pH units	E108/EO	03-Sep-2025	03-Sep-2025	2197462
Solids, total dissolved [TDS]	----	92	20	mg/L	E162/EO	-	05-Sep-2025	2197661
Solids, total dissolved [TDS], calculated	----	45.6	1.0	mg/L	EC103/EO	-	04-Sep-2025	-
Solids, total suspended [TSS]	----	5.3	3.0	mg/L	E160/EO	-	05-Sep-2025	2197347
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	0.0175	0.0050	mg/L	E298/EO	04-Sep-2025	05-Sep-2025	2199771
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl/EO	03-Sep-2025	03-Sep-2025	2197421
Fluoride	16984-48-8	0.173	0.020	mg/L	E235.F/EO	03-Sep-2025	03-Sep-2025	2197420
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	03-Sep-2025	03-Sep-2025	2197418
Nitrate + Nitrite (as N)	----	<0.0224	0.0224	mg/L	EC235.N+N/EO	-	04-Sep-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	03-Sep-2025	03-Sep-2025	2197419
Phosphorus, total	7723-14-0	0.0236	0.0020	mg/L	E372-U/EO	05-Sep-2025	05-Sep-2025	2201465
Sulfate (as SO4)	14808-79-8	<0.30	0.30	mg/L	E235.SO4/EO	03-Sep-2025	03-Sep-2025	2197417
Ion Balance								
Ion balance (cations/anions)	----	109	0.010	%	EC101/EO	-	04-Sep-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0560	0.0030	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Arsenic, total	7440-38-2	0.00029	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Barium, total	7440-39-3	0.162	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Boron, total	7440-42-8	<0.010	0.010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Calcium, total	7440-70-2	9.47	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Copper, total	7440-50-8	0.00157	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Iron, total	7439-89-6	0.404	0.010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Lead, total	7439-92-1	0.000126	0.000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Magnesium, total	7439-95-4	5.17	0.0050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Manganese, total	7439-96-5	0.0174	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/EO	05-Sep-2025	05-Sep-2025	2201911
Nickel, total	7440-02-0	0.00166	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Potassium, total	7440-09-7	0.800	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Selenium, total	7782-49-2	0.000074	0.000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Sodium, total	7440-23-5	1.51	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Uranium, total	7440-61-1	0.000223	0.000010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0156	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384

Analytical Results

EO2507799-007

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ13
Client sampling date / time: 25-Aug-2025 15:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Arsenic, dissolved	7440-38-2	0.00025	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Barium, dissolved	7440-39-3	0.151	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Calcium, dissolved	7440-70-2	9.51	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Copper, dissolved	7440-50-8	0.00105	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Iron, dissolved	7439-89-6	0.208	0.010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Lithium, dissolved	7439-93-2	0.0019	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Magnesium, dissolved	7439-95-4	5.19	0.0050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Manganese, dissolved	7439-96-5	0.00398	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/EO	05-Sep-2025	05-Sep-2025	2201674
Molybdenum, dissolved	7439-98-7	0.000263	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Nickel, dissolved	7440-02-0	0.00146	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Potassium, dissolved	7440-09-7	0.715	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Rubidium, dissolved	7440-17-7	0.00205	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Silicon, dissolved	7440-21-3	0.441	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Sodium, dissolved	7440-23-5	1.44	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Strontium, dissolved	7440-24-6	0.139	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Titanium, dissolved	7440-32-6	0.00035	0.00030	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Uranium, dissolved	7440-61-1	0.000196	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Zinc, dissolved	7440-66-6	0.0016	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Zirconium, dissolved	7440-67-7	0.00029	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Dissolved mercury filtration location	----	Field	-	-	EP509/EO	-	05-Sep-2025	2201674
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	06-Sep-2025	2203384
Radiological Parameters								
Radium-226	13982-63-3	See attached	0.005	Bq/L	Ra-226/2I	-	17-Sep-2025	-

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

EO2507799-008

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: W4

Client sampling date / time: 26-Aug-2025 14:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	66.7	1.2	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Alkalinity, total (as CaCO3)	----	54.7	1.0	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Conductivity	----	98.6	1.0	µS/cm	E100/EO	03-Sep-2025	03-Sep-2025	2197461
Hardness (as CaCO3), dissolved	----	53.0	0.50	mg/L	EC100/EO	-	08-Sep-2025	-
pH	----	7.81	0.10	pH units	E108/EO	03-Sep-2025	03-Sep-2025	2197462
Solids, total dissolved [TDS]	----	75	20	mg/L	E162/EO	-	05-Sep-2025	2197661
Solids, total dissolved [TDS], calculated	----	54.3	1.0	mg/L	EC103/EO	-	04-Sep-2025	-
Solids, total suspended [TSS]	----	<3.0	3.0	mg/L	E160/EO	-	05-Sep-2025	2197347
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	0.0094	0.0050	mg/L	E298/EO	05-Sep-2025	05-Sep-2025	2199858
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl/EO	03-Sep-2025	03-Sep-2025	2197421
Fluoride	16984-48-8	0.124	0.020	mg/L	E235.F/EO	03-Sep-2025	03-Sep-2025	2197420
Nitrate (as N)	14797-55-8	0.038	0.020	mg/L	E235.NO3/EO	03-Sep-2025	03-Sep-2025	2197418
Nitrate + Nitrite (as N)	----	0.0380	0.0224	mg/L	EC235.N+N/EO	-	04-Sep-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	03-Sep-2025	03-Sep-2025	2197419
Phosphorus, total	7723-14-0	0.0076	0.0020	mg/L	E372-U/EO	05-Sep-2025	05-Sep-2025	2201465
Sulfate (as SO4)	14808-79-8	<0.30	0.30	mg/L	E235.SO4/EO	03-Sep-2025	03-Sep-2025	2197417
Ion Balance								
Ion balance (cations/anions)	----	101	0.010	%	EC101/EO	-	04-Sep-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0050	0.0030	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Arsenic, total	7440-38-2	0.00014	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Barium, total	7440-39-3	0.187	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Boron, total	7440-42-8	<0.010	0.010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Calcium, total	7440-70-2	11.1	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Copper, total	7440-50-8	0.00135	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Iron, total	7439-89-6	0.046	0.010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Magnesium, total	7439-95-4	6.30	0.0050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Manganese, total	7439-96-5	0.00906	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/EO	05-Sep-2025	05-Sep-2025	2201911
Nickel, total	7440-02-0	0.00072	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Potassium, total	7440-09-7	0.483	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Selenium, total	7782-49-2	0.000070	0.000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Sodium, total	7440-23-5	1.06	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Uranium, total	7440-61-1	0.000638	0.000010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0022	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384

Analytical Results

EO2507799-008

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: W4

Client sampling date / time: 26-Aug-2025 14:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Arsenic, dissolved	7440-38-2	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Barium, dissolved	7440-39-3	0.173	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Calcium, dissolved	7440-70-2	11.1	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Copper, dissolved	7440-50-8	0.00072	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Iron, dissolved	7439-89-6	0.028	0.010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Magnesium, dissolved	7439-95-4	6.15	0.0050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Manganese, dissolved	7439-96-5	0.00589	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/EO	05-Sep-2025	05-Sep-2025	2201674
Molybdenum, dissolved	7439-98-7	0.000342	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Nickel, dissolved	7440-02-0	0.00055	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Potassium, dissolved	7440-09-7	0.444	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Rubidium, dissolved	7440-17-7	0.00091	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Silicon, dissolved	7440-21-3	0.935	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Sodium, dissolved	7440-23-5	0.938	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Strontium, dissolved	7440-24-6	0.176	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Uranium, dissolved	7440-61-1	0.000611	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Zinc, dissolved	7440-66-6	0.0013	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Dissolved mercury filtration location	----	Field	-	-	EP509/EO	-	05-Sep-2025	2201674
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	06-Sep-2025	2203384
Radiological Parameters								
Radium-226	13982-63-3	See attached	0.005	Bq/L	Ra-226/2I	-	17-Sep-2025	-

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

EO2507799-009

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: WQ26
Client sampling date / time: 26-Aug-2025 15:40

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	44.4	1.2	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197627
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197627
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197627
Alkalinity, total (as CaCO3)	----	36.4	1.0	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197627
Conductivity	----	70.2	1.0	µS/cm	E100/EO	03-Sep-2025	03-Sep-2025	2197626
Hardness (as CaCO3), dissolved	----	36.4	0.50	mg/L	EC100/EO	-	08-Sep-2025	-
pH	----	7.58	0.10	pH units	E108/EO	03-Sep-2025	03-Sep-2025	2197625
Solids, total dissolved [TDS]	----	69	20	mg/L	E162/EO	-	05-Sep-2025	2197661
Solids, total dissolved [TDS], calculated	----	37.8	1.0	mg/L	EC103/EO	-	04-Sep-2025	-
Solids, total suspended [TSS]	----	<3.0	3.0	mg/L	E160/EO	-	05-Sep-2025	2197347
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	0.0077	0.0050	mg/L	E298/EO	05-Sep-2025	05-Sep-2025	2199858
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl/EO	03-Sep-2025	03-Sep-2025	2197421
Fluoride	16984-48-8	0.129	0.020	mg/L	E235.F/EO	03-Sep-2025	03-Sep-2025	2197420
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	03-Sep-2025	03-Sep-2025	2197418
Nitrate + Nitrite (as N)	----	<0.0224	0.0224	mg/L	EC235.N+N/EO	-	04-Sep-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	03-Sep-2025	03-Sep-2025	2197419
Phosphorus, total	7723-14-0	0.0136	0.0020	mg/L	E372-U/EO	05-Sep-2025	05-Sep-2025	2201465
Sulfate (as SO4)	14808-79-8	1.17	0.30	mg/L	E235.SO4/EO	03-Sep-2025	03-Sep-2025	2197417
Ion Balance								
Ion balance (cations/anions)	----	104	0.010	%	EC101/EO	-	04-Sep-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0288	0.0030	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Arsenic, total	7440-38-2	0.00018	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Barium, total	7440-39-3	0.0832	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Boron, total	7440-42-8	<0.010	0.010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Cadmium, total	7440-43-9	0.0000072	0.0000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Calcium, total	7440-70-2	10.0	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Copper, total	7440-50-8	0.00296	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Iron, total	7439-89-6	0.130	0.010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Magnesium, total	7439-95-4	2.86	0.0050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Manganese, total	7439-96-5	0.0101	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/EO	05-Sep-2025	05-Sep-2025	2201911
Nickel, total	7440-02-0	0.00084	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Potassium, total	7440-09-7	0.516	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Selenium, total	7782-49-2	0.000108	0.000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Sodium, total	7440-23-5	1.06	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Uranium, total	7440-61-1	0.00134	0.000010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0223	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384

Analytical Results

EO2507799-009

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ26
Client sampling date / time: 26-Aug-2025 15:40

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Arsenic, dissolved	7440-38-2	0.00015	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Barium, dissolved	7440-39-3	0.0765	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Calcium, dissolved	7440-70-2	9.90	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Copper, dissolved	7440-50-8	0.00234	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Iron, dissolved	7439-89-6	0.071	0.010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Magnesium, dissolved	7439-95-4	2.84	0.0050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Manganese, dissolved	7439-96-5	0.00186	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/EO	05-Sep-2025	05-Sep-2025	2201674
Molybdenum, dissolved	7439-98-7	0.00136	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Nickel, dissolved	7440-02-0	0.00076	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Potassium, dissolved	7440-09-7	0.488	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Rubidium, dissolved	7440-17-7	0.00124	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Silicon, dissolved	7440-21-3	0.129	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Sodium, dissolved	7440-23-5	0.998	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Strontium, dissolved	7440-24-6	0.0687	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Sulfur, dissolved	7704-34-9	0.81	0.50	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Uranium, dissolved	7440-61-1	0.00130	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Zinc, dissolved	7440-66-6	0.0011	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Zirconium, dissolved	7440-67-7	0.00025	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Dissolved mercury filtration location	----	Field	-	-	EP509/EO	-	05-Sep-2025	2201674
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	06-Sep-2025	2203384
Radiological Parameters								
Radium-226	13982-63-3	See attached	0.005	Bq/L	Ra-226/2I	-	17-Sep-2025	-

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

EO2507799-010

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ25
Client sampling date / time: 26-Aug-2025 16:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	138	1.2	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Alkalinity, total (as CaCO3)	----	113	1.0	mg/L	E290/EO	03-Sep-2025	03-Sep-2025	2197463
Conductivity	----	253	1.0	µS/cm	E100/EO	03-Sep-2025	03-Sep-2025	2197461
Hardness (as CaCO3), dissolved	----	129	0.50	mg/L	EC100/EO	-	08-Sep-2025	-
pH	----	7.96	0.10	pH units	E108/EO	03-Sep-2025	03-Sep-2025	2197462
Solids, total dissolved [TDS]	----	178	20	mg/L	E162/EO	-	05-Sep-2025	2197661
Solids, total dissolved [TDS], calculated	----	146	1.0	mg/L	EC103/EO	-	04-Sep-2025	-
Solids, total suspended [TSS]	----	<3.0	3.0	mg/L	E160/EO	-	05-Sep-2025	2197347
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	0.0121	0.0050	mg/L	E298/EO	05-Sep-2025	05-Sep-2025	2199858
Chloride	16887-00-6	12.4	0.50	mg/L	E235.Cl/EO	03-Sep-2025	03-Sep-2025	2197421
Fluoride	16984-48-8	0.250	0.020	mg/L	E235.F/EO	03-Sep-2025	03-Sep-2025	2197420
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	03-Sep-2025	03-Sep-2025	2197418
Nitrate + Nitrite (as N)	----	<0.0224	0.0224	mg/L	EC235.N+N/EO	-	04-Sep-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	03-Sep-2025	03-Sep-2025	2197419
Phosphorus, total	7723-14-0	0.0209	0.0020	mg/L	E372-U/EO	05-Sep-2025	05-Sep-2025	2201465
Sulfate (as SO4)	14808-79-8	6.01	0.30	mg/L	E235.SO4/EO	03-Sep-2025	03-Sep-2025	2197417
Ion Balance								
Ion balance (cations/anions)	----	98.5	0.010	%	EC101/EO	-	04-Sep-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0396	0.0030	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Antimony, total	7440-36-0	0.00015	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Arsenic, total	7440-38-2	0.00023	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Barium, total	7440-39-3	0.102	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Boron, total	7440-42-8	<0.010	0.010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Cadmium, total	7440-43-9	0.0000151	0.0000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Calcium, total	7440-70-2	39.8	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Copper, total	7440-50-8	0.00783	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Iron, total	7439-89-6	0.064	0.010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Lead, total	7439-92-1	0.000373	0.000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Magnesium, total	7439-95-4	6.21	0.0050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Manganese, total	7439-96-5	0.0153	0.00010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/EO	05-Sep-2025	05-Sep-2025	2201911
Nickel, total	7440-02-0	0.00071	0.00050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Potassium, total	7440-09-7	1.03	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Selenium, total	7782-49-2	0.000091	0.000050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Silver, total	7440-22-4	0.000011	0.000010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Sodium, total	7440-23-5	2.02	0.050	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Uranium, total	7440-61-1	0.121	0.000010	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Zinc, total	7440-66-6	0.0032	0.0030	mg/L	E420/EO	08-Sep-2025	08-Sep-2025	2205196
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0226	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384

Analytical Results

EO2507799-010

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: WQ25
Client sampling date / time: 26-Aug-2025 16:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Arsenic, dissolved	7440-38-2	0.00021	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Barium, dissolved	7440-39-3	0.109	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cadmium, dissolved	7440-43-9	0.0000118	0.0000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Calcium, dissolved	7440-70-2	40.4	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Copper, dissolved	7440-50-8	0.00667	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Iron, dissolved	7439-89-6	0.029	0.010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Lead, dissolved	7439-92-1	0.000077	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Lithium, dissolved	7439-93-2	0.0015	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Magnesium, dissolved	7439-95-4	6.95	0.0050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Manganese, dissolved	7439-96-5	0.00761	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/EO	05-Sep-2025	05-Sep-2025	2201674
Molybdenum, dissolved	7439-98-7	0.0114	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Nickel, dissolved	7440-02-0	0.00063	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Potassium, dissolved	7440-09-7	1.11	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Rubidium, dissolved	7440-17-7	0.00095	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Selenium, dissolved	7782-49-2	0.000074	0.000050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Silicon, dissolved	7440-21-3	3.38	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Sodium, dissolved	7440-23-5	2.12	0.050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Strontium, dissolved	7440-24-6	0.243	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Sulfur, dissolved	7704-34-9	2.29	0.50	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Thallium, dissolved	7440-28-0	0.000014	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Titanium, dissolved	7440-32-6	0.00045	0.00030	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Uranium, dissolved	7440-61-1	0.120	0.000010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Zinc, dissolved	7440-66-6	0.0019	0.0010	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Zirconium, dissolved	7440-67-7	0.00080	0.00020	mg/L	E421/EO	06-Sep-2025	06-Sep-2025	2203384
Dissolved mercury filtration location	----	Field	-	-	EP509/EO	-	05-Sep-2025	2201674
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	06-Sep-2025	2203384
Radiological Parameters								
Radium-226	13982-63-3	See attached	0.005	Bq/L	Ra-226/2I	-	17-Sep-2025	-

Please refer to the General Comments section for an explanation of any result qualifiers detected.

ALS Canada Ltd.

QUALITY CONTROL REPORT

Work Order	: **EO2507799**	Page	: 1 of 14
Client	: Sustainable Solutions Group (2SG Inc.)	Laboratory	: ALS Environmental - Edmonton
Contact	: Ryan Van Engen	Account Manager	: Vishal Akolkar
Address	: 68 Cork St. W Guelph ON Canada NIH 2X4	Address	: 9450 - 17 Avenue NW Edmonton, Alberta Canada T6N 1M9
Telephone	: 519.710.8516	Telephone	: +1 780 413 5227
Project	: Angilak	Date Samples Received	: 03-Sep-2025 09:00
PO	: P-CA202500004399	Date Analysis Commenced	: 03-Sep-2025
C-O-C number	: ----	Issue Date	: 25-Sep-2025 14:10
Sampler	: RV/LK		
Site	: ----		
Quote number	: EO24-SSGR100-001 (water)		
No. of samples received	: 10		
No. of samples analysed	: 10		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Alannah Barron	Laboratory Analyst	Edmonton Metals, Edmonton, Alberta
Alastair McGibbon	Laboratory Analyst	Edmonton Inorganics, Edmonton, Alberta
Alex Drake	Lab Analyst	Edmonton Inorganics, Edmonton, Alberta
Alex Drake	Lab Analyst	Edmonton Metals, Edmonton, Alberta
Brayden Ginther	Laboratory Analyst	Edmonton Inorganics, Edmonton, Alberta
Dan Nguyen	Team Leader - Inorganics	Edmonton Metals, Edmonton, Alberta
Daniel Nguyen	Laboratory Analyst	Edmonton Metals, Edmonton, Alberta
Jing Liu	Laboratory Analyst	Edmonton Inorganics, Edmonton, Alberta
Leah Yee	Lab Assistant	Edmonton Inorganics, Edmonton, Alberta
Ping Yeung	Team Leader - Inorganics	Edmonton Inorganics, Edmonton, Alberta
Shruti Mudliar	Lab Analyst	Edmonton Inorganics, Edmonton, Alberta
Vishal Akolkar	Account Manager	Saskatchewan Research Council External Subcontracting, Saskatoon, Saskatchewan

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Physical Tests (QC Lot: 2197347)											
EO2507698-001	Anonymous	Solids, total suspended [TSS]	----	E160	6.0	mg/L	71.4	66.2	7.56%	20%	----
Physical Tests (QC Lot: 2197461)											
EO2507799-010	WQ25	Conductivity	----	E100	1.0	µS/cm	253	255	0.787%	10%	----
Physical Tests (QC Lot: 2197462)											
EO2507799-010	WQ25	pH	----	E108	0.10	pH units	7.96	7.99	0.376%	3%	----
Physical Tests (QC Lot: 2197463)											
EO2507799-010	WQ25	Alkalinity, total (as CaCO3)	----	E290	1.0	mg/L	113	113	0.355%	20%	----
Physical Tests (QC Lot: 2197625)											
EO2506833-016	Anonymous	pH	----	E108	0.10	pH units	7.97	7.98	0.125%	3%	----
Physical Tests (QC Lot: 2197626)											
EO2506833-016	Anonymous	Conductivity	----	E100	2.0	µS/cm	10700	10700	0.280%	10%	----
Physical Tests (QC Lot: 2197627)											
EO2506833-016	Anonymous	Alkalinity, total (as CaCO3)	----	E290	2.0	mg/L	4730	4540	4.19%	20%	----
Physical Tests (QC Lot: 2197661)											
EO2507731-025	Anonymous	Solids, total dissolved [TDS]	----	E162	80	mg/L	14100	13700	2.63%	20%	----
Anions and Nutrients (QC Lot: 2197417)											
EO2507799-010	WQ25	Sulfate (as SO4)	14808-79-8	E235.SO4	0.30	mg/L	6.01	6.04	0.481%	20%	----
Anions and Nutrients (QC Lot: 2197418)											
EO2507799-010	WQ25	Nitrate (as N)	14797-55-8	E235.NO3	0.020	mg/L	<0.020	<0.020	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2197419)											
EO2507799-010	WQ25	Nitrite (as N)	14797-65-0	E235.NO2	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2197420)											
EO2507799-010	WQ25	Fluoride	16984-48-8	E235.F	0.020	mg/L	0.250	0.260	3.92%	20%	----
Anions and Nutrients (QC Lot: 2197421)											
EO2507799-010	WQ25	Chloride	16887-00-6	E235.Cl	0.50	mg/L	12.4	12.3	0.308%	20%	----
Anions and Nutrients (QC Lot: 2199771)											
EO2507790-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.0050	mg/L	0.121	0.123	1.56%	20%	----
Anions and Nutrients (QC Lot: 2199858)											
EO2507799-010	WQ25	Ammonia, total (as N)	7664-41-7	E298	0.0050	mg/L	0.0121	0.0124	0.0003	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2201465)											

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Anions and Nutrients (QC Lot: 2201465) - continued											
EO2507799-001	WQ14	Phosphorus, total	7723-14-0	E372-U	0.0020	mg/L	0.0092	0.0094	0.0003	Diff <2x LOR	----
Total Metals (QC Lot: 2201911)											
EO2507799-001	WQ14	Mercury, total	7439-97-6	E508	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Total Metals (QC Lot: 2205196)											
EO2507799-001	WQ14	Aluminum, total	7429-90-5	E420	0.0030	mg/L	0.0194	0.0195	0.0001	Diff <2x LOR	----
		Antimony, total	7440-36-0	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Arsenic, total	7440-38-2	E420	0.00010	mg/L	0.00013	0.00015	0.00002	Diff <2x LOR	----
		Barium, total	7440-39-3	E420	0.00010	mg/L	0.0643	0.0635	1.34%	20%	----
		Boron, total	7440-42-8	E420	0.010	mg/L	0.017	0.018	0.0005	Diff <2x LOR	----
		Cadmium, total	7440-43-9	E420	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
		Calcium, total	7440-70-2	E420	0.050	mg/L	5.03	5.08	0.930%	20%	----
		Chromium, total	7440-47-3	E420	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Copper, total	7440-50-8	E420	0.00050	mg/L	0.00110	0.00104	0.00006	Diff <2x LOR	----
		Iron, total	7439-89-6	E420	0.010	mg/L	0.065	0.064	0.0003	Diff <2x LOR	----
		Lead, total	7439-92-1	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Magnesium, total	7439-95-4	E420	0.0050	mg/L	2.69	2.61	2.92%	20%	----
		Manganese, total	7439-96-5	E420	0.00010	mg/L	0.0118	0.0119	0.899%	20%	----
		Nickel, total	7440-02-0	E420	0.00050	mg/L	0.00077	0.00074	0.00003	Diff <2x LOR	----
		Potassium, total	7440-09-7	E420	0.050	mg/L	0.493	0.483	0.010	Diff <2x LOR	----
		Selenium, total	7782-49-2	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Silver, total	7440-22-4	E420	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Sodium, total	7440-23-5	E420	0.050	mg/L	0.881	0.880	0.159%	20%	----
		Uranium, total	7440-61-1	E420	0.000010	mg/L	0.000084	0.000083	0.000001	Diff <2x LOR	----
		Zinc, total	7440-66-6	E420	0.0030	mg/L	<0.0030	<0.0030	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 2201674)											
EO2506833-001	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 2203384)											
EO2507799-001	WQ14	Aluminum, dissolved	7429-90-5	E421	0.0010	mg/L	0.0049	0.0053	0.0004	Diff <2x LOR	----
		Antimony, dissolved	7440-36-0	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	0.00012	0.00011	0.000007	Diff <2x LOR	----
		Barium, dissolved	7440-39-3	E421	0.00010	mg/L	0.0596	0.0595	0.170%	20%	----
		Beryllium, dissolved	7440-41-7	E421	0.000020	mg/L	<0.000020	<0.000020	0	Diff <2x LOR	----
		Bismuth, dissolved	7440-69-9	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Boron, dissolved	7440-42-8	E421	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	----

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Dissolved Metals (QC Lot: 2203384) - continued											
EO2507799-001	WQ14	Cadmium, dissolved	7440-43-9	E421	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
		Calcium, dissolved	7440-70-2	E421	0.050	mg/L	5.25	5.18	1.35%	20%	----
		Cesium, dissolved	7440-46-2	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Chromium, dissolved	7440-47-3	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Cobalt, dissolved	7440-48-4	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Copper, dissolved	7440-50-8	E421	0.00020	mg/L	0.00049	0.00050	0.000004	Diff <2x LOR	----
		Iron, dissolved	7439-89-6	E421	0.010	mg/L	0.017	0.017	0.0004	Diff <2x LOR	----
		Lead, dissolved	7439-92-1	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Lithium, dissolved	7439-93-2	E421	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
		Magnesium, dissolved	7439-95-4	E421	0.0050	mg/L	2.59	2.63	1.39%	20%	----
		Manganese, dissolved	7439-96-5	E421	0.00010	mg/L	0.00100	0.00098	0.00002	Diff <2x LOR	----
		Molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	0.000116	0.000114	0.000002	Diff <2x LOR	----
		Nickel, dissolved	7440-02-0	E421	0.00050	mg/L	0.00053	0.00053	0.000005	Diff <2x LOR	----
		Phosphorus, dissolved	7723-14-0	E421	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Potassium, dissolved	7440-09-7	E421	0.050	mg/L	0.459	0.468	0.009	Diff <2x LOR	----
		Rubidium, dissolved	7440-17-7	E421	0.00020	mg/L	0.00114	0.00112	0.00001	Diff <2x LOR	----
		Selenium, dissolved	7782-49-2	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Silicon, dissolved	7440-21-3	E421	0.050	mg/L	0.361	0.365	0.004	Diff <2x LOR	----
		Silver, dissolved	7440-22-4	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Sodium, dissolved	7440-23-5	E421	0.050	mg/L	0.765	0.769	0.601%	20%	----
		Strontium, dissolved	7440-24-6	E421	0.00020	mg/L	0.0831	0.0838	0.860%	20%	----
		Sulfur, dissolved	7704-34-9	E421	0.50	mg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tellurium, dissolved	13494-80-9	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
		Thallium, dissolved	7440-28-0	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Thorium, dissolved	7440-29-1	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Tin, dissolved	7440-31-5	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Titanium, dissolved	7440-32-6	E421	0.00030	mg/L	<0.00030	<0.00030	0	Diff <2x LOR	----
		Tungsten, dissolved	7440-33-7	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Uranium, dissolved	7440-61-1	E421	0.000010	mg/L	0.000073	0.000076	0.000003	Diff <2x LOR	----
		Vanadium, dissolved	7440-62-2	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Zinc, dissolved	7440-66-6	E421	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
		Zirconium, dissolved	7440-67-7	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 2197347)						
Solids, total suspended [TSS]	----	E160	3	mg/L	<3.0	----
Physical Tests (QCLot: 2197461)						
Conductivity	----	E100	1	µS/cm	<1.0	----
Physical Tests (QCLot: 2197463)						
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	<1.0	----
Physical Tests (QCLot: 2197626)						
Conductivity	----	E100	1	µS/cm	<1.0	----
Physical Tests (QCLot: 2197627)						
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	<1.0	----
Physical Tests (QCLot: 2197661)						
Solids, total dissolved [TDS]	----	E162	10	mg/L	<10	----
Anions and Nutrients (QCLot: 2197417)						
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	<0.30	----
Anions and Nutrients (QCLot: 2197418)						
Nitrate (as N)	14797-55-8	E235.NO3	0.02	mg/L	<0.020	----
Anions and Nutrients (QCLot: 2197419)						
Nitrite (as N)	14797-65-0	E235.NO2	0.01	mg/L	<0.010	----
Anions and Nutrients (QCLot: 2197420)						
Fluoride	16984-48-8	E235.F	0.02	mg/L	<0.020	----
Anions and Nutrients (QCLot: 2197421)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Anions and Nutrients (QCLot: 2199771)						
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	<0.0050	----
Anions and Nutrients (QCLot: 2199858)						
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	<0.0050	----
Anions and Nutrients (QCLot: 2201465)						
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	<0.0020	----
Total Metals (QCLot: 2201911)						
Mercury, total	7439-97-6	E508	0.000005	mg/L	<0.0000050	----
Total Metals (QCLot: 2205196)						
Aluminum, total	7429-90-5	E420	0.003	mg/L	<0.0030	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 2205196) - continued						
Antimony, total	7440-36-0	E420	0.0001	mg/L	<0.00010	----
Arsenic, total	7440-38-2	E420	0.0001	mg/L	<0.00010	----
Barium, total	7440-39-3	E420	0.0001	mg/L	<0.00010	----
Boron, total	7440-42-8	E420	0.01	mg/L	<0.010	----
Cadmium, total	7440-43-9	E420	0.000005	mg/L	<0.0000050	----
Calcium, total	7440-70-2	E420	0.05	mg/L	<0.050	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	<0.00050	----
Copper, total	7440-50-8	E420	0.0005	mg/L	<0.00050	----
Iron, total	7439-89-6	E420	0.01	mg/L	<0.010	----
Lead, total	7439-92-1	E420	0.00005	mg/L	<0.000050	----
Magnesium, total	7439-95-4	E420	0.005	mg/L	<0.0050	----
Manganese, total	7439-96-5	E420	0.0001	mg/L	<0.00010	----
Nickel, total	7440-02-0	E420	0.0005	mg/L	<0.00050	----
Potassium, total	7440-09-7	E420	0.05	mg/L	<0.050	----
Selenium, total	7782-49-2	E420	0.00005	mg/L	<0.000050	----
Silver, total	7440-22-4	E420	0.00001	mg/L	<0.000010	----
Sodium, total	7440-23-5	E420	0.05	mg/L	<0.050	----
Uranium, total	7440-61-1	E420	0.00001	mg/L	<0.000010	----
Zinc, total	7440-66-6	E420	0.003	mg/L	<0.0030	----
Dissolved Metals (QCLot: 2201674)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Dissolved Metals (QCLot: 2203384)						
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	<0.0010	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	<0.00010	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	<0.00010	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	<0.00010	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	<0.000020	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	<0.000050	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	<0.010	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	<0.0000050	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	<0.050	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	<0.000010	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	<0.00050	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	<0.00010	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	<0.00020	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Dissolved Metals (QCLot: 2203384) - continued						
Iron, dissolved	7439-89-6	E421	0.01	mg/L	<0.010	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	<0.0010	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	<0.0050	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	<0.00010	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	<0.000050	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	<0.00050	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	<0.050	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	<0.050	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	<0.00020	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	<0.000050	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	<0.050	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	<0.000010	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	<0.00020	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	<0.50	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	<0.00020	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	<0.00010	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	<0.00010	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	<0.00030	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	<0.00010	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	<0.000010	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	<0.00050	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	<0.0010	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	<0.00020	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 2197347)									
Solids, total suspended [TSS]	----	E160	3	mg/L	150 mg/L	109	85.0	115	----
Physical Tests (QCLot: 2197461)									
Conductivity	----	E100	1	µS/cm	1410 µS/cm	102	90.0	110	----
Physical Tests (QCLot: 2197462)									
pH	----	E108	----	pH units	6 pH units	102	97.0	103	----
Physical Tests (QCLot: 2197463)									
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	500 mg/L	101	85.0	115	----
Physical Tests (QCLot: 2197625)									
pH	----	E108	----	pH units	6 pH units	102	97.0	103	----
Physical Tests (QCLot: 2197626)									
Conductivity	----	E100	1	µS/cm	1410 µS/cm	97.2	90.0	110	----
Physical Tests (QCLot: 2197627)									
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	500 mg/L	103	85.0	115	----
Physical Tests (QCLot: 2197661)									
Solids, total dissolved [TDS]	----	E162	10	mg/L	1000 mg/L	92.8	85.0	115	----
Anions and Nutrients (QCLot: 2197417)									
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	100 mg/L	97.8	90.0	110	----
Anions and Nutrients (QCLot: 2197418)									
Nitrate (as N)	14797-55-8	E235.NO3	0.02	mg/L	2.5 mg/L	99.6	90.0	110	----
Anions and Nutrients (QCLot: 2197419)									
Nitrite (as N)	14797-65-0	E235.NO2	0.01	mg/L	0.5 mg/L	96.4	90.0	110	----
Anions and Nutrients (QCLot: 2197420)									
Fluoride	16984-48-8	E235.F	0.02	mg/L	1 mg/L	102	90.0	110	----
Anions and Nutrients (QCLot: 2197421)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	98.7	90.0	110	----
Anions and Nutrients (QCLot: 2199771)									
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	101	85.0	115	----
Anions and Nutrients (QCLot: 2199858)									
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	103	85.0	115	----
Anions and Nutrients (QCLot: 2201465)									
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	0.05 mg/L	105	80.0	120	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 2201911)									
Mercury, total	7439-97-6	E508	0.000005	mg/L	0 mg/L	90.0	80.0	120	----
Total Metals (QCLot: 2205196)									
Aluminum, total	7429-90-5	E420	0.003	mg/L	2 mg/L	98.1	80.0	120	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	1 mg/L	97.9	80.0	120	----
Arsenic, total	7440-38-2	E420	0.0001	mg/L	1 mg/L	100	80.0	120	----
Barium, total	7440-39-3	E420	0.0001	mg/L	0.25 mg/L	102	80.0	120	----
Boron, total	7440-42-8	E420	0.01	mg/L	1 mg/L	106	80.0	120	----
Cadmium, total	7440-43-9	E420	0.000005	mg/L	0.1 mg/L	98.9	80.0	120	----
Calcium, total	7440-70-2	E420	0.05	mg/L	50 mg/L	101	80.0	120	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	0.25 mg/L	101	80.0	120	----
Copper, total	7440-50-8	E420	0.0005	mg/L	0.25 mg/L	99.3	80.0	120	----
Iron, total	7439-89-6	E420	0.01	mg/L	1 mg/L	101	80.0	120	----
Lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	98.1	80.0	120	----
Magnesium, total	7439-95-4	E420	0.005	mg/L	50 mg/L	102	80.0	120	----
Manganese, total	7439-96-5	E420	0.0001	mg/L	0.25 mg/L	102	80.0	120	----
Nickel, total	7440-02-0	E420	0.0005	mg/L	0.5 mg/L	99.6	80.0	120	----
Potassium, total	7440-09-7	E420	0.05	mg/L	50 mg/L	102	80.0	120	----
Selenium, total	7782-49-2	E420	0.00005	mg/L	1 mg/L	101	80.0	120	----
Silver, total	7440-22-4	E420	0.00001	mg/L	0.1 mg/L	94.1	80.0	120	----
Sodium, total	7440-23-5	E420	0.05	mg/L	50 mg/L	103	80.0	120	----
Uranium, total	7440-61-1	E420	0.00001	mg/L	0.005 mg/L	103	80.0	120	----
Zinc, total	7440-66-6	E420	0.003	mg/L	0.5 mg/L	90.1	80.0	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0 mg/L	103	80.0	120	----
Dissolved Metals (QCLot: 2203384)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	2 mg/L	99.5	80.0	120	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	1 mg/L	99.5	80.0	120	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	1 mg/L	106	80.0	120	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.25 mg/L	107	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.1 mg/L	101	80.0	120	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	1 mg/L	101	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	1 mg/L	102	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.1 mg/L	105	80.0	120	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	50 mg/L	102	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.05 mg/L	102	80.0	120	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Dissolved Metals (QCLot: 2203384) - continued									
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.25 mg/L	104	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.25 mg/L	103	80.0	120	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.25 mg/L	102	80.0	120	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	1 mg/L	103	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.5 mg/L	103	80.0	120	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	0.25 mg/L	102	80.0	120	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	50 mg/L	104	80.0	120	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	0.25 mg/L	104	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.25 mg/L	104	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.5 mg/L	102	80.0	120	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	10 mg/L	110	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	50 mg/L	104	80.0	120	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.1 mg/L	106	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	1 mg/L	104	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	10 mg/L	101	80.0	120	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.1 mg/L	97.7	80.0	120	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	50 mg/L	104	80.0	120	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	0.25 mg/L	103	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	50 mg/L	102	80.0	120	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.1 mg/L	104	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	1 mg/L	102	80.0	120	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	0.1 mg/L	100	80.0	120	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	0.5 mg/L	99.8	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.25 mg/L	98.2	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.1 mg/L	102	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.005 mg/L	106	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.5 mg/L	103	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.5 mg/L	98.1	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.1 mg/L	101	80.0	120	----

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nutrients (QCLot: 2197417)										
EO2507799-010	WQ25	Sulfate (as SO4)	14808-79-8	E235.SO4	98.5 mg/L	100 mg/L	98.5	75.0	125	----
Anions and Nutrients (QCLot: 2197418)										
EO2507799-010	WQ25	Nitrate (as N)	14797-55-8	E235.NO3	2.52 mg/L	2.5 mg/L	101	75.0	125	----
Anions and Nutrients (QCLot: 2197419)										
EO2507799-010	WQ25	Nitrite (as N)	14797-65-0	E235.NO2	0.516 mg/L	0.5 mg/L	103	75.0	125	----
Anions and Nutrients (QCLot: 2197420)										
EO2507799-010	WQ25	Fluoride	16984-48-8	E235.F	1.01 mg/L	1 mg/L	101	75.0	125	----
Anions and Nutrients (QCLot: 2197421)										
EO2507799-010	WQ25	Chloride	16887-00-6	E235.Cl	99.2 mg/L	100 mg/L	99.2	75.0	125	----
Anions and Nutrients (QCLot: 2199771)										
EO2507790-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	ND mg/L	----	ND	75.0	125	----
Anions and Nutrients (QCLot: 2199858)										
EO2507799-010	WQ25	Ammonia, total (as N)	7664-41-7	E298	0.0955 mg/L	0.1 mg/L	95.5	75.0	125	----
Anions and Nutrients (QCLot: 2201465)										
EO2507799-002	DUP1	Phosphorus, total	7723-14-0	E372-U	0.0671 mg/L	0.067 mg/L	100	70.0	130	----
Total Metals (QCLot: 2201911)										
EO2507799-002	DUP1	Mercury, total	7439-97-6	E508	0.000116 mg/L	0 mg/L	116	70.0	130	----
Total Metals (QCLot: 2205196)										
EO2507799-001	WQ14	Aluminum, total	7429-90-5	E420	0.205 mg/L	0.2 mg/L	103	70.0	130	----
		Antimony, total	7440-36-0	E420	0.0195 mg/L	0.02 mg/L	97.4	70.0	130	----
		Arsenic, total	7440-38-2	E420	0.0206 mg/L	0.02 mg/L	103	70.0	130	----
		Barium, total	7440-39-3	E420	ND mg/L	----	ND	70.0	130	----
		Boron, total	7440-42-8	E420	0.101 mg/L	0.1 mg/L	101	70.0	130	----
		Cadmium, total	7440-43-9	E420	0.00416 mg/L	0.004 mg/L	104	70.0	130	----
		Calcium, total	7440-70-2	E420	ND mg/L	----	ND	70.0	130	----
		Chromium, total	7440-47-3	E420	0.0424 mg/L	0.04 mg/L	106	70.0	130	----
		Copper, total	7440-50-8	E420	0.0209 mg/L	0.02 mg/L	105	70.0	130	----
		Iron, total	7439-89-6	E420	2.10 mg/L	2 mg/L	105	70.0	130	----
		Lead, total	7439-92-1	E420	0.0198 mg/L	0.02 mg/L	99.0	70.0	130	----
		Magnesium, total	7439-95-4	E420	ND mg/L	----	ND	70.0	130	----
		Manganese, total	7439-96-5	E420	0.0211 mg/L	0.02 mg/L	105	70.0	130	----
		Nickel, total	7440-02-0	E420	0.0425 mg/L	0.04 mg/L	106	70.0	130	----
		Potassium, total	7440-09-7	E420	4.03 mg/L	4 mg/L	101	70.0	130	----
		Selenium, total	7782-49-2	E420	0.0445 mg/L	0.04 mg/L	111	70.0	130	----

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Total Metals (QCLot: 2205196) - continued										
EO2507799-001	WQ14	Silver, total	7440-22-4	E420	0.00405 mg/L	0.004 mg/L	101	70.0	130	----
		Sodium, total	7440-23-5	E420	1.96 mg/L	2 mg/L	98.1	70.0	130	----
		Uranium, total	7440-61-1	E420	0.00411 mg/L	0.004 mg/L	103	70.0	130	----
		Zinc, total	7440-66-6	E420	0.379 mg/L	0.4 mg/L	94.8	70.0	130	----
Dissolved Metals (QCLot: 2201674)										
EO2506833-007	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000918 mg/L	0 mg/L	91.8	70.0	130	----
Dissolved Metals (QCLot: 2203384)										
EO2507799-002	DUP1	Aluminum, dissolved	7429-90-5	E421	0.205 mg/L	0.2 mg/L	102	70.0	130	----
		Antimony, dissolved	7440-36-0	E421	0.0215 mg/L	0.02 mg/L	108	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	0.0227 mg/L	0.02 mg/L	114	70.0	130	----
		Barium, dissolved	7440-39-3	E421	ND mg/L	----	ND	70.0	130	----
		Beryllium, dissolved	7440-41-7	E421	0.0459 mg/L	0.04 mg/L	115	70.0	130	----
		Bismuth, dissolved	7440-69-9	E421	0.0106 mg/L	0.01 mg/L	106	70.0	130	----
		Boron, dissolved	7440-42-8	E421	0.114 mg/L	0.1 mg/L	114	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.00457 mg/L	0.004 mg/L	114	70.0	130	----
		Calcium, dissolved	7440-70-2	E421	ND mg/L	----	ND	70.0	130	----
		Cesium, dissolved	7440-46-2	E421	0.0106 mg/L	0.01 mg/L	106	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	0.0446 mg/L	0.04 mg/L	111	70.0	130	----
		Cobalt, dissolved	7440-48-4	E421	0.0221 mg/L	0.02 mg/L	110	70.0	130	----
		Copper, dissolved	7440-50-8	E421	0.0218 mg/L	0.02 mg/L	109	70.0	130	----
		Iron, dissolved	7439-89-6	E421	2.20 mg/L	2 mg/L	110	70.0	130	----
		Lead, dissolved	7439-92-1	E421	0.0218 mg/L	0.02 mg/L	109	70.0	130	----
		Lithium, dissolved	7439-93-2	E421	0.110 mg/L	0.1 mg/L	110	70.0	130	----
		Magnesium, dissolved	7439-95-4	E421	ND mg/L	----	ND	70.0	130	----
		Manganese, dissolved	7439-96-5	E421	0.0218 mg/L	0.02 mg/L	109	70.0	130	----
		Molybdenum, dissolved	7439-98-7	E421	0.0225 mg/L	0.02 mg/L	112	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	0.0445 mg/L	0.04 mg/L	111	70.0	130	----
		Phosphorus, dissolved	7723-14-0	E421	11.0 mg/L	10 mg/L	110	70.0	130	----
		Potassium, dissolved	7440-09-7	E421	4.29 mg/L	4 mg/L	107	70.0	130	----
		Rubidium, dissolved	7440-17-7	E421	0.0220 mg/L	0.02 mg/L	110	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	0.0463 mg/L	0.04 mg/L	116	70.0	130	----
		Silicon, dissolved	7440-21-3	E421	10.3 mg/L	10 mg/L	103	70.0	130	----
		Silver, dissolved	7440-22-4	E421	0.00438 mg/L	0.004 mg/L	109	70.0	130	----
		Sodium, dissolved	7440-23-5	E421	2.12 mg/L	2 mg/L	106	70.0	130	----
		Strontium, dissolved	7440-24-6	E421	ND mg/L	----	ND	70.0	130	----
		Sulfur, dissolved	7704-34-9	E421	20.6 mg/L	20 mg/L	103	70.0	130	----
		Tellurium, dissolved	13494-80-9	E421	0.0459 mg/L	0.04 mg/L	115	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	0.00425 mg/L	0.004 mg/L	106	70.0	130	----
		Thorium, dissolved	7440-29-1	E421	0.0222 mg/L	0.02 mg/L	111	70.0	130	----
		Tin, dissolved	7440-31-5	E421	0.0216 mg/L	0.02 mg/L	108	70.0	130	----
		Titanium, dissolved	7440-32-6	E421	0.0428 mg/L	0.04 mg/L	107	70.0	130	----
		Tungsten, dissolved	7440-33-7	E421	0.0214 mg/L	0.02 mg/L	107	70.0	130	----
		Uranium, dissolved	7440-61-1	E421	0.00442 mg/L	0.004 mg/L	111	70.0	130	----

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Dissolved Metals (QCLot: 2203384) - continued										
EO2507799-002	DUP1	Vanadium, dissolved	7440-62-2	E421	0.109 mg/L	0.1 mg/L	109	70.0	130	----
		Zinc, dissolved	7440-66-6	E421	0.421 mg/L	0.4 mg/L	105	70.0	130	----
		Zirconium, dissolved	7440-67-7	E421	0.0446 mg/L	0.04 mg/L	112	70.0	130	----

ALS Canada Ltd.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **EO2507799**	Page	: 1 of 27
Client	: **Sustainable Solutions Group (2SG Inc.)**	Laboratory	: ALS Environmental - Edmonton
Contact	: Ryan Van Engen	Account Manager	: Vishal Akolkar
Address	: 68 Cork St. W Guelph ON Canada NIH 2X4	Address	: 9450 - 17 Avenue NW Edmonton, Alberta Canada T6N 1M9
Telephone	: 519.710.8516	Telephone	: +1 780 413 5227
Project	: Angilak	Date Samples Received	: 03-Sep-2025 09:00
PO	: P-CA202500004399	Issue Date	: 25-Sep-2025 14:10
C-O-C number	: ----		
Sampler	: RV/LK		
Site	: ----		
Quote number	: EO24-SSGR100-001 (water)		
No. of samples received	: 10		
No. of samples analysed	: 10		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) CP	E298	25-Aug-2025	04-Sep-2025	28 days	10 days	✓	05-Sep-2025	28 days	10 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) DUP1	E298	25-Aug-2025	04-Sep-2025	28 days	10 days	✓	05-Sep-2025	28 days	10 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) DUP2	E298	25-Aug-2025	04-Sep-2025	28 days	10 days	✓	05-Sep-2025	28 days	10 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) W4	E298	26-Aug-2025	05-Sep-2025	28 days	10 days	✓	05-Sep-2025	28 days	10 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WQ11	E298	25-Aug-2025	04-Sep-2025	28 days	10 days	✓	05-Sep-2025	28 days	10 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WQ12	E298	25-Aug-2025	04-Sep-2025	28 days	10 days	✓	05-Sep-2025	28 days	10 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WQ13	E298	25-Aug-2025	04-Sep-2025	28 days	10 days	✓	05-Sep-2025	28 days	10 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WQ14	E298	25-Aug-2025	04-Sep-2025	28 days	10 days	✓	05-Sep-2025	28 days	10 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WQ25	E298	26-Aug-2025	05-Sep-2025	28 days	10 days	✓	05-Sep-2025	28 days	10 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WQ26	E298	26-Aug-2025	05-Sep-2025	28 days	10 days	✓	05-Sep-2025	28 days	10 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE W4	E235.Cl	26-Aug-2025	03-Sep-2025	28 days	8 days	✓	03-Sep-2025	28 days	8 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE WQ25	E235.Cl	26-Aug-2025	03-Sep-2025	28 days	8 days	✓	03-Sep-2025	28 days	8 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE WQ26	E235.Cl	26-Aug-2025	03-Sep-2025	28 days	8 days	✓	03-Sep-2025	28 days	8 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE CP	E235.Cl	25-Aug-2025	03-Sep-2025	28 days	9 days	✓	03-Sep-2025	28 days	9 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE DUP1	E235.Cl	25-Aug-2025	03-Sep-2025	28 days	9 days	✓	03-Sep-2025	28 days	9 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE DUP2	E235.Cl	25-Aug-2025	03-Sep-2025	28 days	9 days	✓	03-Sep-2025	28 days	9 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Chloride in Water by IC										
HDPE WQ11	E235.Cl	25-Aug-2025	03-Sep-2025	28 days	9 days	✓	03-Sep-2025	28 days	9 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE WQ12	E235.Cl	25-Aug-2025	03-Sep-2025	28 days	9 days	✓	03-Sep-2025	28 days	9 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE WQ13	E235.Cl	25-Aug-2025	03-Sep-2025	28 days	9 days	✓	03-Sep-2025	28 days	9 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE WQ14	E235.Cl	25-Aug-2025	03-Sep-2025	28 days	9 days	✓	03-Sep-2025	28 days	9 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE W4	E235.F	26-Aug-2025	03-Sep-2025	28 days	8 days	✓	03-Sep-2025	28 days	8 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE WQ25	E235.F	26-Aug-2025	03-Sep-2025	28 days	8 days	✓	03-Sep-2025	28 days	8 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE WQ26	E235.F	26-Aug-2025	03-Sep-2025	28 days	8 days	✓	03-Sep-2025	28 days	8 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE CP	E235.F	25-Aug-2025	03-Sep-2025	28 days	9 days	✓	03-Sep-2025	28 days	9 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE DUP1	E235.F	25-Aug-2025	03-Sep-2025	28 days	9 days	✓	03-Sep-2025	28 days	9 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	*Method*	*Sampling Date*	*Extraction / Preparation*				*Analysis*			
			Preparation Date	*Holding Times*		*Eval*	*Analysis Date*	*Holding Times*		*Eval*
				Rec	*Actual*			*Rec*	*Actual*	
Anions and Nutrients : Fluoride in Water by IC										
HDPE DUP2	E235.F	25-Aug-2025	03-Sep-2025	28 days	9 days	✓	03-Sep-2025	28 days	9 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE WQ11	E235.F	25-Aug-2025	03-Sep-2025	28 days	9 days	✓	03-Sep-2025	28 days	9 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE WQ12	E235.F	25-Aug-2025	03-Sep-2025	28 days	9 days	✓	03-Sep-2025	28 days	9 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE WQ13	E235.F	25-Aug-2025	03-Sep-2025	28 days	9 days	✓	03-Sep-2025	28 days	9 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE WQ14	E235.F	25-Aug-2025	03-Sep-2025	28 days	9 days	✓	03-Sep-2025	28 days	9 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE W4	E235.NO3	26-Aug-2025	03-Sep-2025	3 days	7 days	× EHTR	03-Sep-2025	3 days	7 days	× EHTR
Anions and Nutrients : Nitrate in Water by IC										
HDPE WQ25	E235.NO3	26-Aug-2025	03-Sep-2025	3 days	7 days	× EHTR	03-Sep-2025	3 days	7 days	× EHTR
Anions and Nutrients : Nitrate in Water by IC										
HDPE WQ26	E235.NO3	26-Aug-2025	03-Sep-2025	3 days	7 days	× EHTR	03-Sep-2025	3 days	7 days	× EHTR
Anions and Nutrients : Nitrate in Water by IC										
HDPE WQ11	E235.NO3	25-Aug-2025	03-Sep-2025	3 days	8 days	× EHTR	03-Sep-2025	3 days	8 days	× EHTR

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Nitrate in Water by IC										
HDPE WQ12	E235.NO3	25-Aug-2025	03-Sep-2025	3 days	8 days	× EHTR	03-Sep-2025	3 days	8 days	× EHTR
Anions and Nutrients : Nitrate in Water by IC										
HDPE WQ13	E235.NO3	25-Aug-2025	03-Sep-2025	3 days	8 days	× EHTR	03-Sep-2025	3 days	8 days	× EHTR
Anions and Nutrients : Nitrate in Water by IC										
HDPE CP	E235.NO3	25-Aug-2025	03-Sep-2025	3 days	9 days	× EHTR	03-Sep-2025	3 days	9 days	× EHTR
Anions and Nutrients : Nitrate in Water by IC										
HDPE DUP1	E235.NO3	25-Aug-2025	03-Sep-2025	3 days	9 days	× EHTR	03-Sep-2025	3 days	9 days	× EHTR
Anions and Nutrients : Nitrate in Water by IC										
HDPE DUP2	E235.NO3	25-Aug-2025	03-Sep-2025	3 days	9 days	× EHTR	03-Sep-2025	3 days	9 days	× EHTR
Anions and Nutrients : Nitrate in Water by IC										
HDPE WQ14	E235.NO3	25-Aug-2025	03-Sep-2025	3 days	9 days	× EHTR	03-Sep-2025	3 days	9 days	× EHTR
Anions and Nutrients : Nitrite in Water by IC										
HDPE W4	E235.NO2	26-Aug-2025	03-Sep-2025	3 days	7 days	× EHTR	03-Sep-2025	3 days	7 days	× EHTR
Anions and Nutrients : Nitrite in Water by IC										
HDPE WQ25	E235.NO2	26-Aug-2025	03-Sep-2025	3 days	7 days	× EHTR	03-Sep-2025	3 days	7 days	× EHTR
Anions and Nutrients : Nitrite in Water by IC										
HDPE WQ26	E235.NO2	26-Aug-2025	03-Sep-2025	3 days	7 days	× EHTR	03-Sep-2025	3 days	7 days	× EHTR

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Nitrite in Water by IC										
HDPE WQ11	E235.NO2	25-Aug-2025	03-Sep-2025	3 days	8 days	× EHTR	03-Sep-2025	3 days	8 days	× EHTR
Anions and Nutrients : Nitrite in Water by IC										
HDPE WQ12	E235.NO2	25-Aug-2025	03-Sep-2025	3 days	8 days	× EHTR	03-Sep-2025	3 days	8 days	× EHTR
Anions and Nutrients : Nitrite in Water by IC										
HDPE WQ13	E235.NO2	25-Aug-2025	03-Sep-2025	3 days	8 days	× EHTR	03-Sep-2025	3 days	8 days	× EHTR
Anions and Nutrients : Nitrite in Water by IC										
HDPE CP	E235.NO2	25-Aug-2025	03-Sep-2025	3 days	9 days	× EHTR	03-Sep-2025	3 days	9 days	× EHTR
Anions and Nutrients : Nitrite in Water by IC										
HDPE DUP1	E235.NO2	25-Aug-2025	03-Sep-2025	3 days	9 days	× EHTR	03-Sep-2025	3 days	9 days	× EHTR
Anions and Nutrients : Nitrite in Water by IC										
HDPE DUP2	E235.NO2	25-Aug-2025	03-Sep-2025	3 days	9 days	× EHTR	03-Sep-2025	3 days	9 days	× EHTR
Anions and Nutrients : Nitrite in Water by IC										
HDPE WQ14	E235.NO2	25-Aug-2025	03-Sep-2025	3 days	9 days	× EHTR	03-Sep-2025	3 days	9 days	× EHTR
Anions and Nutrients : Sulfate in Water by IC										
HDPE W4	E235.SO4	26-Aug-2025	03-Sep-2025	28 days	8 days	✓	03-Sep-2025	28 days	8 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE WQ25	E235.SO4	26-Aug-2025	03-Sep-2025	28 days	8 days	✓	03-Sep-2025	28 days	8 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	*Method*	*Sampling Date*	*Extraction / Preparation*				*Analysis*			
			Preparation Date	*Holding Times*		*Eval*	*Analysis Date*	*Holding Times*		*Eval*
				Rec	*Actual*			*Rec*	*Actual*	
Anions and Nutrients : Sulfate in Water by IC										
HDPE WQ26	E235.SO4	26-Aug-2025	03-Sep-2025	28 days	8 days	✓	03-Sep-2025	28 days	8 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE CP	E235.SO4	25-Aug-2025	03-Sep-2025	28 days	9 days	✓	03-Sep-2025	28 days	9 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE DUP1	E235.SO4	25-Aug-2025	03-Sep-2025	28 days	9 days	✓	03-Sep-2025	28 days	9 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE DUP2	E235.SO4	25-Aug-2025	03-Sep-2025	28 days	9 days	✓	03-Sep-2025	28 days	9 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE WQ11	E235.SO4	25-Aug-2025	03-Sep-2025	28 days	9 days	✓	03-Sep-2025	28 days	9 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE WQ12	E235.SO4	25-Aug-2025	03-Sep-2025	28 days	9 days	✓	03-Sep-2025	28 days	9 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE WQ13	E235.SO4	25-Aug-2025	03-Sep-2025	28 days	9 days	✓	03-Sep-2025	28 days	9 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE WQ14	E235.SO4	25-Aug-2025	03-Sep-2025	28 days	9 days	✓	03-Sep-2025	28 days	9 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) W4	E372-U	26-Aug-2025	05-Sep-2025	28 days	10 days	✓	05-Sep-2025	28 days	10 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) WQ25	E372-U	26-Aug-2025	05-Sep-2025	28 days	10 days	✓	05-Sep-2025	28 days	10 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) WQ26	E372-U	26-Aug-2025	05-Sep-2025	28 days	10 days	✓	05-Sep-2025	28 days	10 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) CP	E372-U	25-Aug-2025	05-Sep-2025	28 days	11 days	✓	05-Sep-2025	28 days	11 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) DUP1	E372-U	25-Aug-2025	05-Sep-2025	28 days	11 days	✓	05-Sep-2025	28 days	11 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) DUP2	E372-U	25-Aug-2025	05-Sep-2025	28 days	11 days	✓	05-Sep-2025	28 days	11 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) WQ11	E372-U	25-Aug-2025	05-Sep-2025	28 days	11 days	✓	05-Sep-2025	28 days	11 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) WQ12	E372-U	25-Aug-2025	05-Sep-2025	28 days	11 days	✓	05-Sep-2025	28 days	11 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) WQ13	E372-U	25-Aug-2025	05-Sep-2025	28 days	11 days	✓	05-Sep-2025	28 days	11 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) WQ14	E372-U	25-Aug-2025	05-Sep-2025	28 days	11 days	✓	05-Sep-2025	28 days	11 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) W4	E509	26-Aug-2025	05-Sep-2025	28 days	10 days	✓	05-Sep-2025	28 days	10 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) WQ25	E509	26-Aug-2025	05-Sep-2025	28 days	10 days	✓	05-Sep-2025	28 days	10 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) WQ26	E509	26-Aug-2025	05-Sep-2025	28 days	10 days	✓	05-Sep-2025	28 days	10 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) CP	E509	25-Aug-2025	05-Sep-2025	28 days	11 days	✓	05-Sep-2025	28 days	11 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) DUP1	E509	25-Aug-2025	05-Sep-2025	28 days	11 days	✓	05-Sep-2025	28 days	11 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) DUP2	E509	25-Aug-2025	05-Sep-2025	28 days	11 days	✓	05-Sep-2025	28 days	11 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) WQ11	E509	25-Aug-2025	05-Sep-2025	28 days	11 days	✓	05-Sep-2025	28 days	11 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) WQ12	E509	25-Aug-2025	05-Sep-2025	28 days	11 days	✓	05-Sep-2025	28 days	11 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) WQ13	E509	25-Aug-2025	05-Sep-2025	28 days	11 days	✓	05-Sep-2025	28 days	11 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) WQ14	E509	25-Aug-2025	05-Sep-2025	28 days	11 days	✓	05-Sep-2025	28 days	11 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) W4	E421	26-Aug-2025	06-Sep-2025	180 days	11 days	✓	06-Sep-2025	180 days	11 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) WQ25	E421	26-Aug-2025	06-Sep-2025	180 days	11 days	✓	06-Sep-2025	180 days	11 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) WQ26	E421	26-Aug-2025	06-Sep-2025	180 days	11 days	✓	06-Sep-2025	180 days	11 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) CP	E421	25-Aug-2025	06-Sep-2025	180 days	12 days	✓	06-Sep-2025	180 days	12 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) DUP1	E421	25-Aug-2025	06-Sep-2025	180 days	12 days	✓	06-Sep-2025	180 days	12 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) DUP2	E421	25-Aug-2025	06-Sep-2025	180 days	12 days	✓	06-Sep-2025	180 days	12 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) WQ11	E421	25-Aug-2025	06-Sep-2025	180 days	12 days	✓	06-Sep-2025	180 days	12 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) WQ12	E421	25-Aug-2025	06-Sep-2025	180 days	12 days	✓	06-Sep-2025	180 days	12 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) WQ13	E421	25-Aug-2025	06-Sep-2025	180 days	12 days	✓	06-Sep-2025	180 days	12 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) WQ14	E421	25-Aug-2025	06-Sep-2025	180 days	12 days	✓	06-Sep-2025	180 days	12 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE W4	E290	26-Aug-2025	03-Sep-2025	14 days	8 days	✓	03-Sep-2025	14 days	8 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE WQ25	E290	26-Aug-2025	03-Sep-2025	14 days	8 days	✓	03-Sep-2025	14 days	8 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE WQ26	E290	26-Aug-2025	03-Sep-2025	14 days	8 days	✓	03-Sep-2025	14 days	8 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE CP	E290	25-Aug-2025	03-Sep-2025	14 days	9 days	✓	03-Sep-2025	14 days	9 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE DUP1	E290	25-Aug-2025	03-Sep-2025	14 days	9 days	✓	03-Sep-2025	14 days	9 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE DUP2	E290	25-Aug-2025	03-Sep-2025	14 days	9 days	✓	03-Sep-2025	14 days	9 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE WQ11	E290	25-Aug-2025	03-Sep-2025	14 days	9 days	✓	03-Sep-2025	14 days	9 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Alkalinity Species by Titration										
HDPE WQ12	E290	25-Aug-2025	03-Sep-2025	14 days	9 days	✓	03-Sep-2025	14 days	9 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE WQ13	E290	25-Aug-2025	03-Sep-2025	14 days	9 days	✓	03-Sep-2025	14 days	9 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE WQ14	E290	25-Aug-2025	03-Sep-2025	14 days	9 days	✓	03-Sep-2025	14 days	9 days	✓
Physical Tests : Conductivity in Water										
HDPE W4	E100	26-Aug-2025	03-Sep-2025	28 days	8 days	✓	03-Sep-2025	28 days	8 days	✓
Physical Tests : Conductivity in Water										
HDPE WQ25	E100	26-Aug-2025	03-Sep-2025	28 days	8 days	✓	03-Sep-2025	28 days	8 days	✓
Physical Tests : Conductivity in Water										
HDPE WQ26	E100	26-Aug-2025	03-Sep-2025	28 days	8 days	✓	03-Sep-2025	28 days	8 days	✓
Physical Tests : Conductivity in Water										
HDPE CP	E100	25-Aug-2025	03-Sep-2025	28 days	9 days	✓	03-Sep-2025	28 days	9 days	✓
Physical Tests : Conductivity in Water										
HDPE DUP1	E100	25-Aug-2025	03-Sep-2025	28 days	9 days	✓	03-Sep-2025	28 days	9 days	✓
Physical Tests : Conductivity in Water										
HDPE DUP2	E100	25-Aug-2025	03-Sep-2025	28 days	9 days	✓	03-Sep-2025	28 days	9 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Conductivity in Water										
HDPE WQ11	E100	25-Aug-2025	03-Sep-2025	28 days	9 days	✓	03-Sep-2025	28 days	9 days	✓
Physical Tests : Conductivity in Water										
HDPE WQ12	E100	25-Aug-2025	03-Sep-2025	28 days	9 days	✓	03-Sep-2025	28 days	9 days	✓
Physical Tests : Conductivity in Water										
HDPE WQ13	E100	25-Aug-2025	03-Sep-2025	28 days	9 days	✓	03-Sep-2025	28 days	9 days	✓
Physical Tests : Conductivity in Water										
HDPE WQ14	E100	25-Aug-2025	03-Sep-2025	28 days	9 days	✓	03-Sep-2025	28 days	9 days	✓
Physical Tests : pH by Meter										
HDPE WQ25	E108	26-Aug-2025	03-Sep-2025	0.25 hrs	189 hrs	× EHTR-FM	03-Sep-2025	0.25 hrs	189 hrs	× EHTR-FM
Physical Tests : pH by Meter										
HDPE W4	E108	26-Aug-2025	03-Sep-2025	0.25 hrs	192 hrs	× EHTR-FM	03-Sep-2025	0.25 hrs	192 hrs	× EHTR-FM
Physical Tests : pH by Meter										
HDPE WQ26	E108	26-Aug-2025	03-Sep-2025	0.25 hrs	192 hrs	× EHTR-FM	03-Sep-2025	0.25 hrs	192 hrs	× EHTR-FM
Physical Tests : pH by Meter										
HDPE WQ13	E108	25-Aug-2025	03-Sep-2025	0.25 hrs	214 hrs	× EHTR-FM	03-Sep-2025	0.25 hrs	214 hrs	× EHTR-FM
Physical Tests : pH by Meter										
HDPE WQ11	E108	25-Aug-2025	03-Sep-2025	0.25 hrs	216 hrs	× EHTR-FM	03-Sep-2025	0.25 hrs	216 hrs	× EHTR-FM

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : pH by Meter										
HDPE WQ12	E108	25-Aug-2025	03-Sep-2025	0.25 hrs	216 hrs	× EHTR-FM	03-Sep-2025	0.25 hrs	216 hrs	× EHTR-FM
Physical Tests : pH by Meter										
HDPE CP	E108	25-Aug-2025	03-Sep-2025	0.25 hrs	220 hrs	× EHTR-FM	03-Sep-2025	0.25 hrs	220 hrs	× EHTR-FM
Physical Tests : pH by Meter										
HDPE DUP1	E108	25-Aug-2025	03-Sep-2025	0.25 hrs	220 hrs	× EHTR-FM	03-Sep-2025	0.25 hrs	220 hrs	× EHTR-FM
Physical Tests : pH by Meter										
HDPE DUP2	E108	25-Aug-2025	03-Sep-2025	0.25 hrs	220 hrs	× EHTR-FM	03-Sep-2025	0.25 hrs	220 hrs	× EHTR-FM
Physical Tests : pH by Meter										
HDPE WQ14	E108	25-Aug-2025	03-Sep-2025	0.25 hrs	220 hrs	× EHTR-FM	03-Sep-2025	0.25 hrs	220 hrs	× EHTR-FM
Physical Tests : TDS by Gravimetry										
HDPE W4	E162	26-Aug-2025	----	----	----		05-Sep-2025	7 days	10 days	× EHTR
Physical Tests : TDS by Gravimetry										
HDPE WQ25	E162	26-Aug-2025	----	----	----		05-Sep-2025	7 days	10 days	× EHTR
Physical Tests : TDS by Gravimetry										
HDPE WQ26	E162	26-Aug-2025	----	----	----		05-Sep-2025	7 days	10 days	× EHTR
Physical Tests : TDS by Gravimetry										
HDPE CP	E162	25-Aug-2025	----	----	----		05-Sep-2025	7 days	11 days	× EHTR

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : TDS by Gravimetry										
HDPE DUP1	E162	25-Aug-2025	----	----	----		05-Sep-2025	7 days	11 days	× EHTR
Physical Tests : TDS by Gravimetry										
HDPE DUP2	E162	25-Aug-2025	----	----	----		05-Sep-2025	7 days	11 days	× EHTR
Physical Tests : TDS by Gravimetry										
HDPE WQ11	E162	25-Aug-2025	----	----	----		05-Sep-2025	7 days	11 days	× EHTR
Physical Tests : TDS by Gravimetry										
HDPE WQ12	E162	25-Aug-2025	----	----	----		05-Sep-2025	7 days	11 days	× EHTR
Physical Tests : TDS by Gravimetry										
HDPE WQ13	E162	25-Aug-2025	----	----	----		05-Sep-2025	7 days	11 days	× EHTR
Physical Tests : TDS by Gravimetry										
HDPE WQ14	E162	25-Aug-2025	----	----	----		05-Sep-2025	7 days	11 days	× EHTR
Physical Tests : TSS by Gravimetry										
HDPE W4	E160	26-Aug-2025	----	----	----		05-Sep-2025	7 days	10 days	× EHTR
Physical Tests : TSS by Gravimetry										
HDPE WQ25	E160	26-Aug-2025	----	----	----		05-Sep-2025	7 days	10 days	× EHTR
Physical Tests : TSS by Gravimetry										
HDPE WQ26	E160	26-Aug-2025	----	----	----		05-Sep-2025	7 days	10 days	× EHTR

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : TSS by Gravimetry										
HDPE CP	E160	25-Aug-2025	----	----	----		05-Sep-2025	7 days	11 days	× EHTR
Physical Tests : TSS by Gravimetry										
HDPE DUP1	E160	25-Aug-2025	----	----	----		05-Sep-2025	7 days	11 days	× EHTR
Physical Tests : TSS by Gravimetry										
HDPE DUP2	E160	25-Aug-2025	----	----	----		05-Sep-2025	7 days	11 days	× EHTR
Physical Tests : TSS by Gravimetry										
HDPE WQ11	E160	25-Aug-2025	----	----	----		05-Sep-2025	7 days	11 days	× EHTR
Physical Tests : TSS by Gravimetry										
HDPE WQ12	E160	25-Aug-2025	----	----	----		05-Sep-2025	7 days	11 days	× EHTR
Physical Tests : TSS by Gravimetry										
HDPE WQ13	E160	25-Aug-2025	----	----	----		05-Sep-2025	7 days	11 days	× EHTR
Physical Tests : TSS by Gravimetry										
HDPE WQ14	E160	25-Aug-2025	----	----	----		05-Sep-2025	7 days	11 days	× EHTR
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE CP	Ra-226	25-Aug-2025	----	----	----		17-Sep-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE DUP1	Ra-226	25-Aug-2025	----	----	----		17-Sep-2025	----	----	

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE DUP2	Ra-226	25-Aug-2025	----	----	----		17-Sep-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE W4	Ra-226	26-Aug-2025	----	----	----		17-Sep-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE WQ11	Ra-226	25-Aug-2025	----	----	----		17-Sep-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE WQ12	Ra-226	25-Aug-2025	----	----	----		17-Sep-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE WQ13	Ra-226	25-Aug-2025	----	----	----		17-Sep-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE WQ14	Ra-226	25-Aug-2025	----	----	----		17-Sep-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE (nitric acid) WQ25	Ra-226	26-Aug-2025	----	----	----		17-Sep-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE WQ26	Ra-226	26-Aug-2025	----	----	----		17-Sep-2025	----	----	
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) W4	E508	26-Aug-2025	05-Sep-2025	28 days	10 days	✓	05-Sep-2025	28 days	10 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	*Method*	*Sampling Date*	*Extraction / Preparation*				*Analysis*			
			Preparation Date	*Holding Times* Rec	*Holding Times* Actual	*Eval*	*Analysis Date*	*Holding Times* Rec	*Holding Times* Actual	*Eval*
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) WQ25	E508	26-Aug-2025	05-Sep-2025	28 days	10 days	✓	05-Sep-2025	28 days	10 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) WQ26	E508	26-Aug-2025	05-Sep-2025	28 days	10 days	✓	05-Sep-2025	28 days	10 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) CP	E508	25-Aug-2025	05-Sep-2025	28 days	11 days	✓	05-Sep-2025	28 days	11 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) DUP1	E508	25-Aug-2025	05-Sep-2025	28 days	11 days	✓	05-Sep-2025	28 days	11 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) DUP2	E508	25-Aug-2025	05-Sep-2025	28 days	11 days	✓	05-Sep-2025	28 days	11 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) WQ11	E508	25-Aug-2025	05-Sep-2025	28 days	11 days	✓	05-Sep-2025	28 days	11 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) WQ12	E508	25-Aug-2025	05-Sep-2025	28 days	11 days	✓	05-Sep-2025	28 days	11 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) WQ13	E508	25-Aug-2025	05-Sep-2025	28 days	11 days	✓	05-Sep-2025	28 days	11 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) WQ14	E508	25-Aug-2025	05-Sep-2025	28 days	11 days	✓	05-Sep-2025	28 days	11 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	*Method*	*Sampling Date*	*Extraction / Preparation*				*Analysis*			
			Preparation Date	*Holding Times*		*Eval*	*Analysis Date*	*Holding Times*		*Eval*
				Rec	*Actual*			*Rec*	*Actual*	
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) W4	E420	26-Aug-2025	08-Sep-2025	180 days	13 days	✓	08-Sep-2025	180 days	13 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) WQ25	E420	26-Aug-2025	08-Sep-2025	180 days	13 days	✓	08-Sep-2025	180 days	13 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) WQ26	E420	26-Aug-2025	08-Sep-2025	180 days	13 days	✓	08-Sep-2025	180 days	13 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) CP	E420	25-Aug-2025	08-Sep-2025	180 days	14 days	✓	08-Sep-2025	180 days	14 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) DUP1	E420	25-Aug-2025	08-Sep-2025	180 days	14 days	✓	08-Sep-2025	180 days	14 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) DUP2	E420	25-Aug-2025	08-Sep-2025	180 days	14 days	✓	08-Sep-2025	180 days	14 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) WQ11	E420	25-Aug-2025	08-Sep-2025	180 days	14 days	✓	08-Sep-2025	180 days	14 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) WQ12	E420	25-Aug-2025	08-Sep-2025	180 days	14 days	✓	08-Sep-2025	180 days	14 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) WQ13	E420	25-Aug-2025	08-Sep-2025	180 days	14 days	✓	08-Sep-2025	180 days	14 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / **Container / Client Sample ID(s)**	*Method*	*Sampling Date*	*Extraction / Preparation*				*Analysis*			
			Preparation Date	*Holding Times*		*Eval*	*Analysis Date*	*Holding Times*		*Eval*
				Rec	*Actual*			*Rec*	*Actual*	
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)										
WQ14	E420	25-Aug-2025	08-Sep-2025	180 days	14 days	✓	08-Sep-2025	180 days	14 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water**

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
Conductivity in Water	E100	2197461	2	40	5.0	5.0	✓
pH by Meter	E108	2197462	2	40	5.0	5.0	✓
TSS by Gravimetry	E160	2197347	1	20	5.0	5.0	✓
TDS by Gravimetry	E162	2197661	1	20	5.0	5.0	✓
Chloride in Water by IC	E235.Cl	2197421	1	20	5.0	5.0	✓
Fluoride in Water by IC	E235.F	2197420	1	16	6.2	5.0	✓
Nitrite in Water by IC	E235.NO2	2197419	1	16	6.2	5.0	✓
Nitrate in Water by IC	E235.NO3	2197418	1	16	6.2	5.0	✓
Sulfate in Water by IC	E235.SO4	2197417	1	16	6.2	5.0	✓
Alkalinity Species by Titration	E290	2197463	2	36	5.5	5.0	✓
Ammonia by Fluorescence	E298	2199771	2	40	5.0	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2201465	1	20	5.0	5.0	✓
Total Metals in Water by CRC ICPMS	E420	2205196	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	2203384	1	20	5.0	5.0	✓
Total Mercury in Water by CVAAS	E508	2201911	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	2201674	1	20	5.0	5.0	✓
Laboratory Control Samples (LCS)							
Conductivity in Water	E100	2197461	2	40	5.0	5.0	✓
pH by Meter	E108	2197462	2	40	5.0	5.0	✓
TSS by Gravimetry	E160	2197347	1	20	5.0	5.0	✓
TDS by Gravimetry	E162	2197661	1	20	5.0	5.0	✓
Chloride in Water by IC	E235.Cl	2197421	1	20	5.0	5.0	✓
Fluoride in Water by IC	E235.F	2197420	1	16	6.2	5.0	✓
Nitrite in Water by IC	E235.NO2	2197419	1	16	6.2	5.0	✓
Nitrate in Water by IC	E235.NO3	2197418	1	16	6.2	5.0	✓
Sulfate in Water by IC	E235.SO4	2197417	1	16	6.2	5.0	✓
Alkalinity Species by Titration	E290	2197463	2	36	5.5	5.0	✓
Ammonia by Fluorescence	E298	2199771	2	40	5.0	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2201465	1	20	5.0	5.0	✓
Total Metals in Water by CRC ICPMS	E420	2205196	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	2203384	1	20	5.0	5.0	✓
Total Mercury in Water by CVAAS	E508	2201911	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	2201674	1	20	5.0	5.0	✓
Method Blanks (MB)							
Conductivity in Water	E100	2197461	2	40	5.0	5.0	✓

Matrix: **Water**

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Method Blanks (MB) - Continued							
TSS by Gravimetry	E160	2197347	1	20	5.0	5.0	✓
TDS by Gravimetry	E162	2197661	1	20	5.0	5.0	✓
Chloride in Water by IC	E235.Cl	2197421	1	20	5.0	5.0	✓
Fluoride in Water by IC	E235.F	2197420	1	16	6.2	5.0	✓
Nitrite in Water by IC	E235.NO2	2197419	1	16	6.2	5.0	✓
Nitrate in Water by IC	E235.NO3	2197418	1	16	6.2	5.0	✓
Sulfate in Water by IC	E235.SO4	2197417	1	16	6.2	5.0	✓
Alkalinity Species by Titration	E290	2197463	2	36	5.5	5.0	✓
Ammonia by Fluorescence	E298	2199771	2	40	5.0	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2201465	1	20	5.0	5.0	✓
Total Metals in Water by CRC ICPMS	E420	2205196	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	2203384	1	20	5.0	5.0	✓
Total Mercury in Water by CVAAS	E508	2201911	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	2201674	1	20	5.0	5.0	✓
Matrix Spikes (MS)							
Chloride in Water by IC	E235.Cl	2197421	1	20	5.0	5.0	✓
Fluoride in Water by IC	E235.F	2197420	1	16	6.2	5.0	✓
Nitrite in Water by IC	E235.NO2	2197419	1	16	6.2	5.0	✓
Nitrate in Water by IC	E235.NO3	2197418	1	16	6.2	5.0	✓
Sulfate in Water by IC	E235.SO4	2197417	1	16	6.2	5.0	✓
Ammonia by Fluorescence	E298	2199771	2	40	5.0	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2201465	1	20	5.0	5.0	✓
Total Metals in Water by CRC ICPMS	E420	2205196	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	2203384	1	20	5.0	5.0	✓
Total Mercury in Water by CVAAS	E508	2201911	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	2201674	1	20	5.0	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Conductivity in Water	E100 ALS Environmental - Edmonton	Water	APHA 2510 (mod)	Conductivity, also known as Electrical Conductivity (EC) or Specific Conductance, is measured by immersion of a conductivity cell with platinum electrodes into a water sample. Conductivity measurements are temperature-compensated to 25°C.
pH by Meter	E108 ALS Environmental - Edmonton	Water	APHA 4500-H (mod)	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 ± 5°C). For high accuracy test results, pH should be measured in the field within the recommended 15 minute hold time.
TSS by Gravimetry	E160 ALS Environmental - Edmonton	Water	APHA 2540 D (mod)	Total Suspended Solids (TSS) are determined by filtering a sample through a glass fibre filter, following by drying of the filter at 104 ± 1°C, with gravimetric measurement of the filtered solids. Samples containing very high dissolved solid content (i.e. seawaters, brackish waters) may produce a positive bias by this method. Alternate analysis methods are available for these types of samples.
TDS by Gravimetry	E162 ALS Environmental - Edmonton	Water	APHA 2540 C (mod)	Total Dissolved Solids (TDS) are determined by filtering a sample through a glass fibre filter, with evaporation of the filtrate at 180 ± 2°C for 16 hours or to constant weight, with gravimetric measurement of the residue.
Chloride in Water by IC	E235.Cl ALS Environmental - Edmonton	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Fluoride in Water by IC	E235.F ALS Environmental - Edmonton	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Nitrite in Water by IC	E235.NO2 ALS Environmental - Edmonton	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Nitrate in Water by IC	E235.NO3 ALS Environmental - Edmonton	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Sulfate in Water by IC	E235.SO4 ALS Environmental - Edmonton	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Alkalinity Species by Titration	E290 ALS Environmental - Edmonton	Water	APHA 2320 B (mod)	Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.
Ammonia by Fluorescence	E298 ALS Environmental - Edmonton	Water	Method Fialab 100, 2018	Ammonia in water is determined by automated continuous flow analysis with membrane diffusion and fluorescence detection, after reaction with OPA (ortho-phthalaldehyde). This method is approved under US EPA 40 CFR Part 136 (May 2021)
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U ALS Environmental - Edmonton	Water	APHA 4500-P E (mod).	Total Phosphorus is determined colourimetrically using a discrete analyzer after heated persulfate digestion of the sample.
Total Metals in Water by CRC ICPMS	E420 ALS Environmental - Edmonton	Water	EPA 200.2/6020B (mod)	Water samples are digested with nitric and hydrochloric acids, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Dissolved Metals in Water by CRC ICPMS	E421 ALS Environmental - Edmonton	Water	APHA 3030B/EPA 6020B (mod)	Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Total Mercury in Water by CVAAS	E508 ALS Environmental - Edmonton	Water	EPA 1631E (mod)	Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS
Dissolved Mercury in Water by CVAAS	E509 ALS Environmental - Edmonton	Water	APHA 3030B/EPA 1631E (mod)	Water samples are filtered (0.45 um), preserved with HCl, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.
Dissolved Hardness (Calculated)	EC100 ALS Environmental - Edmonton	Water	APHA 2340B	“Hardness (as CaCO3), dissolved” is calculated from the sum of dissolved Calcium and Magnesium concentrations, expressed in CaCO3 equivalents. “Total Hardness” refers to the sum of Calcium and Magnesium Hardness. Hardness is normally or preferentially calculated from dissolved Calcium and Magnesium concentrations, because it is a property of water due to dissolved divalent cations.
Ion Balance using Dissolved Metals	EC101 ALS Environmental - Edmonton	Water	APHA 1030E	Cation Sum, Anion Sum, and Ion Balance are calculated based on guidance from APHA Standard Methods (1030E Checking Correctness of Analysis). Dissolved species are used where available. Minor ions are included where data is present. Ion Balance cannot be calculated accurately for waters with very low electrical conductivity (EC).
TDS in Water (Calculation)	EC103 ALS Environmental - Edmonton	Water	APHA 1030E (mod)	Total Dissolved Solids is calculated based on guidance from APHA Standard Methods (1030E Checking Correctness of Analysis). Dissolved species are used where available. Minor ions are included where data is present.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Nitrate and Nitrite (as N) (Calculation)	EC235.N+N ALS Environmental - Edmonton	Water	EPA 300.0	Nitrate and Nitrite (as N) is a calculated parameter. Nitrate and Nitrite (as N) = Nitrite (as N) + Nitrate (as N).
Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)	Ra-226 Saskatchewan Research Council - 143 - 111 Research Drive Saskatoon Saskatchewan Canada S7N 3R2	Water		See attached report.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Preparation for Ammonia	EP298 ALS Environmental - Edmonton	Water		Sample preparation for Preserved Nutrients Water Quality Analysis.
Digestion for Total Phosphorus in water	EP372 ALS Environmental - Edmonton	Water	APHA 4500-P E (mod).	Samples are heated with a persulfate digestion reagent.
Dissolved Metals Water Filtration	EP421 ALS Environmental - Edmonton	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO3.
Dissolved Mercury Water Filtration	EP509 ALS Environmental - Edmonton	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HCl.

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www.src.sk.ca/analytical

Test Report

SRC Group # 2025-11301

Sep 17, 2025

ALS
9450 17 Avenue NW
Edmonton, AB T6N 1M9
Attn: Vishal Akolkar

Date Samples Received: Sep-04-2025 Client P.O.: EO2507799

All results have been reviewed and approved by a Qualified Person in accordance with the Saskatchewan Environmental Code, Corrective Action Plan Chapter, for the purposes of certifying a laboratory analysis

Results from Lab Section 4 approved by Philibert, Kelcey

Test methods and data are validated by the laboratory's Quality Assurance Program.

Routine methods follow recognized procedures from sources such as
-Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF
-Environment Canada
-US EPA
-CANMET

The results reported relate only to the test samples as provided by the client. Results apply to the sample as received, unless otherwise indicated.

Data marked as "by Client" has been provided by the client and may affect the validity of results.

Samples will be kept for 30 days after the final report is sent. Please contact the lab if you have any special requirements.

Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Analytes denoted with * are accredited by CALA to ISO/IEC 17025:2017.

Additional information is available upon request.

This is a final report.

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SRC Group # 2025-11301

Sep 17, 2025

ALS

9450 17 Avenue NW
Edmonton, AB T6N 1M9
Attn: Vishal Akolkar

Sample #: **2025031994**
Date Sampled: **Aug 25, 2025**
Sample Matrix: **WATER**
Description: **08/25/2025 10:30 WQ14 EO2507799-001**

Client PO #: **EO2507799**
Date Received: **Sep 04, 2025**

Analyte	Units	Result
Lab Section 4		
Radium-226*	Bq/L	<0.06

Symbol of "<" means "less than". This indicates that it was not detected at level stated above.

The temperature of the cooler was 7.9 °C upon receipt.

The samples for radionuclides were acidified in the lab. Due to the time lapse from sampling to acidification, we can not guarantee that the results accurately reflect the concentration at the time of sampling.

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SRC Group # 2025-11301

Sep 17, 2025

ALS

Sample #: **2025031995**
Date Sampled: **Aug 25, 2025**
Sample Matrix: **WATER**
Description: **08/25/2025 10:30 DUP1 EO2507799-002**

Client PO #: **EO2507799**
Date Received: **Sep 04, 2025**

Analyte	Units	Result
Lab Section 4		
Radium-226*	Bq/L	<0.05

Symbol of "<" means "less than". This indicates that it was not detected at level stated above.

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SRC Group # 2025-11301

Sep 17, 2025

ALS

Sample #: **2025031996**
Date Sampled: **Aug 25, 2025**
Sample Matrix: **WATER**
Description: **08/25/2025 11:20 CP EO2507799-003**

Client PO #: **EO2507799**
Date Received: **Sep 04, 2025**

Analyte	Units	Result
Lab Section 4		
Radium-226*	Bq/L	<0.05

Symbol of "<" means "less than". This indicates that it was not detected at level stated above.

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The samples for radionuclides were acidified in the lab. Due to the time lapse from sampling to acidification, we can not guarantee that the results accurately reflect the concentration at the time of sampling.

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SRC Group # 2025-11301

Sep 17, 2025

ALS

Sample #: **2025031997**
Date Sampled: **Aug 25, 2025**
Sample Matrix: **WATER**
Description: **08/25/2025 11:20 DUP2 EO2507799-004**

Client PO #: **EO2507799**
Date Received: **Sep 04, 2025**

Analyte	Units	Result
Lab Section 4		
Radium-226*	Bq/L	<0.05

Symbol of "<" means "less than". This indicates that it was not detected at level stated above.

The temperature of the cooler was 7.9 °C upon receipt.

The samples for radionuclides were acidified in the lab. Due to the time lapse from sampling to acidification, we can not guarantee that the results accurately reflect the concentration at the time of sampling.

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SRC Group # 2025-11301

Sep 17, 2025

ALS

Sample #: **2025031998**
Date Sampled: **Aug 25, 2025**
Sample Matrix: **WATER**
Description: **08/25/2025 14:40 WQ11 EO2507799-005**

Client PO #: **EO2507799**
Date Received: **Sep 04, 2025**

Analyte	Units	Result
Lab Section 4		
Radium-226*	Bq/L	<0.05

Symbol of "<" means "less than". This indicates that it was not detected at level stated above.

The temperature of the cooler was 7.9 °C upon receipt.

The samples for radionuclides were acidified in the lab. Due to the time lapse from sampling to acidification, we can not guarantee that the results accurately reflect the concentration at the time of sampling.

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SRC Group # 2025-11301

Sep 17, 2025

ALS

Sample #: **2025031999**
Date Sampled: **Aug 25, 2025**
Sample Matrix: **WATER**
Description: **08/25/2025 15:20 WQ12 EO2507799-006**

Client PO #: **EO2507799**
Date Received: **Sep 04, 2025**

Analyte	Units	Result
Lab Section 4		
Radium-226*	Bq/L	<0.05

Symbol of "<" means "less than". This indicates that it was not detected at level stated above.

The temperature of the cooler was 7.9 °C upon receipt.

The samples for radionuclides were acidified in the lab. Due to the time lapse from sampling to acidification, we can not guarantee that the results accurately reflect the concentration at the time of sampling.

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SRC Group # 2025-11301

Sep 17, 2025

ALS

Sample #: **2025032000**
Date Sampled: **Aug 25, 2025**
Sample Matrix: **WATER**
Description: **08/25/2025 16:45 WQ13 EO2507799-007**

Client PO #: **EO2507799**
Date Received: **Sep 04, 2025**

Analyte	Units	Result
Lab Section 4		
Radium-226*	Bq/L	<0.05

Symbol of "<" means "less than". This indicates that it was not detected at level stated above.

The temperature of the cooler was 7.9 °C upon receipt.

The samples for radionuclides were acidified in the lab. Due to the time lapse from sampling to acidification, we can not guarantee that the results accurately reflect the concentration at the time of sampling.

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SRC Group # 2025-11301

Sep 17, 2025

ALS

Sample #: **2025032001**
Date Sampled: **Aug 25, 2025**
Sample Matrix: **WATER**
Description: **08/25/2025 15:20 W4 EO2507799-008**

Client PO #: **EO2507799**
Date Received: **Sep 04, 2025**

Analyte	Units	Result
Lab Section 4		
Radium-226*	Bq/L	<0.05

Symbol of "<" means "less than". This indicates that it was not detected at level stated above.

The temperature of the cooler was 7.9 °C upon receipt.

The samples for radionuclides were acidified in the lab. Due to the time lapse from sampling to acidification, we can not guarantee that the results accurately reflect the concentration at the time of sampling.

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SRC Group # 2025-11301

Sep 17, 2025

ALS

Sample #: **2025032002**
Date Sampled: **Aug 25, 2025**
Sample Matrix: **WATER**
Description: **08/25/2025 16:40 WQ26 EO2507799-009**

Client PO #: **EO2507799**
Date Received: **Sep 04, 2025**

Analyte	Units	Result
Lab Section 4		
Radium-226*	Bq/L	<0.05

Symbol of "<" means "less than". This indicates that it was not detected at level stated above.

The temperature of the cooler was 7.9 °C upon receipt.

The samples for radionuclides were acidified in the lab. Due to the time lapse from sampling to acidification, we can not guarantee that the results accurately reflect the concentration at the time of sampling.

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SRC Group # 2025-11301

Sep 17, 2025

ALS

Sample #: **2025032003**
Date Sampled: **Aug 25, 2025**
Sample Matrix: **WATER**
Description: **08/25/2025 17:30 WQ25 EO2507799-010**

Client PO #: **EO2507799**
Date Received: **Sep 04, 2025**

Analyte	Units	Result
Lab Section 4		
Radium-226*	Bq/L	0.8

The temperature of the cooler was 7.9 °C upon receipt.

The samples for radionuclides were acidified in the lab. Due to the time lapse from sampling to acidification, we can not guarantee that the results accurately reflect the concentration at the time of sampling.

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SRC Group # 2025-11301

Sep 17, 2025

ALS

Analyte Methods

Name	Units	Method
Radium-226	Bq/L	Rad-105

Environmental Analytical Laboratories
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Sep 17, 2025

This report was generated for samples included in SRC Group # 2025-11301

Quality Control Report

Vishal Akolkar
ALS
9450 17 Avenue NW
Edmonton, AB T6N 1M9

Reference Materials and Standards:

A reference material of known concentration is used whenever possible as either a control sample or control standard and analyzed with each batch of samples. These "QC" results are used to assess the performance of the method and must be within clearly defined limits; otherwise corrective action is required.

QC Analysis	Units	Target Value	Obtained Value
Radium-226	Bq/L	19.1	18.2
Radium-226	Bq	0.427	0.424

Duplicates:

Duplicates are used to assess problems with precision and help ensure that samples within a given batch were processed appropriately. The difference between duplicates must be within strict limits, otherwise corrective action is required. Please note, the duplicate(s) in this report are duplicates analyzed within a given batch of test samples and may not be from this specific group of samples.

Duplicate Analysis	Units	Sample ID	First Result	Second Result
Radium-226	Bq/L	31982	1.0	1.0
Radium-226	Bq/L	32042	0.02	0.02

All quality control results were within the specified limits and considered acceptable.

Approved by Section Supervisor