

2025 IAAC BIOLOGICAL MONITORING REPORT

MAGINO GOLD MINE

Submitted to

Alamos Gold Inc.
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LIST OF ACRONYMS

ALS	Australian Laboratory Services	ND	Not Detected
ANOVA	Analysis of Variance	OMOE	Ontario Ministry of the Environment
AVS	Acid Volatile Sulfides	OWP	Operating Work Plan
BC	British Columbia	PELs	Probable Effect Levels
CALA	Canadian Association of Laboratory Accreditation	POD	Point of Discharge
CCME	Canadian Council of Ministers of the Environment	ppm	Parts per Million (mg/kg or µg/g)
CFIA	Canadian Food Inspection Agency	PSA	Particle Size Analysis
CoC	Chain of Custody	PSQG	Provincial Sediment Quality Guidelines
CPUE	Catch-Per Unit Effort	PWQOs	Provincial Water Quality Objectives
CRM	Certified Reference Material	QA	Quality Assurance
CSQG	Canadian Sediment Quality Guidelines	QC	Quality Control
DL	Detection Limit	RPD	Relative Percent Difference
DO	Dissolved Oxygen	SD	Standard Deviation
DQOs	Data Quality Objectives	SE	Standard Error
EA	Environmental Assessment	SEL	Severe Effect Level
EEM	Environmental Effects Monitoring	SEM	Simultaneously Extracted Metals
G3	G3 Consulting Ltd.	SOPs	Standard Operating Procedures
GSI	Gonadosomatic Index	SQGS	Sediment Quality Guidelines
HC	Health Canada	TC	Total Carbon
HSI	Hepatosomatic Index	TELs	Threshold Effect Levels
IAAC	Impact Assessment Agency	TKN	Total Kjeldahl Nitrogen
ISQG	Interim Sediment Quality Guidelines	TN	Total Nitrogen
LEL	Lowest Effect Level	TOC	Total Organic Carbon
MDS	Multi-Dimensional Scaling	TON	Total Organic Nitrogen
MDS plot	Multi-Dimensional Scaling plot	TSS	Total Suspended Solids
MECP	Ministry of the Environment, Conservation and Parks	USEPA	United States Environmental Protection Agency
		wwt	Wet Weight
		YOY	Young of the year

EXECUTIVE SUMMARY

G3 Consulting Ltd. conducted biological monitoring at the Magino Gold Mine on behalf of Alamos Gold Inc. in accordance with the Federal Environmental Assessment (EA) Decision Statement administered by the Impact Assessment Agency of Canada (IAAC) in 2025. This report supports annual IAAC compliance reporting and addresses EA requirements for sediment quality, algal communities, fish populations, and fish tissue bioaccumulation. Field sampling occurred in June and September 2025.

Sediment quality was assessed at fourteen (14) stations across Otto and Herman Lakes. Results were compared to the Ontario *Provincial Sediment Quality Guidelines (PSQGs, 2024)* and Canadian Council of Ministers of the Environment (CCME) *Interim Sediment Quality Guidelines (2024)*. Concentrations of arsenic, cadmium, copper, manganese, nickel, and phosphorus exceeded applicable sediment quality guidelines at some stations; however, mean concentrations remained below Probable Effect Levels (PELs), above which adverse biological effects might be anticipated.

Sediment physical analyses indicated that stations in both lakes were generally dominated by silt with minor clay content. Sediment particle size results in 2025 showed a greater proportion of silt relative to sand compared to 2022, with the most pronounced changes observed in Otto Lake. Sediment pH and total nitrogen (TN) remained relatively consistent between sampling years. Total organic carbon (TOC) was higher in 2025 and exceeded sediment quality guidelines at several stations. Total Kjeldahl nitrogen (TKN) also exceeded guidelines at multiple stations. Extractable metal analyses indicated zinc was present in a bioavailable form.

In situ water quality monitoring at algae stations included temperature, pH, dissolved oxygen (DO), and conductivity. DO at approximately 1 m depth in June ranged from 9.16 to 10.32 mg/L, above provincial objectives for aquatic life protection (5–6 mg/L). September DO was slightly lower (9.21–9.50 mg/L); however, remained above stress thresholds at most stations an exception was noted in the deeper Herman Lake station (HL-100-09; 8 m), where DO measured 5.30 mg/L. Temperatures were relatively consistent (15.5–20.1°C). Values for pH were above typical guideline ranges in June, and conductivity increased in Otto Lake during September, which may reflect seasonal and operational influences present at the time of sampling. Overall, DO conditions were suitable for aquatic life during both sampling periods.

Algal communities were assessed using taxonomic density and chlorophyll-a as indicators of nutrient conditions. In June, chlorophyll-a concentrations were generally moderate (13.4–17.7 µg/L), with one elevated value at OL-250 (172 µg/L). September concentrations were lower (1.13–2.71 µg/L). Algal density and biovolume varied by station and season. Periphyton richness and diversity were generally similar among stations and seasons, although Otto Lake supported higher taxa richness than Herman Lake. Multivariate analysis indicated communities were more similar within lakes than between lakes, with seasonal variation being the primary driver. Diatoms dominated both lakes in June; in September, Otto Lake communities shifted toward chrysophyte dominance, while Herman Lake remained largely diatom-dominated with minor cyanobacteria presence.

Fish population surveys in Otto, Herman, and Smithy lakes indicate fish community indicators observed in 2025 were consistent with expected population structure and evidence of recruitment. A total of 298 fish were captured: 148 in Herman Lake, 122 in Otto Lake, and 28 in Smithy Lake. Catch-per-unit-effort (CPUE) was highest in June, particularly in Otto Lake, likely reflecting increased spring activity. Length-frequency and age-class distributions for Northern Pike, Walleye, Lake Whitefish, and White Sucker showed broad size ranges and multiple age classes, indicating ongoing recruitment and normal growth patterns. Fish health indicators—including fecundity, gonadosomatic index (GSI), hepatosomatic index (HSI), and condition factor—were generally within expected ranges. Most Lake Whitefish and White Sucker had condition factors near or above the benchmark of 1.0, while Northern Pike values were consistent with expected species morphology.

Fish tissue monitoring in Otto and Herman lakes assessed metal bioaccumulation in Lake Whitefish, Northern Pike, White Sucker, and Walleye. Muscle samples were analyzed for arsenic, cobalt, lead, mercury, and methylmercury, and compared with applicable consumption and wildlife protection guidelines from the Ontario Ministry of the Environment, Conservation and Parks, Health Canada, the Canadian Food Inspection Agency, and CCME. June sampling used non-lethal biopsy techniques; September sampling involved lethal dorsal muscle. Total mercury concentrations were generally below the 0.5 mg/kg consumption guideline for most species; however, several predatory fish (particularly Northern Pike and Walleye) exceeded this sensitive population threshold, though all remained below the 1.8 mg/kg guideline for the general population consumption. Methylmercury concentrations exceeded the CCME wildlife dietary guideline (0.033 mg/kg), a conservative screening benchmark intended to evaluate potential trophic transfer. Arsenic, lead, and cobalt were generally low and near detection limits, with only isolated exceedances. Historical comparisons indicate these 2025 results align with previous monitoring programs and regional Canadian Shield Lake studies.

Interpretation of results is based on available 2025 monitoring data and should be considered in the context of ongoing multi-year environmental monitoring programs. Overall, the 2025 biological monitoring program met the IAAC EA Decision Statement requirements for the Magino Gold Mine, including sediment quality, algal communities, fish population metrics, and fish tissue bioaccumulation.

1.0 INTRODUCTION

G3 Consulting Ltd. (G3) was retained by Alamos Gold Inc. (Alamos) to implement biological monitoring studies at the Magino Gold Mine (Magino) as required under the Environmental Assessment (EA) Decision Statement issued by the federal Impact Assessment Agency of Canada (IAAC). Federal environmental assessment approval for Magino was granted via a Decision Statement issued on January 24, 2019, amended August 23, 2023 and July 26, 2024.

This report has been prepared for submission by Magino as part of annual IAAC compliance reporting requirements associated with the EA Decision Statement. Field sampling was conducted in June and September 2025 to fulfill the monitoring requirements as established by IAAC. This report presents the results of investigations evaluating sediment quality, algal community composition, fish tissue bioaccumulation and fish population characteristics within the receiving environment of the Magino operation.

1.1 BACKGROUND

1.1.1 Mine Location and Receiving Environment

Magino is an active open-pit mining operation situated in Finan Township within the District of Algoma, Sault Ste. Marie Mining Division, Ontario. The site is accessed via Highway 519, west of Dubreuilville, approximately 40 km northeast of Wawa. The property lies within the Michipicoten greenstone belt (140 km long by 45 km wide) and occupies the upper portion of the Wawa Assemblage of the Canadian Shield. The area is overlain by pyrite-bearing iron formation outcrops associated with the Morrison and Pine zones. The mine is operated by Prodigy Gold Inc., a wholly owned subsidiary of Alamos Gold Inc., which acquired the operation from Argonaut Gold Inc. in July 2024. Since January 1, 2025, Prodigy was replaced by 1001061522 Ontario Inc., a wholly owned subsidiary of Alamos Gold Inc.

The Magino Mine currently discharges treated effluent into Otto Lake through the legally designated point of discharge (POD) located approximately 50 m from the shoreline (coordinates 48.2950307, -84.5067829). Otto Lake receives upstream inflow from Unnamed Waterbody 8 and discharges downstream into Herman Lake through a narrow channel approximately 150 m in length and 10 m wide (at the narrowest section) connecting the two waterbodies.

Otto Lake drains into Herman Lake which drains into the Michipicoten River, which subsequently flows into Lake Superior. Otto Lake is shallow (average depth ~ 1.3 m), approximately triangular in shape, with a surface area of about 13.7 ha (Figure 2.1). Herman Lake is a deeper waterbody (average depth ~ 12.8 m) with a surface area of approximately 92.5 ha. The lake is rectangular in shape, with the Northern most side being narrower and a thinner.

The shoreline surrounding Otto and Herman Lakes are generally comprised of grass (family *Poaceae*), shrubs (multiple families), spruce (family *Picea*), and birch (family *Betulaceae*). Herman and Otto Lakes substrates are comprised of a mixture of particle sizes including silt (0.062 mm – 0.0039 mm), sand (2.0 – 0.063 mm), clay (<0.004 m), and minimal gravel (>2.0 mm; WSP, 2023). The low

gradient along much of Otto Lake's shoreline, along with varying substrate and emergent, overhanging vegetation, provides suitable habitat for many fish species.

1.1.2 Regulatory Context

The Impact Assessment Agency of Canada (IAAC) is the federal authority responsible for administering the impact assessment process for designated projects under the *Impact Assessment Act*. IAAC coordinates the review of potential environmental, social, health, and economic effects of major projects, facilitates consultation with Indigenous groups and public, and supports federal decision-making on whether projects may proceed. The Agency also issues Decision Statements containing legally binding conditions and oversees compliance and follow-up monitoring to ensure proponents meet these requirements throughout the project lifecycle. Federal Environmental Assessment (EA) approval for Magino was granted via a Decision Statement issued on January 24, 2019, and later amended on August 23, 2023 and July 26, 2024.

Magino also operates under provincial Environmental Compliance Approval (ECA; 2066-CQLN6X), issued in accordance with the *Environmental Protection Act (EPA)*. Provincial approval was obtained through a Category B Statement of Completion under the Ontario Ministry of Natural Resources and Forestry's Class Environmental Assessment for Resource Stewardship and Facility Development Projects on March 12, 2019. Argonaut Gold, Prodigy's parent company at the time, announced the start of construction on February 19, 2021. In 2023, the mine transitioned from construction to operation, with commercial production commencing on November 1, 2023. On July 12, 2024, Alamos Gold acquired Prodigy Gold and continued operations at Magino as part of its greater Island Gold District operations.

1.1.3 IAAC Requirements

Under the terms of the EA, Magino is required to implement a comprehensive biological monitoring program to identify and manage any potential effects arising from operational activities on water and sediment quality, algae, fish, and fish habitat. Monitoring program methodologies, frequencies, and durations are required to be developed and implemented in consultation with local Indigenous communities and relevant authorities. During operation and effluent discharge, water quality must be monitored quarterly for total phosphorus, mercury, copper, silver, sulphate, and ammonia at specific sites in the receiving environment. Sediment quality must be monitored annually for copper, arsenic, cadmium, manganese, mercury, and total phosphorus.

Fish health and habitat conditions are to be monitored through fish tissue sampling and population studies. Monitoring is to include fish abundance, population structure and other health metrics. During the first three years of operation, monitoring of fish, nutrient levels, algae abundance, and dissolved oxygen (DO) in receiving waters is required at least twice (2x) per year. After three (3) years of operation, monitoring frequency can then be re-assessed if no adverse effects to fish and fish habitat are indicated.

1.1.4 Rationale

As discussed above, this study was implemented to meet applicable federal environmental assessment requirements and evaluate the potential for effects arising from Magino's operational activities on the receiving environment. The study was to confirm regulatory compliance, assess any temporal or geographical changes over time, relative to established baseline conditions, and identify any potential adverse effects on the biological community and supporting resources.

2.0 METHODOLOGY

This Chapter (2) describes methodologies, procedures, and protocols implemented for the 2025 monitoring program conducted in accordance with Impact Assessment Agency of Canada (IAAC) requirements. The program included field sampling and assessment of sediment quality, algal communities, fish tissue chemistry, and fish population characteristics, with fieldwork completed in June and September–October 2025.

This chapter begins with a description of the sampling locations (Section 2.1), followed by component-specific summaries of field methods, laboratory analyses, and data analysis approaches (Sections 2.2–2.4). Quality assurance and quality control (QA/QC) procedures are described in Section 2.5.

2.1 SAMPLING LOCATIONS

Sediment quality sampling was conducted in September at fourteen (14) stations, including four (4) in Otto Lake and ten (10) in Herman Lake (Table 2.1; Figure 2.1). At each station, three (3) replicate sediment samples were collected and composited to form a single (1) sample for physicochemical analysis. Collecting a composite of three (3) replicate samples at each sample location is required as part of quality assurance and control (QA/QC) measures to ensure sampling accounts for habitat heterogeneity. In addition, two (2) duplicate samples were collected for quality assurance and quality control (QA/QC) purposes. Algae monitoring was conducted at a total of seven (7) stations in the spring (June), with four (4) in Otto Lake and three (3) in Herman Lake. In fall (September), a total of five (5) stations were sampled, with two (2) in Otto Lake and three (3) in Herman Lake (Table 2.1, Figure 2.1). One (1) duplicate QA/QC sample was also taken.

Table 2.1: Sampling Locations for Sediment & Algae (2025)

Waterbody	Site ID	Depth (m)	Site Coordinates		Matrix	
			Latitude	Longitude	Sediment	Algae
Otto Lake	OL-100	2.7	48.294599	-84.508148	x	x
Otto Lake	OL-250	1.6	48.29383	-84.509946	x	x
Otto Lake	OL-B	3.4	48.29482	-84.507567	x	x
Otto Lake	OL-F	0.8	48.294609	-84.513137	x	x
Herman Lake	HL-REF	1.8	48.285379	-84.518617	x	x
Herman Lake	HL-B-IN	2.5	48.29511	-84.520562	x	x
Herman Lake	HL-B	NA	48.30571	-84.52288	nc	x
Herman Lake	HL-100-07	3.8	48.2944	-84.521377	x	nc
Herman Lake	HL-100-09	8.1	48.294829	-84.521839	x	x
Herman Lake	HL-100-11	5.5	48.295313	-84.521869	x	nc
Herman Lake	HL-250-07	12.2	48.29328	-84.522481	x	nc
Herman Lake	HL-250-09	17.5	48.29443	-84.523761	x	nc
Herman Lake	HL-250-11	9	48.2959	-84.523731	x	nc
Herman Lake	HL-500-07	21.1	48.291359	-84.524193	x	nc
Herman Lake	HL-500-11	6.7	48.297959	-84.525767	x	nc

Figure 2.1: Algae & Sediment Sampling Stations; Otto & Herman Lake (2025)

Fish tissue and population surveys were done in Otto and Herman Lakes in Spring (June) and Fall (September) of 2025 once permits were obtained (Figure 2.2 and 2.3). Fishing gear was deployed after assessing habitat characteristics at each lake and assessing sampling locations from past studies (WSP, 2022). Individuals selected for the fish population studies included those collected for fish tissue analysis, as well as additional individuals captured from Smithy Lake, a background reference waterbody with no active mine influence. Smithy Lake was sampled in the Fall (October) 2025 (Figure 2.4).

Figure 2.2: Location of Fish Sampling Locations in Otto & Herman Lake (June)



Figure 2.3: Location of Fish Sampling Stations in Otto & Herman Lake (September)

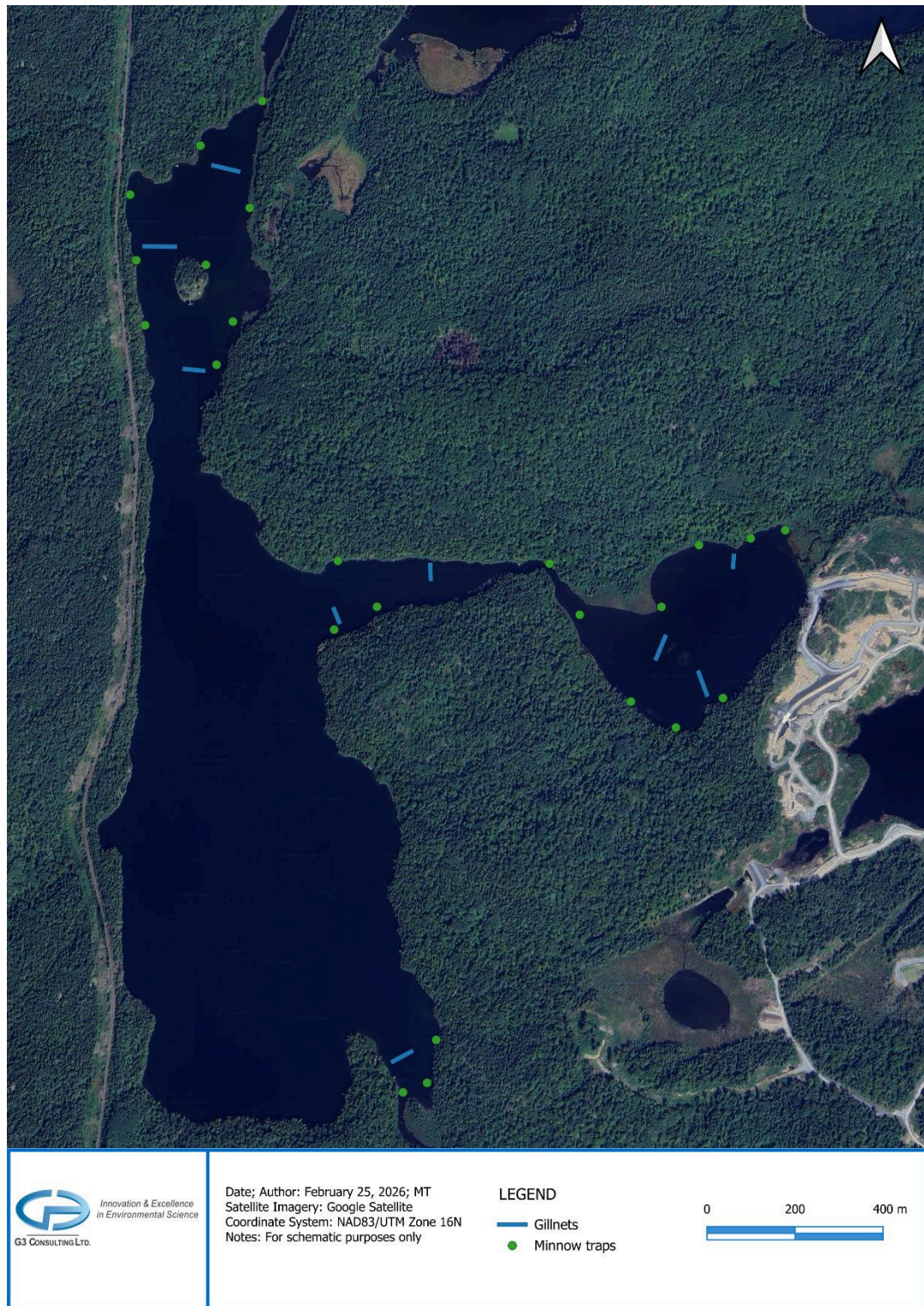


Figure 2.4: Location of Fish Sampling Stations in Smithy Lake



2.2 SEDIMENT QUALITY

2.2.1 Rationale

Under the IAAC, copper, arsenic, cadmium, manganese, mercury, and total phosphorus are to be analyzed annually in sediments from Otto and Herman Lake. Additional parameters tested included percent (%) particle size, nutrients (total organic carbon, nitrogen) and metals (total metals, extractable metals, and acid volatile sulfides). Sediments serve as a potential repository for various environmental elements, as metals and other compounds frequently adsorb onto sediment particles. Processes such as resuspension or desorption can remobilize these compounds, reintroducing them into the overlying water column. Benthic organisms, which inhabit the sediment surface, water-sediment interface and the sediment matrix itself, constitute the base of most aquatic food webs. Consequently, these organisms may be exposed to sediment-associated compounds, facilitating their transfer to higher trophic levels.

2.2.2 Field Methods

Sediment was collected using a pre-treated stainless steel Ponar grab (0.052 m² surface area), deployed using an electric line hauler. Prior to Ponar deployment, exposed surfaces of the Ponar were rinsed with reagent grade acetone and distilled water to reduce cross-contamination of samples between stations. Surface sediments representing those most recently deposited (i.e., top 2 cm) were collected to assess recent deposition and sediment quality at the water-sediment interface. Only sediment grabs with an undisturbed surface were considered acceptable for analysis. Rejected grabs were stored in containers and disposed of at locations away from sampling sites to prevent contamination.

Three (3) replicate grabs were collected at each station and transferred to lab-cleaned glass jars, with Teflon-lined lids for separate particle size analyses and composited for chemistry. Composite samples were collected by mixing equal portions of sediment from each replicate in a clean, pre-treated stainless-steel bowl using a pre-treated stainless-steel spoon, then transferring the homogenized sample into a separate lab-treated, glass jar. Metal bowls and spoons were rinsed between stations using distilled water, acetone and then distilled water again.

Station and sampling details, water depth, coordinates, and depth of sediment penetration were recorded. Project-specific sample identification and tracking numbers were assigned for each replicate collected. Photographs of samples and related field procedures were taken throughout the project. Supporting information for sediments included:

- overall visual sediment characteristics (e.g., texture, colour, consistency, odour, presence of debris and/or fauna);
- percent (%) fullness of grab, depth of sediment collected and depth of penetration; and,
- vertical profile characteristics (e.g., homogeneity, presence of thin oxidized layer on surface, oily sheen, varve, etc.).

Following collection, samples were stored in coolers with icepacks contained in Ziploc® bags and maintained at 5-7°C. A Chain of Custody (CoC) form was then completed and accompanied by each cooler during transport to the lab. The following quality assurance and control (QA/QC) measures were implemented during sediment sample collection:

- new nitrile gloves were worn at each station and throughout sampling;
- equipment was thoroughly rinsed and cleaned using appropriate agents prior to use between sampling locations;
- sediment samples were placed in clean, pre-labeled, laboratory prepared glass jars with Teflon-lined lids;
- blind field duplicate sediment quality samples were collected for 10%-15% of total samples; and,
- sample identifications, locations, dates, and other pertinent information were recorded in water-proof field logbooks and project-specific field sheets, on sample containers and laboratory Chain of Custody (COC) forms.

2.2.3 Laboratory Methods

Sediment analysis was conducted by ALS Environmental (Thunder Bay, ON). ALS Environmental is an ISO certified Lab, accredited by Canadian Association of Laboratory Accreditation (CALA). Sediment quality samples were analyzed for the following physical and chemical analytes, including and beyond the IAAC requirements:

- physical variables - particle size, moisture;
- nutrients - carbon and nitrogen contents; and,
- metals - total metals, extractable metals, and acid volatile sulfides (AVS).

A complete list of parameters and corresponding analytical detection limits are provided in Appendix 3.

2.2.4 Data Analysis

Results were compared to the *Ontario Provincial Sediment Quality Guidelines* (PSQG, 2024) and the *Canadian Sediment Quality Guidelines* (CSQG) for the *Protection of Aquatic Life* (CCME, 2024). The CCME *Interim Sediment Quality Guidelines* (ISQG) represent concentrations below which adverse biological effects are expected to occur only rarely, while the *CCME Probable Effects Levels* (PEL) represent concentrations above which adverse biological effects are likely to occur. PSQGs are designed to protect aquatic life and provide a framework for evaluating the potential effects of sediment-associated compounds on benthic invertebrate communities. The PSQG define three (3) effect levels:

1. No Effect Level (NEL): Concentrations at which sediment and sediment-dwelling organisms are not expected to be affected;
2. Lowest Effect Level (LEL): Concentrations of contaminants that can generally be tolerated by most sediment-dwelling benthic invertebrates; and,
3. Severe Effect Level (SEL): Concentrations at which significant adverse effects on sediment-dwelling communities are likely, potentially causing pronounced disruption.

2.3 ALGAE SAMPLING

2.3.1 Rationale

Phytoplankton and freshwater zooplankton form the base of aquatic food webs. Phytoplankton are primary producers, while zooplankton are heterotrophic, feeding on phytoplankton or smaller zooplankton. Together, they influence water clarity, nutrient cycling, and lake productivity, and their abundance in Otto and Herman Lakes provides a key indicator of ecosystem health. Nutrient concentrations (e.g., chlorophylla), algal abundance, and dissolved oxygen levels in Otto Lake and Herman Lake are to be monitored twice (2x) annually during the first three (3) years of mining operations to ensure compliance with Impact Assessment Agency of Canada (IAAC) requirements.

Algal assessments included taxonomic identification performed by a qualified taxonomist, as well as measurement of chlorophylla as a proxy for biomass. Both biomass and numerical abundance (density) are then compared spatially and temporally to evaluate variability and identify and potential mine activity related effects within the lakes.

2.3.2 Field Methods

Phytoplankton samples were collected from the photic zone, the depth at which light intensity is approximately 1% of surface illumination, on June 21 and September 17, 2025. Once the photic zone depth was determined, a Niskin sampler was deployed to collect water at that depth. The sampler was cleaned between sites and new nitrile gloves worn during sampling and between stations to prevent cross-contamination.

Algae Abundance

A laboratory prepared, opaque sample bottle prefilled with 1% Lugol's solution, was filled directly with water collected from the photic zone using the Niskin sampler. Each bottle was then labeled with the station ID, date, and time of collection, and stored in a designated cooler until shipped to the taxonomist for analysis with completed chain-of-custody documentation.

Chlorophyll-a

At each algae station, a lar-prepared 1 L bottle was filled with water from the Niskin sampler and transported to a designated onshore filtration station. Filtration was conducted under subdued lighting conditions to minimize pigment degradation. Filtration was performed using 47 mm borosilicate glass microfiber GF/A filters (1.6 µm pore size). Pump pressure was maintained below 20 kPa, and filtration time did not exceed 10 minutes to prevent cell lysis and potential chlorophyll-a loss. Filtration continued until the filter developed a visible green or brown coloration, at which point the process was stopped and filtered volume recorded. To prevent desiccation of the filter, vacuum pressure was gradually released as the final sample volume passed through.

The filter was lightly blotted with a tissue to remove excess moisture, removed using clean tweezers, rolled carefully, and placed into a lab-supplied sample tube, labelled with corresponding site identification. Filtration time and final volumes were documented on sample tubes. The filtration apparatus was rinsed with distilled water between stations to prevent cross-contamination. Samples were stored in coolers with ice packs and shipped to the analytical laboratory with completed chain-of-custody documentation.

In Situ Measurements

At each algae station, *in situ* a variety of parameters (i.e., conductivity, salinity, temperature, pH, temperature, dissolved oxygen, turbidity and TSS) were recorded throughout the photic zone using a YSI EXO2 Sonde. To ensure proper acclimation of the YSI EXO2 Sonde, the unit was lowered to a depth of 0.5 m below the surface of the water until readings stabilized. In situ measurements were collected to assess dissolved oxygen concentrations, which, when evaluated alongside chlorophyll-a, provide insight into algal metabolic activity.

2.3.3 Laboratory Methods

Algae abundance samples were identified and enumerated for density and biovolume by an accredited taxonomist. Chlorophyll-a levels were assessed by ALS Environmental (Thunder Bay, ON).

2.3.4 Data Analysis

To evaluate the structure and health of phytoplankton communities, G3 calculated ecological endpoints quantifying abundance, richness, and diversity. Metrics included abundance/density (organisms per filtered volume), taxon richness (number of taxa per sample), Simpson's Diversity Index (D), and Shannon–Wiener Diversity Index (H'). Results were standardized to organisms per millilitre (org/mL) and analyzed in terms of total and taxon-specific abundance, richness, and overall community diversity.

Species and taxon diversity reflects habitat suitability factors such as disturbance, habitat complexity, pollutant exposure, and nutrient availability. Competition for limited resources generally promotes higher diversity, whereas the addition of previously limiting resources (e.g., through eutrophication) can reduce diversity as opportunistic taxa proliferate and outcompete others. Diversity is commonly assessed using Simpson's D and Shannon–Wiener H'. Simpson's Index, based on probability theory, represents the likelihood that two (2) randomly selected individuals belong to different taxa and emphasizes common taxa while minimizing the influence of rare taxa. In contrast, Shannon–Wiener H' is derived from information theory and quantifies the uncertainty in predicting the next sampled individual, giving greater weight to rare taxa. Both indices are maximized when taxa are equally abundant; the maximum of Simpson's D is 1, while Shannon–Wiener H' is limited by $\ln(\text{taxon richness})$. Both indices reach 0 when only a single taxon is present. Simpson's Diversity Index was calculated using the following formula:

$$D = 1 - \sum_{i=1}^S (P_i)^2$$

Where S = number of taxa, $P_i = N_i/N$, N_i = number of individuals in the *i*th taxon (*i* = 1 to S), and N = total number of individuals

The Shannon-Wiener Diversity Index (H'; Shannon and Weaver, 1963) was calculated using the formula:

$$H' = - \sum_{i=1}^S P_i \ln P_i$$

Where S = number of taxa, $P_i = N_i/N$, N_i = number of individuals in the *i*th taxon (*i* = 1 to S), and N = total number of individuals

In addition to endpoints, algae community data were analyzed using multivariate techniques. These techniques serve to reduce complex taxa-abundance data to a form that is visually interpretable. The software PRIMER 6 (Plymouth Routines in Multivariate Ecological Research, version 6). Multi-dimensional scaling (MDS), based on Bray–Curtis similarities, was employed to display any differences in community structure among samples (Clarke and Warwick, 2001).

2.4 FISH SAMPLING

2.4.1 Rationale

The Impact Assessment Agency of Canada (IAAC) requires fish tissue (bioaccumulation) and fish population studies be done to evaluate fish abundance, population structure, and other health metrics twice annually (2x) during the first three (3) years of operation. The 2025 program was done during the second year of mining operations. The IAAC Amended Decision Statement further mandates monitoring of mercury, methylmercury, lead, arsenic, and cobalt in fish tissue from Otto Lake and downstream waterbodies at a frequency of every three (3) years during all phases of the Designated Project, beginning in the first year (1) of construction, and subsequently every five (5) years until decommissioning (IAAC, 2020).

The fish tissue monitoring program in receiving waters of the Magino Mine effluent was implemented as required to satisfy *IAAC Conditions 3.18.3 and 5.4.4*, and to ensure that project activities do not adversely affect fish populations or use by Indigenous harvesters and other stakeholders (IAAC, 2020).

2.4.2 Timing & Sampling Areas

Fish tissue and population surveys were completed during three (3) sampling periods in 2025. Spring sampling was conducted at Otto Lake and Herman Lake (June 17–18, 2025). Fall sampling occurred at Otto and Herman Lakes (September 8–11, 2025) and Smithy Lake (October 28–30, 2025). Smithy Lake was sampled as a reference lake with no influence from Magino. Final placement of sampling gear was determined in the field and based on local site conditions (Figure 2.3).

2.4.3 Fishing Gear & Effort

Gillnets consisted of three (3) panels incorporating mesh sizes (4" × 3.5", 3" × 2.8", and 2.8" × 2.5"). Each panel measured 175 feet in length and 8 feet in height. Nets were deployed by boat, set on lake bottom, and oriented perpendicular to the shoreline to standardize sampling approach and effort to maximize catch efficiency across depth gradients.

Minnow (Gee) traps were deployed in proximity to gillnets, in shallower habitats associated with aquatic vegetation, woody debris, or other structural features. Traps were set and retrieved concurrent with gillnets. Each trap measured 42 cm in length, 23 cm in diameter at midpoint with a 19 cm opening diameter.

2.4.4 Field Methods

Fish were collected from Otto Lake, Herman Lake, and Smithy Lake using multi-mesh gillnets and baited minnow traps. In June, gillnets were deployed for approximately 1.5 to 3.5 hours to maximize fish survival, as non-lethal biopsy methods were required for tissue collection. In September, gillnets were set for 18 hrs to 24 hrs. Minnow traps were deployed for 20 to 24 hours during both sampling periods. Following capture, fish were transported to a shore-based field processing station for biological measurements and tissue collection. During non-lethal sampling events (June), dorsal muscle biopsy punches were collected using new sterile biopsy punches for each individual to prevent cross-contamination. For lethal sampling events (September), a 10 cm to 15 cm section of dorsal muscle were dissected using a pre-treated, stainless-steel fillet knife, ensuring a minimum of 50 g wet weight per sample to provide sufficient material for laboratory analysis.

Each tissue sample was placed in a new, pre-labelled Whirl-Pak® bag marked with a unique sample identification number, species name, tissue type, date, and collection method. Sample details were also recorded in field notebooks and project specific forms, with representative photos taken of each species. Air was purged from the bags prior to freezing, and samples immediately stored in coolers containing ice packs (inside Ziploc® bags). To minimize contamination, new nitrile gloves were worn for each fish processed. Dissection tools were rigorously cleaned between individuals: scalpels were rinsed with 10% nitric acid (HNO₃) followed by deionized water, blades were changed frequently, and fillet knives and cutting boards were rinsed with distilled water, treated with reagent-grade acetone, and rinsed again with distilled water for each fish processed.

Samples were frozen in onsite freezers, then shipped with ice packs and Chain of Custody documentation to the CALA-accredited analytical laboratory (e.g., ALS, Thunder Bay, Ontario) for analysis. Muscle tissue was analyzed for total mercury, total metals, percent (%) lipids, percent (%) moisture, and nutrients.

In addition to tissue collection, fish population assessments were conducted in accordance with IAAC requirements, following methodologies outlined by the federal Environmental Effects Monitoring (EEM) Program (ECCC, 2022). At each field station, fish were measured for length, weight and gender (where possible) and underwent a histopathological inspect for abnormalities including lesions, deformities, and parasites. Where applicable, liver and gonad weights were also recorded.

For large-bodied fish, multiple ageing structures were collected, air-dried, and stored in pre-labeled containers or envelopes as appropriate, then submitted to the laboratory for age determination. Collecting multiple structures ensured reliable results even if the primary structure were damaged or indeterminant. Table 2.2 summarizes primary ageing structures targeted for each species. Female ovaries were retained and transported to the G3 laboratory for fecundity analysis, including egg weight.

Table 2.2: Aging Structures Collected for Large-Bodied Fish Species

Species	Aging Structure	Notes
Lake Whitefish (<i>Coregonus clupeaformis</i>)	Otolith, pectoral fin rays and scales	
Northern Pike (<i>Esox lucius</i>)	Cleithra, pectoral fin rays and scales	
Walleye (<i>Sander vitreus</i>)	Otolith, dorsal spines, scales	· Total length <40 cm age with scales; · Total length >40 cm age with otolith or dorsal spine
White Sucker (<i>Catostomus commersonii</i>)	Otolith, pectoral fin rays, scales	· Older suckers aged with fin rays

Note: Preferred aging structures followed EEM whenever possible (2012).

2.4.5 Laboratory Methods

Fish tissues were analyzed by ALS (Thunder Bay, ON) for various parameters including metals, methylmercury, percent (%) moisture, and percent (%) lipids. Spring fish ageing structures were sent to North South Consultants (Thunder Bay, ON) . Fall samples were sent to the Canadian Rivers Institute Laboratory (Fredericton, NB).

2.4.6 Data Analysis

Data collected from individual fish during the population monitoring program were used to calculate key health and population metrics and to characterize the structure of fish populations within the study area. Metrics provide insight into abundance, condition, reproductive potential, and overall ecological status of populations. Specifically, catch-per-unit-effort (CPUE) was calculated to estimate relative abundance and assess temporal or spatial trends in population density. Occurrence data were used to determine species presence and distribution patterns within the lakes. Length-frequency distributions enabled evaluation of population age structure, growth rates, and recruitment success.

Fish health and physiological condition were assessed through multiple indices, including gonadosomatic index (GSI) to quantify reproductive investment, hepatosomatic index (HSI) to evaluate liver size relative to body weight, as an indicator of energy reserves or contaminant exposure, and condition factor (K) to assess overall body condition and fitness. Additionally, fecundity measurements, derived from ovarian samples, provided information on reproductive output and potential recruitment, important for evaluating sustainability of the population and potential effects from environmental stressors. Collectively, metrics enabled a comprehensive assessment of population structure, health, and potential impacts from environmental or anthropogenic factors, including potential exposure to compounds discharged in final mine effluent into receiving waters.

Catch-Per-Unit-Effort

Catch-per-unit-effort (CPUE) is a widely used fisheries metric that provides an index of fish abundance within a given area and enables comparisons of population trends over time or between locations. CPUE represents the number of fish captured relative to a standardized amount of fishing effort, providing a quantitative measure of species abundance. CPUE was calculated using the following formula:

- $CPUE = C/F$

Where C represents the total number of fish caught and F represents total fishing effort in hours.

Length-Frequency Distribution & Survival

Length–frequency distribution analysis was done to characterize fish population structure and assess patterns of recruitment within the study lakes. Fish lengths were grouped into defined size classes (e.g., 10- or 20-mm intervals, depending on species and sample size) to generate species-specific length–frequency histograms. These distributions were examined to identify modal size classes, detect presence of young-of-the-year (YOY), juveniles and adults, and evaluate the relative representation of age or size cohorts. Population survival patterns were inferred from the distribution of individuals across successive size classes, assuming larger size classes correspond to older age groups. Where age-determination data were available (e.g., otoliths, scales, or spines), length-at-age relationships were used to support interpretation of cohort strength and interannual survival. Length–frequency data were summarized by species and sampling location to facilitate spatial and temporal comparisons.

Gonadosomatic & Hepatosomatic Index

Gonadosomatic Index (GSI) and Hepatosomatic Index (HSI) are standard metrics used in lake fish studies to evaluate reproductive investment and energy storage, respectively. GSI quantifies the relative allocation of body mass to gonadal development and was calculated as:

$$GSI (\%) = \text{Gonad Weight (g)} / \text{Total Body Weight (g)} \times 100$$

HSI provides an indication of energy reserves and physiological condition by expressing liver weight relative to total body weight and was calculated as:

$$HSI (\%) = \text{Liver Weight (g)} / \text{Total Body Weight (g)} \times 100$$

Indices were calculated for each individual fish and summarized by species, sex, and sampling location.

Condition Factor

The condition factor (K) is a widely used metric for assessing fish health and overall somatic condition, based on the assumption that heavier individuals of a given length are in better condition (Lima-Junior et al., 2002). Values may vary with life stage, reproductive status, and season. Condition factors were calculated as:

$$K = 100 \times \frac{W(g)}{L^3(cm^3)}$$

Where: W is total body weight (g) and L is fork length (cm). The scaling constant of 100 is appropriate for measurements expressed in grams (g) and centimeters (cm). Condition index values >1.02 were interpreted as indicating fish in excellent condition (Carlander, 1944), while lower values reflect progressively poorer somatic conditions.

Fecundity

Fecundity was assessed to evaluate reproductive output and energy allocation, following Metal and Diamond Mining Environmental Effects Monitoring (EEM) Technical Guidance (ECCC, 2023). For each mature female:

- ovaries were excised and weighed to obtain total wet gonad weight (g);
- representative sub-sample taken of at least 100 eggs, counted, and weighed to nearest 0.001 g; and,
- mean egg weight (g) was calculated by dividing sub-sample weight (g) by number of eggs counted.

Total fecundity (eggs per female) was then estimated as:

$$F = \text{Total gonad weight (g)} / \text{Sub sample weight of 100 eggs (g)} / 100$$

Fish Tissue Guidelines

Fish tissue contaminant concentrations were evaluated against federal and provincial benchmarks to assess ecological and human health risks. Analyses focused on mercury, methylmercury, arsenic, lead, and cobalt.

Methylmercury: Benchmarked against the Canadian Tissue Residue Guideline (CCME, 2000), which sets 0.033 mg/kg wet weight (wwt) to protect wildlife and human consumers.

Total Mercury: Human health risk using Ontario Ministry of Environment, Conservation and Parks (MECP) sport fish advisories: 0.50 mg/kg (wwt) for sensitive populations and 1.8 mg/kg (wwt) for the general population (MECP, 2017). Federal Health Canada guidelines for commercially sold fish (0.5 mg/kg [wwt]) were also considered (HC, 2007).

Arsenic and Lead: Compared to Canadian Food Inspection Agency (CFIA) maximum levels in fish: 3.5 mg/kg for arsenic and 0.5 mg/kg for lead wwt (CFIA, 2011).

Cobalt: No applicable tissue residue guidelines were identified (Table 2.3). This framework enabled evaluation of both ecological impacts on fish populations and potential risks to human consumers of fish from the study lakes.

This framework enabled evaluation of both ecological impacts on fish populations and potential risks to human consumers of fish from the study lakes.

Table 2.3: Guideline Values for Methylmercury, Mercury, Arsenic, Lead, and Cobalt in Fish Muscle

Category	Type	Methylmercury (mg/kg ww)	Mercury (mg/kg ww)	Arsenic (mg/kg ww)	Lead (mg/kg ww)	Cobalt (mg/kg ww)
Detection	DL	0.0005	0.001	0.004	0.004	0.004
Wildlife	Benchmark	0.033	NA	NA	NA	NA
Sensitive	Restriction	NA	0.5	NA	NA	NA
General	Restriction	NA	1.8	3.5	0.5	NA

Note: Detection limits are from ALS Biota Methods, converted to mg/kg ww as needed.

Methylmercury wildlife benchmark from CCME (2000); mercury consumption advisories from MECP (2017); commercial fish mercury limit from Health Canada (2007); arsenic and lead limits from CFIA (2011).

No Canadian fish tissue guidelines are available for cobalt; cobalt results were therefore compared only to method detection limits and discussed qualitatively.

2.5 QUALITY ASSURANCE & QUALITY CONTROL (QA/QC)

Robust quality assurance (QA) and quality control (QC) practices are essential to ensuring the integrity, reliability, and interpretability of environmental data. QA encompasses management and technical procedures that maintain consistently high-quality data throughout a study, from planning and sample collection to analysis and reporting. QC, as a component of QA, involves procedures used to assess and verify data quality and to implement corrective actions if data quality objectives are not met.

The QA/QC program for this study incorporated both procedural and analytical measures applied at all stages of the program. Procedural QA/QC included comprehensive training of personnel in sampling methods, adherence to written Standard Operating Procedures (SOPs), and rigorous documentation of sampling activities and data management, including use of unique sample identification numbers, chain-of-custody (CoC) forms, and laboratory sample log-in protocols. Field instruments were calibrated prior to each sampling event and data regularly checked for completeness and consistency.

2.5.1 Field QA/QC

Prior to each sampling event, a pre-field meeting was held with field personnel to review program objectives, clarify individual roles, address questions regarding the Operational Work Plan (OWP), confirm equipment and logistical needs, review safety protocols, communications and establish emergency and contingency plans.

Field observations were recorded on waterproof, project-specific data forms sheets using established record-keeping procedures. Samples were documented and tracked using CoC forms,

and laboratory receipt of samples was confirmed. Field crews provided regular updates to the project manager on progress and ensured proper ultra trace protocols by wearing new nitrile gloves when handling sampling equipment and changing gloves between samples and sites to prevent cross-contamination.

Duplicate or replicate samples were collected at the same time and location as regular samples to assess within-site variability, field sampling precision, and laboratory analytical reproducibility. Differences between concentrations measured in duplicate samples were expressed as the relative percent difference (RPD):

$$\text{RPD} = (|\text{difference in concentration between duplicate samples}| / \text{mean concentration}) \times 100$$

Analyte RPDs exceeding laboratory-defined data quality objectives were flagged for review and potential corrective action.

2.5.2 Laboratory QA/QC

Analytical QA/QC measures implemented by ALS Environmental included:

- method blanks to detect contamination;
- duplicate analyses to assess reproducibility;
- matrix spikes to evaluate recovery efficiency; and,
- laboratory control samples and Certified Reference Materials (CRM) to verify instrument calibration and analytical accuracy.

Taxonomic QA/QC included verification of sorting efficiency and abundance estimates as well as taxonomic identification accuracy.

Fish ageing QA/QC involved multi-reader verification of a subset of ageing structures. Samples were first read by a primary reader and then re-read under blind conditions, where the reader had no knowledge of sample identity, fish size, or other biological information. A subset was subsequently read independently by a second reader, providing up to three independent age determinations per sample. These results were used to calculate error rates at the sample and project levels. Samples not meeting the accepted precision threshold (<10% error) underwent additional independent verification and analysis.

3.0 RESULTS

The IAAC Biological Monitoring Study was conducted in the receiving environment of Magino Gold Mine (Magino) within Otto and Herman Lakes. This chapter presents study results for sediment quality (Section 3.1), algae quality (Section 3.2), fish population structure (Section 3.3), and fish tissue (bioaccumulation) results (Section 3.4). Summarized results are presented in tables and charts in the main body of the report as discussed and raw data in the Appendix (Appendix 2 to 5).

3.1 SEDIMENT QUALITY

The sediment quality assessment included testing of key physical and chemical parameters to characterize sediment conditions. Physical property analyses included moisture content and pH. Moisture content was measured because it varies among sediment types and, when interpreted together with particle size distribution, helps define sediment composition at each sampling station and identify potential localized changes in depositional or water movement patterns. Sediment pH was also measured because it affects important biological and chemical processes, including nutrient speciation, solubility, and mobility within the sediment.

Nutrient-related parameters included carbon and nitrogen in several forms to assess organic content and nutrient availability. Carbon was measured as total organic carbon (TOC) and total carbon (TC), while nitrogen was analyzed as total nitrogen (TN), total organic nitrogen (TON), and total Kjeldahl nitrogen (TKN). These parameters were tested because carbon and nitrogen contribute to sediment productivity and influence multiple chemical processes that affect aquatic ecosystems.

Metal-related analyses included acid volatile sulphide (AVS), simultaneously extracted metals (SEM), and total metals. AVS and SEM were measured to assess metal bioavailability and the potential for toxic substances to be available for uptake by aquatic organisms, while total metal concentrations were compared with sediment quality guidelines to evaluate potential risks to benthic organisms.

Results were compared with applicable sediment quality guidelines (SQGs), as described above. A summary of the 2025 program results is provided in Table A3.1 to A3.4 (Appendix 1). Raw data is included in Appendix 3.

3.1.1 Physical Properties

Surface and subsurface sediment colour was uniformly dark brown at all stations in Otto Lake. In Herman Lake, sediments were dark brown to brown-green at both surface and subsurface layers (Table A3.1, Appendix 1). Sediment texture in both lakes was generally characterized as silky, gritty, or a combination of the two. Sediment consistency was characterized as thick and pudding-like in both lakes. One (1) station in Herman Lake was characterized by loose, fluffy sediment that readily fell apart upon disturbance (HL-250-07). A noticeable sulphurous (H_2S) odour was noted in most sediments from Otto Lake. Sediments from Herman Lake were reported to be odourless (Photos A2-1–A2-14, Appendix 2; Table A3.1, Appendix 1).

Physical tests included moisture (%) and pH on sediments from each station. Percent (%) moisture in sediment measures the amount of water contained between (interstitial) substrate particles. Fine sediments (i.e., clay and silt) contain more moisture than coarse sediments (i.e., sand). Percent (%) moisture at most stations ranged from 88.0% (HL-500-11) to 96.6% (OL-100). A few exceptions were noted, including 69.0% (OL-F), 62.4% (HL-100-07), and 28.0% (HL-250-11; Table A3.2, Appendix 1). The shallowest station at Otto Lake was approximately 0.8 m (OL-F) and deepest at Herman Lake, approximately 21.1 m (HL-500-07). Average depth was approximately 2.2 m across Otto Lake and 8.9 m in Herman Lake.

Sediment pH reflects the hydrogen ion activity within sediment porewater and is an important parameter influencing geochemical and biological processes in aquatic systems. Sediment pH can affect speciation, solubility, and mobility of nutrients and metals, thereby influencing bioavailability and potential toxicity to benthic organisms. In turn, biogeochemical processes occurring within sediments, such as microbial decomposition of organic matter and respiration, can alter porewater pH conditions.

In 2025, sediment pH in Otto Lake and Herman Lake ranged from 5.50 (HL-REF) to 6.76 (OL-F) (Table A3.2, Appendix 1). Similar pH ranges were observed in Herman Lake in the 2022 monitoring program, suggesting comparatively similar conditions over time. In Otto Lake, sediment pH was slightly higher in 2025 (mean = 6.5) compared to 2022 (mean = 6.1; WSP, 2022).

3.1.2 Particle Size Distribution

Sediments from Otto and Herman Lakes were analyzed to determine particle size distribution. Analyzed sediments included gravel (>16.0 – 2.0 mm), sand (2.0 – 0.0062 mm), silt (0.0062 – 0.003 mm), and clay (<0.003 mm). Gravel was not noted (<1%) at any stations in 2025; whereas gravel content ranged from 3% to 21.5% in 2022 (Table 3.1).

Mean sand content decreased substantially between monitoring years in both lakes. In Otto Lake, mean sand content declined from 68.9% (2022) to 18.3% (2025). In Herman Lake sand content decreased from 35.3% (2022) to 19.1% (2025). In 2025, sand content ranged from <1.0% (OL-B, OL-100, OL-250) to 70.1% (OL-F) in Otto Lake and from <1.0% (HL-250-09) to 91.9% (HL-250-11) in Herman Lake (Table A3.3, Appendix 1).

Silt increased notably in Otto Lake between 2022 and 2025 and represented the dominant sediment fraction in 2025. Mean silt content increased from 14.7% (2022) to 74.6% (2025). In Herman Lake, mean silt content remained similar between both monitoring years. In 2025, silt content ranged from 29.4% (OL-F) to 90.7% (OL-B) in Otto Lake and from 7.2% (HL-250-11) to 89.8% (HL-250-09) in Herman Lake.

Mean clay content was also comparable between monitoring years in both lakes, averaging approximately 7%. In 2025, clay content ranged from <1.0% (OL-F) to 12.0% (OL-250) in Otto Lake and from <1.0% (HL-250-11) to 16.5% (HL-500-07) in Herman Lake.

Overall, in 2025, sediments in both lakes during 2025 were generally composed of silt, with lesser contributions from clay, except at stations OL-F, HL-100-11, and HL-250-11, where sand was the dominant fraction (Charts 3.1 and 3.2). Results indicated a notable shift from predominantly sand-dominated sediments in Otto Lake in 2022 to silt-dominated sediments in 2025. The observed shift toward finer-grained, silt-dominated sediments in Otto Lake between 2022 and 2025 may reflect

changes in sediment transport and depositional processes within the system. Fine particles such as silt are more readily transported in suspension and tend to accumulate in areas of reduced hydrodynamic energy, where settling rates exceed resuspension. Localized changes in water circulation patterns, inflow dynamics from upstream waterbodies, or effluent discharge conditions could influence sediment settling and redistribution. Effluent discharges (directly associated with operations) also contribute fine particulate material or promote flocculation of suspended particles, increasing deposition of silt-sized fractions near receiving environments. Additionally, seasonal variations in runoff, lake stratification, or sediment resuspension events may alter the balance between coarse and fine sediment deposition. Ongoing monitoring will assist in determining if the shift observed in 2025 represents a persistent change in sediment composition or shorter-term variability in sedimentation processes and effluent discharge to Otto Lake.

Table 3.1 Sediment Particle Size Comparison Current & Historical (%)

Otto Lake							
Parameters	Current (2025)			Historical (2022)			Difference
	Min	Max	Mean	Min	Max	Mean	
Gravel (16.0 - 2.0 mm)	<1.0	<1.0	<1.0	3	21.5	9.1	160.6
Sand (2.0 - 0.0062 mm)	<1.0	70.1	18.3	61.6	77	68.9	116.1
Silt (0.062 - 0.0039 mm)	29.4	91.8	74.6	12.1	16.4	14.7	134.1
Clay < (0.003 mm)	<1	12	7.4	4.8	11.8	7.3	1.6
Herman Lake							
Parameters	Current (2025)			Historical (2022)			Difference
	Min	Max	Mean	Min	Max	Mean	
Gravel (16.0 - 2.0 mm)	<1	<1	<1	<1	<1	<1	0
Sand (2.0 - 0.0062 mm)	1	91.9	19.1	27.5	41.3	35.3	59.5
Silt (0.062 - 0.0039 mm)	7.2	89.8	71.7	53.6	60	56.8	23.2
Clay < (0.003 mm)	<1	16.5	8.1	5.1	13.6	7.7	4.9

Chart 3.1: Sediment Particle Size Distribution Otto Lake (2025)

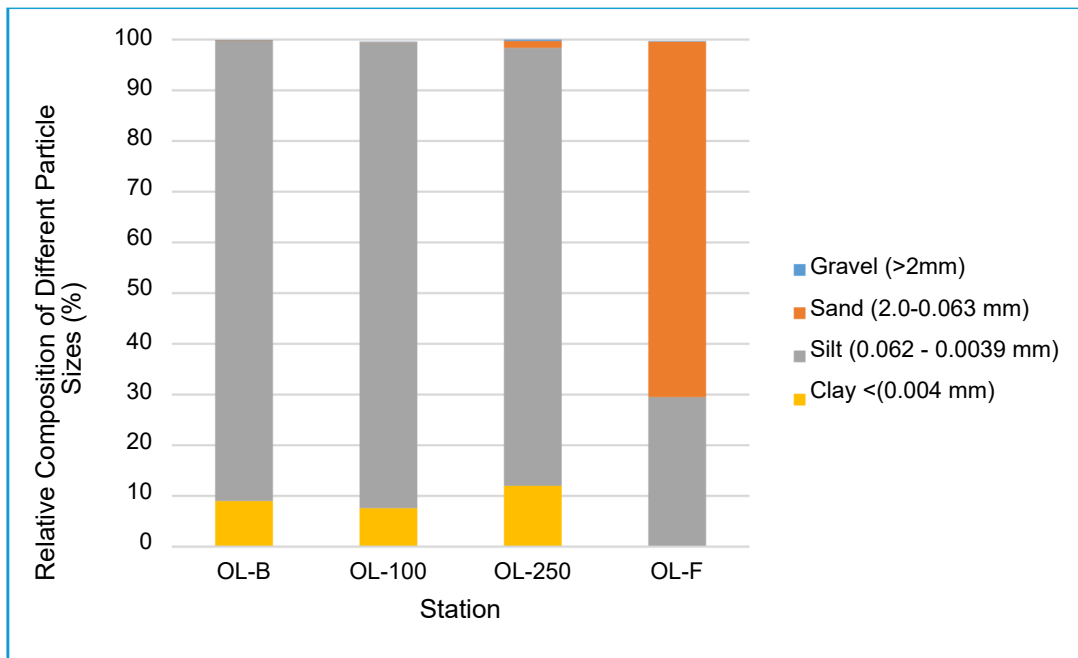
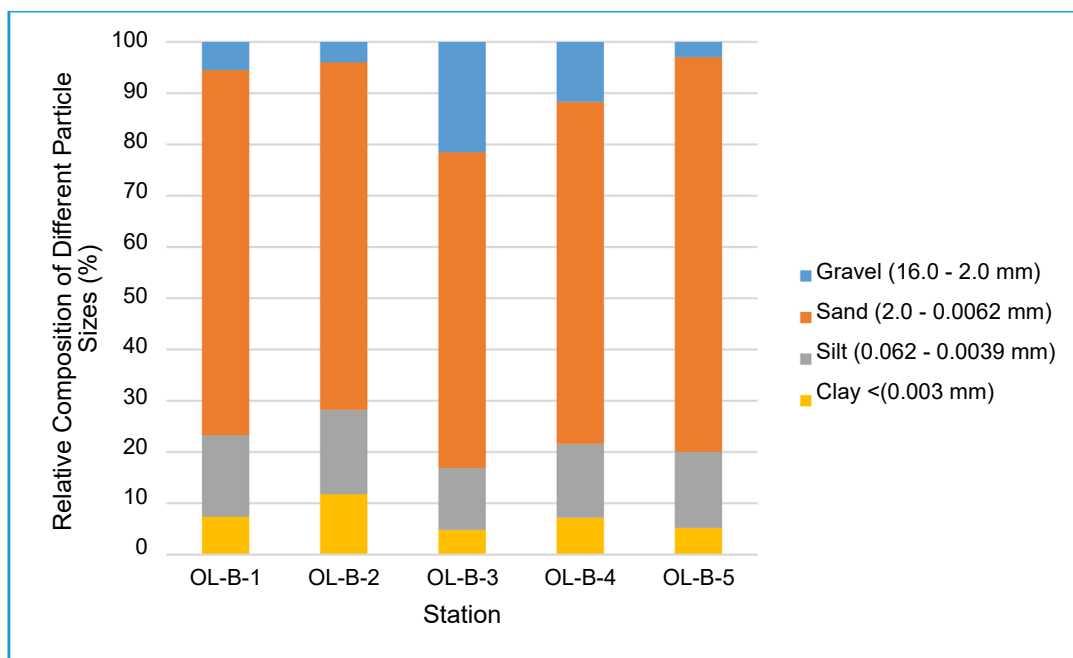


Chart 3.2: Sediment Particle Size Distribution Herman Lake (2025)



3.1.3 Carbon & Nitrogen

Total organic carbon (TOC) is a measure of the amount of all organic forms of carbon present in sediments. Organic carbon is a food source for microorganisms and often used as a non-specific indicator of sediment quality. In addition, many chemicals can bind to organic substrates. Organic content of sediments may be influenced by inputs from various sources and decomposition rates through biological and chemical processes occurring in overlying waters. Total Carbon (TC) is the sum of inorganic and organic forms of carbon present in sediments (Hyland *et al.*, 2005; Yu *et al.*, 2022; Catalán *et al.*, 2016). TOC in sediment ranged from 3.18% (OL-F) to 26.7% (OL-100) in Otto Lake and from 2.86% (HL-100-07) to 25.4% (HL-REF) in Herman Lake (Table A3.2, Appendix 1). TOC in 2022 sediment within Otto and Herman Lakes ranged from 3.95% (HL-B-1) to 15.7% (OL-B-4), notably lower than 2025. Total organic carbon exceeded the PSQG-LEL (1%) at all stations in Otto and Herman Lake and was over the SEL (10%) at three (3) stations in Otto and seven (7) stations in Herman Lake in 2025 (Table A3.2, Appendix 1). In 2022, TOC exceeded the PSQG-LEL at four (4) stations in Herman Lake and PSQG-LEL and SEL at five (5) stations in Otto Lake and one (1) in Herman Lake (WSP, 2022).

Nitrogen is used by organisms in critical biological and chemical processes. Several metrics exist to measure the various forms of nitrogen. Total nitrogen (TN) is the sum of total organic nitrogen (TON), nitrate-nitrogen (NO₃-N), nitrite-nitrogen (NO₂-N), and ammonia-nitrogen (NH₃-N). TON is the sum of soluble and particulate organically bonded nitrogen. Total Kjeldahl Nitrogen (TKN) is the sum of TON and ammonia (NH₃). Ammonium (NH₄⁺) is a positively charged form of ammonia and can be toxic to organisms at certain concentrations. Nitrate (NO₃⁻) and nitrite (NO₂⁻) are two forms of inorganic nitrogen used by marine plants and microbes. The availability of inorganic nitrogen may indirectly influence benthic community composition (Camargo *et al.*, 2006). In Otto Lake, TN ranged from 0.162% (OL-F) to 2.57% (OL-100) and in Herman Lake from 0.042% (HL-250-11) to 1.23% (HL-B-IN). TKN ranged from 1,830 µg/g (OL-F) to 29,500 µg/g (OL-100) in Otto Lake, and from 520 µg/g (HL-250-11) to 15,700 µg/g (HL-REF) in Herman Lake. TKN exceeded both the PSQG-LEL (550 µg/g) and PSQG-SEL (4,800 µg/g) at three (3) stations within Otto Lake (18,600 µg/g [OL-250], 22,800 µg/g [OL-B], and 29,500 µg/g [OL-100]) and seven (7) stations within Herman Lake. Otto Lake exceeded PQGL-LELs at one (1) station (1,830 µg/g [OL-F]) and two (2) stations in Herman Lake [2,320 µg/g (HL-100-11) and 2,340 µg/g [HL-100-07]; Table A3.2, Appendix 1).

3.1.4 Acid Volatile Sulphide & Extractable Metals

Acid volatile sulphide (AVS) and simultaneously extracted metals (SEM) were measured in sediments to evaluate the potential bioavailability and toxicity of divalent metals to benthic organisms. AVS represents sulphide present in anoxic sediments that can bind divalent metals (e.g., Cd, Cu, Ni, Pb, and Zn) to form insoluble metal sulphides. This process reduces the concentration of dissolved metals in sediment porewater and limits uptake by benthic organisms. AVS is produced primarily through microbial reduction of sulphate (SO₄²⁻) to sulphide (S²⁻) under anoxic conditions, although it should be noted that sulphur may also originate from natural weathering processes. Elevated AVS concentrations are often associated with reducing (hypoxic or anoxic) sediment conditions. (Chapman *et al.*, 1998 and Dunnett *et al.*, 1985).

The relationship between SEM and AVS is commonly used to assess potential metal bioavailability. When SEM/AVS < 1 (or equivalently SEM - AVS ≤ 0), sufficient sulphide is present to bind the extracted metals, indicating that metals are likely sequestered as insoluble sulphides and, therefore, unlikely to be bioavailable or toxic to organisms. Conversely, when SEM/AVS > 1, the concentration of extractable metals exceeds the sulphide-binding capacity of sediment, suggesting that some metals

may remain dissolved in porewater and may be potentially bioavailable. This conceptual model is most applicable to anoxic sediments, where sulphide controls metal speciation; in more toxic sediments, metal bioavailability may instead be influenced by factors such as organic carbon, iron and manganese oxides, and sediment redox conditions.

AVS was measured at four (4) sediment stations in Otto and Herman Lakes (OL-100, OL-F, HL-REF, and HL-500-11; Table A3.4, Appendix 1). AVS concentrations were generally low, with values <5 µg/g at OL-F and HL-500-11, <14.6 µg/g at OL-100, and 32.1 µg/g at HL-REF. SEM/AVS ratios could only be calculated at station HL-REF, as AVS concentrations at other stations were below analytical detection limits. At HL-REF, calculated SEM/AVS ratio exceeded 1 for zinc, suggesting zinc may be partially bioavailable at this location; however, interpretation is limited where AVS concentrations fall below detection limit, as the SEM/AVS relationship becomes uncertain. Higher detection limits reported at station OL-100 were attributed to elevated sediment moisture content, which reduces analytical sensitivity.

Extractable mercury was below detection limits at all stations. Extractable cadmium ranged from <0.50 µg/g (OL-F) to 1.32 µg/g (OL-100). Extractable copper ranged from 1.9 µg/g (OL-F) to 25.8 µg/g (HL-REF), while extractable lead ranged from <4.0 µg/g (OL-F) to 26.5 µg/g (OL-100). Extractable nickel ranged from <2.9 µg/g (OL-F) to 3.9 µg/g (HL-REF), and extractable zinc ranged from 6.8 µg/g (OL-F) to 72.8 µg/g (OL-100) (Table A3.4, Appendix 1). No SEM/AVS were sampled in historical studies in 2022.

Overall, generally low AVS concentrations and limited SEM/AVS ratios suggest sulphide binding capacity in the sediments is relatively low across most stations; however, the absence of detectable mercury and relatively modest concentrations of other extractable metals indicate limited evidence of widespread metal bioavailability or toxicity risk to benthic organisms within sampled sediments. Ongoing monitoring will better assist in understanding any potential effects to benthic organisms.

3.1.5 Total Metals and Phosphorous

Total metals results are provided in Table A3.2 (Appendix 1) and Table 3.2 (below). Sediment metal concentrations exceeded applicable sediment quality guidelines (SQGs) for arsenic, cadmium, copper, manganese, nickel, and phosphorus in at least one (1) station during both sampling times (2022 and 2025). Mean arsenic, cadmium, and mercury were all below Probable Effect Levels (PELs) during both sampling times, above which adverse effects would be anticipated to occur. Chromium exceeded sediment quality guidelines at four (4) stations in 2022 with no exceedances noted in 2025 (WSP, 2022).

Arsenic ranged from 0.72 µg/g (OL-F) to 1.88 µg/g (OL-100) in Otto and from 1.085 µg/g (HL-B-IN) to 12.7 µg/g (HL-REF) in Herman Lake. Arsenic exceeded the PSQG-LEL (6 µg/g) and ISQG (5.9 µg/g) at two (2) stations within Herman Lake (12.7 µg/g [HL-REF] and 9.73 µg/g [HL-250-09]), although remained below the PEL (17 µg/g) in 2025 (Table A3.2, Appendix 1). In 2022, arsenic exceeded the PSQG at one (1) station (7.43 µg/g [HL-B-5]; WSP, 2022). The mean value of arsenic in sediment for Otto and Herman Lake in 2025 and 2022 did not exceed sediment quality guidelines (Table 3.2 [below]).

Copper ranged from 6.6 µg/g (OL-F) to 65.9 µg/g (OL-100) in Otto and 3.3 µg/g (HL-250-11) to 72 µg/g (HL-500-07) in Herman Lake. Copper exceeded CCME ISQGs (35.7 µg/g) and PSQG-LEL (16 µg/g) at three (3) stations within Otto Lake and five (5) stations within Herman Lake, although remained below the PEL (197 µg/g) and SEL (110 µg/g) in 2025 (Table 3.2, Appendix 1). In 2022, copper exceeded PSQG-LELs at all stations in Otto Lake and three (3) stations in Herman Lake, remaining below the PEL and SEL (WSP, 2022). The mean value of copper in sediment exceeded the ISQG and PSQG-LEL at both Lakes in 2025 and PSQG-LEL in 2022 (Table 3.2).

Manganese ranged from 50.2 µg/g (OL-F) to 178 µg/g (OL-B) in Otto and from 110 µg/g (HL-250-11) to 2,070 µg/g (HL-500-07). Manganese exceeded the PSQG-LEL (460 µg/g) at two (2) stations (491 µg/g [HL-250-07] and 648 µg/g [HL-500-11]), and PSQG-SELs (1,100 µg/g) at two (2) stations in Herman Lake (1,240 µg/g [HL-REF] and 2,070 µg/g [HL-500-07]) in 2025. (Table A3.2, Appendix 1). No exceedances were noted in Otto Lake. In 2022, Manganese exceeded the PSQG-LEL at one (1) station in Herman Lake (515 µg/g [HL-B-5], WSP, 2022). Manganese mean values exceeded PSQG-LEL in Herman Lake (581 µg/g) in 2025. All other means were below guidelines in 2022 and 2025 (Table 3.2).

Mercury was measured at four (4) stations (OL-100, OL-F, HL-REF, and HL-500-11) in 2025. Mercury was measured to be 0.021 µg/g (OL-F) and 0.156 µg/g (OL-100) in Otto Lake, as well as 0.085 µg/g (HL-500-11) and 0.162 µg/g (HL-REF) in Herman Lake. No exceedances were noted at any stations in 2022 or 2025 (Table 3.2). Mercury in the form of Methylmercury was measured at the same four (4) stations (OL-100, OL-F, HL-REF, and HL-500-11) at 0.05 µg/g (OL-F), 1.17 µg/g (HL-REF), and 0.64 µg/g (HL-500-11.) Methylmercury was below the detection limits (<1.00 µg/g) at station OL-100.

Nickel ranged from 3.6 µg/g (OL-F) to 14.1 µg/g (OL-B) in Otto and from 5.1 µg/g (HL-250-11) to 18.0 µg/g (HL-REF) in Herman Lake. Nickel exceeded the PSQG-LEL (16 µg/g) at two (2) stations in Herman Lake (18 µg/g [HL-REF], and 17.4 µg/g [HL-250-09]), remaining below the SEL (75 µg/g) in 2025 (Table A3.2, Appendix 1). No exceedances were noted in Otto Lake. In 2022, nickel exceeded the PSQG-LEL at three (3) stations in Otto Lake and one (1) station in Herman Lake, remaining below the SEL (WSP, 2022). The mean value of nickel in sediment exceeded the PSQG-LEL in Otto Lake (20.1 µg/g) in 2022, while all other means were below guidelines in 2022 and 2025 (Table 3.2).

Phosphorous ranged from 389 µg/g (OL-F) to 884 µg/g (OL-100) in Otto and 352 µg/g (HL-B-IN) to 1,770 µg/g (HL-500-07) in Herman Lake. Phosphorous exceeded the PSQG-LEL (600 µg/g) at two (2) stations in Otto Lake (734 µg/g [OL-B] and 884 µg/g [OL-100]) and seven (7) stations in Herman Lake in 2025. All values remained below the SEL (2,000 µg/g; Table A3.2, Appendix 1). In 2022, phosphorous exceeded the PSQG-LEL at one (1) station (702 µg/g [HL-B-5]; WSP, 2022). The mean value of phosphorous in sediment exceeded PSQG-LELs in both Lakes in 2025, although not in 2022 (Table 3.2).

Table 3.2 Sediment Guideline Compliance (µg/g); Otto and Herman Lakes (2022 & 2025)

Otto Lake												
Parameters	ISQG	PEL	LEL	SEL	2025				2022			
					Min	Max	Mean	Exceed (%)	Min	Max	Mean	Exceed (%)
Arsenic	5.9	17	5.9	33	0.7	1.8	1.3	0	2.3	3.3	2.6	0
Cadmium	0.6	3.5	0.6	10	0.115	0.529	0.406	0	0.202	0.286	0.223	0
Copper	35.7	197	16	110	6.6	65.9	42.8	ISQG – 20 LEL –	24.4	30.6	26.4	LEL – 65
Manganese	N/A	N/A	460	110	50	178	123	0	296	336	323	0
Mercury	0.17	0.486	0.2	2	0.021	0.156	0.089	0	0.039	0.058	0.046	0
Nickel	N/A	N/A	16	75	3.6	14.1	10	0	9.92	41.4	20.1	26
Phosphorous	N/A	N/A	600	200	389	884	647	LEL – 8	275	390	317	0
Herman Lake												
Parameters	ISQG	PEL	LEL	SEL	2025				2022			
					Min	Max	Mean	Exceed (%)	Min	Max	Mean	Exceed (%)
Arsenic	5.9	17	5.9	33	1.09	12.7	3.9	0	0.73	7.43	2.34	0
Cadmium	0.6	3.5	0.6	10	0.039	0.978	0.457	0	0.083	0.795	0.253	0
Copper	35.7	197	16	110	3	72	39	ISQG – 8 LEL – 140	12.8	27.5	19	LEL – 19
Manganese	N/A	N/A	460	110	110	2070	581	LEL-26	115	515	223	0
Mercury	0.17	0.486	0.2	2	0.085	0.162	0.124	0	0.017	0.136	0.045	0
Nickel	N/A	N/A	16	75	5	18	12	0	7.2	18.8	11.6	0
Phosphorous	N/A	N/A	600	200	351	1770	787	LEL – 31	453	702	533	0

3.2 ALGAE QUALITY

Algae, including groups such as green algae and diatoms, are photosynthetic organisms that form the base of aquatic food webs and widely used as indicators of water quality. Given their rapid growth rates and sensitivity to changes in environmental conditions, algal communities respond quickly to variations in nutrient availability, light, and other physicochemical factors, making them effective indicators of nutrient enrichment and overall ecosystem status.

Algal abundance was assessed using taxonomic density, while chlorophyll-a concentration was measured as an indicator of algal biomass and nutrient status during spring and fall 2025 sampling periods. The complete raw algae dataset for the 2025 sampling season is provided in Appendix 4.

Algae, nutrients, and taxon composition were not compared to historical data as none was available. Lack of historical data limited direct temporal comparisons; however, spatial, and seasonal patterns observed in 2025 provide baseline data from which algal responses to environmental conditions and potential anthropogenic influences from effluent discharge can be assessed and compared to in future monitoring.

3.2.1 *In Situ* Water Quality Parameters

In situ water quality parameters, including temperature, pH, dissolved oxygen, and conductivity were measured. These parameters directly or indirectly influence aquatic productivity and aquatic organisms in the study area and consequently affect the algal populations. A comparison of *in situ* characteristics across sampling locations are provided below (Table 3.3).

Table 3.3: *In Situ* Water Quality at Algae Stations

June 2025							
Lake	Stn	Depth of Stn (m)	Chl-a (µg/L)	Temp (°C)	DO (mg/L)	Conductivity (µS/cm)	pH
Otto	OL-B	2	17.7	18.9	9.91	150.2	9.91
	OL-F	0.5	13.7	20.1	9.65	149.4	9.77
	OL-100	2	18.8	18.6	9.17	155.9	10.08
	OL-250	1.5	172	19.6	9.16	149.9	9.55
Herman	HL-B-IN	2.2	14.2	18	10.12	139.5	10.04
	HL-B	0.5	13.4	17.05	10.32	136.5	10.2
	HL-REF	1.5	14.2	20.1	9.71	145.1	10.81

Table 3.3: *In Situ* Water Quality at Algae Stations Continued

September 2025							
Lake	Stn	Depth of Stn (m)	Chl-a (µg/L)	Temp (°C)	DO (mg/L)	Conductivity (µS/cm)	pH
Otto	OL-100	2	1.53	18.68	9.45	414	7.91
	OL-250	0.5	2.04	18.57	9.39	413	7.93
Herman	HL-B	1.5	1.13	17.02	9.21	179	8.16
	HL-REF	1.5	2.46	17.26	9.5	182	8.36
	HL-100-09	8	2.71	15.54	5.3	147	8.27

Temperature

Water temperature is a key physical parameter influencing both chemical and biological characteristics of aquatic systems. Temperature affects dissolved oxygen solubility, photosynthesis rates of aquatic plants and algae, metabolic activity of fish and invertebrates, and the sensitivity of organisms to pollutants, parasites, and pathogens (Larson & Larson, 1997). Consequently, temperature patterns directly influence ecosystem productivity, species composition, and overall water quality.

In 2025, water temperatures measured at algae sampling locations were generally consistent among sites for each sampling period, except at the deeper station HL-100-09 (8 m), which exhibited cooler temperatures due to depth-related thermal stratification. Temperatures in Otto Lake were slightly higher than Herman Lake in both spring (June) and fall (September) sampling periods. June temperatures ranged from 17.05 °C (HL-B) to 20.10 °C (OL-F and HL-REF) and September temperatures ranged from 15.54 °C (HL-100-09) to 18.68 °C (OL-100; Table 3.3). Cooler temperatures at deeper stations reflected thermal layering, whereas warmer temperatures at shallow sites were likely from enhanced solar heating and greater exposure to ambient conditions.

Temperature patterns also have direct implications for algal growth and dissolved oxygen dynamics. Warmer water promotes higher metabolic and photosynthetic rates in algae, which can increase chlorophyll-a concentrations at shallow stations. Conversely, cooler, deeper sites experience slower algal growth due to reduced light and temperature. Temperature-driven effects on microbial decomposition and chemical reaction rates can further influence nutrient cycling, altering nutrient availability for algae. Collectively, these temperature dynamics support interpretation of seasonal variation in algal abundance, community composition, and potential ecological responses in Otto and Herman Lakes during 2025.

pH

pH is a measure of the hydrogen ion concentration in water, expressed on a 14-unit scale, where 7 represents neutral conditions, lower values indicate acidity, and higher values indicate alkalinity. Deviations from neutral pH can influence a wide range of chemical and biological processes, including nutrient availability, metal solubility, enzyme activity, and organismal health. Extreme pH values can disrupt these processes and may negatively affect aquatic communities.

In 2025, pH measured at algae sampling locations in Otto and Herman Lakes was generally higher in June than in September, with values within each lake being broadly comparable. In June, pH ranged from 9.55 (OL-250) to 10.81 (HL-REF), while in September it ranged from 7.91 (OL-100) to 8.36 (HL-REF) (Table 3.3). These results indicate a seasonal decline in pH from spring to fall.

The observed pH values in June exceeded both the Ontario Provincial Water Quality Objectives (PWQOs) and the Canadian Council of Ministers of the Environment (CCME) guidelines for aquatic life, which recommend a pH range of 6.5–9.0. Elevated pH can alter nutrient availability, metal speciation, and algal growth dynamics, potentially influencing algal productivity and community composition in the receiving environment. The seasonal decrease in pH by September suggests that temperature, photosynthetic activity, and other seasonal biogeochemical processes likely moderate alkalinity over the summer.

Dissolved Oxygen (DO)

Dissolved oxygen (DO) is an important water quality parameter that supports aerobic respiration in aquatic organisms, including fish, invertebrates, and microorganisms. Low DO concentrations can cause physiological stress, reduce growth, impair reproduction, and, in extreme cases, result in mortality. Continuous DO levels below 5 mg/L can induce stress in sensitive species, while prolonged DO below 3 mg/L can lead to fish kills (USEPA, 2026). For temperate waters in Ontario, with temperatures between 15°C –20°C, Provincial Water Quality Objectives (PWQOs) recommend DO concentrations between 5–6 mg/L to maintain healthy aquatic ecosystems.

In 2025, DO concentrations in Otto and Herman Lakes were generally higher in June than September, with measured values taken at approximately 1 m depth. In June, DO ranged from 9.16 mg/L (OL-250) to 10.32 mg/L (HL-B), whereas in September, concentrations ranged from 5.30 mg/L (HL-100-09) to 9.50 mg/L (HL-REF; Table 3.3). The slight decline in DO from spring to fall may reflect seasonal increases in water temperature, reduced solubility of oxygen, and increased microbial and algal respiration during the summer months. Measured DO values remained above PWQO thresholds, indicating that oxygen levels were sufficient to support aquatic life and unlikely to induce stress or adverse ecological effects in the receiving environment. Results are also consistent with the presence of active algal and benthic communities in both lakes during the 2025 sampling periods.

Conductivity

Conductivity is a measure of water's ability to conduct an electrical current, which is directly related to the concentration of dissolved ions such as salts, nutrients, and other inorganic solutes. Conductivity provides an indirect indicator of water chemistry and can influence distribution, health, and behavior of aquatic organisms, including fish, invertebrates, and aquatic plants. Elevated conductivity can indicate increased inputs of ions from natural processes (e.g., weathering of soils and minerals) or anthropogenic sources such as effluent discharge.

In 2025, conductivity in Otto and Herman Lakes exhibited both spatial and seasonal variation. In June, conductivity ranged from 136.5 $\mu\text{S}/\text{cm}$ (HL-B) to 155.9 $\mu\text{S}/\text{cm}$ (OL-100) and in September ranged from 147 $\mu\text{S}/\text{cm}$ (HL-100-09) to 414 $\mu\text{S}/\text{cm}$ (OL-100) (Table 3.3). Higher September values in Otto Lake were likely influenced by effluent discharge from the Magino Mine, combined with seasonal factors such as lower water levels, reduced dilution, and increased concentration due to evaporation. Herman Lake exhibited more moderate and stable conductivity, reflecting its geographical position down lake and influence of additional freshwater inflows that help buffer ionic concentrations.

Overall, observed conductivity values remained within ranges typical for freshwater lakes in the region; however, elevated measurements at select stations in September highlighted potential localized effects of discharged final mine effluent and seasonal hydrology on water chemistry. Monitoring conductivity with other water quality parameters (e.g., pH, dissolved oxygen, nutrients) provides an ongoing assessment of ecosystem health and potential stressors to aquatic biota.

3.2.2 Community Indicators

Chlorophyll-a is a widely used proxy for algal biomass and an indicator of primary productivity and nutrient availability in aquatic systems. Elevated chlorophyll-a concentrations can reflect enhanced nutrient input or eutrophication, while lower concentrations generally indicate limited algal growth and potential nutrient scarcity. Seasonal variations in chlorophyll-a can also result from changes in light availability, water temperature, mixing, and hydrodynamic processes.

In June 2025, chlorophyll-a concentrations in Otto and Herman Lakes ranged from 13.4 $\mu\text{g}/\text{L}$ (HL-B) to 17.7 $\mu\text{g}/\text{L}$ (OL-B), with a single outlier of 172 $\mu\text{g}/\text{L}$ at OL-250, potentially indicating localized algal enrichment (Table 3.3). By September, chlorophyll-a levels had decreased substantially, ranging from 1.13 $\mu\text{g}/\text{L}$ (HL-B) to 2.71 $\mu\text{g}/\text{L}$ (HL-100-09). The observed seasonal decline may be attributable to reduced light availability, cooler temperatures, increased water column mixing, and onset of effluent discharge after the June sampling, which could have increased flow and diluted algal concentrations.

3.2.3 Algal Abundance & Biovolume

Algal abundance and biovolume provide quantitative measures of community density and biomass and provide insight into ecosystem productivity and potential nutrient enrichment. Abundance, expressed as the number of organisms per milliliter ($\#/\text{mL}$), reflects the number of individual algal cells, whereas biovolume, expressed in $\mu\text{m}^3/\text{mL}$, incorporates both abundance and cell size, providing a measure of total algal biomass in the water column.

In 2025, mean algal abundance in Otto and Herman Lakes during June ranged from 29 $\#/\text{mL}$ (OL-B and HL-B) to 60 $\#/\text{mL}$ (OL-100) and in September ranged from 12 $\#/\text{mL}$ (OL-100) to 74 $\#/\text{mL}$ (HL-REF; Table 3.4). Mean biovolume in June ranged from 11,317 $\mu\text{m}^3/\text{mL}$ (OL-250) to 49,148 $\mu\text{m}^3/\text{mL}$ (HL-B-IN), and in September from 2,747 $\mu\text{m}^3/\text{mL}$ (OL-100) to 38,862 $\mu\text{m}^3/\text{mL}$ (HL-REF). Seasonal patterns suggest peak algal biomass occurred in early summer, likely driven by warmer temperatures and increased light availability, while lower abundance and biovolume in September may reflect nutrient limitation, dilution from increased water flow, and seasonal succession of algal communities. No historical algae abundance or biovolume data were available for these lakes. The observed spatial and temporal variations highlight areas of potential localized enrichment (e.g., OL-100 and HL-REF) and will be used to inform future ecological assessments and management of nutrient inputs.

Table 3.4 Abundance & Biovolume of Algae; Herman and Otto Lake (2025)

Season	Lake	Station	Density (#organism/mL)	Biovolume ($\mu\text{m}^3/\text{mL}$)
June	Otto	OL-B	29 +/- 59	12,269 +/- 21,942
		OL-F	59 +/- 76	12,238 +/- 18,027
		OL-100	60 +/- 82	29,122 +/- 48,347
		OL-250	43 +/- 68	11,317 +/- 16,550
	Herman	HL-B	29 +/- 36	41,025 +/- 116,608
		HL-B-IN	40 +/- 50	49,148 +/- 149,749
		HL-REF	36 +/- 55	28,260 +/- 51,020
Sept	Otto	OL-100	12 +/- 24	2,747 +/- 4,305
		OL-250	29 +/- 45	4,247 +/- 7,193
	Herman	HL-B	41 +/- 70	12,809 +/- 17,609
		HL-REF	74 +/- 91	38,862 +/- 73,980
		HL-100-09	39 +/- 49	9,551 +/- 16,674

Note: Values presented as arithmetic mean $\pm$ standard deviation

Periphyton data was summarized using community indicator endpoints, including taxonomic richness (number of taxa; S), dominance (D) and diversity (H' ; Table 3.5).

Table 3.5: Periphyton Community Endpoints at Otto and Herman Lakes (2025)

Spring (June)			
Station	Taxa Richness (S)	Simpson's Diversity (D)	Shannon-Weiner Diversity (H')
OL-B	27	0.82	2.39
OL-F	20	0.87	2.45
OL-100	22	0.87	2.45
OL-250	25	0.86	2.53
HL-REF	18	0.83	2.21
HL-B	24	0.89	2.64
HL-B-IN	19	0.87	2.38
Fall (September)			
Station	Taxa Richness (S)	Simpson's Diversity (D)	Shannon-Weiner Diversity (H')
OL-100	31	0.85	2.53
OL-250	18	0.81	2.22
HL-REF	14	0.83	2.08
HL-B	20	0.81	2.2
HL-100-09	17	0.86	2.23

Note: Values presented as arithmetic means

Taxonomic Richness & Diversity

Taxonomic richness (S) represents the total number of distinct taxa identified in a sample and provides a measure of community composition and ecological complexity. Moderate nutrient availability can support higher taxonomic richness, while excessive nutrients, toxicants, or habitat degradation can reduce richness by favoring a few tolerant species (Culp et al., 2000; EC, 2005). In 2025, taxonomic richness in Otto and Herman Lakes ranged from 18 taxa (HL-REF) to 27 taxa (OL-B) in June and from 17 taxa (HL-100-09) to 31 taxa (OL-100) in September (Table 3.5). Taxonomic richness was generally higher in Otto Lake compared to Herman Lake, reflecting potential differences in habitat heterogeneity, nutrient availability, or light conditions, while seasonal differences were minimal.

Simpson's Diversity Index

Simpson's Diversity Index (D) quantifies the probability that two randomly selected individuals from a sample belong to the same taxon. Index values range from 0 to 1, with values closer to 0 indicating lower dominance (and more even species distribution) and values nearer 1 reflecting dominance by a few taxa. In June, Simpson's D ranged from 0.82 (OL-B) to 0.89 (HL-B), and in September, 0.81 (OL-250 and HL-B) to 0.86 (HL-100-09) (Table 3.5). Results suggest that algal assemblages were generally dominated by a limited number of taxa, consistent across stations and seasons.

Shannon-Wiener Diversity Index

The Shannon-Wiener Diversity Index (H') is a widely used metric in ecology to quantify community diversity by accounting for both taxon richness (number of taxa) and relative abundance of each taxon. Unlike simple richness metrics, H' reflects not only how many taxa are present but also how evenly individuals are distributed among those taxa. Communities dominated by a few taxa have lower H' values, whereas communities with more equitable distributions among taxa have higher H' values.

Mathematically, H' is calculated as:

$$H' = - \sum (i=1 \text{ to } n) \text{ of } (p_i * \ln(p_i))$$

Where:

H' – Entropy (or Shannon diversity index). Measures uncertainty or diversity in a set of outcomes.

n – Total number of possible outcomes (or species, if using ecology context).

i – Index for each outcome, ranging from 1 to n .

p_i – Probability of the i -th outcome occurring. All probabilities sum to 1.

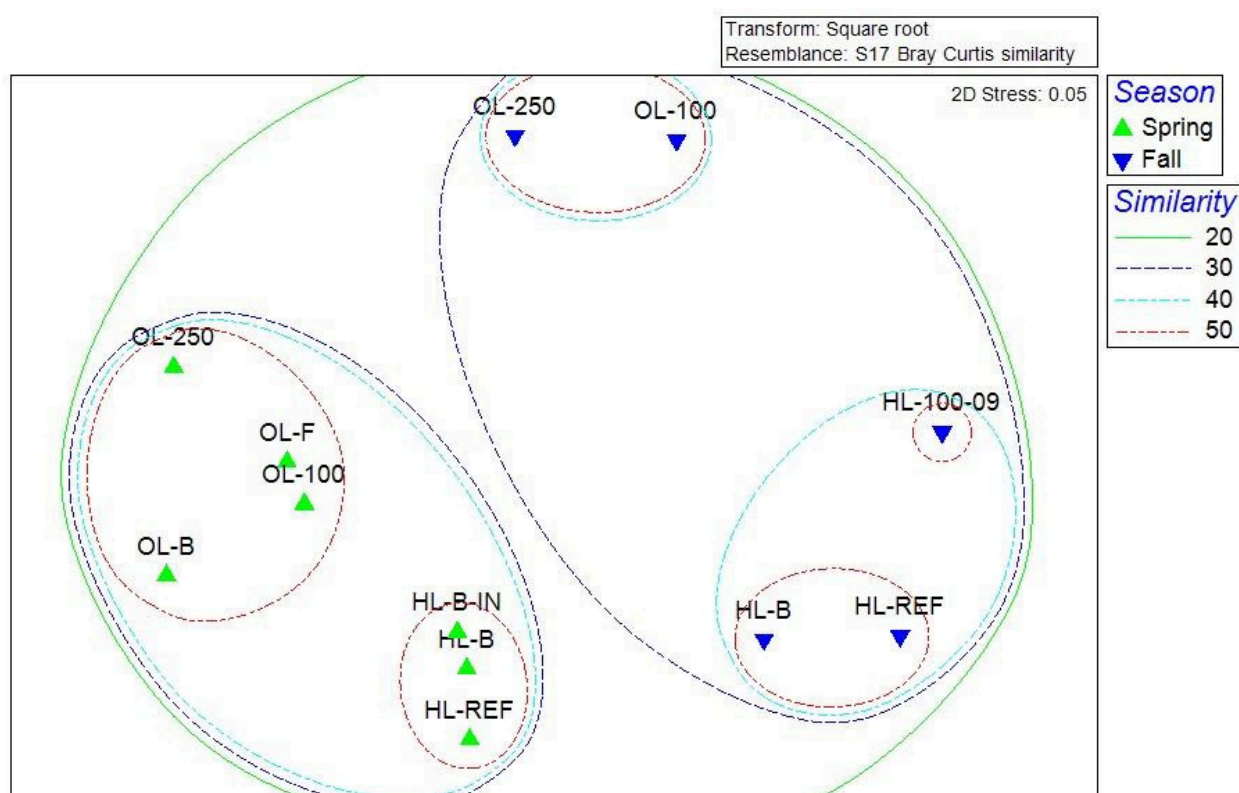
$\ln(p_i)$ – Natural logarithm of p_i (use log base 2 if you want entropy in bits).

$-\sum(\dots)$ – negative sum ensures entropy is non-negative.

Shannon-Wiener Diversity Index (H') incorporates both taxon richness and relative abundance, providing a weighted measure of community diversity. H' value in June ranged from 2.21 (HL-REF) to 2.64 (HL-B), and in September from 2.08 (HL-REF) to 2.53 (OL-100) (Table 3.5). Values were relatively consistent across stations and seasons, indicating stable community structure and diversity patterns throughout the 2025 sampling period.

Collectively, these metrics (taxonomic richness, Simpson's D , and Shannon-Wiener H') provided a weight of evidence to better understand algal community composition, dominance, and evenness, assisting in the interpretation of ecological responses to physical-chemical conditions, nutrient availability, and potential anthropogenic influences in Otto and Herman Lakes.

**Chart 3.3: MDS Plot of Algae Composition
(Otto & Herman Lake, Spring & Fall 2025)**



3.2.4 Major Taxonomic Groups

In June (2025), most abundant taxonomic groups across all stations included *Cyclotella kutzingtoniana* (22.6% [OL-100] to 39.2% [OL-B]) and *Synedra radians* (6.4% [OL-250] to 17.2% [OL-100]). *Cryptomonas erosa* (6.6% [OL-F] to 14.9% [HL-B]) was found at all stations, except OL-B and OL-100. *Cyclotella comta* (4.8% [OL-B] to 7.9% [HL-B]) was also found at most stations, except OL-F, OL-100, and OL-250. *Cyclotella stelligera* (7.2% [OL-B] to 19.2% [OL-250]) was present at all stations in Otto Lake and *Rhodomonas minuta* (5.9% [HL-B] to 11.5% [HL-REF]) at all stations in Herman Lake (Table 3.6). Other taxonomic groups were each found in moderate or low abundance.

In September (2025), the most abundant taxonomic groups, across all stations, included *Cryptomonas erosa* (ranging from 10.0% [OL-100] to 19.3% [HL-REF]), *Cyclotella ocellata* (6.8% [OL-100] to 37.3% [HL-B]), and *Rhodomonas minuta* (4.2% [HL-B] to 25.0 [HL-100-09]). *Kephyrion littorale* was found in high abundance at Otto Lake stations (35.3% [OL-100], 38.5% [OL-250]) and absent in all Herman Lake stations. Both *Aphanothece* sp. and *Chroococcus minimus* were found in moderate abundance in Herman Lake (10.2% [HL-B and HL-100-09] to 13.6% [HL-REF] and 7.6% [HL-B] to 10.2% [HL-REF]) respectively. These groups were absent in all Otto Lake stations (Table 3.6). Remaining taxonomic groups were found in moderate to low abundances.

Table 3.6: Major Algae Taxonomic Groups (June & September 2025)

June							
Species /Station	OL-B	OL-F	OL-100	OL-250	HL-REF	HL-B	HL-B-IN
<i>Achnanthes minutissima</i>	N/A	N/A	N/A	4	N/A	N/A	N/A
<i>Cryptomonas erosa</i>	N/A	6.6	8.6	N/A	12.5	14.9	10.6
<i>Cyclotella comta</i>	4.8	N/A	N/A	N/A	7.3	7.9	7.3
<i>Cyclotella kutzingiana</i>	39.2	26.3	22.6	28.8	35.4	22.8	26.8
<i>Cyclotella stelligera</i>	7.2	13.2	16.1	19.2	N/A	N/A	N/A
<i>Diatoma tenue elongatum</i>	5.6	N/A	N/A	4.8	N/A	N/A	N/A
<i>Dinobryon sertularia</i>	N/A	7.9	N/A	N/A	N/A	N/A	N/A
<i>Fragilaria crotonensis</i>	N/A	N/A	N/A	N/A	N/A	N/A	6.5
<i>Glenodinium</i> sp.	N/A	N/A	6.5	N/A	N/A	N/A	N/A
<i>Kephyrion littorale</i>	N/A	N/A	N/A	4	N/A	N/A	N/A
<i>Kephyrion obliquum</i>	N/A	N/A	N/A	4	N/A	N/A	N/A
<i>Ochromonas</i> sp.	N/A	N/A	N/A	4	N/A	N/A	N/A
<i>Rhodomonas minuta</i>	N/A	N/A	N/A	N/A	11.5	5.9	6.5
<i>Synedra radians</i>	12	15.8	17.2	6.4	8.3	10.9	17.1
Total (Top 5 species)	68.8	69.7	71	75.2	75	62.4	74.8

**Table 3.6: Major Algae Taxonomic Groups (June & September 2025)
Continued**

September					
Species/Station	OL-250	OL-100	HL-REF	HL-B	HL-100-09
<i>Aphanothece</i> sp.	N/A	N/A	13.6	10.2	10.2
<i>Chroococcus minimus</i>	N/A	N/A	10.2	7.6	9.3
<i>Cryptomonas erosa</i>	10.3	10	19.3	16.1	13.9
<i>Cyclotella ocellata</i>	9	6.8	30.7	37.3	19.4
<i>Kephyrion littorale</i>	38.5	35.3	N/A	N/A	N/A
<i>Kephyrion</i> sp.	6.4	N/A	N/A	N/A	N/A
<i>Synedra radians</i>	N/A	5.5	N/A	N/A	N/A
<i>Rhodomonas minuta</i>	9	11.1	8	4.2	25
Total (Top 5 species)	73.2	68.7	81.8	75.4	77.8

In June, diatoms dominated both Herman and Otto Lakes (64.4% [HL-B] to 87.2% [OL-B]), as well as a smaller proportion by chrysophyte algae (11.2% [OL-B] to 28.9% [OL-F]). A small proportion of blue-green algae was present at all stations in Otto Lake (0.8% [OL-B] to 2.4% [OL-250]) except Station OL-100. A single instance (1%) of blue-green algae was recorded at Herman Lake [HL-B]. Green algae were present in all stations (0.8% [OL-B and OL-250] to 12.2% [HL-B-IN]). Dinoflagellates were present in all Herman Lake stations (1% [HL-REF and HL-B], 1.6% [HL-B-IN]) and a single station (6.5% [OL-100]) in Otto Lake. No euglenoids were noted in June (Chart 3.4).

In September 2025, Otto Lake was dominated by chrysophyte algae (66.8% [OL-100] and 73.2% [OL-250]) and sub-dominated by diatoms (23.1% [OL-250], 25.3% [OL-100]). Herman Lake was primarily dominated by diatoms (52.3% [HL-REF], 55.1% [HL-B]), with chrysophyte algae being the sub-dominant group (22.9% [HL-B], 27.3% [HL-REF]). Herman lake also included a small number of blue-green algae (10.2% [HL-B and HL-100-09], 13.6% [HL-REF]). Green algae were present across all stations (3.9% [OL-250] to 13.9 [HL-100-09]). A single instance (<1%) of euglenoids was recorded at station OL-100 and a single instance of dinoflagellates was recorded at station HL-100-09 (Chart 3.5). There was no previous data for comparison (2022).

Chart 3.4: Algae Group Composition (Spring 2025)

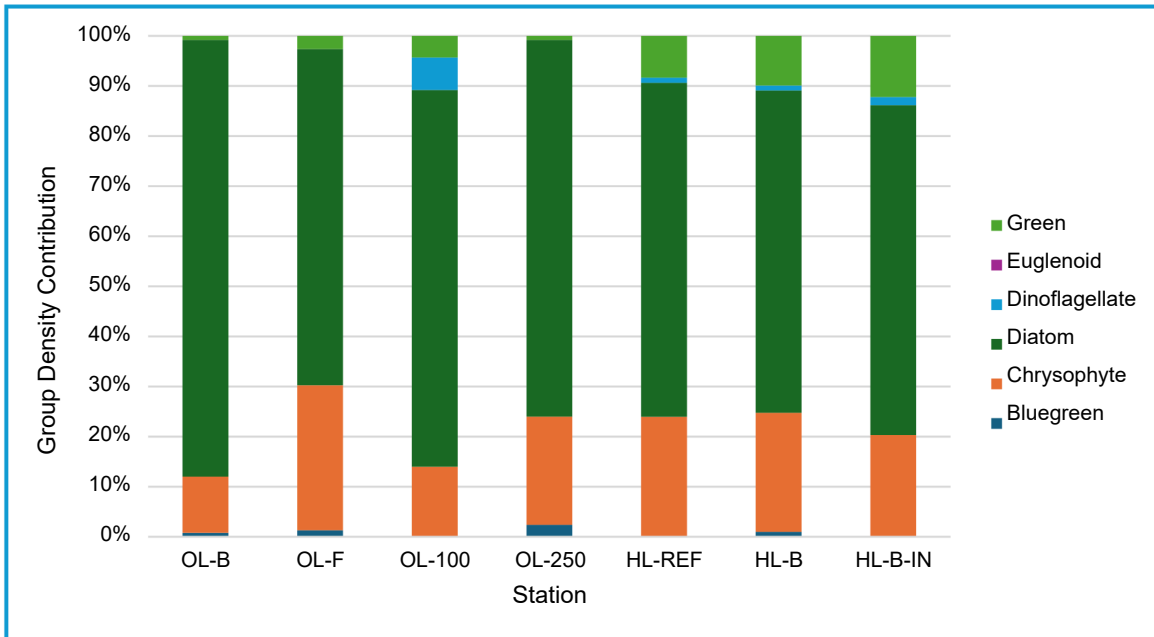
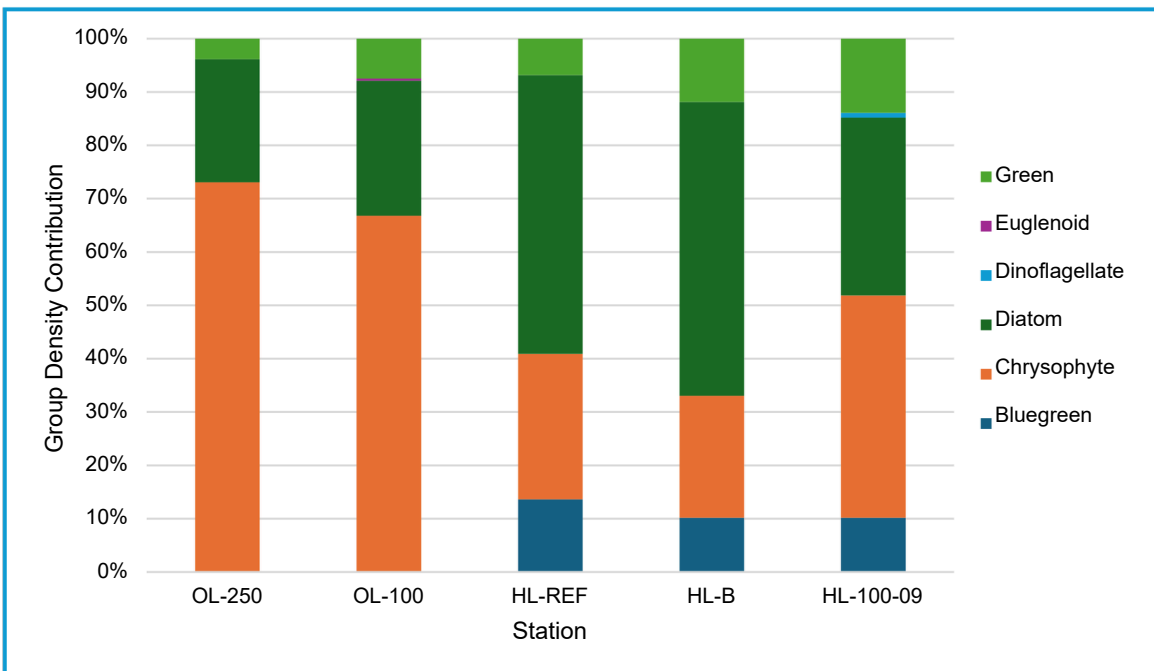


Chart 3.5: Algae Group Composition (Fall 2025)



3.3 FISH POPULATION, HEALTH & STRUCTURE

3.3.1 Catch-Per Unit Effort

Catch-per-unit effort (CPUE) is a commonly used fisheries metric that provides an index of relative fish abundance by relating the number of fish captured to amount of sampling effort (e.g., number of nets deployed or duration of net set. Etc.). By standardizing catch relative to effort, CPUE enables evaluation of spatial patterns in fish distribution and temporal trends in population abundance within a study area. However, CPUE represents relative abundance rather than absolute population size. Results may also be influenced by factors such as fish behaviour, habitat preferences, seasonal movements, and gear selectivity.

In this study, CPUE was calculated for the June, September, and October 2025 sampling periods (Table 3.7). Variability in CPUE among stations in Otto and Herman Lakes likely reflects differences in habitat characteristics, including water depth, substrate composition, aquatic vegetation, food source and rearing habitat, and proximity to inflows or effluent discharge areas. Seasonal differences among sampling periods may also be associated with fish movement patterns, spawning behaviour, and environmental conditions (e.g., water temperature and dissolved oxygen), which can influence fish activity levels and capture probability.

Aside from species occurrence, additional population metrics could not be directly compared temporally (e.g., with the 2022 sampling results), as the earlier dataset was reported using different formats and lacked key methodological details required for standardized comparisons (e.g., number of nets deployed). Furthermore, differences in sampling design and CPUE calculation methods between the two sampling years limited direct comparability of abundance estimates. Consequently, CPUE results for 2025 are taken to be the baseline assessment for fish distribution and relative abundance and will support evaluation of potential changes in population dynamics and habitat use in future monitoring programs.

In addition to CPUE, several population structure and fish health indicators were evaluated to provide a more comprehensive assessment of fish communities in Otto and Herman Lakes. These metrics included length–frequency distributions, survival patterns, condition factor, gonadosomatic index (GSI), hepatosomatic index (HSI), and fecundity. Length–frequency analysis was used to characterize population structure, recruitment, and representation of different age or size classes, while survival patterns inferred from size distributions and age data provided insight into cohort strength and population stability. Physiological indicators such as condition factors, GSI, and HSI were used to evaluate overall fish health, reproductive investment, and energy storage, while fecundity measurements provided information on reproductive potential and energy allocation to egg production.

Collectively, these metrics provide complementary information on fish abundance, population structure, and physiological condition, enabling a more robust assessment of potential environmental influences on fish communities within the receiving environment.

**Table 3.7: 2025 Species Specific Catch Per Unit Effort (Gillnets);
Otto & Herman Lakes**

Month	Waterbody	# Nets	Total Effort (hr.)	LW	NP	WY	WS	YP	Catch Total (n)	CPUE
June	Otto Lake	1	3.75	7	2	0	5	0	14	3.73
June	Herman Lake	2	6.5	0	3	0	9	0	12	1.85
Sept	Otto Lake	3	60.75	65	8	11	21	1	106	1.74
Sept	Herman Lake	6	129.5	14	21	60	38	0	133	1.03
Oct	Smithy Lake	8	125.25	0	23	0	5	0	28	0.22

Note: LW = Lake Whitefish; NP = Northern Pike; WY = Walleye; WS = White Sucker; YP = Yellow Perch.

CPUE results indicated clear temporal (between months of same program) and spatial differences among sampling periods and waterbodies. Gillnet CPUE was highest in Otto Lake in June (3.73), where 14 fish were captured over 3.75 hours of effort (single, multipaneled net), and lowest in Smithy Lake in October (0.22), where 28 fish were captured over 125.25 hours of effort. Overall, spring sampling produced higher catch rates (mean CPUE = 2.79) compared to fall sampling (mean CPUE = 1.00; Table 3.7).

Higher CPUE values observed during spring sampling likely reflect seasonal changes in fish behaviour and physiology. As water temperatures increase following winter, fish typically exhibit elevated metabolic rates and increased feeding activity, with many species moving into shallower nearshore habitats for spawning or pre-spawning aggregation (Maheshwari & Singh, 2025). These behavioural and physiological responses can increase encounter rates with sampling gear and therefore elevate CPUE.

Although total fish catches were greater during the fall periods (September and October), CPUE declined relative to June. This suggested that catch efficiency decreased as sampling effort increased later in the season, likely reflecting seasonal distribution of fish within the lakes, reduced aggregation behaviour following spawning, and potential changes in habitat use. Consequently, higher CPUEs observed in June are taken as a reflection of greater fish availability and catchability during spring, rather than solely differences in population abundance.

**Table 3.8: 2025 Species-Specific Catch per Unit Effort (Minnow Trap)
by Location**

Month	Waterbody	Number of Traps	Total Effort (hr.)	BS	CL	Catch Total (n)	CPUE Total
June	Otto Lake	8	177	0	1	1	0.00565
June	Herman Lake	12	286.5	1	1	2	0.00698
Sept	Otto Lake	9	223.5	0	1	1	0.00447
Sept	Herman Lake	15	341	0	1	1	0.00293
Sept	Smithy Lake	9	185.25	0	0	0	0

Note: Species abbreviations used in this table are as follows: BS = Blacknose Shiner; CL = Common Logperch.

Minnow trapping conducted in June and September at Otto, Herman, and Smithy lakes demonstrated low catch per unit effort (CPUE) across all waterbodies and sampling periods (Table 3.8). In June, Otto Lake (8 traps; 177.0 trap-hours) yielded 1 Common Logperch (*Percina caprodes*), corresponding to a CPUE of 0.00565, while Herman Lake (12 traps; 286.5 trap-hours) produced two fish (1 Blacknose Shiner [*Notropis heterolepis*] and 1 Common Logperch; CPUE = 0.00698). In September, Otto Lake (9 traps; 223.5 trap-hours) and Herman Lake (15 traps; 341.0 trap-hours) each yielded a single (1) Common Logperch, resulting in lower CPUE values of 0.00447 and 0.00293, respectively. Smithy Lake (9 traps; 185.25 trap-hours) produced no captures (CPUE = 0).

Overall, CPUE values derived from minnow trapping were consistently low across lakes and sampling periods, with slightly higher catch rates observed in June relative to September; however, results should be interpreted with caution, as minnow traps are selective for small-bodied and benthic species and are strongly influenced by habitat characteristics, fish behaviour, trap placement and bait type. Low CPUE in minnow traps does not necessarily, unto itself, indicate low overall fish abundance; rather, it may reflect limited occurrence of trap-susceptible species, low encounter rates, or seasonal changes in fish distribution and activity levels. The limited number of individuals captured suggested that small-bodied fish were either relatively uncommon in sampled habitats or exhibited low vulnerability to trapping gear during the sampling periods. Consequently, minnow trap CPUE is best interpreted as an index of relative occurrence of small-bodied species, rather than a comprehensive indicator of fish community abundance.

3.3.2 Fish Abundance

Species Richness & Abundance

In 2025, the large-bodied fish community in Otto Lake included Lake Whitefish (*Coregonus clupeaformis*), Northern Pike (*Esox lucius*), Walleye (*Sander vitreus*), White Sucker (*Catostomus commersonii*), and Yellow Perch (*Perca flavescens*). In Herman Lake, large-bodied species captured included Lake Whitefish, Northern Pike, Walleye, and White Sucker, while Smithy Lake yielded only two large-bodied species: Northern Pike and White Sucker (Table 3.9). Species assemblages observed in 2025 are broadly consistent with those reported in previous monitoring programs in the study area (e.g., WSP, 2023), suggesting that overall composition of large-bodied fish in the community has remained relatively stable over time. Differences in species presence among lakes likely reflect variation in habitat characteristics, including lake size, depth, connectivity, and availability of suitable spawning and foraging habitats, as well as potential differences in sampling effort and gear efficiency.

Small-bodied forage fish assemblages documented in 2025 were also generally consistent with previous monitoring observations (e.g., WSP, 2023), although number of species captured was limited. A total of 2 small-bodied species were recorded across the three (3) surveyed waterbodies: Common Logperch (*Percina caprodes*), captured in Otto and Herman lakes, and Blacknose Shiner (*Notropis heterolepis*), found in Herman Lake only. No forage fish were captured in Smithy Lake during 2025 sampling. Comparisons between 2022 and 2025 datasets noted that Common Logperch (*Percina caprodes*) was the only small-bodied species recorded in both sampling years, having been documented in Otto Lake in 2022 (WSP, 2023) and subsequently in Herman Lake in 2025 (Table 3.9). The limited number of small-bodied species captured in 2025 program may reflect low capture efficiency of minnow traps, localized habitat conditions at trap locations, and patchy spatial distribution typical of small-bodied fishes, rather than a definitive absence of additional forage species. Consequently, results are taken to be an indicator of species occurrence within sampled habitats, rather than a complete inventory of the small-bodied fish community present in the lakes.

The lower number of species recorded in Smithy Lake compared with Otto and Herman lakes may reflect a combination of habitat characteristics, hydrological connectivity, and sampling limitations. Smithy is a small lake and may provide less habitat heterogeneity, including fewer distinct spawning, foraging, and refuge habitats required by some fish species. Reduced connectivity with adjacent waterbodies may also limit fish movement and colonization, resulting in a simpler fish assemblage relative to larger or more connected lakes such as Otto and Herman. In addition, fish distribution within lakes is often patchy and influenced by seasonal habitat use, suggesting sampling gear deployed in specific areas may not have been as successful encountering all species present. Gear selectivity and sampling effort may therefore influence the number of species detected, particularly for low-density or habitat-specialist species. Consequently, smaller species assemblages documented in Smithy Lake during the 2025 monitoring program likely reflects a combination of natural differences in habitat suitability and detectability during sampling, rather than necessarily indicating reduced ecosystem health or long-term changes in the fish community.

Table 3.9: 2025 Fish Species Occurrence (by Waterbody)

Waterbody	Blacknose Shiner	Lake Whitefish	Common Logperch	Northern Pike	Walleye	White Sucker	Yellow Perch
Otto Lake		x	x	x	x	x	x
Herman Lake	x	x	x	x	x	x	
Smithy Lake				x		x	

During the 2025 field programs, a total of 298 fish were captured across Herman Lake (n = 148), Otto Lake (n = 122), and Smithy Lake (n = 28). Walleye was the dominant species in Herman Lake (n = 60), Lake Whitefish in Otto Lake (n = 72), and Northern Pike in Smithy Lake (n = 28). Small-bodied forage fish were encountered infrequently in 2025, with a total of five (5) individuals recorded. These included two (2) Common Logperch and one (1) Blacknose Shiner in Herman Lake, two (2) Common Logperch in Otto Lake, and no forage fish captured in Smithy Lake.

Historical Catch

In 2011, fish population surveys in Herman Lake documented several species, including Northern Pike, White Sucker, Walleye, Lake Whitefish, and Spottail Shiner (*Notropis hudsonius*). No fish were captured using minnow traps, despite the traps being set in areas characterized by high-quality cover habitat (SLR, 2012). At Otto Lake, Lake Whitefish, Northern Pike, and White Sucker were captured during the survey; however, minnow traps again yielded no fish despite placement in suitable cover habitat.

3.3.3 Fish Population Structure

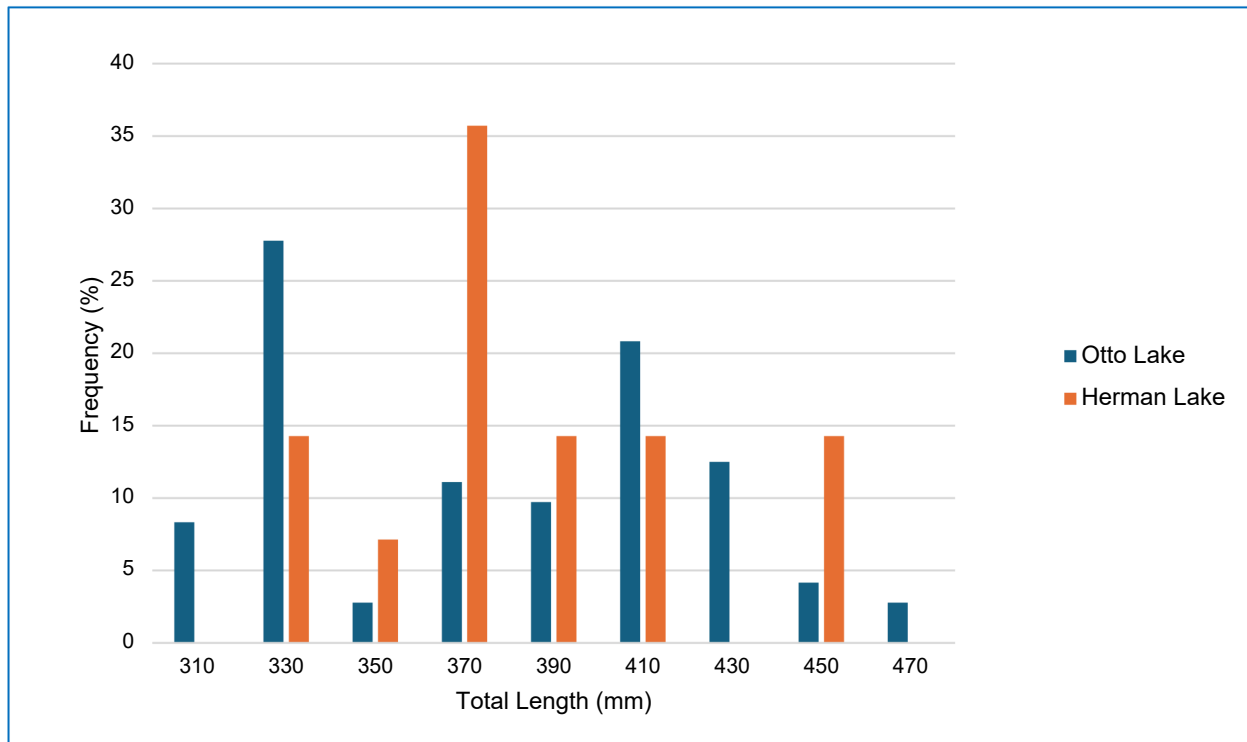
Length-Frequency Distributions

Length-frequency and age-class analyses provide critical insight into fish population dynamics, including recruitment success, growth rates, and mortality patterns. A well-structured population typically exhibits multiple size classes, including young-of-year (YOY), juveniles, and adults, reflecting consistent recruitment over time. Skewed size distributions, such as dominance by a single cohort or absence of smaller individuals, may indicate recruitment limitations, selective harvest, or environmental stressors. Additional metrics including mean length-at-age, weight-length relationships, and condition factors can provide further insight into density-dependent effects or resource limitations affecting population health.

In 2025, a total of 293 large-bodied fish and 5 small-bodied fish were measured for total length to develop species-specific length-frequency distributions. Histograms were generated for each waterbody to enable direct comparison of population structure among Otto, Herman, and Smithy Lakes.

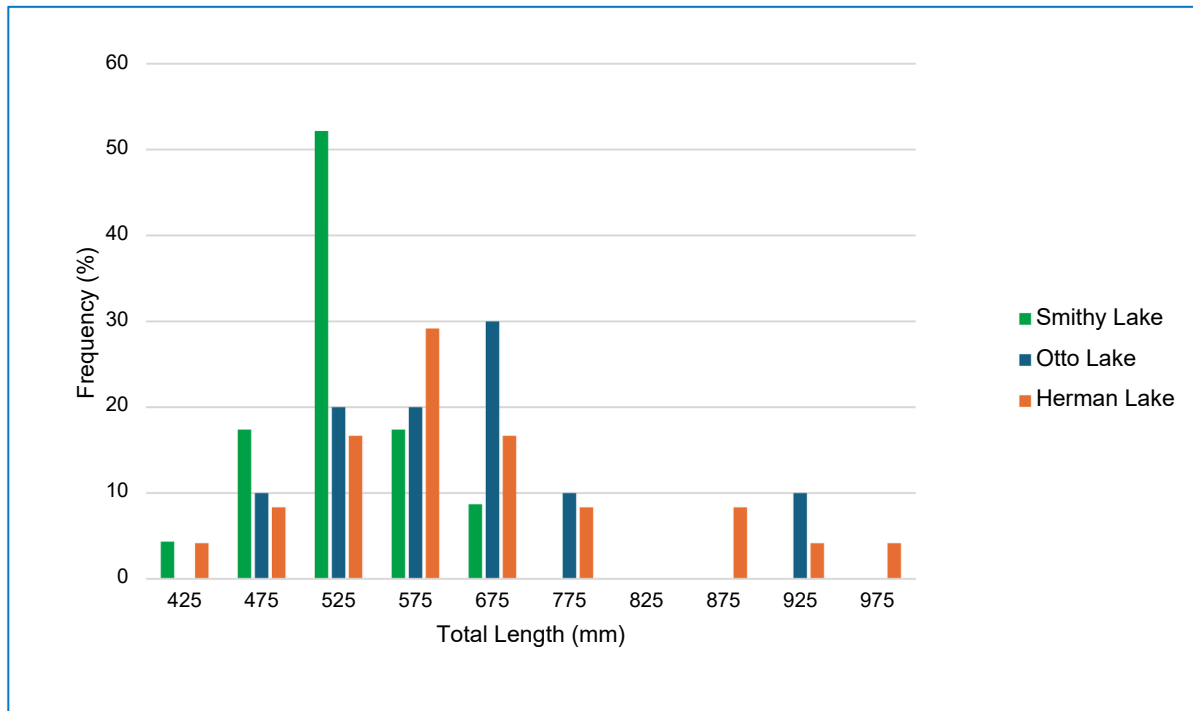
Lake Whitefish (*Coregonus clupeaformis*, $n = 86$) exhibited a narrow length range (300–465 mm; Chart 3.6). In Otto Lake ($n = 72$), the most frequent size class was 320–340 mm, while Herman Lake ($n = 14$) was dominated by 360–380 mm individuals.

Chart 3.6: Length-Frequency Distributions; Lake Whitefish (*Coregonus clupeaformis*) Otto & Herman Lakes (2025)



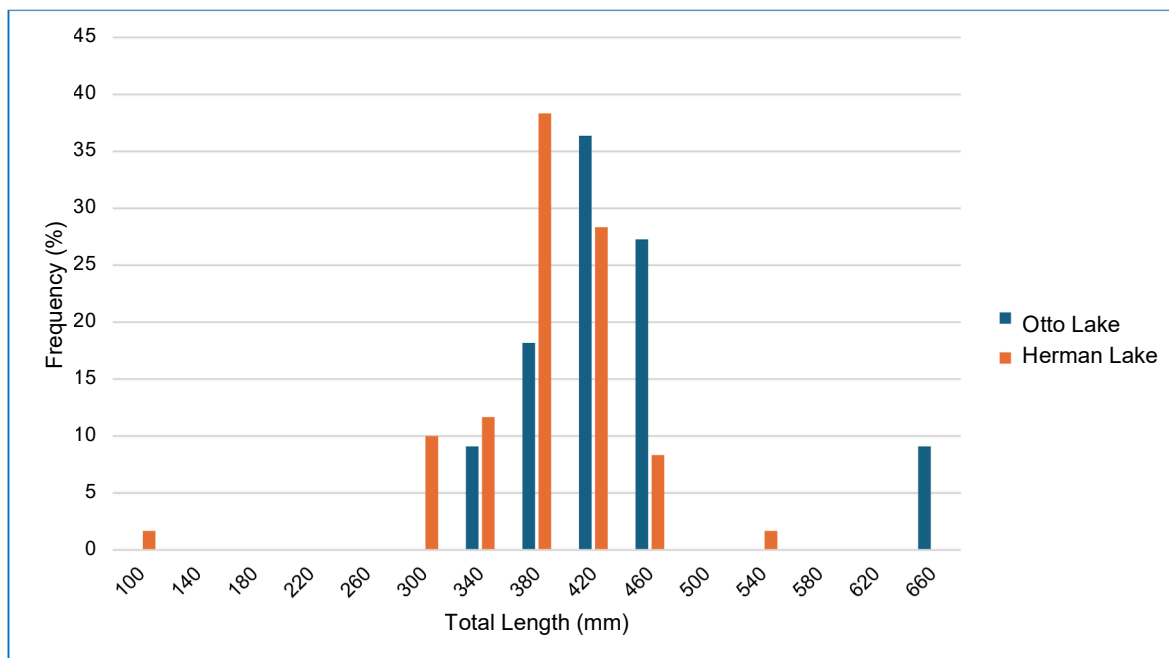
Northern Pike (*Esox lucius*, $n = 57$) displayed the broadest range in size (413 mm – 990 mm), with 82% of individuals between 450–750 mm (Chart 3.7). Size distributions in Otto ($n = 10$) and Herman ($n = 24$) were comparable, whereas Smithy Lake pike ($n = 23$) were smaller, with a maximum length of 617 mm and >50% of individuals between 500 mm – 550 mm.

**Chart 3.7: Length-Frequency Distributions; Northern Pike (*Esox lucius*)
Across Otto, Herman, & Smithy Lake (2025)**



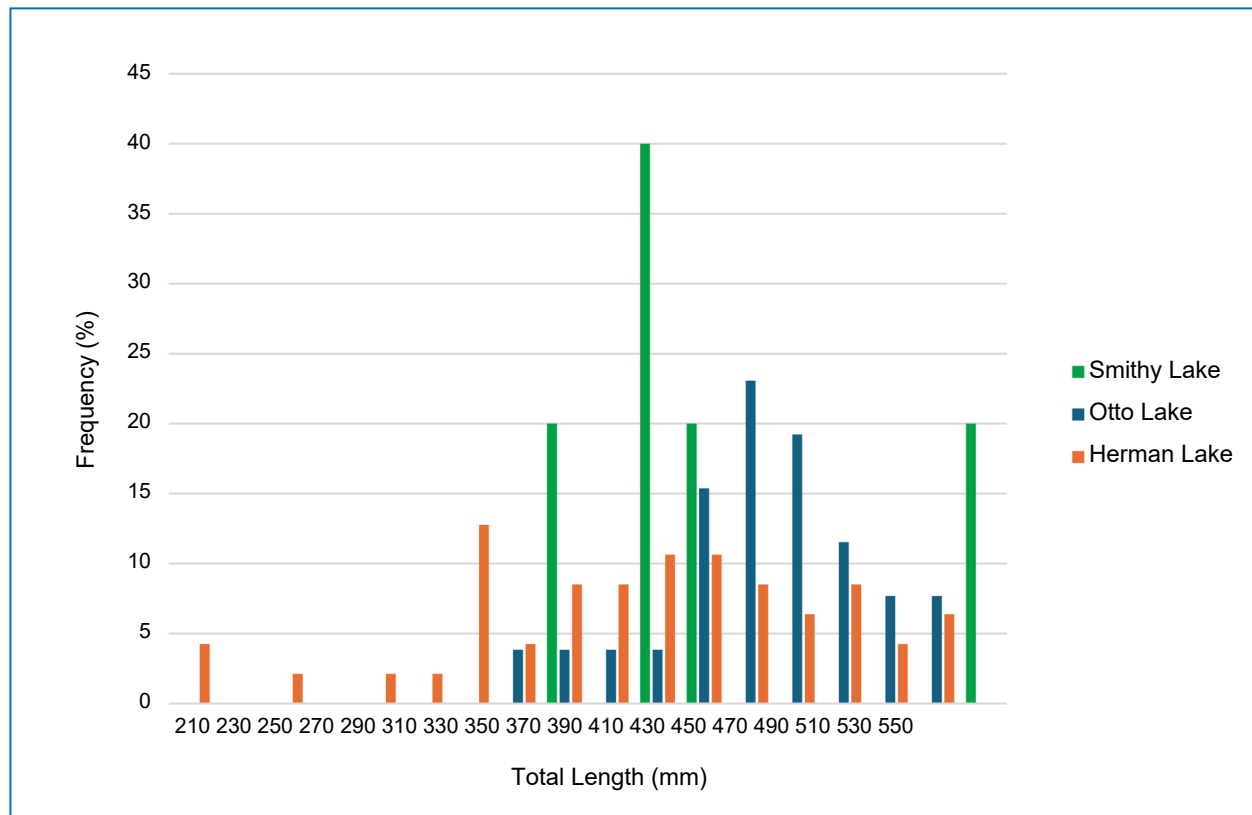
Walleye (*Sander vitreus*, n = 71) ranged from 107 mm – 640 mm. The majority captured in Otto (n = 11) and Herman (n = 60) measured 320–480 mm (96% of total catch; Chart 3.8). Walleye was not captured in Smithy Lake. The largest individual (640 mm) was in Otto Lake, and smallest (107 mm) in Herman Lake.

**Chart 3.8: Length Frequency Distributions of Walleye (*Sander vitreus*)
Across Otto & Herman Lake (2025)**



White Sucker (*Catostomus commersonii*, $n = 78$) ranged from 215 mm – 541 mm. Most individuals exceeded 320 mm, with larger fish (>420 mm) concentrated in Otto Lake ($n = 26$) and a more even distribution in Herman Lake ($n = 47$). The largest individual (541 mm) was captured in Smithy Lake ($n = 5$; Chart 3.9).

Chart 3.9: Length-Frequency Distributions; White Sucker (*Catostomus commersonii*) Otto, Herman, & Smithy Lake (2025)



Small-bodied forage fish were limited in occurrence. Common Logperch (*Percina caprodes*, $n = 4$) ranged 50 mm – 65 mm, Blacknose Shiner (*Notropis heterolepis*, $n = 1$) measured 58 mm, and Yellow Perch (*Perca flavescens*, $n = 1$) measured 113 mm. Given reduced sample sizes, these species were not plotted.

Comparison with Historical Populations (2022)

Lake Whitefish length-frequencies were not included in previous 2022 reporting (WSP, 2022); however, Northern Pike, Walleye, and White Sucker were included in sufficient numbers to support a temporal comparison. Length frequency distributions in 2022 data did not specify the number of individuals from each water body and instead analyzed the total number of each species collected from all water bodies. The length-frequency data in 2022 (WSP, 2022) included 13 different water bodies, of which Otto, Herman, and Smithy Lake were included. In 2022, Northern Pike exhibited the broadest length-frequency distribution among sampled species (278 mm to 1,017 mm), which was comparable to the 2025 range (413 mm to 990 mm). Length-frequency patterns were generally consistent between sampling events, with most individuals collected in 2022 measuring between 350 mm and 600 mm.

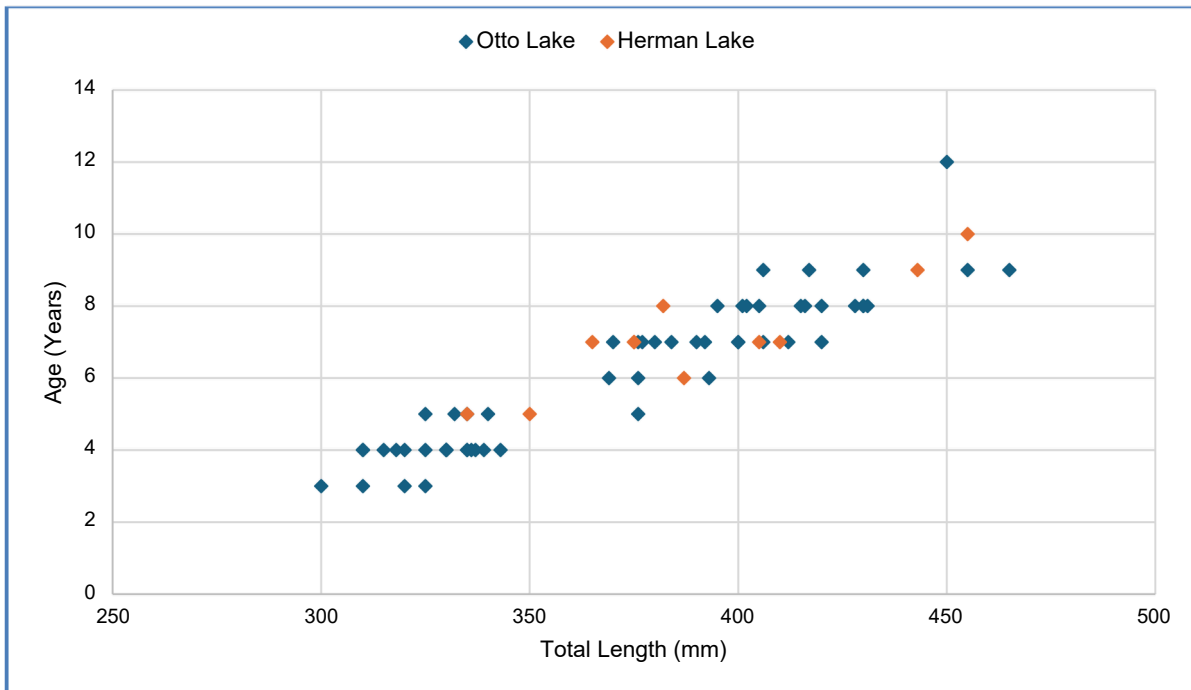
Walleye ranged from 190 mm to 590 mm in 2022, representing a narrower distribution than observed in 2025 (107 mm to 640 mm). Similar to 2025, most 2022 Walleye fell within the 340 mm to 520 mm size range; however, approximately 25% of individuals were smaller, clustered between 160 mm and 240 mm.

White Sucker demonstrated the most notable shift in size structure over the years. Although the overall length range in 2022 (169 mm to 570 mm) was comparable to 2025 (215 mm to 541 mm), the 2022 population was strongly skewed toward smaller individuals, with approximately 75% of specimens between 169 mm and 230 mm. In contrast, the 2025 distribution was more evenly spread across size classes, with most individuals measuring between 350 mm to 550 mm (WSP, 2022).

Growth

Lake Whitefish (*Coregonus clupeaformis*) ranged in age from 3 to 12 years, showing a positive linear relationship between age and length, particularly between ages 3 and 9, which represented most individuals sampled. In Otto Lake, Lake Whitefish exhibited a broader length distribution, ranging from 300 mm to 465 mm. Two primary clusters were observed: one between 300 mm and 343 mm and corresponding to younger fish aged 3 to 5 years; and a second between 369 mm and 431 mm, representing fish aged 5 to 9 years. In Herman Lake, Lake Whitefish displayed a narrower age range, with individuals captured between 5 and 10 years old. Most fish were between 6 and 8 years old and measured between 365 mm and 410 mm, aligning with the larger size cluster observed in Otto Lake. Both youngest (3 years) and oldest (12 years) individuals were captured in Otto Lake (Chart 3.10).

**Chart 3.10: Growth Distributions; Lake Whitefish (*Coregonus clupeaformis*)
Otto & Herman Lakes (2025)**



Northern Pike (*Esox lucius*) ranged from 2 to 12 years old, with most individuals between ages of 2 to 6 years. Northern Pike had consistently low ages in Otto Lake and ranged from 2 to 5 years old. Length of Otto Lake Northern Pike increased drastically after the age of 4 with younger individuals (2 to 4 years old) ranging between 485 mm and 610 mm, while two (2) 5 year old individuals recorded lengths of 780 mm and 911 mm. Herman Lake showed the most even distribution of both length and age, with individuals between the ages of 2 to 10 years old and lengths from 413 mm to 930 mm. A single tight cluster of individuals was noted between ages of 2 to 4 years old, with lengths of 549 mm to 566 mm. A second, more scattered collection of Northern Pike was noted between ages 4 and 10, with lengths of 710 mm to 930 mm. This cluster contained less individuals. Smithy Lake represented the smallest range of data. While ages ranged between 2 and 12 years, all but a single individual ranged between 2 and 6 years old. This tight distribution reflected length as well, being mainly between 457 mm and 580 mm. The 12-year-old and oldest individual Northern Pike captured had a length of 617 mm. There were multiple Northern Pike with the lowest age (2 years old) present at least once in each lake. (Chart 3.11).

**Chart 3.11: Growth Distributions; Northern Pike (*Esox lucius*)
Otto, Herman, & Smithy Lakes (2025)**

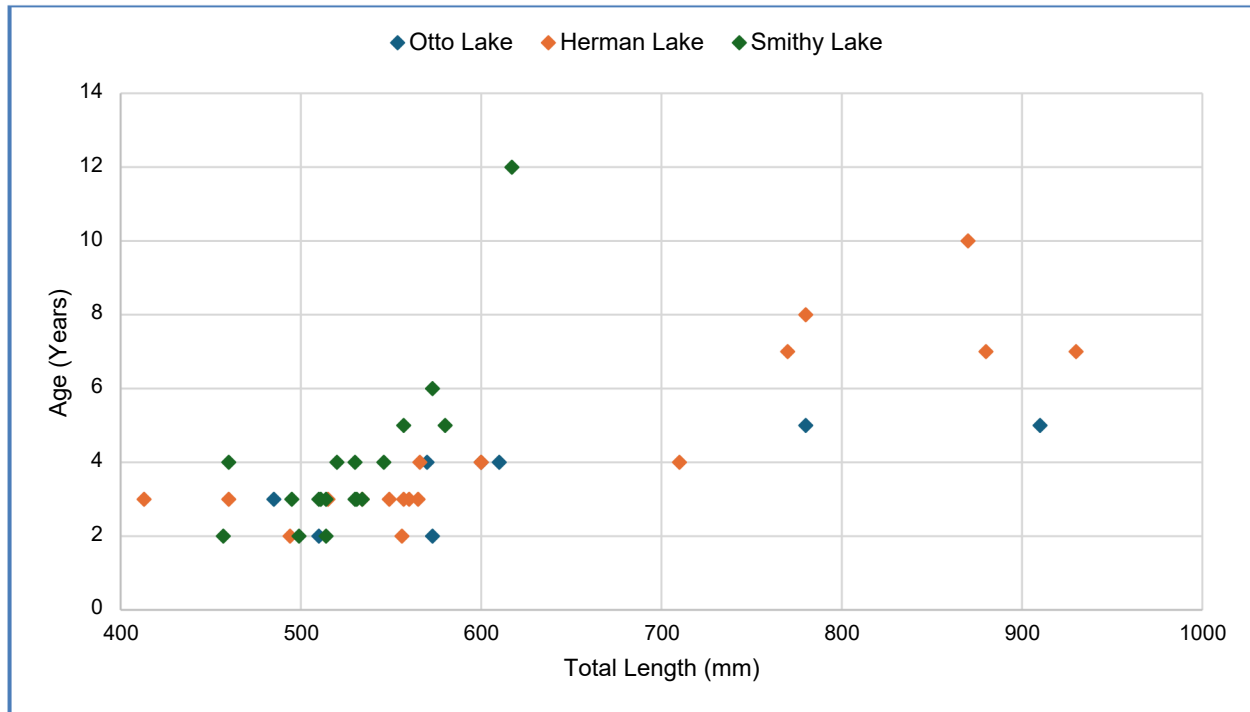


**Chart 3.12: Growth Distributions; Walleye (*Sander vitreus*)
Otto & Herman Lake (2025)**

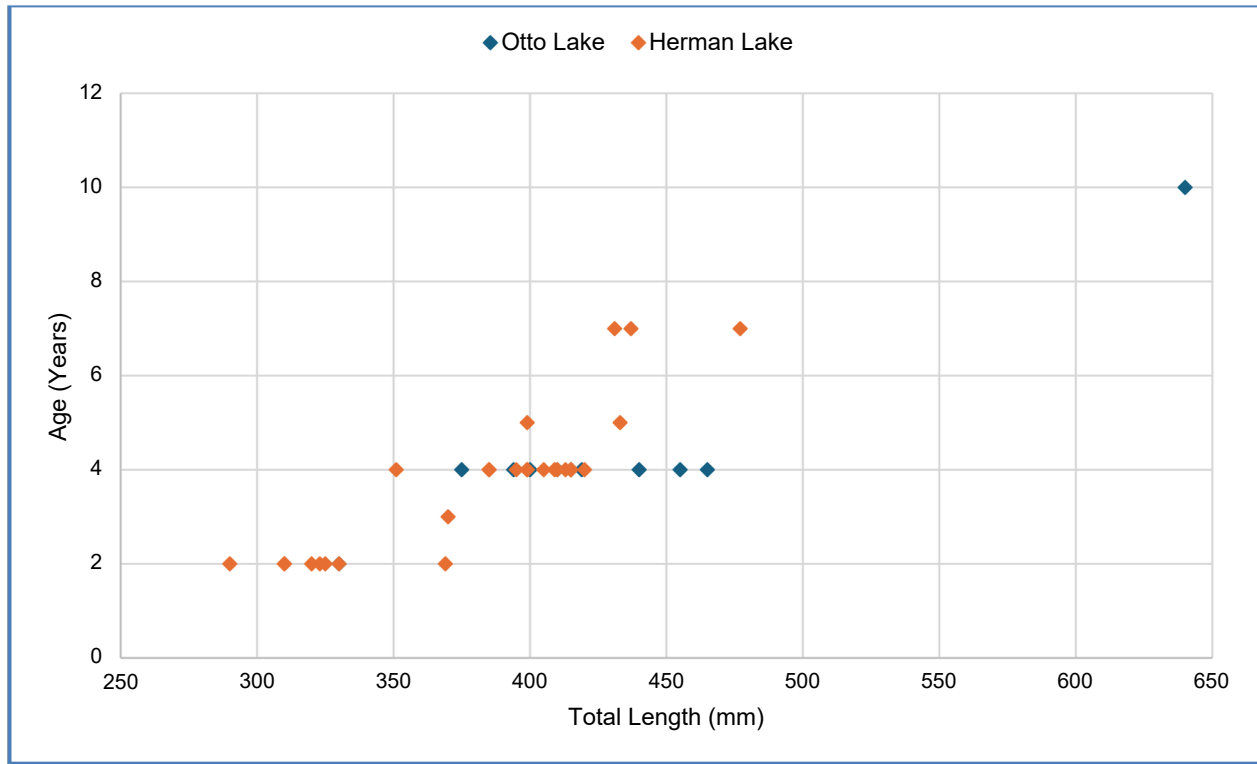
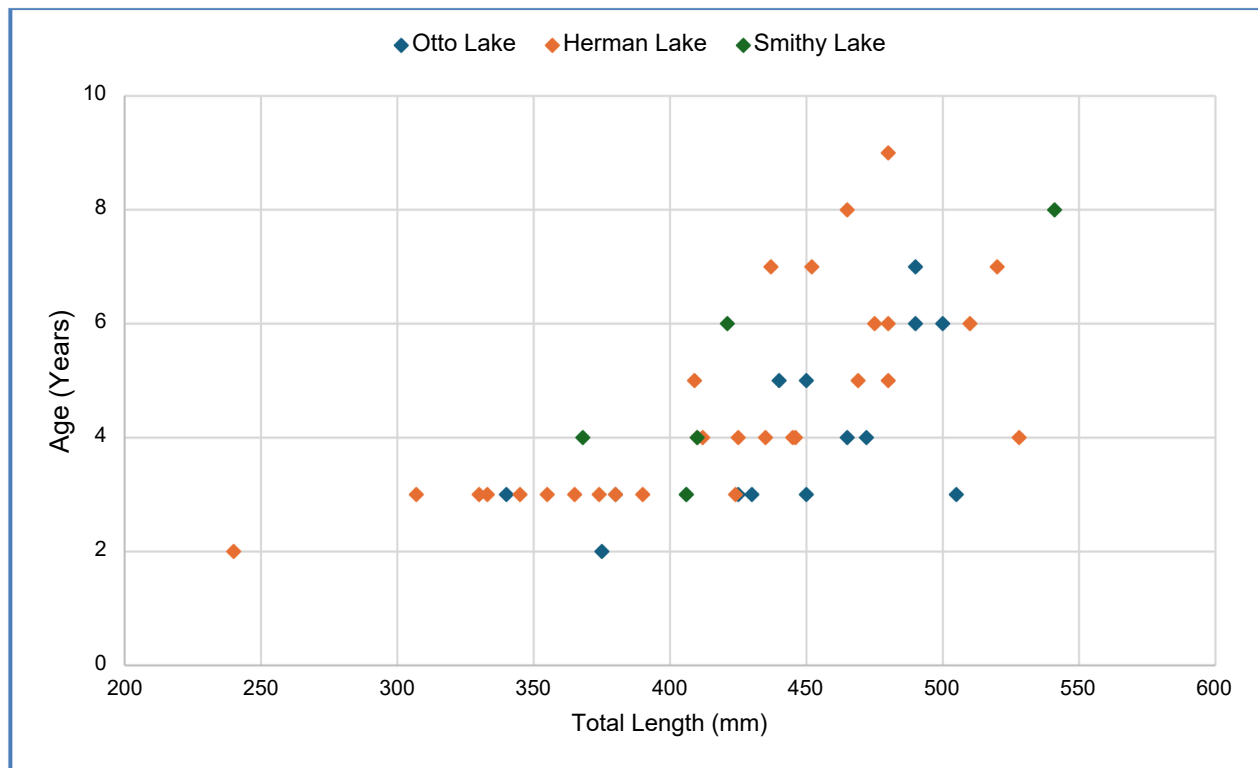


**Chart 3.13: Growth Distributions; White Sucker (*Catostomus commersonii*)
Otto, Herman, & Smithy Lakes (2025)**



3.3.4 Additional Health Matrices

Fecundity & Age

Fecundity (reproductive capacity of female fish) is an important metric for assessing population growth potential, recruitment success, and biomass production. Fecundity can vary with species, age, reproductive season, and environmental conditions, including food availability and habitat quality. In 2025, fecundity was measured for large-bodied species: Northern Pike (*Esox lucius*), Lake Whitefish (*Coregonus clupeaformis*), Walleye (*Sander vitreus*), and White Sucker (*Catostomus commersonii*).

Across the three lakes (Otto, Herman, and Smithy), the highest mean fecundity for three out of the four species was observed in Otto Lake: Lake Whitefish (13,104 eggs), Northern Pike (117,509 eggs), and White Sucker (54,397 eggs). Walleye mean fecundity was slightly higher in Herman Lake (37,213 eggs) than Otto Lake (35,123 eggs). Among species, Northern Pike exhibited the highest overall mean fecundity, with the maximum individual fecundity recorded at 465,925 eggs in Otto Lake. In contrast, lowest species-specific fecundity was Lake Whitefish in Herman Lake (11,063 eggs). The observed range in Northern Pike fecundity (3,444–465,925 eggs) reflects both inter-lake variability and size- or age-related differences, consistent with known allometric relationships between female body size and egg production (Balik et al., 2006).

Age structure revealed patterns complementary to fecundity trends. Mean ages were highest in Herman Lake for Lake Whitefish (7.80 years) and Walleye (5.00 years), while Northern Pike had the highest mean age in Smithy Lake (4.17 years). White Sucker mean ages were comparable in Otto and Herman Lakes (4.67 years). The highest age noted was 12 years for both a Lake Whitefish in Otto Lake and Northern Pike in Smithy Lake; the minimum age was 2 years for a Northern Pike in Otto Lake. Age distributions suggest healthy recruitment for most species, with inter-lake differences likely a function of environmental factors, population density, and/or selective mortality patterns.

Gonadosomatic & Hepatosomatic Indices

The Gonadosomatic Index (GSI) quantifies reproductive investment by expressing gonad mass relative to total body mass. Higher GSI values indicate greater reproductive development and can identify spawning timing and sexual maturity (Flores *et al.*, 2019).

The Hepatosomatic Index (HSI) reflects liver mass relative to total body mass, serving as an indicator of energy reserves and overall health. Elevated HSI values generally correspond to adequate feeding and favorable environmental conditions, whereas low HSI may indicate stress or limited energy availability (Flores *et al.*, 2019).

Table 3.10: Gonadosomatic & Hepatosomatic Indices of Large Bodied Fish

Species	Waterbody	Sex	GSI						HSI					
			Mean	Median	Min	Max	SE	SD	Mean	Median	Min	Max	SE	SD
Lake Whitefish	Herman Lake	Male	1.23	1.33	0.63	1.87	0.23	0.5	0.48	0.53	0.21	0.6	0.07	0.16
		Female	5.21	5.4	1.59	9.31	1.03	2.54	0.73	0.76	0.47	0.96	0.07	0.17
	Otto Lake	Male	1.43	1.47	0.14	2.5	0.13	0.58	0.42	0.42	0.08	0.65	0.03	0.12
		Female	4.23	4.8	0.26	6.2	0.4	1.64	0.77	0.79	0.42	1.03	0.03	0.14
	Smithy Lake	Male	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Female	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Northern Pike	Herman Lake	Male	1.21	1.18	0.38	1.96	0.17	0.54	0.97	0.85	0.71	1.52	0.09	0.28
		Female	1.1	0.95	0.8	1.87	0.16	0.4	1.09	1.05	0.78	1.57	0.11	0.27
	Otto Lake	Male	1.18	1.18	1.18	1.18	NA	NA	0.75	0.75	0.75	0.75	NA	NA
		Female	0.84	0.9	0.57	0.99	0.07	0.16	1	0.84	0.71	1.56	0.15	0.34
	Smithy Lake	Male	0.66	0.64	0.54	0.82	0.05	0.11	0.77	0.72	0.59	1.03	0.08	0.18
		Female	2.1	2.19	1.05	2.83	0.14	0.58	1.15	1.15	0.71	1.74	0.06	0.26
Walleye	Herman Lake	Male	0.69	0.64	0.26	1.22	0.07	0.26	0.96	0.97	0.46	1.38	0.07	0.26
		Female	0.57	0.57	0.31	0.82	0.25	0.36	1.25	1.25	0.94	1.55	0.31	0.43
	Otto Lake	Male	0.76	0.74	0.22	1.54	0.2	0.49	0.88	0.89	0.67	1.08	0.07	0.18
		Female	1.08	0.95	0.84	1.44	0.18	0.32	1.12	1.22	0.92	1.23	0.1	0.18
	Smithy Lake	Male	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Female	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
White Sucker	Herman Lake	Male	6.44	6.54	3.93	8.05	0.32	1.21	0.2	0.15	0.09	0.62	0.04	0.16
		Female	2.87	3.12	0.62	4.29	0.52	1.27	0.23	0.26	0.08	0.33	0.04	0.1
	Otto Lake	Male	5.99	5.8	4.64	8.01	0.55	1.23	0.28	0.15	0.13	0.71	0.14	0.28
		Female	2.68	3.37	1.09	3.59	0.8	1.38	0.18	0.17	0.1	0.27	0.05	0.09
	Smithy Lake	Male	3.94	3.94	3.62	4.26	0.32	0.46	0.81	0.81	0.72	0.89	0.08	0.12
		Female	4.6	4.6	4.19	5.02	0.42	0.59	0.78	0.78	0.46	1.1	0.32	0.45

In 2025, Lake Whitefish (*Coregonus clupeaformis*) exhibited highest GSIs among sampled species. Otto Lake fish had mean GSI values of 1.43 (males) and 4.23 (females), while Herman Lake fish measured 1.23 (males) and 5.21 (females). Elevated female GSI aligns with the species' spawning season (September–January), during which gonads are near peak development. HSI values were lower in males (0.42–0.48) than females (0.73–0.77), reflecting reproductive energy allocation in females.

For Northern Pike (*Esox lucius*), female GSI was highest in Smithy Lake (2.10) compared to Herman (1.10) and Otto Lake (0.84), suggesting more advanced reproductive development at time of sampling. Male GSI was highest in Herman Lake (1.21) and lowest in Smithy Lake (0.66). HSI values were generally consistent amongst the three lakes and sexes, with the highest individual HSI (1.74) recorded in a female Northern Pike from Smithy Lake.

Walleye (*Sander vitreus*) exhibited the lowest mean GSI of all species (0.77), with females in Otto Lake showing slightly higher GSI (1.08) than males (0.76), consistent with reproductive energy investment during gonad development. HSI values followed a sex-based pattern, with females consistently higher than males, reflecting the energetic demands of reproduction (Casselman, 2004).

White Sucker (*Catostomus commersonii*) showed the highest mean GSI among species, consistent with a broadcast-spawning reproductive strategy (males and females release gametes into the water column simultaneously, where fertilization occurs externally requiring large gonads and significant energy investment (Parker *et al.*, 2018). Mean GSI was higher in males than females in Otto and Herman Lakes, whereas, in Smithy Lake, females exhibited higher GSI. HSI values were lowest in White Sucker relative to other species (mean 0.41), with the highest values recorded in Smithy Lake, indicating adequate energy reserves for reproduction.

Condition Factor

The condition factor (K) is a length and weight standardized measure of fish health and energy reserves, where higher K indicates better physiological condition (Lima-Junior *et al.*, 2002). Condition factors vary with age, reproductive state, food availability, and seasonal growth patterns, making context important for interpretation. Lake Whitefish (*Coregonus clupeaformis*): 65% of Otto Lake individuals and 45% of Herman Lake individuals had $K > 1.0$, indicating generally healthy populations. Mean K in Otto Lake was 1.04 (Chart 3.14);

- Walleye (*Sander vitreus*): Mean K was < 1.0 in Otto (0.98) and Herman Lake (0.87), reflecting lower energy reserves relative to body length (Chart 3.15);
- White Sucker (*Catostomus commersonii*): Most individuals exhibited $K > 1.0$, consistent with good health; mean values were 1.26 (Otto), 1.19 (Herman), and 1.33 (Smithy; Chart 3.16); and,
- Northern Pike (*Esox lucius*): Given their elongated fusiform morphology (adapted for efficient swimming, an elongated spindle shape), K primarily reflects energy reserves rather than structural body differences (Salam and Davies, 1994) and K values for healthy pike can be as low as 0.4 (Moreno, 2009). Values ranged from 0.40–0.75, with mean K similar across lakes (0.59–0.62), indicating good condition (Chart 3.17).

**Chart 3.14: Condition Factor (K); Lake Whitefish (*Coregonus clupeaformis*)
Across Otto & Herman Lake (2025)**

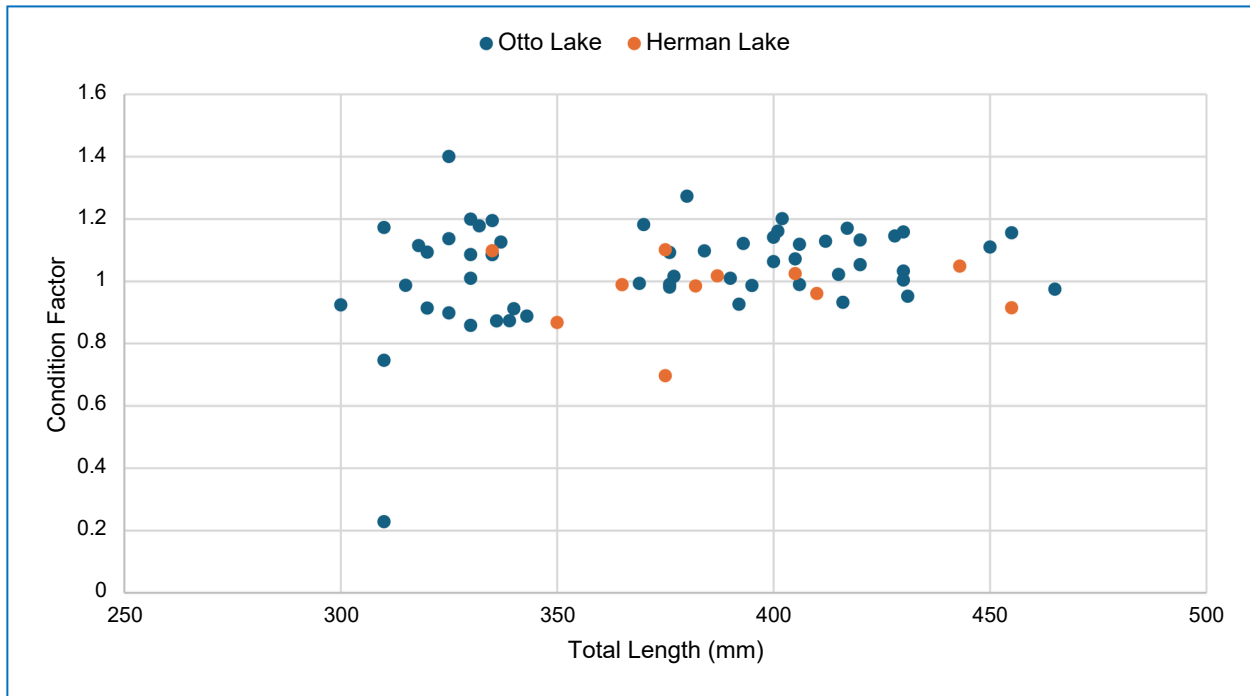


**Chart 3.15: Condition Factor (K); Walleye (*Sander vitreus*)
Otto & Herman Lake (2025)**

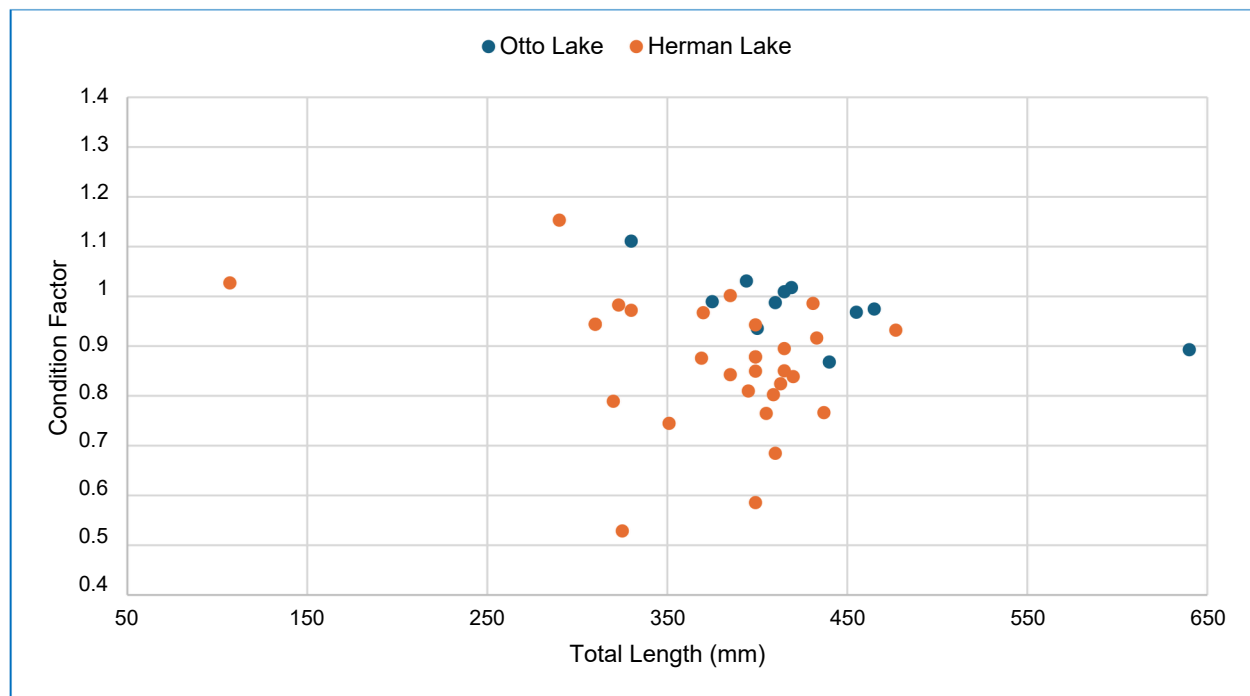


Chart 3.16: Condition Factor (k) of White Sucker (*Catostomus commersonii*) Across Otto, Herman, & Smithy Lake (2025)

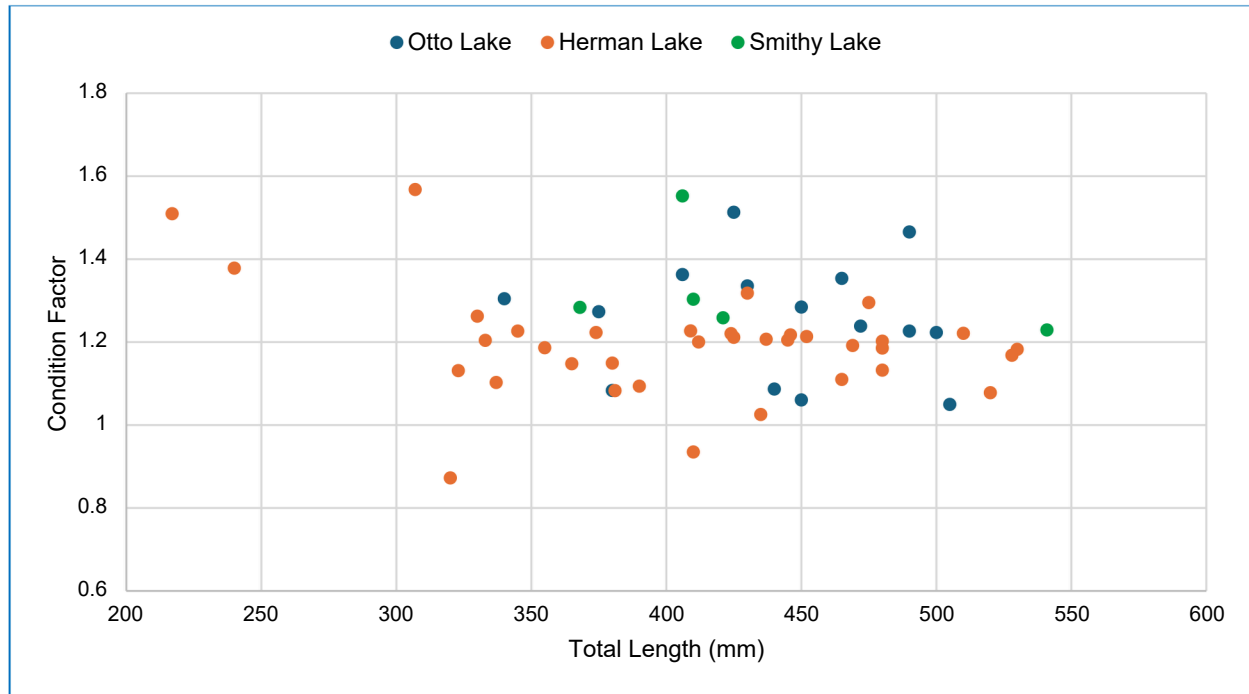
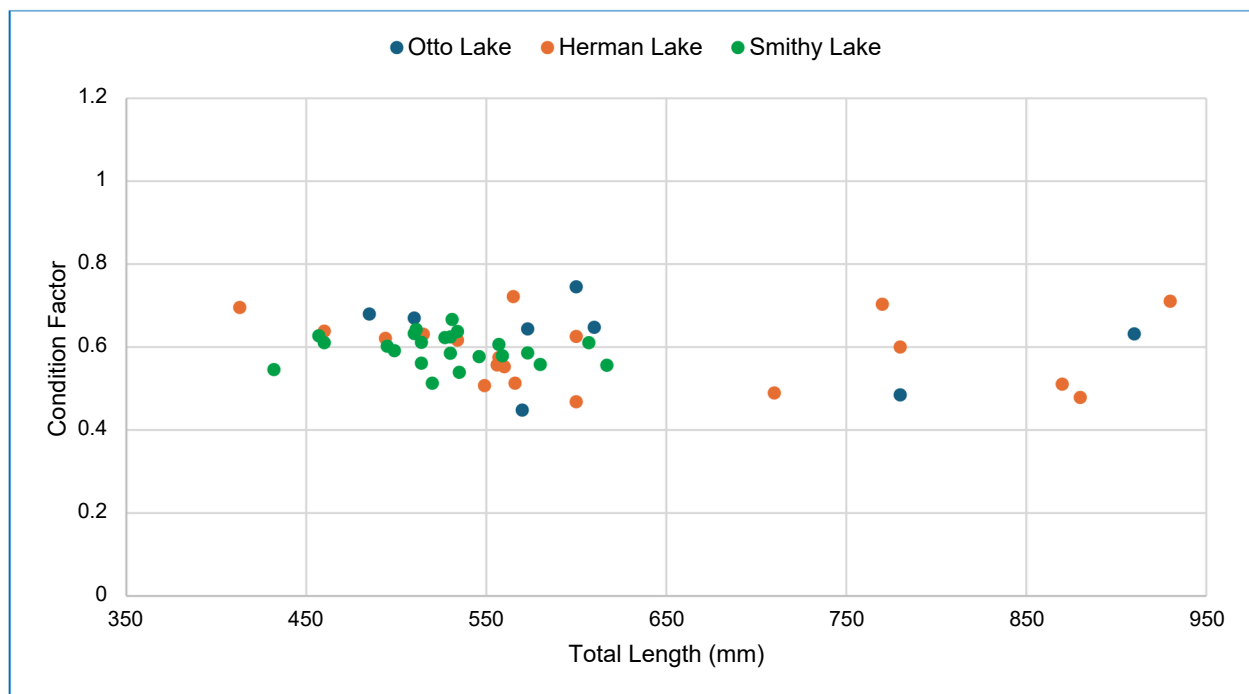


Chart 3.17: Condition Factor (K); Northern Pike (*Esox lucius*) Otto, Herman, & Smithy Lake (2025)



3.4 FISH TISSUE BIOACCUMULATION

Sampling of fish for tissue testing and bioaccumulation assessments was done in Otto and Herman Lakes in June and September (2025). Arsenic, cobalt, lead, mercury, and methylmercury were assessed in dorsal muscle of key fish species. These metals were analyzed to comply with IAAC requirements, evaluate potential risks to human and ecological consumers and to compare with historical fish tissue data. Tissue concentrations were interpreted relative to relevant consumption and wildlife protection guidelines, including Health Canada (HC), Canadian Food Inspection Agency (CFIA), Ontario Ministry of Environment, Conservation and Parks (MECP), and Canadian Council of Ministers of the Environment (CCME; Tables A3.6 and A3.7, Appendix 1).

Sampling was strategically timed to correspond with critical periods in fish life cycles and reproductive maturation of target species. June sampling focused on non-lethal muscle biopsy collection to minimize impacts on local populations and September employed a lethal design using dorsal muscle to meet regulatory monitoring requirements. Target species included Lake Whitefish (*Coregonus clupeaformis*), Northern Pike (*Esox lucius*), Walleye (*Sander vitreus*), and White Sucker (*Catostomus commersonii*), representing multiple trophic levels, local ecological importance, and human consumption interest. Concentrations of metals in muscle tissue were compared to established guidelines and based on a wet weight basis (wwt):

- total mercury: HC and MECP consumption limits (0.5 mg/kg for sensitive populations, 1.8 mg/kg for general populations);
- methylmercury: CCME guideline for wildlife protection (0.033 mg/kg);
- arsenic and lead: CFIA resale/food safety limits (3.5 mg/kg and 0.5 mg/kg, respectively); and,
- cobalt: No established benchmark for consumption.

Percent (%) Moisture

Percent moisture represents the proportion of water in a tissue sample (usually muscle). Muscle tissue is mostly water (~70–80%), so moisture content affects the “concentration per unit mass” of a contaminant when measured on a wet weight (wwt) basis (Fleischer *et al.*, 2021). High moisture content dilutes metals in tissues. For example, a fish with 80% water will have lower wwt metal concentrations than one with 70% water if their total body burden is the same. Reporting moisture content ensures that variations in metal concentrations across species, seasons, or individuals can be interpreted in context. If a fish has unusually low moisture (e.g., during fat accumulation or dehydration), wwt concentrations could appear artificially high.

Percent (%) Lipid Content

Lipid content measures the proportion of fat in tissues. Lean muscle typically has 0.7–5% lipid, while fatty species (e.g., lake trout) may have much more (Nava *et al.*, 2023; Zeng *et al.*, 2010). Many contaminants are lipophilic (fat-loving), meaning they preferentially accumulate in fatty tissues. Metals like methylmercury bind strongly to proteins, so lipid has less effect, but lipid content still affects apparent tissue concentration per wet weight (Al-Sulaiti *et al.*, 2023). Also, fish lipid varies by species, age, season, reproductive stage, and diet. For example, pre-spawning fish may mobilize fat reserves, reduce lipid content, and concentrate metals per unit wet weight. Reporting lipids can assist in the

interpretation of whether higher concentrations are due to contaminant exposure or physiological variation (Zeng *et al.*, 2010).

Moisture & Lipid Content with Seasonality

In the spring, fish typically have higher moisture content and lower lipid (fat) content given they have used much of their stored energy reserves during the winter for metabolism and survival. As a result, tissues become leaner and contain more water. In contrast, during the fall, fish generally have higher lipid content and lower moisture content as a result of a summer spent feeding and accumulating fat reserves in preparation for winter. There is an inverse relationship between moisture and lipid content in fish tissue, as lipid levels increase, moisture levels tend to decrease given that lipids replace water in tissues (Piro *et al.*, 2023).

These seasonal changes in tissue composition can affect the measurement and interpretation of metal uptake and bioaccumulation. In the spring, when moisture content is higher and lipid content is lower, metals may appear at higher concentrations on a wet-weight basis given less lipids to dilute the parameter concentration. Many metals bind more readily to proteins rather than lipids, so leaner tissue can show higher apparent metal levels. In the fall, when lipid content is higher, measured metal concentrations may appear lower on a wet-weight basis due to dilution from the increased fat stores.

3.4.1 Fish Tissues (June 2025)

Muscle biopsy samples were collected from Lake Whitefish (*Coregonus clupeaformis*), Northern Pike (*Esox lucius*), and White Sucker (*Catostomus commersonii*) in Otto and Herman Lakes, representing multiple age classes and size distributions. Overall, tissue percent (%) moisture content ranged from 70–82%, with low lipid concentrations (<1.1%), consistent with lean muscle tissue (Table A3.6, Appendix 1).

OTTO LAKE

Lake Whitefish

Fork length ranged from 270–300 mm (mean 283 mm) and age from 3–4 years (mean 3 years of age). Moisture ranged from 69.9% to 79.4% (mean 77.2%) and lipids from <0.50% to 1.09% (mean 0.69%), consistent with lean spring muscle tissue following winter energy depletion. Total mercury in muscle tissue ranged 0.077–0.108 mg/kg (mean 0.093 mg/kg wwt), below HC and MECP consumption limits (0.5 mg/kg wwt). Methylmercury (0.266–0.372 mg/kg wwt; mean 0.329 mg/kg wwt) exceeded the CCME Wildlife Guidelines (0.033 mg/kg wwt). Arsenic (0.065 mg/kg to 0.080 mg/kg wwt) and lead (<0.0040 mg/kg to 0.0057 mg/kg wwt) were below the Canadian Food Inspection Agency (CFIA) resale/food safety limits (3.5 mg/kg arsenic and 0.5 mg/kg lead, respectively). Cobalt was not detected (<0.0040 mg/kg wwt), in all species taken from Otto Lake (June 2025).

White Sucker

Fork length ranged from 290 to 450 mm (mean 371 mm) and age from 3–7 years (mean 5 years). Moisture ranged from 78.4% to 82.2% and lipids from <0.50% to 0.97% (mean 0.59%) consistent with lean spring tissue. Total mercury 0.049–0.158 mg/kg wwt (mean 0.093 mg/kg wwt) was below HC/MECP guidelines. Methylmercury 0.262–0.714 mg/kg wwt (mean 0.407 mg/kg wwt), exceeded CCME Wildlife Guidelines (0.033 mg/kg wwt). Arsenic (0.024 mg/kg wwt to 0.101 mg/kg wwt);

mean 0.047 mg/kg ww) and lead (<0.0040 mg/kg ww to 0.0061 mg/kg ww; mean 0.005 mg/kg ww) were below the CFIA resale/food safety limits (3.5 mg/kg arsenic and 0.5 mg/kg lead, respectively).

Northern Pike

Fork length ranged from 500 mm to 570 mm (mean 535 mm) and was 4 years of age (n = 2). Moisture ranged from 79.5% to 80.3% (mean 79.9%) and lipids were below detection limit (<0.50%), indicating lean muscle tissue consistent with spring sampling. The highest trophic feeding fish, and therefore greatest potential to bioaccumulate compounds, reflected elevated total mercury (0.453–0.496 mg/kg ; mean 0.475 mg/kg ww) and methylmercury (1.90–2.02 mg/kg; mean 1.96 mg/kg ww), reflecting biomagnification of metals. Although total mercury was still below the MECP and HC guidelines (0.5 mg/kg and 1.80 mg/kg ww). Arsenic (0.025 mg/kg ww to 0.040 mg/kg ww; mean 0.033 mg/kg ww) and lead (<0.0040 mg/kg to 0.129 mg/kg ww; mean 0.067 mg/kg ww), were below CFIA food safety limits (3.5 mg/kg arsenic and 0.5 mg/kg lead, respectively).

HERMAN LAKE

White Sucker

Fork length ranged from 291 mm to 490 mm (mean 381 mm) and age 3-9 years (mean 5 years). Moisture from 41.0% to 81.7% (mean 60.8%). Lipids were below the detection limit (<0.50%), indicating lean muscle during spring. Total mercury ranged from 0.026 mg/kg to 0.603 mg/kg ww (mean 0.203 mg/kg ww); One (1) sample slightly exceeded sensitive population HC/MECP mercury guidelines (0.5 mg/kg ww; HLWS03; 0.603 mg/kg ww). Methylmercury ranged 0.121 mg/kg to 0.197 mg/kg ww above CCME wildlife protection criteria (0.033 mg/kg ww). Cobalt levels were all below detection limits (<0.0040 mg/kg ww). Arsenic levels from 0.029 mg/kg to 0.117 mg/kg ww (mean 0.063 mg/kg ww), and lead from non-detect <0.0040 mg/kg ww to 1.59 mg/kg ww (mean 0.208 mg/kg ww). Arsenic was below the CFIA resale/food safety limits (3.5 mg/kg); however, lead was above the CFIA guideline (0.5mg/kg; HLWS03; 1.59 mg/kg ww) for a single (1) sample.

Northern Pike

Fork Length ranged from 486 to 529 mm (mean 512 mm) and age from 2-3 years (mean 3 years; n = 3). Moisture ranged from 78.8% to 79.3% (mean 79%) and lipids were not detected (<0.50%), typical for spring conditions. Total mercury (0.264-0.325 mg/kg ww; mean 0.287 mg/kg ww), below HC/MECP consumption limits (0.5 mg/kg and 1.80 mg/kg ww); methylmercury (0.843 mg/kg to 1.10 mg/kg ww; mean 0.976 mg/kg ww), exceeded the federal CCME wildlife tissue guidelines (0.033 mg/kg ww). Cobalt was not detected (<0.0040 mg/kg ww). Arsenic levels ranged from 0.026 mg/kg to 0.033 mg/kg ww (mean 0.030 mg/kg ww), and lead was below detection limit (<0.0040 mg/kg ww). Elevated levels of mercury were consistent with biomagnification associated with predatory feeding.

Conclusion (June Fish Tissue)

In June, mercury and methylmercury concentrations in fish tissues reflected trophic position, with Northern Pike exhibiting the highest levels, consistent with biomagnification through the aquatic food web. Larger and older individuals accumulated higher metal concentrations than smaller, younger fish. Seasonal tissue characteristics also influenced results: spring-collected fish displayed high

moisture content and low lipid reserves, which likely contributed to the observed mercury and methylmercury concentrations, as leaner tissues tend to dilute lipid-associated contaminants relative to later in the growing season.

3.4.2 Fish Tissues (September 2025)

A lethal fish tissue study was conducted in September in Otto and Herman Lake, during which boneless, skinless dorsal muscle fillets were taken from Lake Whitefish (*Coregonus clupeaformis*), Northern Pike (*Esox lucius*), and White Sucker (*Catostomus commersonii*) and Walleye (*Sander vitreus*), representing a range of age classes and size distributions. Overall, percent (%) moisture content in tissues ranged from 76% to 85%, <0.5% to 3.81%, consistent with lean muscle tissue (Table A3.7, Appendix 1).

OTTO LAKE

Lake Whitefish

Fork length ranged from 281 mm to 420 mm (mean 342 mm) and were 4-12 years of age (mean 6 years). Moisture ranged from 73.6% to 81.2% (mean 78.5%) and lipids from <0.50% to 3.81% (mean 0.98%). Although higher lipid content was noted compared to spring sampling, mean mercury concentrations remained similar. Total mercury ranged from 0.054-0.153 mg/kg ww (mean 0.092 mg/kg), below the HC and MECP sensitive population and Health Canada consumption guideline (0.5 mg/kg ww). Methylmercury ranged from 0.139–0.919 mg/kg ww (mean 0.451 mg/kg ww) exceeding the CCME Wildlife Guidelines (0.033 mg/kg ww). Arsenic (0.040-0.188 mg/kg ww; mean of 0.080 mg/kg ww), and lead (<0.010-0.019 mg/kg ww), were below the CFIA resale/food safety limit (3.5 mg/kg ww and 0.5 mg/kg, respectively). Cobalt was below detection (≤ 0.0040 mg/kg ww), except for a single sample (0.0091 mg/kg ww; OLLWS1).

White Sucker

Fork length ranged from 350 mm to 470 mm (mean 417 mm) and 2-7 years (mean 4 years) in age. Moisture ranged from 78.1% to 84.9% and lipids from <0.50% to 0.87% (mean 0.60%), similar to spring muscle tissue. Total mercury 0.048-0.130 mg/kg ww (mean 0.079 mg/kg ww), below HC/MECP guidelines and comparable to spring sampling. Methylmercury ranged from 0.258–0.694 mg/kg ww (mean 0.435 mg/kg ww), exceeding CCME Wildlife Guidelines (0.033 mg/kg ww). Arsenic (mean 0.042 mg/kg ww) and lead (<0.010 mg/kg ww, except one sample 0.011 mg/kg ww) were below CFIA resale/food safety limits (3.5 mg/kg arsenic and 0.5 mg/kg lead, respectively). Cobalt was not detected (<0.0040 mg/kg ww).

Walleye

Fork length ranged from 315 mm to 450 mm (mean 388 mm) and 2-4 years (mean 4 years) in age. Moisture ranged from 76.0% to 83.7% (mean 79.3%) and lipids <0.50% to 1.71% (mean 0.80%), typical of energy storage after summer feeding. Total mercury ranged from 0.242–0.526 mg/kg ww (mean 0.418 mg/kg ww) and methylmercury from 0.736–2.86 mg/kg (mean 2.02 mg/kg ww). Total mercury was below MECP and HC guidelines (0.5 mg/kg ww and 1.80 mg/kg ww) with the exception of a single (1) sample (OLWYS20; 0.526 mg/kg ww). Walleye methylmercury exceeded CCME tissue residue guideline for wildlife (0.033 mg/kg ww). Lead and cobalt were non-detected

(<0.010 mg/kg ww; <0.0040 mg/kg ww). Arsenic ranged from 0.028-0.039 mg/kg ww (mean 0.033 mg/kg ww) and was below the CFIA guideline (3.5 mg/kg). Elevated mercury and methylmercury concentrations suggest feeding position in the food chain.

Northern Pike

Fork length ranged from 455 mm to 870 mm (mean 611 mm) and 2 to 5 years (mean 3 years) of age. Moisture ranged from 76.8% to 79.1% (mean 78.0%) and lipids from <0.50% to 0.62% (mean 0.50%), similar to those in the spring. Higher trophic feeding fish, and therefore greater potential to bioaccumulate compounds, reflected elevated total mercury ranged from 0.302 mg/kg to 1.100 mg/kg ww (mean 0.555 mg/kg), and methylmercury from 1.110 mg/kg to 7.380 mg/kg ww (mean 2.582 mg/kg), exceeding the CCME wildlife guideline (0.033 mg/kg ww). Mean total mercury exceeded the MECP sensitive population and Health Canada consumption guideline (0.5 mg/kg ww), although remained below the sport-fish consumption guideline (1.8 mg/kg ww). Mean total arsenic was 0.036 mg/kg ww, below the CFIA guideline (3.5 mg/kg). Total lead ranged from <0.010 mg/kg to 0.016 mg/kg ww, below the CFIA guideline for food safety (0.5 mg/kg). Cobalt was low, with only one sample above the detection limit (<0.0040-0.0067 mg/kg ww).

HERMAN LAKE

Lake Whitefish

Fork length ranged from 300 mm to 410 mm (mean 352 mm) and 3 to 10 years (mean 7 years) of age. Moisture ranged from 77.0% to 80.8% (mean 79.0%) and lipids from <0.50% to 2.96% (mean 1.23%). Total mercury ranged from 0.085 mg/kg to 0.308 mg/kg ww (mean 0.161 mg/kg ww) and below the sensitive population restriction and Health Canada consumption guideline (0.5 mg/kg ww). Methylmercury from 0.308 mg/kg to 0.712 mg/kg ww (mean 0.463 mg/kg ww) exceeded CCME Wildlife Guidelines (0.033 mg/kg ww). A single Lake Whitefish was slightly above the detection limit for cobalt (0.0040 mg/kg ww) with the remaining samples below detection ($\leq$ 0.0040 mg/kg ww). Total lead was non-detect (<0.010 mg/kg ww) in any whitefish. Total arsenic ranged from 0.039 mg/kg to 0.090 mg/kg ww (mean 0.073 mg/kg ww), below CFIA guidelines (3.5 mg/kg).

White Sucker

Fork length ranged from 205 mm to 494 mm (mean 378 mm) and 2-6 years (mean 4 years) of age. Moisture ranged from 76.4% to 85.4% (mean 80.7) and lipids from <0.50% to 1.54% (mean 0.60%). Total mercury 0.030 mg/kg to 0.663 mg/kg ww (mean 0.156 mg/kg ww). Two (2) White sucker samples exceeded MECP sensitive population and Health Canada consumption guidelines (0.5 mg/kg ww); however, no samples exceeded the general population consumption restriction of 1.8 mg/kg ww. Methylmercury 0.132 mg/kg to 1.450 mg/kg ww (mean 0.429 mg/kg ww), exceeding CCME Wildlife Guidelines (0.033 mg/kg ww). Arsenic ranged from 0.022 mg/kg to 0.053 mg/kg ww (mean 0.033 mg/kg ww), below the CFIA guideline (3.5 mg/kg). Cobalt ranged from <0.0040 mg/kg to 0.0083 mg/kg ww (mean 0.0043 mg/kg ww). A single White Sucker was observed to be above the total lead detection limit of 0.010 mg/kg ww, while the remaining samples did not have detectable amounts ($\leq$ 0.010 mg/kg ww) and therefore were below the CFIA guideline (0.5 mg/kg).

Walleye

Fork Length ranged from 104 mm to 455 mm (mean 355 mm) and were 2-7 years (mean 4 years; n=3) of age. Moisture ranged from 75.8% to 81.6% (mean 78.4%) and lipids <0.50% to 2.13% (mean 0.59%), typical for fish at end of summer feeding. Total mercury (0.057 mg/kg to 0.634 mg/kg ww; mean 0.326 mg/kg ww), Five (5) Walleye tissue samples were above the MECP sensitive population and Health Canada consumption guidelines for total mercury (0.5 mg/kg ww); however, no samples exceeded the general population consumption restriction (1.8 mg/kg ww). Methylmercury (0.172 mg/kg to 1.990 mg/kg ww; mean 0.997 mg/kg ww), exceeded the federal CCME wildlife tissue guidelines (0.033 mg/kg ww). Total arsenic ranged from 0.017-0.101 mg/kg ww (mean 0.043 mg/kg ww) below the CFIA guideline (3.5 mg/kg). One sample slightly exceeded the cobalt detection limit (<0.0040 mg/kg ww). Similarly, one Herman Lake Walleye had lead just above the detection limit (<0.010 mg/kg ww), while all other samples did not have detectable levels and were below the CFIA guideline (0.5 mg/kg).

Northern Pike

Fork Length ranged from 385 mm to 900 mm (mean 609 mm) and were 2-10 years of age (mean 5 years). Moisture ranged from 76.4% to 84.1% (mean 79.1%) and lipids <0.50% to 0.71% (mean 0.52%). Total mercury (0.162 mg/kg to 2.33 mg/kg ww; mean 0.671 mg/kg ww), half of sampled tissues exceeded the MECP sport-fish restriction criteria for both sensitive (0.5 mg/kg ww) and general consumers (1.8 mg/kg ww). Northern Pike from Herman Lake had substantially higher methylmercury concentrations than other sampled tissues throughout June and September (2025), with values ranging from 0.617 mg/kg ww to 16.800 mg/kg ww (mean 2.968 mg/kg ww). All Northern Pike samples exceeded the CCME wildlife tissue guideline (0.033 mg/kg ww). Cobalt was detected in a single (1) sample above the detection limits (<0.0040 mg/kg ww). Total lead was not detected (<0.010 mg/kg ww). Total arsenic ranged from 0.018 mg/kg to 0.115 mg/kg ww (mean 0.038 mg/kg ww), below the CFIA guideline (3.5 mg/kg).

Conclusions for September

September fish tissue results showed moisture ranging from approximately 76–85% and lipid content from <0.50–3.81%, reflecting typical late-season muscle composition following summer feeding. Although lipid levels were slightly higher than those in spring, tissues remained lean and moisture levels were similar. Due to this result seasonal tissue composition had minor influences on wet weight metal concentrations. Patterns of bioaccumulation were primarily driven by trophic position and age.

Conclusions for Fish Tissue and Bioavailability

Fish tissue results suggest that mercury, particularly methylmercury, could be a metal for consumption concern in both Otto and Herman Lakes, while arsenic, cobalt, and lead concentrations were low or non detect. Methylmercury is the most bioavailable form of mercury in freshwater systems and readily biomagnifies through aquatic food webs. Consistent with this process, mercury concentrations increased with trophic level, fish size, and age. Northern Pike, the top predatory species sampled, exhibited the highest mercury and methylmercury concentrations in both lakes, while lower trophic species such as White Sucker and Lake Whitefish showed comparatively lower concentrations.

The presence of methylmercury across multiple species suggests active mercury transformation processes, including microbial methylation in lake sediments, enabling mercury to enter aquatic food webs through benthic organisms and trophic transfer. Seasonal conditions and biological productivity may also influence mercury availability and uptake. Tissue composition analysis demonstrated moisture contents ranging from approximately 70–85% with generally low lipid concentrations (<2%), suggesting variations in lipid content were unlikely to have significantly influenced mercury concentrations, as mercury primarily binds to muscle proteins rather than lipids.

Overall, fish tissue results from Otto and Herman Lakes showed similar bioaccumulation patterns, with mercury concentrations increasing with trophic level and highest values observed in predatory species consistent with regional conditions. Herman Lake generally exhibited greater variability and higher maximum mercury concentrations, particularly in Northern Pike, where several samples exceeded both sensitive and general fish consumption guidelines compared to Otto Lake. Lower trophic species in Herman Lake also tended to show slightly higher mean mercury concentrations compared to Otto Lake. In contrast, Otto Lake results were more consistent across species, with mercury concentrations generally lower and fewer exceedances, while isolated elevated lead detections were only observed in Herman Lake and appear to be sample-specific rather than indicative of widespread contamination.

3.4.3 Fish Tissue Compared to Previous Programs

Mercury & Methylmercury in Fish Tissue

Across all available monitoring programs, total mercury concentrations in Northern Pike from Herman Lake have remained variable and elevated, over time (SLR, 2014; Minnow, 2017; Wood, 2022; WSP, 2023). Earliest available data (2012) reported a mean concentration of 1.25 mg/kg wet weight (wwt; n=2). Subsequent monitoring recorded mean concentrations of 0.604 mg/kg wwt in 2016 (n=7), 0.353 mg/kg wwt in 2022 (n = 6), 0.515 mg/kg wwt in 2023 (n = 12), and 0.671 mg/kg wwt in 2025 (n=16). Although interpretation of the 2012 results was limited by small sample sizes, more robust recent datasets showed that mercury concentrations in Northern Pike from Herman Lake continue to occur at or above the 0.5 mg/kg wwt screening benchmark commonly applied for fish consumption guidance (e.g., Health Canada; SLR, 2014; Minnow, 2017; Wood, 2022; WSP, 2023).

Previous investigations conducted by G3 and others have documented elevated concentrations of metals (including mercury), nutrients, and related parameters in numerous regional waterbodies, including systems located well beyond the influence of current Magino mining activities (G3, 2020; MacLeod *et al.*, 2016; Depew, 2013; Lockhart *et al.*, 2000; Bodaly, 1993). These patterns were generally attributed to a combination of natural geological processes (including erosion and weathering of mineralized bedrock), legacy forestry and mining activities, and long-range atmospheric deposition (G3, 2020; Couillard, 2008; ECCC, 2013).

During pre-operational baseline studies for Magino, exceedances of established tissue guidelines for mercury and arsenic were also observed and were interpreted as reflecting pre-existing regional conditions rather than project-related effects (Wood, 2022; WSP, 2023). Previous studies conducted by the Ontario Ministry of the Environment, G3 (2020, including dated core studies), and other researchers have similarly reported elevated mercury and metal concentrations in fish tissue from hundreds of lakes across the Canadian Shield (Lockhart *et al.*, 2005; Depew, 2013; ECCC, 2017; G3, 2020; G3, 2021). Collectively, this data provided useful regional context and will serve as comparative baseline information for surrounding waterbodies and subsequent studies.

Arsenic, Lead, & Cobalt

Arsenic, lead, and cobalt in fish tissues from Otto and Herman Lakes have historically been found at low levels, often at or close to laboratory detection limits across species (SLR, 2014; Wood, 2022; WSP, 2023). Results from the 2025 sampling programs demonstrated a similar overall pattern. Lead remained generally low. Most samples were near detection limits, with only a few higher results (e.g., June 2025 White Sucker HLWS03 and a small number of low-level detections in the fall). Results are similar to occasional elevated lead values noted in earlier monitoring programs. Overall, comparisons with past studies suggest arsenic, lead, and cobalt in fish tissue have not changed substantially over the time of study. Mercury and methylmercury continue to be metals of concern.

3.5 QA/QC RESULTS

The QA/QC results for sediment, algae, and fish tissue are provided in Appendices 3–5 and summarized in this section. Overall, the sample duplicate results indicate that the data generated by this program is of acceptable quality and sufficient to meet the objectives of the study.

3.5.1 Field QA/QC

Sediment and algae samples were obtained following established protocols. Two (2) field duplicates were collected for sediment, and one (1) duplicate for chlorophyll-a in algae samples, representing 14% and 8% of samples collected, respectively.

Relative Percent Difference (RPD) for sediment duplicate samples slightly exceeded Data Quality Objectives (DQOs, duplicate limits) for sand, silt (0.0312 mm-0.004mm), silt (0.063 mm-0.0312mm) and clay were exceeded (Table 3.11). RPD for sediment duplicate samples exceeded DQOs for Total Carbon (TC; 24%), Total Organic Carbon (TOC; 23%), and Total Kjeldahl Nitrogen (TKN; 21%). All exceedances occurred at station HL-B-IN (DUP1). Overall results represent an acceptable level of field sampling and analytical precision for sediment quality completed in 2025. There were no DQOs for chlorophyll a.

Table 3.11: Duplicate Sediment Samples Exceeding DQO% RPD

Type	Parameter	Stations	RPD	DQO
Particle Size	Sand (0.125mm - 0.063mm)	HL-B-IN	84%	Diff < 5%
	Silt (0.0312mm - 0.004mm)	HL-B-IN	7%	Diff < 5%
	Silt (0.063mm - 0.0312mm)	HL-B-IN	9%	Diff < 5%
	Clay (<0.004mm)	HL-B-IN	29%	Diff < 5%
Organic / Inorganic Carbon	Total Carbon (TC)	HL-B-IN	24%	20%
	Total Organic Carbon (TOC)	HL-B-IN	23%	20%
Anions & Nutrients	Total Kjeldahl Nitrogen (TKN)	HL-B-IN	21%	20%

3.5.2 Laboratory QA/QC

ALS Environmental (Thunder Bay, ON) conducted laboratory analysis on collected sediment, algae, and fish tissue samples. ALS QA/QC included calibration checks, method blanks, matrix spikes, duplicates, and laboratory control samples (standard from secondary source) and testing of Certified Reference Material (CRM). Laboratory QA/QC results for sediment quality, algae and fish tissue are presented in Appendix 3, 4, and 5.

Taxonomic QA/QC included assessments of sorting efficiency, abundance estimates and verification of taxonomic identification.

Fish ageing analyses included a sub-set of ageing structures examined by up to three (3) independent readers.

4.0 SUMMARY

The 2025 monitoring results indicate that sediment quality, algal communities, and fish populations in Otto and Herman lakes remain consistent with expected ecological conditions for northern boreal lake systems. No mine-related impacts were detected, and most parameters remained within guideline thresholds or below levels associated with probable biological effects. Interpretation of results should be considered within the context of ongoing multi-year environmental monitoring programs. The following is a summary of 2025 program results:

Sediment Quality (Otto & Herman Lakes)

Parameter	Key Observations 2025	Guidelines/ Thresholds	Notes
Texture / Physical	Silt-dominated; Otto Lake saw a shift from 2022 sand-dominated sediments; high moisture (88–96.6%)	NA	Otto Lake had localized sulphurous odor, indicating reducing conditions
pH	5.50–6.76 (slightly acidic)	NA	Consistent with 2022 results
Organic Carbon (TOC)	Elevated; exceeded PSQG-LEL at all stations, SEL at some	PSQG-LEL / SEL	Naturally enriched organic sediments
Nitrogen (TKN)	Exceeded guideline at multiple stations	PSQG thresholds	NA
Metals	Generally, below adverse effect levels; some exceedances: Otto Lake – Cu & P; Herman Lake – As, Cd, Mn, Ni, Cu, P.	PSQG / CCME guidelines	All < PEL; AVS testing suggests limited bioavailability

Water Quality & Algal Communities

Parameter	Jun 2025	Sept 2025	Notes
Temperature (°C)	17–20	15–19	Otto slightly warmer
pH	9.55–10.81	7.91–8.36	June values exceeded guidelines; seasonal decline observed
Dissolved Oxygen (mg/L)	9.16–10.32	5.30–9.50	Supports aquatic life; lowest at deep Herman Lake
Conductivity (µS/cm)	136–156	Otto Lake up to 414	May reflect seasonal/operational influences
Chlorophyll-a (µg/L)	13.4–17.7; max 172 at OL-250	1.13–2.71	Moderate productivity, seasonal variation
Algal Composition	June – diatoms dominate	Sept – chrysophytes in Otto, diatoms in Herman	Diversity stable; taxa richness 17–31, Simpson 0.81–0.89

Fish Populations

Metric	Observations	Notes
Species Richness	Multiple species present (Northern Pike, Walleye, Lake Whitefish, White Sucker)	NA
Abundance	298 total; Herman 148, Otto 122, Smithy 28	CPUE highest in June
Population Structure	Balanced size/age distributions	Recruitment evident; stable populations
Health Indicators	Fecundity, GSI, HSI, condition factors within expected ranges	Healthy populations

Fish Tissue Bioaccumulation

Metric	Observations	Guidelines/Notes
Arsenic, Cobalt, Lead	Low / below detection limits	Below CFIA guidelines
Total Mercury	Generally, <0.5 mg/kg; some predatory fish > sensitive threshold	0.5 mg/kg (sensitive) / 1.8 mg/kg (general)
Methylmercury	Exceeded CCME wildlife tissue guideline (0.033 mg/kg) in all species	Reflects trophic bioaccumulation; predatory fish highest
Patterns	Northern Pike & Walleye highest; Lake Whitefish & White Sucker lower	Historical monitoring consistent; likely natural geological sources

OVERALL RESULTS SUMMARY

- Sediments:** Within expected ecological ranges; limited guideline exceedances; no mine-related impacts observed.
- Algae & Water Quality:** Seasonal variation observed; dissolved oxygen and temperature support aquatic life.
- Fish Populations:** Multi-species communities healthy; recruitment and condition indicators normal.
- Fish Tissue:** Mercury/methylmercury elevated in predatory species, consistent with trophic position and historical trends; other metals low.
- Compliance:** 2025 monitoring met IAAC EA Decision Statement biological requirements.

It should be emphasized that while this program met regulatory monitoring requirements, they should be interpreted in the context of natural variability and ongoing multi-year environmental monitoring.

5.0 REFERENCES

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6.0 GLOSSARY

Abundance	The count of all individuals (i.e., organisms) in a sample or per unit of sampling area (same as density).
Acute	Within a short period, not usually a significant portion of the life span (e.g., <4 days for fish); an acute toxic effect would be induced and observable within a short period.
Aerobic	Relating to the presence of oxygen or requiring oxygen (cf. Anaerobic).
Algae	A group of simple non-flowering plants that include seaweed and many chlorophyll-containing single-celled forms, mostly aquatic.
Ammonia (NH₃) / Ammonium (NH₄⁺)	Ammonia is a naturally occurring compound required by most organisms for protein synthesis and is a waste product of animal, fish, and microbial metabolism. Ammonium is derived from ammonia by combination with a hydrogen ion, present in solutions of ammonia and in salts derived from ammonia.
Anaerobic	Relating to the absence of free and bound oxygen or not requiring oxygen to live; often used to refer to metabolic pathways that do not use oxygen. In anaerobic respiration, nitrate (NO ₃ ⁻), sulfate (SO ₄ ²⁻), sulphur (S), metals such as iron (Fe ³⁺) and manganese (Mn ⁴⁺), or even CO ₂ can accept electrons. Thus, anaerobic respiration uses inorganic chemicals as electron acceptors instead of oxygen. By-products of anaerobic respiration can include nitrogen gas (N ₂), hydrogen sulfide (H ₂ S), reduced forms of metals, methane (CH ₄) or lactic acid (CH ₃ CHCO ₂ H), depending on the electron acceptor. See Anoxic.
Analyte	A substance or chemical constituent undergoing analysis.
Anion	A negatively charged ion, e.g., NO ₃ ⁻ , NO ₂ ⁻ (cf. Cation).
ANOVA	Analysis of variance; a statistical test for comparing means from three or more groups or variables for statistical significance.
Anoxic	Without free oxygen and, generally, dissolved oxygen <0.5 mg/L in an environment. Organically enriched bottom sediments are often hypoxic as a result of increased oxygen demand through bacterial decomposition of organic matter. Anoxic refers to an extreme form of hypoxic condition (hypoxia). See Anaerobic and Hypoxic.

Anthropogenic	Human-caused.
Benthic	Relating to or occurring at the bottom of a body of water.
Benthic Invertebrates	Animals without a backbone, living on or in the bottom of a water body (ocean, sea, lake, river, etc.).
Benthos	See Benthic Fauna and Benthic Invertebrates.
Bioturbation	The stirring or mixing of sediment by organisms, especially by burrowing, boring, or eating and excreting sediment grains. Bioturbation aids the penetration of air and water and loosens sediment.
Biota	The plant, animal, and microbial life in a region.
Canadian Association for Laboratory Accreditation (CALA)	Not-for-profit Canadian laboratory accreditation body that employs rigorous international standards and evaluations to ensure analytical quality assurance and quality control (QA/QC) are maintained.
Chain-of-Custody (CoC)	Process of ensuring and proving documentation of proper sample identification and handling from the time of collection to the receipt of laboratory results.
Clay	Fine particles of sediment, defined as particles <4 µm in size.
Conductivity	Measuring the water's ability to conduct electricity. Conductivity increases with increasing amount and mobility of ions. A higher conductivity value indicates that there are more chemicals dissolved in the water.
Condition Factor (k)	Numerical measure of a fish's health and well-being, reflecting its weight relative to its length.
Consumer	An animal that feed on other animals and/or plants to fulfill its nutritional requirements; herbivores (eat plants), carnivores (eat animals) and omnivores (eat both plants and animals) are different types of consumers.
Density	Number of benthic invertebrate individuals in a given area (e.g., organisms per m ²).
Detection Limit (DL)	Lowest analyte concentration for which there is a stated probability (usually 95% or 99%) of detection.
Diversity	See Biological Diversity.

Diversity Index	An index used to measure biological diversity, taking into account how many species and how evenly the individuals are distributed among the species.
DO	Dissolved oxygen: referring to free, non-compound oxygen (O ₂) that are mixed in water and available to aquatic organisms for respiration, typically measured in milligrams/litre (mg/L), and widely used as a criterion for water quality.
Dominant species	One of a small number of species which dominate in a community.
ECCC	Environment and Climate Change Canada
Echinoid	An echinoderm in the class Echinoidea, such as sea urchin or sand dollar.
Effect	In the context of the EEM program, an effect is a statistically significant difference in a biological endpoint between measurements taken from an exposure area (or treatment) and a reference area (or control).
Effluent	Liquid waste or sewage discharged into the environment. In this report, effluent refers to final wastewater discharged from industry into natural waters and contains solid and dissolved constituents from the mine process.
Endpoint	A variable that indicates the termination of a test, and also a measurement or value characterizing results of the test (e.g., LC ₅₀). In the context of the EEM program, an endpoint also refers to a biological measurement of fish or a calculated index of benthic invertebrate community.
Environment	The sum total of all surroundings of a living organism in a particular geographical area, including natural conditions and other living things.
Evenness	A measure of how evenly individuals are distributed among different species or taxa, typically measured by Pielou's Evenness Index and Simpson's Evenness Index.
Exposure Area	An area where fish and benthic invertebrates are exposed to effluent; this area may extend through a number of receiving environments and contain a variety of habitats.
Fauna	All of the animals of any particular region, habitat, or time.
Food Chain	A series of the transfer of food energy from one organism to another in an ecological community. A food chain begins with a producer, usually a green plant or alga that creates its own food through photosynthesis.

Gravel	Sediment particles >2 mm in size.
Hypoxic	Containing low oxygen; generally, dissolved oxygen <2 mg/L; organically enriched bottom sediments can become hypoxic as a result of increased oxygen demand through bacterial decomposition of organic matter. See Anoxia.
Inorganic	Relating to non-living matter or chemical compounds that do not contain carbon (cf. Organic).
Ion	An atom or molecule with a net electric charge due to the loss or gain of one or more electrons.
Lethal	Causing death, or sufficient to cause death.
Matrix (plural Matrices)	Medium or substance which is examined and/or tested to enable an assessment of biological, chemical, or physical conditions or properties.
Method Blank	A sample (often distilled water) that does not normally contain the analyte of interest but is processed through all steps of the analytical procedure with samples containing the analyte of interest.
mg/L	Milligrams of a substance in one litre of solution; equivalent to parts per million (ppm).
Multivariate Analysis	Statistical procedure for analysis of data involves more than one variable.
Microbe	A microscopic organism, such as a bacterium and virus; especially a pathogenic bacterium.
Microorganism	Same as Microbe. In many situations, though, microbes refer to just the harmful microorganisms (the ones that cause disease), whereas microorganisms refer to all microscopic life.
Non-Point Discharge	Discharge arising from several unidentifiable locations. (cf. Point Discharge).
Nutrient	A substance (element or compound) that provides nourishment essential for growth, development and functioning of life.
Nutrient Enrichment	Excessive concentrations of nutrients (especially nitrogen and phosphorus) in the body of water.
Organic	Referring to or derived from living matter; in chemistry, referring to compounds that contain carbon (cf. Inorganic).

pH	A logarithmic measure of hydrogen ion (H ⁺) concentration; a scale from 0 to 14, with pH 7 representing neutral, pH below 7 acid and pH above 7 alkaline (or basic) conditions. Soft waters typically range from pH 6 to 7.5; hard waters are close to pH 8; pH can influence toxicity of chemicals in effluents.
Photosynthesis	The process by which green plants and some other organisms use sunlight to synthesize organic matter from carbon dioxide and water and generates oxygen as a byproduct.
Point discharge	Discharge arising from a single, identifiable source, e.g., an outfall (cf. Non-Point Discharge).
Ponar Grab	A type of grab sampler with a frame, designed to obtain an undisturbed bottom sediment sample, typically with a sampling area of 0.052 m ² .
ppm	mg/kg or µg/g
Primary Producer	An organism (any plant and many microorganisms) that can convert light energy or chemical energy into organic matter.
Quality Assurance (QA)	A system for ensuring a desired level of quality in the development, production, or delivery of products and services.
Quality Control (QC)	A system for verifying and maintaining a desired level of quality in an existing product or service to meet the requirements of the client or customer.
Receiving Water	A body of water into which wastewater or effluent is discharged.
Sand	Sediment particles <2 mm to >63 µm in size.
Silt	Sediment particles <63 µm to >4 µm in size.
Site	A station or precise location where collection of data and samples is carried out.
Sonde	A type of in situ water quality sensor and data recorder.
Standard Operating Procedure (SOP)	A written document detailing methods of analysis, operations, or action whose techniques and procedures are thoroughly prescribed and that is accepted as the method for performing certain routine or repetitive tasks.
Station	A defined location within study areas where field replicate samples are collected.
Sublethal	Detrimental to an organism, but insufficient to cause death within the test period.

Sulphate (SO_4^{2-})	Sulphate is a salt of sulphuric acid; referring to both the (SO_4^{2-}) anion and to any compound that contains this ion.
Sulphide (S^{2-})	A chemical compound containing a sulphur ion. (S^{2-})
Taxon (plural Taxa)	A unit of scientific classification (i.e., taxonomy) of organisms; the major divisions are Kingdom, Phylum, Class, Order, Family, Genus, and Species.
Taxonomy	A branch of biology specializing in identification, naming and classification of organisms.
TOC	Total organic carbon: the total amount of carbon found in organic compounds.
Total Kjeldahl Nitrogen (TKN)	The sum of all particulate and soluble organic nitrogen and ammonia.
Total Nitrogen (TN)	The sum of all forms of organic and inorganic nitrogen in water (i.e., TKN + nitrate + nitrite).
Toxicity	The inherent potential or capacity of a material to negatively affect an organism under certain conditions.
Tracer	A substance that can be used to indicate the presence of effluent; the tracer concentration should be high in effluent and low in the receiving environment, detectable at each station, and variable between stations therefore showing dilution with distance from the diffuser.
TSS	Total suspended solids: total amount of small solid particles suspended in water; measured as the oven dry weight of solids, in mg/L, that have been collected on a standard filter paper.
Turbidity	A measure of the degree to which the water loses its transparency due to the presence of suspended particulates.

Units of Mass

Units of Mass	Abbreviation	No. of Grams
Kilogram	kg	10^3 (thousand)
Gram	g	1 (one)
Milligram	mg	10^{-3} (thousandth)
Microgram	μg	10^{-6} (millionth)
Nanogram	ng	10^{-9} (billionth)
Picogram	pg	10^{-12} (trillionth)
Femtogram	fg	10^{-15} (quadrillionth)
Attogram	ag	10^{-18} (quintillionth)

APPENDICES

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APPENDIX 1

Additional Tables

TABLE A3.1	Detailed Sediment Description in Otto and Herman Lake (2025)
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TABLE A3.6	Otto and Herman Lake Non-Lethal (Biopsy) Fish Tissue Results June (2025)
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Table A3.1 Detailed Sediment Description in Otto and Herman Lake (2025)

Station	Date	Time	Depth (m)	Surface Colour	Distance, top of sediment (cm)	Subsurface Colour	Consistency	Texture	Smell	Homogenous Throughout	Additional Notes
OL-100	16-Sep	12:40	2.7	Dark brown	6	Dark brown	Thick like pudding	Silky	Rotten egg	Yes	
OL-250	16-Sep	13:00	1.6	Dark brown	6	Dark brown	Thick like pudding	Silky	Rotten egg	Yes	Filled with Vegetation
OL-B	16-Sep	13:16	3.4	Dark brown	0	Dark brown	Thick like pudding	Silky	Rotten egg	Yes	
OL-F	16-Sep	13:29	0.8	Dark brown	3	Dark brown	Thick like pudding	Silky, Gritty	Rotten egg	Yes	Rotten egg smell not as strong
HL-REF	16-Sep	8:48	1.8	Dark brown	0	Dark brown	Thick like pudding	Gritty	Odorless	Yes	Debris, leaves, twigs present
HL-B-IN	16-Sep	11:07	2.5	Brown green	5	Brown green	Thick like pudding; Gel-like	Silky	Odorless	Yes	
HL-100-07	16-Sep	10:45	3.8	Brown green	10	Brown green	Thick like pudding	Silky, Gritty	Odorless	Yes	
HL-100-09	16-Sep	10:30	8.1	Brown green	1	Brown green	Thick like pudding	Silky, Gritty	Odorless	Yes	
HL-100-11	16-Sep	11:08	5.5	Brown green	8	Brown green	Thick like pudding	Gritty	Odorless	Yes	
HL-250-07	16-Sep	14:19	12.2	Dark brown	0	Dark brown	Thick like pudding, Falls apart into fluffy pellets	Silky, Gritty	Odorless	Yes	
HL-250-09	16-Sep	9:24	17.5	Dark brown	5	Dark brown	Thick like pudding	Gritty	Odorless	Yes	
HL-250-11	16-Sep	14:36	9	Dark brown	9	Dark brown	Thick like pudding	Gritty	Odorless	Yes	Sandy
HL-500-07	16-Sep	15:00	21.1	Dark brown	6	Dark brown	Thick like pudding	Silky, Gritty	Odorless	Yes	
HL-500-11	16-Sep	15:53	6.7	Dark brown	5	Dark brown	Thick like pudding	Silky, Gritty	Odorless	Yes	

Table A3.2 Sediment Guideline Comparison for Otto and Herman Lake Sediments (2025)

Parameter	Unit	MDL	Guideline				Station													
			CSQG / ISQG	CSQG -PEL	PSQG -LEL	PSQ G -SEL	OL-B	OL-100	OL-250	OL-F	HL-B-IN	HL-REF	HL-100-07	HL-100-11	HL-250-11	HL-250-09	HL-250-07	HL-500-07	HL-500-11	HL-100-09
Moisture	%	0.25					93	96.6	93.35	69	91.8	91.1	62.4	66.8	28	89.7	91.3	92.9	88	94.3
pH	pH	0.1					6.33	6.51	6.545	6.76	6.665	5.50	6.41	5.69	6.44	6.62	5.92	5.56	5.98	6.35
TN	%	0.02					2.07	2.57	1.65	0.162	1.225	1.43	0.213	0.203	0.042	1.03	1.02	1.4	1.06	1.15
TKN	ug/g	200			550	4800	22,800	29,500	18,600	1,830	14,300	15,700	2,340	2,320	520	10,600	11,500	15,900	12,000	13,400
Orthophosphate	ug/g	0.08					9.16	39.6	1.185	<0.256	0.9695	<0.904	<0.213	<0.238	<0.113	<0.787	<0.926	8.82	0.815	3.56
IC	%	0.05					0.314	0.392	0.3235	0.061	0.2305	0.326	0.307	0.08	0.124	0.304	0.234	0.376	0.287	0.19
TC	%	0.05					24.6	27.1	20.65	3.24	16.45	25.7	3.17	3.58	3.72	11.4	12.9	17.7	16.6	16.8
TOC	%	0.05			1	10	24.3	26.7	20.35	3.18	16.2	25.4	2.86	3.50	3.60	11.1	12.7	17.3	16.3	16.6
Aluminum	ug/g	50					8910	5240	8175	2410	4825	9190	3970	4260	2570	12400	9270	15800	11100	6450
Antimony	ug/g	0.1					<0.10	0.16	<0.1	<0.10	<0.1	0.24	<0.10	<0.10	<0.10	<0.10	0.26	<0.10	<0.10	<0.15
Arsenic	ug/g	0.1	5.9	17	6	33	1.16	1.88	1.33	0.72	1.085	12.7	1.71	2.11	2.47	1.81	9.73	3.09	3.05	1.27
Barium	ug/g	0.5					41.5	33	59.85	15	33.6	116	21.5	24.5	10.5	122	71.6	286	61.8	40.1
Beryllium	ug/g	0.1					0.41	0.27	0.345	0.1	0.24	0.39	0.11	0.13	<0.10	0.53	0.32	0.63	0.34	0.21
Bismuth	ug/g	0.2					<0.20	<0.29	<0.2	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.29
Boron	ug/g	5					7.7	13.4	5.05	<5.0	<5.0	5.2	<5.0	<5.0	<5.0	9.2	6.5	8.1	6.1	7.4
Cadmium	ug/g	0.02	0.6	3.5	0.6	10	0.529	0.487	0.494	0.115	0.2125	0.949	0.138	0.121	0.039	0.619	0.766	0.978	0.418	0.335
Calcium	ug/g	50					12600	13100	11800	3180	7425	17300	9110	4470	2860	10600	10000	11300	10600	9170
Chromium	ug/g	0.5	37.3	90	26	110	16.2	11.7	12.4	4.98	11.45	21.5	20	11.6	10.5	24.6	18.3	20.8	14.9	13.4
Cobalt	ug/g	0.1					6.33	4.74	4.255	1.42	2.945	11.6	3.89	3.38	3.18	11.6	5.42	8.4	7	4.54
Copper	ug/g	0.5	35.7	197	16	110	60.5	65.9	38.1	6.6	49.15	63.4	12.5	8.35	3.25	60.1	32.7	72.0	31.6	51.6
Iron	ug/g	50					6270	4090	5290	3750	7390	18400	7360	6990	6630	10600	11300	12900	13300	5970
Lithium	ug/g	0.5					3.21	5.71	3.255	3.07	2.13	22.3	4.1	3.46	1.3	3.33	24	4.64	5.1	2.37
Lead	ug/g	2	35	91.3	31	250	7.3	3.8	4.2	2.8	4.6	7.8	4.7	5.1	2.3	7.4	5.5	4.6	6.5	3.8
Magnesium	ug/g	20					2520	1610	1635	858	1780	4570	5700	2360	1520	4180	2970	2520	3930	1910
Manganese	ug/g	1			460	1100	178	120	142.5	50.2	209.5	1,240	193	318	110	350	491	2,070	648	185
Mercury	ug/g	0.005	0.17	0.486	0.2	2		0.156		0.021		0.162							0.085	
Molybdenum	ug/g	0.1					2.86	4.96	1.735	1.59	2.485	0.91	0.25	0.26	0.35	1.59	1.26	2.45	0.96	2.84
Nickel	ug/g	0.5			16	75	14.1	12.5	9.65	3.64	12.5	18	11.4	6.29	5.1	17.4	13	15.4	10.8	14.6
Phosphorus	ug/g	50			600	2000	734	884	580.5	389	351.5	680	554	784	507	989	808	1770	819	605
Potassium	ug/g	100					460	380	395	220	445	430	480	480	210	910	650	710	500	560
Selenium	ug/g	0.2					1.74	1.83	1.315	<0.20	0.945	2.1	0.23	0.23	<0.20	1.26	1.19	1.87	1.1	1.29
Silver	ug/g	0.1					<0.10	<0.15	<0.1	<0.10	<0.1	<0.10	<0.10	<0.10	<0.10	0.11	<0.10	0.16	<0.10	<0.15
Sodium	ug/g	50					230	216	177	103	186	96	145	159	95	263	167	149	235	160
Strontium	ug/g	0.5					104	120	95.85	30.6	63.2	107	26.3	37.1	19.9	148	85.3	114	116	86.1
Sulfur	ug/g	1000					6700	8100	6000	2400	7250	13200	1000	<1000	2100	2900	6800	3400	3100	4500
Thallium	ug/g	0.05					0.203	0.239	0.1755	0.067	0.1485	0.185	0.073	0.088	<0.050	0.534	0.224	0.463	0.222	0.162
Tin	ug/g	2					<2.0	<2.9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.9
Titanium	ug/g	1					211	161	133.5	256	285	291	503	451	331	315	261	152	333	256
Tungsten	ug/g	0.5					<0.50	<0.73	<0.5	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.55	<0.50	<0.74
Uranium	ug/g	0.05					4.3	5.44	4.2	0.5	2.645	2.32	0.666	0.694	0.488	4.92	3.14	6.34	3.36	3.08
Vanadium	ug/g	0.2					15.9	13.1	21.7	6.81	15.5	30.7	16.5	14.6	12.1	39.1	24.4	55.4	26.4	17
Zinc	ug/g	2	123	315	120	820	67.4	57.7	60.75	15.1	35.05	105	23.5	29.2	12.9	86.9	71.4	113	76.2	44.7

Table A3.2 (Cont'd.)

Parameter	Unit	MDL	Guideline				Station													
			CSQG/ ISQG	CSQG- PEL	PSQG- LEL	PSQG -SEL	OL-B	OL- 100	OL- 250	OL-F	HL-B- IN	HL- REF	HL- 100-07	HL- 100-11	HL- 250-11	HL- 250-09	HL- 250-07	HL- 500-07	HL- 500-11	HL- 100-09
Zirconium	ug/g	1					1.5	1.8	1.05	1.3	3.35	2.2	2.4	1.2	<1.0	2	1.1	1.3	<1.0	1.5
Methylmercury	ug/g	0.05						<1.00		0.051		1.17								0.635

PSQG; Provincial Sediment Quality Guidelines for the protection and management of aquatic sediment quality in Ontario
CSQG (CCME); Canadian Council of Ministers of the Environment Canadian Sediment Quality Guidelines for the protection of aquatic life
FEQGs; Federal Environmental Quality Guidelines of the Government of Canada (no values)
LEL/Long term; Lowest Effect Level indicating concentration in the sediment that can be tolerated by the majority of benthic organisms.
SEL/ Short term; Severe Effect Level indicating a concentration in the sediment at which pronounced disturbance of the sediment-dwelling community can be expected.
PEL; Probable Effect Level is the level above which adverse effects are expected to occur frequently
MDL; Method Detection Limit provided by ALS Environmental, Thunder Bay, ON
'<' indicates that the reported concentration was less than the MDL
Green shaded values indicate concentrations that exceed the PSQG LEL
Gray shaded values indicate concentrations that exceed the PSQG SEL and LEL
Blue shaded values indicate concentrations that exceed the CCME ISQG
Orange shaded values indicate concentrations that exceed the CCME ISQG and PEL

Table A3.3 Sediment Particle Size in Otto and Herman Lake (2025)

Area	Station	Particle Size % (mm)				Depth (m)
		Gravel (>2.0)	Sand (2.0 – 0.063)	Silt (0.062 – 0.0039)	Clay (<0.004)	
Otto Lake	OL-B	<1.0	<1.0	90.7	9.0	2.7
	OL-100	<1.0	<1.0	91.8	7.6	1.6
	OL-250	<1.0	<1.0	86.6	12.0	3.4
	OL-F	<1.0	70.1	29.4	<1.0	0.8
	Mean	<1.0	18.3	74.6	7.40	
	Median	<1.0	1.0	88.5	8.30	
	Min	<1.0	1.0	29.4	1.00	
	Max	<1.0	70.1	91.8	12.00	
	St. Error	0.0	17.3	15.1	2.32	
	St. Dev	0.0	34.6	30.2	4.65	
Area	Station	Particle Size % (mm)				Depth (m)
		Gravel (> 2.0)	Sand (2.0 – 0.063)	Silt (0.062 – 0.0039)	Clay (<0.004)	
Herman Lake	HL-B-IN	<1.0	1.7	82.1	13.0	1.8
	HL-REF	<1.0	2.7	89.3	7.7	2.5
	HL-100-07	<1.0	22.6	72.5	1.9	3.8
	HL-100-09	<1.0	7.4	81.4	11.0	8.1
	HL-100-11	<1.0	52.9	45.4	1.4	5.5
	HL-250-07	<1.0	3.6	83.7	12.3	12.2
	HL-250-09	<1.0	<1.0	89.8	8.7	17.5
	HL-250-11	<1.0	91.9	7.2	<1.0	9.0
	HL-500-07	<1.0	<1.0	83.1	16.5	21.1
	HL-500-11	<1.0	6.3	82.9	7.6	6.7
	Mean	<1.0	19.1	71.7	8.1	
	Median	<1.0	5.0	82.5	8.2	
	Min	<1.0	<1.0	7.2	<1.0	
	Max	<1.0	91.9	89.8	16.5	
	St. Error	0	9.6	8.2	1.7	
	St. Dev	0	30.2	26.0	5.3	

Table A3.4 Acid Volatile Sulphides (AVS) & Simultaneously Extracted Metals (SEM) Otto and Herman Lake (2025)

Parameters (µg/g)	Stations			
	OL-100	OL-F	HL-REF	HL-500-11
Acid Volatile Sulphides (AVS)	<14.6	<5.0	32.1	<5.0
Cadmium-Extractable	1.32	<0.50	0.91	0.52
Copper-Extractable	12.7	1.9	25.8	20.2
Lead-Extractable	26.5	<4.0	19.8	11.5
Mercury-Extractable	<0.036	<0.010	<0.014	<0.010
Nickel-Extractable	3.4	<2.9	3.9	3.0
Zinc-Extractable	72.8	6.8	67.3	49.4
SEM/AVS Cadmium-Extractable	-	-	0.03	-
SEM/AVS Copper-Extractable	-	-	0.8	-
SEM/AVS Lead-Extractable	-	-	0.7	-
SEM/AVS Mercury-Extractable	-	-	0.00	-
SEM/AVS Nickel-Extractable	-	-	0.1	-
SEM/AVS Zinc-Extractable	-	-	2.10	-

Table A3.5: Fecundity by Age of Large Bodied Species Caught in Herman, Otto and Smithy Lake

Waterbody	Species	Sample ID	Weight (g)	Age	Fecundity
Herman Lake	Lake Whitefish	HLLWS20	548.85	8.00	11787
		HLLWS21	580.60	7.00	9337
		HLLWS29	861.83	10.00	11034
		HLLWS30	662.24	7.00	13543
		HLLWS36	480.81	7.00	9614
	Mean		626.87	7.80	11063
	Median		580.60	7.00	11034
	Minimum		480.81	7.00	9337
	Maximum		861.83	10.00	13543
	Standard Error		65.58	0.58	767
	Standard Deviation		146.64	1.30	1714
	Northern Pike	HLNPS10	1750.87	4.00	31453
		HLNPS17	5715.26	7.00	317550
		HLNPS37	1011.51	4.00	33277
		HLNPS58	929.86	4.00	21140
		HLNPS70	621.42	3.00	30111
	Mean		205.78	4.40	86706
	Median		1011.51	4.00	31453
	Minimum		621.42	3.00	21140
	Maximum		5715.26	7.00	317550
	Standard Error		945.72	0.68	57749
	Standard Deviation		2114.70	1.52	129130
	Walleye	HLWYS52	743.89	5.00	37213
	Mean		743.89	5.00	37213
	Median		743.89	5.00	37213
	Minimum		743.89	5.00	37213
	Maximum		743.89	5.00	37213
	Standard Error		-	-	NA
	Standard Deviation		-	-	NA
	White Sucker	HLWSS11	1759.94	N/A	46724
		HLWSS13	1719.12	4.00	113405
		HLWSS19	1619.33	6.00	36390
		HLWSS25	1329.03	6.00	31677
		HLWSS47	557.92	3.00	NA
		HLWSS48	839.15	4.00	22400
		HLWSS51	598.74	N/A	NA
		HLWSS72	1229.24	5.00	21019
	Mean		1206.56	4.67	45269

	Median		1279.14	4.50	34034
	Minimum		557.92	3.00	21019
	Maximum		1759.94	6.00	113405
	Standard Error		173.21	0.49	14165
	Standard Deviation		489.90	1.21	34697
Otto Lake	Lake Whitefish	OLLWS05	762.04	8.00	13448
		OLLWS09	526.17	6.00	15552
		OLLWS13	557.92	7.00	10323
		OLLWS16	730.28	8.00	17016
		OLLWS22	662.24	7.00	9062
		OLLWS37	480.81	5.00	3963
		OLLWS38	598.74	7.00	6056
		OLLWS41	1011.51	12.00	15647
		OLLWS45	680.39	6.00	7418
		OLLWS47	780.18	8.00	18544
		OLLWS49	748.43	9.00	13134
		OLLWS57	580.60	5.00	28635
		OLLWS67	712.14	8.00	15027
		OLLWS87	390.09	4.00	9630
	Mean		658.68	7.14	13104
	Median		671.32	7.00	13291
	Minimum		390.09	4.00	3963
	Maximum		1011.51	12.00	28635
	Standard Error		41.11	0.53	1664
	Standard Deviation		153.83	1.99	6227
	Northern Pike	OLNPS40	1610.25	4.00	15703
		OLNPS52	4762.72	5.00	465925
		OLNPS60	2299.71	3.00	76303
		OLNPS65	775.64	3.00	14296
		OLNPS69	889.04	2.00	15318
	Mean		2067.47	3.40	117509
	Median		1610.25	3.00	15703
	Minimum		775.64	2.00	14296
	Maximum		4762.72	5.00	465925
	Standard Error		727.49	0.51	87907
	Standard Deviation		1626.72	1.14	196566
	Walleye	OLWYS23	739.36	4.00	21745
		OLWYS28	521.63	4.00	37370
		OLWYS30	911.72	4.00	40989
		OLWYS56	979.76	4.00	40388
	Mean		788.12	4.00	35123

	Median		825.54	4.00	38879
	Minimum		521.63	4.00	21745
	Maximum		979.76	4.00	40989
	Standard Error		102.22	-	4529
	Standard Deviation		204.45	-	9058
	White Sucker	OLWSS34	1360.78	4	98990
		OLWSS53	1161.20	3	8418
		OLWSS86	1723.65	7	55784
	Mean		1415.21	4.67	54397
	Median		1360.78	4.00	55784
	Minimum		1161.20	3.00	8418
	Maximum		1723.65	7.00	98990
	Standard Error		164.63	1.20	26155
	Standard Deviation		285.15	2.08	45302
Smithy Lake	Northern Pike	NPSML03F25	997.90	3.00	16418
		NPSML08F25	870.90	4.00	12615
		NPSML09F25	857.29	3.00	10914
		NPSML10F25	929.86	3.00	10546
		NPSML12F25	1047.80	5.00	24836
		NPSML13F25	1306.35	12.00	3444
		NPSML14F25	839.15	3.00	14745
		NPSML15F25	594.21	4.00	8034
		NPSML18F25	938.94	4.00	13154
		NPSML19F25	734.82	2.00	12822
		NPSML20F25	970.69	3.00	15456
		NPSML21F25	721.21	4.00	13250
		NPSML22F25	762.04	-	9790
		NPSML23F25	1088.62	-	21793
		NPSML24F25	1365.31	-	17001
		NPSML25F25	825.54	-	10729
		NPSML27F25	1011.51	-	20771
	Mean		933.07	4.17	13901
	Median		929.86	3.50	13154
	Minimum		594.21	2.00	3444
	Maximum		1365.31	12.00	24836
	Standard Error		48.26	0.75	1276
	Standard Deviation		199.00	2.59	5261
	White Sucker	WSSML04F25	898.11	4.00	19024
		WSSML05F25	1038.73	3.00	32769
	Mean		968.42	3.50	25897
	Median		968.42	3.50	25897

	Minimum	898.11	34.00	19024
	Maximum	1038.73	4.00	32769
	Standard Error	70.31	0.50	6873
	Standard Deviation	99.43	0.71	9719

Table A3.6: Otto and Herman Lake Non-Lethal (Biopsy) Fish Tissue Results June 2025

Waterbody	Species	Sample ID	Age	Fork Length (mm)	Total Weight (g)	Arsenic (mg/kg wwt)	Cobalt (mg/kg wwt)	Lead (mg/kg wwt)	Mercury (mg/kg wwt)	Methylmercury (mg/kg wwt)	Moisture %	Lipids
Otto Lake	Lake Whitefish	OLLW03	3	280	68.00	0.0781	<0.0040	<0.0040	0.0974	0.331	69.9	0.87
		OLLW11	4	275	222.30	0.0646	<0.0040	0.0057	0.108	0.372	79.2	1.09
		OLLW12	3	290	308.40	0.0802	<0.0040	0.0047	0.0765	0.266	79.4	<0.50
		OLLW13	4	300	308.40	0.0746	<0.0040	<0.0040	0.0835	0.303	78.6	<0.50
		OLLW14	3	270	249.50	0.0662	<0.0040	<0.0040	0.0977	0.372	78.7	<0.50
	Mean		3	283	231.32	0.0727	0.0040	0.0045	0.0926	0.329	77.2	0.7
	Median		3	280	249.50	0.0746	0.0040	0.0040	0.0974	0.331	78.7	0.5
	Minimum		3	270	68.00	0.0646	0.0040	0.0040	0.0765	0.266	69.9	0.5
	Maximum		4	300	308.40	0.0802	0.0040	0.0057	0.108	0.372	79.4	1.1
	Standard Error		0	5	44.14	0.00314	0.0000	0.00032	0.00560	0.0204	1.8	0.1
	Standard Deviation		1	12	98.70	0.00702	0.0000	0.00071	0.0125	0.0457	4.1	0.3
	Northern Pike	OLNP01	4	500	830.10	0.0250	<0.0040	<0.0040	0.453	1.900	79.5	<0.50
		OLNP02	4	570	1469.60	0.0401	<0.0040	0.129	0.496	2.020	80.3	<0.50
	Mean		4	535	1149.85	0.0326	0.0040	0.067	0.475	1.96	79.9	0.50
	Median		4	535	1149.85	0.0326	0.0040	0.067	0.475	1.96	79.9	0.50
	Minimum		4	570	830.00	0.0250	0.0040	0.0040	0.453	1.90	79.5	0.50
	Maximum		4	610	1470.00	0.0401	0.0040	0.13	0.496	2.020	80.3	0.50
	Standard Error		0	35	319.75	0.00755	0.0000	0.063	0.0215	0.060	0.4	0.00
	Standard Deviation		0	49	452.19	0.0107	0.0000	0.088	0.0304	0.085	0.6	0.00
	White Sucker	OLWS04	5	410	966.20	0.0236	<0.0040	<0.0040	0.078	0.413	82.2	0.97
		OLWS05	6	450	1442.40	0.0292	<0.0040	<0.0040	0.158	0.714	79.3	<0.50
		OLWS06	3	360	594.20	0.0378	<0.0040	0.0061	0.0485	0.262	79.4	0.56
		OLWS07	3	330	512.60	0.0428	<0.0040	0.0041	0.0545	0.297	81.1	<0.50
		OLWS08	3	290	299.40	0.0687	<0.0040	0.0046	0.115	0.376	78.8	0.55
		OLWS09	7	350	598.70	0.101	<0.0040	0.0048	0.0836	0.277	78.4	0.52

Table A3.6. (Cont'd.)

Waterbody	Species	Sample ID	Age	Fork Length (mm)	Total Weight (g)	Arsenic (mg/kg ww)	Cobalt (mg/kg ww)	Lead (mg/kg ww)	Mercury (mg/kg ww)	Methylmercury (mg/kg ww)	Moisture %	Lipids
Otto Lake	White Sucker	OLWS10	5	410	925.30	0.0274	<0.0040	<0.0040	0.116	0.508	81.6	<0.50
	Mean		5	371	762.69	0.0472	0.0040	0.005	0.093	0.407	80.1	0.59
	Median		5	360	598.70	0.0378	0.0040	0.004	0.084	0.376	79.4	0.52
	Minimum		3	290	299.40	0.0236	0.0040	0.0040	0.049	0.262	78.4	0.50
	Maximum		7	450	1442.40	0.101	0.0040	0.061	0.158	0.714	82.2	0.97
	Standard Error		1	21	143.29	0.0106	0.0000	0.00032	0.015	0.0608	0.6	0.064
	Standard Deviation		2	55	379.11	0.0281	0.0000	0.00085	0.039	0.161	1.5	0.17
Herman Lake	Northern Pike	HLNP09	3	486	861.83	0.0264	<0.0040	<0.0040	0.264	0.986	79.0	<0.50
		HLNP11	3	529	993.40	0.0332	<0.0040	<0.0040	0.325	1.100	79.3	<0.50
		HLNP12	2	521	957.10	0.03	<0.0040	<0.0040	0.273	0.843	78.8	<0.50
	Mean		3	512	937.44	0.03	0.0040	0.0040	0.287	0.976	79.0	0.50
	Median		3	521	957.10	0.03	0.0040	0.0040	0.273	0.986	79.0	0.50
	Minimum		2	486	861.83	0.03	0.0040	0.0040	0.264	0.843	78.8	0.50
	Maximum		3	529	993.40	0.03	0.0040	0.0040	0.325	1.100	79.3	0.50
	Standard Error		0	13	39.23	0.002	0.0000	0.0000	0.0190	0.074	0.1	0.00
	Standard Deviation		1	23	67.95	0.003	0.0000	0.0000	0.033	0.129	0.3	0.00
	White Sucker	HLWS01	4	410	843.70	0.082	0.0140	0.025	0.243	N/A	41.0	NA
		HLWS02	7	490	1515.00	0.0378	0.0085	<0.010	0.297	N/A	55.8	NA
		HLWS03	8	430	1115.80	0.117	0.0094	1.59	0.603	N/A	51.1	NA
		HLWS04	3	305	453.60	0.066	0.0067	<0.010	0.0782	N/A	54.9	NA
		HLWS05	9	450	1310.90	0.0797	0.0062	0.15	0.203	N/A	60.0	NA
		HLWS06	7	426	1120.40	0.0764	0.0082	0.065	0.266	N/A	63.5	NA
		HLWS07	3	291	453.60	0.044	0.0088	<0.010	0.0635	N/A	58.4	NA
		HLWS08	3	305	444.50	0.0347	<0.0040	<0.0040	0.0437	0.197	81.2	<0.50

Table A3.6 (Cont'd.)

Waterbody	Species	Sample ID	Age	Fork Length (mm)	Total Weight (g)	Arsenic (mg/kg ww)	Cobalt (mg/kg ww)	Lead (mg/kg ww)	Mercury (mg/kg ww)	Methylmercury (mg/kg ww)	Moisture %	Lipids
Herman Lake	White Sucker	HLWS10	3	324	861.80	0.0288	<0.0040	<0.0040	0.026	0.121	81.7	<0.50
	Mean		5	381	902.14	0.063	0.0078	0.21	0.20	0.159	60.8	0.50
	Median		4	410	861.80	0.066	0.0082	0.010	0.20	0.159	58.4	0.50
	Minimum		3	291	444.50	0.029	0.0040	0.0040	0.026	0.121	41.0	0.50
	Maximum		9	490	1515.00	0.117	0.0140	1.59	0.60	0.197	81.7	0.50
	Standard Error		1	25	131.91	0.010	0.0010	0.17	0.061	0.018	4.4	0.00
	Standard Deviation		2	75	395.73	0.029	0.0031	0.52	0.182	0.054	13.3	0.00

Table A3.7: Lethal Tissue Results for Otto and Herman Lake (Fall 2025)

Waterbody	Species	Sample ID	Age	Fork Length (mm)	Total Weight (g)	Arsenic (mg/kg ww)	Cobalt (mg/kg ww)	Lead (mg/kg ww)	Mercury (mg/kg ww)	Methylmercury (mg/kg ww)	Moisture %	Lipids
Otto Lake	Lake Whitefish	OLLWS1	7	340	621.42	0.06	0.0091	0.01	0.0781	0.459	78.3	1.09
		OLLWS2	6	325	498.95	0.086	<0.0040	0.017	0.125	0.384	76.4	1.36
		OLLWS3	7	335	544.31	0.092	<0.0040	<0.010	0.0793	0.495	78.9	0.55
		OLLWS4	8	370	671.32	0.062	<0.0040	<0.010	0.0845	0.368	75.9	1.3
		OLLWS5	8	388	762.04	0.188	<0.0040	<0.010	0.1	0.550	77.8	<0.50
		OLLWS6	9	420	979.76	0.075	<0.0040	<0.010	0.0844	0.449	75.3	0.83
		OLLWS7	4	305	358.34	0.093	<0.0040	<0.010	0.0936	0.684	80.4	<0.50
		OLLWS8	8	358	607.81	0.106	<0.0040	<0.010	0.123	0.615	78.5	2.44
		OLLWS9	6	337	526.17	0.075	<0.0040	<0.010	0.0632	0.394	78.8	<0.50
		OLLWS10	5	302	408.23	0.068	<0.0040	<0.010	0.0794	0.426	78.4	0.58
		OLLWS11	4	281	308.44	0.062	<0.0040	<0.010	0.0832	0.439	77.7	0.77
		OLLWS12	5	301	358.34	0.098	<0.0040	<0.010	0.0805	0.476	79.2	0.83
		OLLWS13	7	349	557.92	0.082	<0.0040	<0.010	0.0836	0.505	79.3	<0.50
		OLLWS14	7	339	521.63	0.047	<0.0040	<0.010	0.079	0.539	79.5	3.59
		OLLWS15	4	299	340.19	0.102	<0.0040	<0.010	0.0943	0.472	77.3	0.53
		OLLWS16	8	372	730.28	0.074	<0.0040	<0.010	0.0812	0.371	76.4	<0.50
		OLLWS17	8	375	748.43	0.079	<0.0040	<0.010	0.0885	0.321	79.0	<0.50
		OLLWS18	4	299	331.12	0.067	<0.0040	<0.010	0.0869	0.295	77.6	<0.50
		OLLWS19	8	386	920.79	0.12	<0.0040	<0.010	0.106	0.441	80.4	<0.50
		OLLWS22	7	362	662.24	0.058	<0.0040	<0.010	0.0538	0.231	73.6	<0.50
		OLLWS29	4	300	408.23	0.067	<0.0040	<0.010	0.08	0.468	78.7	0.69
		OLLWS31	8	385	798.32	0.051	<0.0040	<0.010	0.104	0.620	78.1	1.75
		OLLWS33	7	365	730.28	0.064	<0.0040	<0.010	0.0817	0.318	79.1	1.42
		OLLWS36	7	345	698.53	0.085	<0.0040	<0.010	0.0852	0.416	80.6	<0.50
		OLLWS37	5	300	480.81	0.092	<0.0040	<0.010	0.0632	0.418	80.2	0.88
		OLLWS38	7	342	598.74	0.08	<0.0040	<0.010	0.0917	0.433	77.0	0.9
		OLLWS39	7	370	789.25	0.09	<0.0040	<0.010	0.09	0.460	78.5	3.81
		OLLWS41	12	410	1011.51	0.138	<0.0040	<0.010	0.0813	0.459	77.8	1.09
		OLWSS43	9	418	1088.62	0.04	<0.0040	<0.010	0.139	0.704	79.1	2.45

Table A3.7 (Cont'd.)

Waterbody	Species	Sample ID	Age	Fork Length (mm)	Total Weight (g)	Arsenic (mg/kg ww)	Cobalt (mg/kg ww)	Lead (mg/kg ww)	Mercury (mg/kg ww)	Methylmercury (mg/kg ww)	Moisture %	Lipids
Otto Lake	Lake Whitefish	OLLWS45	6	350	680.39	0.10	<0.0040	<0.010	0.0776	0.433	80.2	0.55
		OLLWS46	4	285	358.34	0.077	<0.0040	<0.010	0.0805	0.433	80.0	0.8
		OLLWS47	8	370	780.18	0.109	<0.0040	<0.010	0.106	0.421	77.8	0.53
		OLLWS48	4	285	349.27	0.051	<0.0040	<0.010	0.11	0.563	81.2	<0.50
		OLLWS49	9	370	748.43	0.077	<0.0040	0.019	0.0715	0.349	77.0	<0.50
		OLLWS50	4	310	430.91	0.084	<0.0040	<0.010	0.0644	0.343	79.6	0.6
		OLLWS51	9	385	848.22	0.065	<0.0040	<0.010	0.0762	0.490	79.8	0.56
		OLWLS55	5	305	430.91	0.077	<0.0040	<0.010	0.136	0.695	79.2	<0.50
		OLWLS57	5	343	580.60	0.071	<0.0040	<0.010	0.153	0.919	80.1	<0.50
		OLWLS59	7	385	780.18	0.07	<0.0040	0.011	0.11	0.498	77.6	0.85
		OLWLS62	9	390	821.00	0.054	<0.0040	<0.010	0.123	0.500	79.8	<0.50
		OLWLS63	4	288	390.09	0.064	<0.0040	<0.010	0.0831	0.362	80.2	<0.50
		OLWLS64	4	311	430.91	0.078	<0.0040	<0.010	0.0817	0.299	78.0	0.94
		OLWLS67	8	375	712.14	0.098	<0.0040	<0.010	0.125	0.462	78.5	<0.50
		OLWLS68	4	295	362.87	0.082	<0.0040	<0.010	0.118	0.385	79.5	1.4
		OLLWS84	4	305	449.06	0.075	<0.0040	<0.010	0.0774	0.139	77.5	2.99
		OLLWS87	4	300	390.09	0.07	<0.0040	<0.010	0.0693	0.241	74.9	0.59
	Mean		6	342	600.12	0.080	0.0041	0.010	0.092	0.451	78.5	0.98
	Median		7	343	589.67	0.077	0.004	0.010	0.084	0.440	78.6	0.59
	Minimum		4	281	308.44	0.040	0.004	0.010	0.054	0.139	73.6	0.50
	Maximum		12	420	1088.62	0.188	0.009	0.019	0.153	0.919	81.2	3.81
	Standard Error		0.29	6	30.13	0.0037	0.000	0.000	0.0032	0.0200	0.2	0.12
	Standard Deviation		1.98	39	204.33	0.025	0.001	0.002	0.022	0.136	1.6	0.82
	Northern Pike	OLNPS40	4	565	1610.25	0.023	<0.0040	<0.010	0.521	2.340	77.4	<0.50
		OLNPS52	2	870	4762.72	0.067	<0.0040	0.016	1.1	7.380	79.1	<0.50
		OLNPS60	5	750	2299.71	0.047	<0.0040	<0.010	0.473	1.730	78.2	0.62
		OLNPS65	3	455	775.64	0.026	<0.0040	<0.010	0.49	1.580	78.1	<0.50
		OLNPS69	2	485	889.04	0.024	0.0067	<0.010	0.443	1.110	78.5	<0.50
		OLNPS70	2	538	1211.09	0.026	<0.0040	<0.010	0.302	1.350	76.8	<0.50
	Mean		3	611	1924.74	0.036	0.004	0.011	0.6	2.582	78.0	0.5
	Median		3	552	1410.67	0.026	0.004	0.010	0.5	1.655	78.2	0.5
	Minimum		2	455	775.64	0.023	0.004	0.010	0.302	1.110	76.8	0.50
	Maximum		5	870	4762.72	0.067	0.007	0.016	1.100	7.380	79.1	0.62
	Standard Error		0.52	67	610.90	0.007	0.000	0.001	0.1	0.975	0.3	0.02
	Standard Deviation		1.26	164	1496.40	0.018	0.001	0.002	0.3	2.387	0.8	0.05

Table A3.7 (Cont'd.)

Waterbody	Species	Sample ID	Age	Fork Length (mm)	Total Weight (g)	Arsenic (mg/kg ww)	Cobalt (mg/kg ww)	Lead (mg/kg ww)	Mercury (mg/kg ww)	Methylmercury (mg/kg ww)	Moisture %	Lipids
Otto Lake	Walleye	OLWYS20	4	389	680.39	0.033	<0.0040	<0.010	0.526	2.690	76.7	0.59
		OLWYS21	4	375	630.49	0.028	<0.0040	<0.010	0.495	2.230	83.0	<0.50
		OLWYS23	4	421	739.36	0.03	<0.0040	<0.010	0.437	2.160	76.0	<0.50
		OLWYS28	4	335	521.63	0.038	<0.0040	<0.010	0.402	2.230	78.1	<0.50
		OLWYS30	4	435	911.72	0.031	<0.0040	<0.010	0.435	2.860	79.4	0.86
		OLWYS35	4	385	721.21	0.036	<0.0040	<0.010	0.469	2.520	83.7	<0.50
		OLWYS54	4	395	748.43	0.029	<0.0040	<0.010	0.358	1.590	78.5	<0.50
		OLWYS56	4	450	979.76	0.032	<0.0040	<0.010	0.39	1.830	78.8	1.54
		OLWYS66	4	380	598.74	0.03	<0.0040	<0.010	0.423	1.390	80.0	1.71
		OLWYS85	2	315	399.16	0.039	<0.0040	<0.010	0.242	0.736	78.5	0.75
	Mean		4	388	693.09	0.033	0.0040	0.010	0.418	2.024	79.3	0.80
	Median		4	387	700.80	0.032	0.0040	0.010	0.429	2.195	78.7	0.55
	Minimum		2	315	399.16	0.028	0.0040	0.010	0.242	0.736	76.0	0.50
	Maximum		4	450	979.76	0.039	0.0040	0.010	0.526	2.860	83.7	1.71
	Standard Error		0.20	13	54.24	0.001	0.000	0.000	0.025	0.205	0.8	0.14
	Standard Deviation		0.63	42	171.51	0.004	0.000	0.000	0.079	0.648	2.5	0.46
	White Sucker	OLWSS24	3	470	1351.71	0.018	<0.0040	<0.010	0.077	0.602	82.6	<0.50
		OLWSS32	3	417	1170.27	0.044	<0.0040	<0.010	0.054	0.258	78.4	0.87
		OLWSS34	4	430	1360.78	0.05	<0.0040	<0.010	0.0908	0.694	84.9	0.7
		OLWSS42	2	350	671.32	0.053	<0.0040	<0.010	0.0477	0.271	79.2	0.65
		OLWSS44	4	440	1301.81	0.032	<0.0040	<0.010	0.111	0.681	82.0	0.54
		OLWSS53	3	405	1161.20	0.038	<0.0040	<0.010	0.0834	0.397	79.1	<0.50
		OLWSS58	3	380	911.72	0.054	<0.0040	0.011	0.0562	0.303	78.1	<0.50
		OLWSS61	3	395	1061.41	0.071	<0.0040	<0.010	0.0648	0.293	78.4	0.61
		OLWSS86	7	465	1723.65	0.022	<0.0040	<0.010	0.13	0.415	81.1	<0.50
	Mean		4	417	1190.43	0.04	0.004	0.010	0.079	0.435	80.4	0.6
	Median		3	417	1170.27	0.04	0.004	0.010	0.077	0.397	79.2	0.5
	Minimum		2	350	671.32	0.018	0.004	0.010	0.048	0.258	78.1	0.50
	Maximum		7	470	1723.65	0.071	0.004	0.011	0.13	0.694	84.9	0.87
	Standard Error		0.47	13	99.78	0.006	0.000	0.000	0.0092	0.059	0.8	0.04
	Standard Deviation		1.42	39	299.34	0.02	0.000	0.000	0.028	0.178	2.4	0.1

Table A3.7 (Cont'd.)

Waterbody	Species	Sample ID	Age	Fork Length (mm)	Total Weight (g)	Arsenic (mg/kg ww)	Cobalt (mg/kg ww)	Lead (mg/kg ww)	Mercury (mg/kg ww)	Methylmercury (mg/kg ww)	Moisture %	Lipids
Herman Lake	Lake Whitefish	HLLWS14	9	405	911.72	0.085	<0.0040	<0.010	0.189	0.380	80.0	<0.50
		HLLWS20	8	340	548.85	0.085	<0.0040	<0.010	0.18	0.460	80.8	<0.50
		HLLWS21	7	340	580.60	0.046	<0.0040	<0.010	0.223	0.482	80.4	2.96
		HLWLS27	3	351	589.67	0.039	0.0041	<0.010	0.308	0.519	77.0	<0.50
		HLLWS22	5	300	412.77	0.083	<0.0040	<0.010	0.123	0.439	78.2	1.31
		HLLWS29	10	410	861.83	0.082	<0.0040	<0.010	0.221	0.712	77.5	<0.50
		HLLWS30	7	375	662.24	0.082	<0.0040	<0.010	0.137	0.369	77.7	0.74
		HLLWS33	7	340	367.41	0.077	<0.0040	<0.010	0.111	0.308	78.7	1.79
		HLLWS36	4	335	480.81	0.074	<0.0040	<0.010	0.0847	0.491	80.5	1.01
		HLLWS41	5	315	371.95	0.09	<0.0040	<0.010	0.0986	0.527	80.2	2.95
		HLLWS75	7	363	680.39	0.057	<0.0040	<0.010	0.101	0.408	78.3	0.82
	Mean		7	352	588.02	0.07	0.0040	0.010	0.16	0.463	79.0	1.23
	Median		7	340	580.60	0.08	0.0040	0.010	0.14	0.460	78.7	0.82
	Minimum		3	300	367.41	0.04	0.0040	0.010	0.085	0.308	77.0	0.50
	Maximum		10	410	911.72	0.09	0.0041	0.010	0.308	0.712	80.8	2.96
	Standard Error		0.64	10	55.016	0.005	0.000	0.000	0.021	0.0322	0.4	0.28
	Standard Deviation		2.11	34	182.47	0.02	0.000	0.000	0.069	0.107	1.4	0.94
	Northern Pike	HLNPS6	3	385	489.88	0.021	<0.0040	<0.010	0.162	0.617	79.2	<0.50
		HLNPS10	4	640	1750.87	0.024	<0.0040	<0.010	0.765	1.850	79.8	<0.50
		HLNPS15	8	760	2848.56	0.06	<0.0040	<0.010	0.785	3.130	76.4	<0.50
		HLNPS16	7	730	3211.43	0.043	<0.0040	<0.010	1.02	1.860	77.0	<0.50
		HLNPS17	7	900	5715.26	0.115	<0.0040	<0.010	0.566	2.670	80.2	<0.50
		HLNPS18	3	534	1301.81	0.025	<0.0040	<0.010	0.883	1.860	77.5	<0.50
		HLNPS24	10	840	3361.12	0.037	<0.0040	<0.010	2.33	16.800	83.5	<0.50
		HLNPS28	4	570	1351.71	0.031	<0.0040	<0.010	0.673	1.930	77.0	<0.50
		HLNPS37	4	565	1011.51	0.018	<0.0040	<0.010	0.927	4.790	79.8	<0.50
		HLNPS38	3	530	970.69	0.026	<0.0040	<0.010	0.324	1.360	78.5	<0.50
		HLNPS49	7	840	3261.33	0.036	0.0088	<0.010	0.632	5.640	84.1	<0.50
		HLNPS53	2	466	748.43	0.036	<0.0040	<0.010	0.434	1.170	77.8	<0.50
		HLNPS58	4	540	929.86	0.025	<0.0040	<0.010	0.426	1.470	78.8	<0.50
		HLNPS60	3	508	938.94	0.047	<0.0040	<0.010	0.245	1.030	79.5	0.54

Table A3.7 (Cont'd.)

Waterbody	Species	Sample ID	Age	Fork Length (mm)	Total Weight (g)	Arsenic (mg/kg wwt)	Cobalt (mg/kg wwt)	Lead (mg/kg wwt)	Mercury (mg/kg wwt)	Methylmercury (mg/kg wwt)	Moisture %	Lipids
Herman Lake	Northern Pike	HLNPS64	3	508	839.15	0.04	<0.0040	<0.010	0.375	0.638	77.1	0.71
		HLNPS70	3	435	621.42	0.027	<0.0040	<0.010	0.191	0.677	79.3	<0.50
	Mean		5	609	1834.50	0.04	0.004	0.010	0.67	2.968	79.1	0.52
	Median		4	553	1156.66	0.03	0.004	0.010	0.60	1.855	79.0	0.50
	Minimum		2	385	489.88	0.02	0.004	0.010	0.16	0.617	76.4	0.50
	Maximum		10	900	5715.26	0.12	0.004	0.010	2.33	16.800	84.1	0.71
	Standard Error		0.58	39	361.53	0.01	0.000	0.000	0.13	0.989	0.5	0.01
	Standard Deviation		2.33	157	1446.11	0.02	0.000	0.000	0.52	3.956	2.2	0.05
	Walleye	HLWYS1	2	295	281.23	0.039	<0.0040	<0.010	0.203	0.622	78.1	0.61
		HLWYS2	NA	104	12.58	0.017	0.0045	<0.010	0.0574	0.172	81.6	2.13
		HLWYS3	2	305	258.55	0.065	<0.0040	<0.010	0.248	0.685	78	<0.50
		HLWYS4	2	295	281.23	0.068	<0.0040	<0.010	0.177	0.595	76.7	<0.50
		HLWYS7	2	315	349.27	0.079	<0.0040	<0.010	0.203	0.733	77.8	<0.50
		HLWYS8	3	280	281.23	0.039	<0.0040	0.013	0.55	1.190	79.3	<0.50
		HLWYS23	4	370	571.53	0.04	<0.0040	<0.010	0.239	0.876	80.1	<0.50
		HLWYS26	4	390	508.02	0.027	<0.0040	<0.010	0.576	1.350	77.9	<0.50
		HLWYS31	4	375	498.95	0.043	<0.0040	<0.010	0.326	1.070	79.3	<0.50
		HLWYS34	4	365	480.80	0.037	<0.0040	<0.010	0.295	0.780	78.4	0.85
		HLWYS35	2	310	181.44	0.101	<0.0040	<0.010	0.263	0.927	80.4	<0.50
		HLWYS39	4	384	471.74	0.04	<0.0040	<0.010	0.324	1.540	78	0.56
		HLWYS40	4	400	621.42	0.041	<0.0040	<0.010	0.335	1.500	80.0	<0.50
		HLWYS42	NA	303	331.12	0.056	<0.0040	<0.010	0.244	0.978	79.7	0.63
		HLWYS43	NA	327	322.05	0.031	<0.0040	<0.010	0.346	1.990	78.6	<0.50
		HLWYS50	7	455	1011.51	0.034	<0.0040	<0.010	0.353	0.961	75.8	0.62
		HLWYS52	5	412	743.89	0.032	<0.0040	<0.010	0.342	0.892	78.2	<0.50
		HLWYS57	7	412	639.57	0.042	<0.0040	<0.010	0.385	0.956	77.5	<0.50
		HLWYS62	4	388	548.85	0.047	<0.0040	<0.010	0.266	0.721	76.8	<0.50
		HLWYS63	4	379	371.95	0.041	<0.0040	<0.010	0.243	0.753	78.5	0.59
		HLWYS66	4	390	580.60	0.034	<0.0040	<0.010	0.353	1.080	76.8	<0.50
		HLWYS69	4	381	598.74	0.046	<0.0040	<0.010	0.201	1.210	79.5	<0.50

Table A3.7 (Cont'd.)

Waterbody	Species	Sample ID	Age	Fork Length (mm)	Total Weight (g)	Arsenic (mg/kg ww)	Cobalt (mg/kg ww)	Lead (mg/kg ww)	Mercury (mg/kg ww)	Methylmercury (mg/kg ww)	Moisture %	Lipids
Herman Lake	Walleye	HLWYS71	5	380	557.92	0.036	<0.0040	<0.010	0.299	0.980	77.8	<0.50
		HLWYS74	4	395	639.57	0.045	<0.0040	<0.010	0.265	1.010	78.2	<0.50
		HLWYS77	4	379	539.77	0.024	<0.0040	<0.010	0.223	0.794	77.7	0.66
		HLWYS78	4	379	557.92	0.029	<0.0040	<0.010	0.619	1.230	79.1	<0.50
		HLWYS79	7	410	789.25	0.036	<0.0040	<0.010	0.634	1.400	79.3	<0.50
		HLWYS80	3	358	489.88	0.046	<0.0040	<0.010	0.561	0.907	76.6	<0.50
	Mean		4	355	482.88	0.043	0.004	0.010	0.33	0.997	78.4	0.59
	Median		4	379	503.49	0.040	0.004	0.010	0.30	0.959	78.2	0.50
	Minimum		2	104	12.58	0.017	0.004	0.010	0.06	0.172	75.8	0.50
	Maximum		7	455	1011.51	0.101	0.005	0.010	0.63	1.990	81.6	2.13
	Standard Error		0.29	12	38.56	0.0033	0.000	0.000	0.027	0.067	0.2	0.06
	Standard Deviation		1.46	66	204.02	0.017	0.000	0.000	0.14	0.354	1.3	0.31
	White Sucker	HLWSS5	2	230	190.51	0.026	<0.0040	<0.010	0.0303	0.139	80.6	0.55
		HLWSS9	NA	205	154.22	0.053	<0.0040	<0.010	0.663	1.450	78.1	<0.50
		HLWSS11	NA	494	1759.94	0.029	<0.0040	<0.010	0.449	1.090	80.8	0.56
		HLWSS12	4	399	1079.55	0.027	<0.0040	<0.010	0.248	0.597	79.7	<0.50
		HLWSS13	4	474	1719.12	0.025	<0.0040	<0.010	0.209	0.580	81.3	<0.50
		HLWSS19	6	482	1619.33	0.026	<0.0040	<0.010	0.586	1.420	79.4	<0.50
		HLWSS26	4	404	1006.98	0.026	<0.0040	<0.010	0.162	0.438	85.4	<0.50
		HLWSS25	6	450	1329.03	0.049	0.0056	0.013	0.203	0.642	76.4	0.71
		HLWSS27	3	355	630.49	0.038	<0.0040	<0.010	0.0764	0.274	80.7	<0.50
		HLWSS32	4	390	644.10	0.04	<0.0040	<0.010	0.0733	0.257	79.8	<0.50
		HLWSS44	NA	401	1047.80	0.043	0.0047	<0.010	0.0673	0.458	83.3	1.01
		HLWSS45	3	399	929.86	0.041	0.0043	<0.010	0.0371	0.198	79.7	0.62
		HLWSS46	4	420	1061.41	0.028	<0.0040	<0.010	0.0736	0.442	82.9	0.92
		HLWSS47	3	337	557.92	0.031	<0.0040	<0.010	0.0484	0.239	79.9	<0.50
		HLWSS48	4	387	839.15	0.037	0.0083	<0.010	0.482	0.362	83	0.67
		HLWSS51	NA	354	598.74	0.031	<0.0040	<0.010	0.0554	0.192	78.1	<0.50
		HLWSS54	5	485	1251.92	0.023	0.005	<0.010	0.117	0.538	81.2	1.54
		HLWSS55	4	399	929.86	0.029	<0.0040	<0.010	0.0462	0.132	82.2	<0.50

Table A3.7 (Cont'd.)

Waterbody	Species	Sample ID	Age	Fork Length (mm)	Total Weight (g)	Arsenic (mg/kg ww)	Cobalt (mg/kg ww)	Lead (mg/kg ww)	Mercury (mg/kg ww)	Methylmercury (mg/kg ww)	Moisture %	Lipids
Herman Lake	White Sucker	HLWSS56	NA	299	285.76	0.022	<0.0040	<0.010	0.0433	0.154	79.7	<0.50
		HLWSS61	NA	310	421.84	0.052	<0.0040	<0.010	0.058	0.222	80.5	<0.50
		HLWSS65	3	350	639.57	0.031	<0.0040	<0.010	0.0484	0.170	80.8	<0.50
		HLWSS67	3	360	648.64	0.04	<0.0040	<0.010	0.059	0.247	81.6	<0.50
		HLWSS68	NA	295	381.02	0.024	<0.0040	<0.010	0.054	0.200	80	<0.50
		HLWSS72	5	430	1229.24	0.029	<0.0040	<0.010	0.0762	0.335	80.9	<0.50
		HLWSS73	3	328	530.70	0.026	<0.0040	<0.010	0.0354	0.162	80.2	0.51
		HLWSS76	5	388	839.15	0.032	<0.0040	<0.010	0.0449	0.203	81.3	<0.50
	Median		4	378	858.69	0.03	0.0043	0.010	0.16	0.429	80.7	0.60
	Median		4	389	839.15	0.03	0.0040	0.010	0.070	0.266	80.7	0.50
	Minimum		2	205	154.22	0.02	0.0040	0.010	0.030	0.132	76.4	0.50
	Maximum		6	494	1759.94	0.05	0.0083	0.013	0.66	1.450	85.4	1.54
	Standard Error		0.21	14	87.25	0.002	0.0000	0.000	0.036	0.0718	0.4	0.05
	Standard Deviation		1.08	73	444.91	0.01	0.0009	0.001	0.182	0.366	1.8	0.23

APPENDIX 2

Photos

**PHOTOGRAPHS
A1 - 1 - 6**

Representative Sediment Sampling Photos

**PHOTOGRAPHS
A2 - 1 - 14**

Representative Station Sediment Samples

**PHOTOGRAPHS
A3 - 1 - 4**

Representative Large-Bodied Fish Species

**PHOTOGRAPHS
A4 - 1 - 6**

Representative Fish Collection Methods

**PHOTOGRAPHS
A5 - 1 - 8**

Representative Sampling Site Photos

Photographs A1-1-6: Representative Sediment Sampling Photos

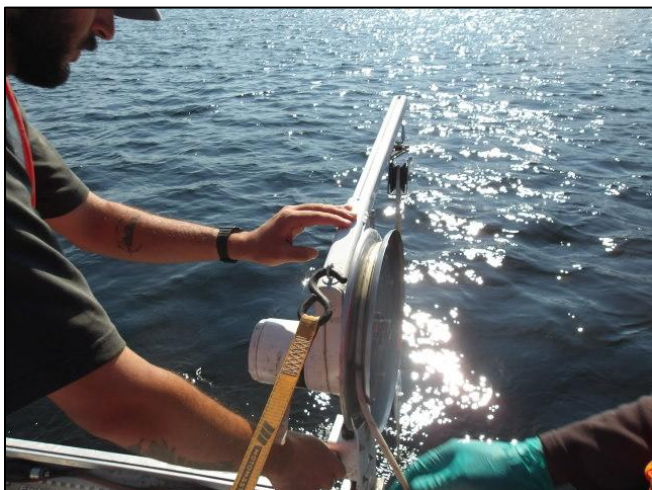


Photo A1-1: Line Hauler being used to lower Ponar.
(09-16-2025)



Photo A1-2: Ponar containing sediment sample.
(09-14-2025)

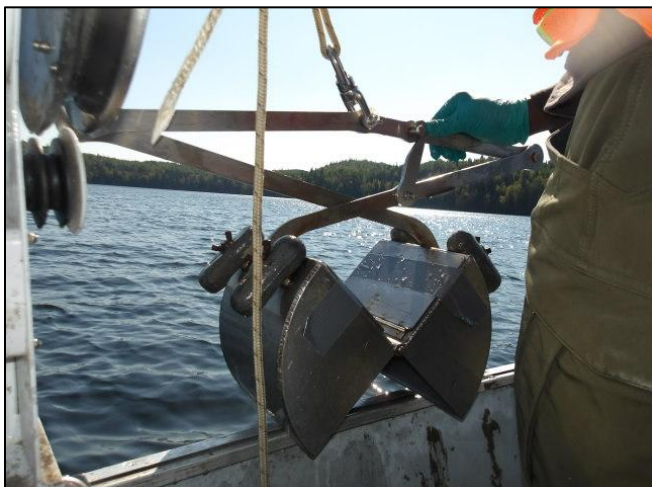


Photo A1-3: Ponar being armed for deployment.
(09-16-2025)

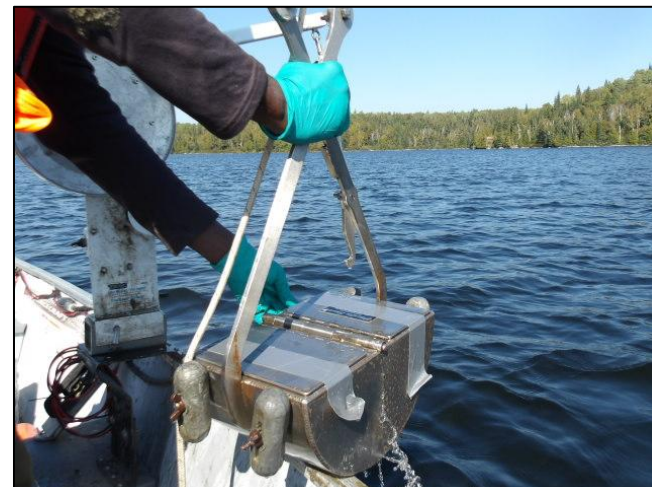


Photo A1-4: Retrieving Ponar with sediment (09-16-2025)



Photo A1-5: Representative sample from Otto Lake,
station OL-100 (09-13-2025)



Photo A1-6: Representative sample from Herman
Lake, station HL-REF (09-15-2025)

Photographs A2-1-6: Representative Station Sediment Samples



Photo A2-1: Representative sample from station OL-100. (09-13-2025)



Photo A2-2: Representative sample from station OL-250. (09-16-2025)



Photo A2-3: Representative sample from station OL-B. (09-16-2025)



Photo A2-4: Representative sample from station OL-F. (09-14-2025)



Photo A2-5: Representative sample from station HL-REF (09-15-2025)



Photo A2-6: Representative sample from station HL-B-IN (09-13-2025)

Photographs A2-7-12: Representative Station Sediment Samples



Photo A2-7: Representative sample from station HL-100-07 (09-14-2025)



Photo A2-8: Representative sample from station HL-100-09 (09-14-2025)

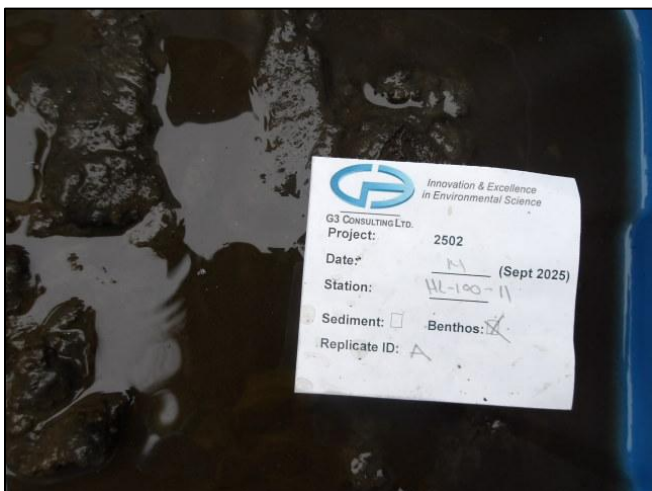


Photo A2-9: Representative sample from station HL-100-11 (09-14-2025)



Photo A2-10: Representative sample from station HL-250-07 (09-16-2025)



Photo A2-11: Representative sample from station HL-250-09 (09-15-2025)



Photo A2-12: Representative sample from station HL-250-11 (09-15-2025)

Photographs A2-13-14: Representative Station Sediment Samples



Photo A2-13: Representative sample from station HL-500-07 (09-16-2025)



Photo A2-14: Representative sample from station HL-500-11 (09-16-2025)

Photographs A3-1-4: Representative Large-Bodied Fish Species



A3-3: A representative Northern Pike (06-24-2025)



A3-4: A representative White Sucker (06-24-2025)



A3-5: A representative Walleye (09-10-2025)



A3-6: A representative Lake Whitefish (09-09-2025)

Photographs A4-1-6: Representative Fish Collection Methods



A4-1: Anal fin of a White Sucker (09-11-2025)



A4-2: Dissection process of White Sucker (09-10-2025)



A4-3: Ovaries with eggs present in Lake Whitefish. (09-10-2025)



A4-4: Liver from a Northern Pike (09-10-2025)



A4-5: Liver from a Lake Whitefish (09-10-2025)



A4-6: Measuring a walleye (09-10-2025)

Photographs A5-1-8: Representative Sampling Site Photos



Photo A5-1: Otto Lake facing North (09-15-2025)



Photo A5-2: Otto Lake facing South (09-15-2025)



Photo A5-3: West Otto Lake facing East (10-08-2024)



Photo A5-4: Otto Lake facing West (10-08-2024)



Photo A5-5: Herman Lake facing North (09-17-2025)



Photo A5-6: Herman Lake facing South (10-09-2024)



Photo A5-7: Herman Lake facing East (09-15-2025)



Photo A5-8: Herman Lake facing West (10-11-2024)

APPENDIX 3

Sediment Lab Data

CERTIFICATE OF ANALYSIS

Work Order	: TY2510782		
Client	: G3 Consulting Ltd.	Laboratory	: ALS Environmental - Thunder Bay
Contact	: Greg Thomas	Account Manager	: Colby Coutu
Address	: 206-8501 162nd St. Surrey British Columbia Canada V4N 1B2	Address	: 1081 Barton Street Thunder Bay ON Canada P7B 5N3
Telephone	: 604 598 8501	E-mail	: colby.coutu@alsglobal.com
Project	: 2502	Telephone	: +1 807 623 6463
PO	: 2502	Date Samples Received	: 19-Sep-2025 16:30
C-O-C number	: ----	Date Analysis Commenced	: 25-Sep-2025
Sampler	: ----	Issue Date	: 07-Jan-2026 13:43
Site	: ----		
Quote number	: Dubreuilville Project		
No. of samples received	: 16		
No. of samples analysed	: 16		

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.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Colby Bingham	Laboratory Supervisor	Inorganics, Saskatoon, Saskatchewan
Colby Bingham	Laboratory Supervisor	Sask Soils, Saskatoon, Saskatchewan
Dan Gebert	Supervisor - Metals Mercury & Speciation	Metals, Burnaby, British Columbia
Hedy Lai	Team Leader - Inorganics	Sask Soils, Saskatoon, Saskatchewan
Jon Fisher	Laboratory Manager - Environmental	Inorganics, Waterloo, Ontario
Josphin Masihi	Supervisor I	Centralized Prep, Waterloo, Ontario
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Metals, Burnaby, British Columbia
Miles Gropen	Department Manager - Inorganics	Inorganics, Burnaby, British Columbia
Monica Ko	Supervisor - Inorganic	Inorganics, Burnaby, British Columbia
Nik Perkio	Senior Analyst	Inorganics, Waterloo, Ontario
Nik Perkio	Senior Analyst	Metals, Waterloo, Ontario
Robert Nguyen	Analyst	Metals, Burnaby, British Columbia
Xihua Yao	Laboratory Analyst	Sask Soils, 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).

Unit	Description
-	no units
%	percent
mg/kg	milligrams per kilogram
pH units	pH units
µg/g	micrograms per gram
µg/kg	micrograms per kilogram
µmol/g	micromoles per gram

<: less than.

>: greater than.

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.

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.

Workorder Comments

PSAL:Sample 001-003,005-007,011-016: Limited sample was available for PSA (100g minimum is standard). Measurement Uncertainty for PSA results may be higher than usual.



Qualifiers

Qualifier	Description
DLHM	Detection Limit Adjusted: Sample has high moisture content.
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).



Analytical Results

Sub-Matrix: Sediment
 (Matrix: Soil/Solid)

Client sample ID					25ONG309 SED OL-B	25ONG309 SED OL -100	25ONG309 SED OL-250	25ONG309 SED OL-F	25ONG309 SED DUP 1
Client sampling date / time					16-Sep-2025 13:16	16-Sep-2025 12:40	16-Sep-2025 13:00	16-Sep-2025 13:29	16-Sep-2025 11:07
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510782-001	TY2510782-002	TY2510782-003	TY2510782-004	TY2510782-005
					Result	Result	Result	Result	Result
Physical Tests									
Moisture	----	E144/WT	0.25	%	93.0	96.6	93.6	69.0	91.8
pH (1:2 soil:CaCl2-aq)	----	E108A/WT	0.10	pH units	6.33	6.51	6.52	6.76	6.66
Particle Size									
Gravel (>2mm)	----	EC184A/SK	1.0	%	<1.0	<1.0	<1.0	<1.0	<1.0
Sand (2.0mm - 1.0mm)	----	EC184A/SK	1.0	%	<1.0	<1.0	<1.0	<1.0	<1.0
Sand (1.0mm - 0.50mm)	----	EC184A/SK	1.0	%	<1.0	<1.0	<1.0	1.7	<1.0
Sand (0.5mm - 0.25mm)	----	EC184A/SK	1.0	%	<1.0	<1.0	<1.0	9.0	<1.0
Sand (0.25mm - 0.125mm)	----	EC184A/SK	1.0	%	<1.0	<1.0	<1.0	35.0	<1.0
Sand (0.125mm - 0.063mm)	----	EC184A/SK	1.0	%	<1.0	<1.0	<1.0	24.4	5.9
Silt (0.0312mm - 0.004mm)	----	EC184A/SK	1.0	%	49.6	48.0	51.0	13.1	47.3
Silt (0.063mm - 0.0312mm)	----	EC184A/SK	1.0	%	41.1	43.8	35.6	16.3	34.5
Clay (<0.004mm)	----	EC184A/SK	1.0	%	9.0	7.6	11.9	<1.0	11.1
Grain size curve	----	E185A/SK	-	-	See Attached	See Attached	See Attached	See Attached	See Attached
Percent Passing									
Passing (0.002mm)	----	E184/SK	1.0	%	6.8	6.4	8.2	<1.0	7.8
Passing (0.004mm)	----	E184/SK	1.0	%	9.0	7.6	11.9	<1.0	11.1
Passing (0.005mm)	----	E184/SK	1.0	%	10.1	8.2	13.7	<1.0	12.8
Passing (0.020mm)	----	E184/SK	1.0	%	34.1	29.5	41.8	6.4	38.6
Passing (0.0312mm)	----	E184/SK	1.0	%	58.6	55.6	62.9	13.1	58.4
Passing (0.05mm)	----	E182/SK	1.0	%	99.6	99.4	98.4	24.3	91.7
Passing (0.063mm)	----	E182/SK	1.0	%	99.7	99.4	98.5	29.4	92.9



Analytical Results

Sub-Matrix: Sediment
 (Matrix: Soil/Solid)

					Client sample ID	25ONG309 SED OL-B ----	25ONG309 SED OL -100 ----	25ONG309 SED OL-250 ----	25ONG309 SED OL-F ----	25ONG309 SED DUP 1 ----
Client sampling date / time						16-Sep-2025 13:16	16-Sep-2025 12:40	16-Sep-2025 13:00	16-Sep-2025 13:29	16-Sep-2025 11:07
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510782-001	TY2510782-002	TY2510782-003	TY2510782-004	TY2510782-005
						Result	Result	Result	Result	Result
Percent Passing										
Passing (0.075mm)	----	E182/SK	1.0	%		99.7	99.4	98.6	34.1	94.0
Passing (0.125mm)	----	E182/SK	1.0	%		99.8	99.6	99.1	53.8	98.8
Passing (0.149mm)	----	E182/SK	1.0	%		99.8	99.6	99.3	60.5	98.9
Passing (0.250mm)	----	E182/SK	1.0	%		99.9	99.7	99.8	88.8	99.7
Passing (0.420mm)	----	E182/SK	1.0	%		99.9	99.8	99.9	94.9	99.8
Passing (0.50mm)	----	E182/SK	1.0	%		100.0	99.8	100.0	97.8	99.8
Passing (0.841mm)	----	E182/SK	1.0	%		100.0	99.9	100.0	98.9	99.9
Passing (1.0mm)	----	E182/SK	1.0	%		100.0	100.0	100.0	99.5	99.9
Passing (19mm)	----	E181/SK	1.0	%		100.0	100.0	100.0	100.0	100.0
Passing (2.0mm)	----	E181/SK	1.0	%		100.0	100.0	100.0	100.0	100.0
Passing (25.4mm)	----	E181/SK	1.0	%		100.0	100.0	100.0	100.0	100.0
Passing (38.1mm)	----	E181/SK	1.0	%		100.0	100.0	100.0	100.0	100.0
Passing (4.75mm)	----	E181/SK	1.0	%		100.0	100.0	100.0	100.0	100.0
Passing (50.8mm)	----	E181/SK	1.0	%		100.0	100.0	100.0	100.0	100.0
Passing (76.2mm)	----	E181/SK	1.0	%		100.0	100.0	100.0	100.0	100.0
Passing (9.5mm)	----	E181/SK	1.0	%		100.0	100.0	100.0	100.0	100.0
Anions and Nutrients										
Nitrogen, total	7727-37-9	E366/SK	0.020	%		2.07	2.57	1.62	0.162	1.07
Organic / Inorganic Carbon										
Carbon, total [TC], <63µm	----	E351A/SK	0.050	%		24.6	27.1	20.5	3.24	14.5
Carbon, inorganic [IC], <63 µm	----	E354A/SK	0.050	%		0.314	0.392	0.336	0.061	0.208



Analytical Results

Sub-Matrix: Sediment

(Matrix: Soil/Solid)

					Client sample ID	25ONG309 SED OL-B ----	25ONG309 SED OL -100 ----	25ONG309 SED OL-250 ----	25ONG309 SED OL-F ----	25ONG309 SED DUP 1 ----
Client sampling date / time						16-Sep-2025 13:16	16-Sep-2025 12:40	16-Sep-2025 13:00	16-Sep-2025 13:29	16-Sep-2025 11:07
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510782-001	TY2510782-002	TY2510782-003	TY2510782-004	TY2510782-005
						Result	Result	Result	Result	Result
Organic / Inorganic Carbon										
Carbon, total organic [TOC], <63µm	----	EC356A/SK	0.050	%		24.3	26.7	20.2	3.18	14.3
Inorganics										
Sulfides, acid volatile	----	E396/VA	5.0	mg/kg		----	<14.6 ^{DLHM}	----	<5.0	----
Sulfides, acid volatile	----	EC396/VA	0.20	µmol/g		----	<0.46	----	<0.20	----
Metals										
Aluminum	7429-90-5	E440C/WT	50	mg/kg		8910	5240	8050	2410	4840
Mercury	7439-97-6	E510C/WT	0.0050	mg/kg		----	0.156	----	0.0210	----
Antimony	7440-36-0	E440C/WT	0.10	mg/kg		<0.10	0.16	<0.10	<0.10	<0.10
Arsenic	7440-38-2	E440C/WT	0.10	mg/kg		1.16	1.88	1.49	0.72	1.09
Barium	7440-39-3	E440C/WT	0.50	mg/kg		41.5	33.0	59.6	15.0	33.2
Beryllium	7440-41-7	E440C/WT	0.10	mg/kg		0.41	0.27	0.34	0.10	0.24
Bismuth	7440-69-9	E440C/WT	0.20	mg/kg		<0.20	<0.29 ^{DLM}	<0.20	<0.20	<0.20
Boron	7440-42-8	E440C/WT	5.0	mg/kg		7.7	13.4	5.1	<5.0	<5.0
Cadmium	7440-43-9	E440C/WT	0.020	mg/kg		0.529	0.487	0.512	0.115	0.207
Calcium	7440-70-2	E440C/WT	50	mg/kg		12600	13100	11800	3180	7350
Chromium	7440-47-3	E440C/WT	0.50	mg/kg		16.2	11.7	12.4	4.98	11.6
Cobalt	7440-48-4	E440C/WT	0.10	mg/kg		6.33	4.74	4.28	1.42	2.97
Copper	7440-50-8	E440C/WT	0.50	mg/kg		60.5	65.9	39.2	6.60	46.6
Iron	7439-89-6	E440C/WT	50	mg/kg		6270	4090	5380	3750	7430
Lead	7439-92-1	E440C/WT	0.50	mg/kg		3.21	5.71	3.48	3.07	2.28
Lithium	7439-93-2	E440C/WT	2.0	mg/kg		7.3	3.8	4.1	2.8	4.8



Analytical Results

Sub-Matrix: Sediment

(Matrix: Soil/Solid)

					Client sample ID	25ONG309 SED OL-B ----	25ONG309 SED OL -100 ----	25ONG309 SED OL-250 ----	25ONG309 SED OL-F ----	25ONG309 SED DUP 1 ----
Client sampling date / time						16-Sep-2025 13:16	16-Sep-2025 12:40	16-Sep-2025 13:00	16-Sep-2025 13:29	16-Sep-2025 11:07
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510782-001	TY2510782-002	TY2510782-003	TY2510782-004	TY2510782-005
						Result	Result	Result	Result	Result
Metals										
Magnesium	7439-95-4	E440C/WT	20	mg/kg		2520	1610	1620	858	1820
Manganese	7439-96-5	E440C/WT	1.0	mg/kg		178	120	144	50.2	203
Molybdenum	7439-98-7	E440C/WT	0.10	mg/kg		2.86	4.96	1.81	1.59	2.39
Nickel	7440-02-0	E440C/WT	0.50	mg/kg		14.1	12.5	9.73	3.64	12.1
Phosphorus	7723-14-0	E440C/WT	50	mg/kg		734	884	595	389	377
Potassium	7440-09-7	E440C/WT	100	mg/kg		460	380	400	220	450
Selenium	7782-49-2	E440C/WT	0.20	mg/kg		1.74	1.83	1.38	<0.20	0.94
Silver	7440-22-4	E440C/WT	0.10	mg/kg		<0.10	<0.15 ^{DLM}	<0.10	<0.10	<0.10
Sodium	7440-23-5	E440C/WT	50	mg/kg		230	216	185	103	190
Strontium	7440-24-6	E440C/WT	0.50	mg/kg		104	120	95.4	30.6	62.0
Sulfur	7704-34-9	E440C/WT	1000	mg/kg		6700	8100	6400	2400	7000
Thallium	7440-28-0	E440C/WT	0.050	mg/kg		0.203	0.239	0.178	0.067	0.144
Tin	7440-31-5	E440C/WT	2.0	mg/kg		<2.0	<2.9 ^{DLM}	<2.0	<2.0	<2.0
Titanium	7440-32-6	E440C/WT	1.0	mg/kg		211	161	134	256	304
Tungsten	7440-33-7	E440C/WT	0.50	mg/kg		<0.50	<0.73 ^{DLM}	<0.50	<0.50	<0.50
Uranium	7440-61-1	E440C/WT	0.050	mg/kg		4.30	5.44	4.19	0.500	2.53
Vanadium	7440-62-2	E440C/WT	0.20	mg/kg		15.9	13.1	21.5	6.81	15.7
Zinc	7440-66-6	E440C/WT	2.0	mg/kg		67.4	57.7	63.3	15.1	35.3
Zirconium	7440-67-7	E440C/WT	1.0	mg/kg		1.5	1.8	<1.0	1.3	3.3
Extractable Metals										
Cadmium	7440-43-9	E449/VA	0.50	mg/kg		----	1.32	----	<0.50	----



Analytical Results

Sub-Matrix: Sediment
 (Matrix: Soil/Solid)

					Client sample ID	25ONG309 SED OL-B ----	25ONG309 SED OL-100 ----	25ONG309 SED OL-250 ----	25ONG309 SED OL-F ----	25ONG309 SED DUP 1 ----
Client sampling date / time						16-Sep-2025 13:16	16-Sep-2025 12:40	16-Sep-2025 13:00	16-Sep-2025 13:29	16-Sep-2025 11:07
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510782-001	TY2510782-002	TY2510782-003	TY2510782-004	TY2510782-005
						Result	Result	Result	Result	Result
Extractable Metals										
Cadmium	7440-43-9	EC449/VA	0.0050	µmol/g	----	0.0117	----	<0.0050	----	
Copper	7440-50-8	E449/VA	0.60	mg/kg	----	12.7	----	1.89	----	
Copper	7440-50-8	EC449/VA	0.010	µmol/g	----	0.200	----	0.030	----	
Lead	7439-92-1	E449/VA	4.0	mg/kg	----	26.5	----	<4.0	----	
Lead	7439-92-1	EC449/VA	0.020	µmol/g	----	0.128	----	<0.020	----	
Mercury	7439-97-6	E519/VA	0.010	mg/kg	----	<0.036	----	<0.010	----	
Mercury	7439-97-6	EC519/VA	0.000050	µmol/g	----	<0.000179	----	<0.000050	----	
Nickel	7440-02-0	E449/VA	2.9	mg/kg	----	3.4	----	<2.9	----	
Nickel	7440-02-0	EC449/VA	0.050	µmol/g	----	0.058	----	<0.050	----	
Zinc	7440-66-6	E449/VA	0.30	mg/kg	----	72.8	----	6.78	----	
Zinc	7440-66-6	EC449/VA	0.0050	µmol/g	----	1.11	----	0.104	----	
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	0.050	µg/kg	----	<1.00 DLM	----	0.051	----	
Leachable Anions & Nutrients										
Kjeldahl nitrogen, total [TKN]	----	E319/SK	200	µg/g		22800	29500	18800	1830	12800
Phosphate, ortho- (as P)	14265-44-2	E378/WT	0.080	mg/kg		9.16	39.6	<1.23	<0.256	<0.977

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



Analytical Results

Sub-Matrix: Sediment

(Matrix: Soil/Solid)

					Client sample ID	25ONG309 SED HL-B-IN ----	25ONG309 SED HL -REF ----	25ONG309 SED HL-100-07 ----	25ONG309 SED HL- 100-11 ----	25ONG309 SED HL -250-11 ----
Client sampling date / time						16-Sep-2025 11:07	16-Sep-2025 08:48	16-Sep-2025 10:45	16-Sep-2025 11:00	16-Sep-2025 14:36
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510782-006	TY2510782-007	TY2510782-008	TY2510782-009	TY2510782-010
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/WT	0.25	%		91.8	91.1	62.4	66.8	28.0
pH (1:2 soil:CaCl2-aq)	----	E108A/WT	0.10	pH units		6.67	5.50	6.41	5.69	6.44
Particle Size										
Gravel (>2mm)	----	EC184A/SK	1.0	%		<1.0	<1.0	<1.0	<1.0	<1.0
Sand (2.0mm - 1.0mm)	----	EC184A/SK	1.0	%		<1.0	<1.0	<1.0	<1.0	1.4
Sand (1.0mm - 0.50mm)	----	EC184A/SK	1.0	%		<1.0	<1.0	1.2	1.1	1.9
Sand (0.5mm - 0.25mm)	----	EC184A/SK	1.0	%		<1.0	<1.0	1.8	5.5	11.6
Sand (0.25mm - 0.125mm)	----	EC184A/SK	1.0	%		<1.0	1.6	8.5	24.6	59.1
Sand (0.125mm - 0.063mm)	----	EC184A/SK	1.0	%		2.4	1.1	12.9	21.7	17.9
Silt (0.0312mm - 0.004mm)	----	EC184A/SK	1.0	%		50.7	51.2	37.1	21.3	2.0
Silt (0.063mm - 0.0312mm)	----	EC184A/SK	1.0	%		31.6	38.1	35.4	24.1	5.2
Clay (<0.004mm)	----	EC184A/SK	1.0	%		14.8	7.7	1.9	1.4	<1.0
Grain size curve	----	E185A/SK	-	-		See Attached	See Attached	See Attached	See Attached	See Attached
Percent Passing										
Passing (0.002mm)	----	E184/SK	1.0	%		10.3	4.4	<1.0	<1.0	<1.0
Passing (0.004mm)	----	E184/SK	1.0	%		14.8	7.7	1.9	1.4	<1.0
Passing (0.005mm)	----	E184/SK	1.0	%		17.1	9.3	2.5	1.6	<1.0
Passing (0.020mm)	----	E184/SK	1.0	%		46.9	36.4	19.5	11.1	1.1
Passing (0.0312mm)	----	E184/SK	1.0	%		65.5	58.9	39.0	22.7	2.0
Passing (0.05mm)	----	E182/SK	1.0	%		96.6	96.7	71.8	42.3	3.5
Passing (0.063mm)	----	E182/SK	1.0	%		97.1	97.0	74.4	46.8	7.2



Analytical Results

Sub-Matrix: Sediment
 (Matrix: Soil/Solid)

					Client sample ID	25ONG309 SED HL-B-IN ----	25ONG309 SED HL -REF ----	25ONG309 SED HL-100-07 ----	25ONG309 SED HL- 100-11 ----	25ONG309 SED HL -250-11 ----
Client sampling date / time						16-Sep-2025 11:07	16-Sep-2025 08:48	16-Sep-2025 10:45	16-Sep-2025 11:00	16-Sep-2025 14:36
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510782-006	TY2510782-007	TY2510782-008	TY2510782-009	TY2510782-010
						Result	Result	Result	Result	Result
Percent Passing										
Passing (0.075mm)	----	E182/SK	1.0	%		97.6	97.2	76.9	51.0	10.7
Passing (0.125mm)	----	E182/SK	1.0	%		99.5	98.1	87.3	68.5	25.1
Passing (0.149mm)	----	E182/SK	1.0	%		99.6	98.4	88.9	73.2	36.4
Passing (0.250mm)	----	E182/SK	1.0	%		99.8	99.7	95.8	93.1	84.2
Passing (0.420mm)	----	E182/SK	1.0	%		99.9	99.9	97.0	96.8	92.1
Passing (0.50mm)	----	E182/SK	1.0	%		99.9	100.0	97.6	98.6	95.8
Passing (0.841mm)	----	E182/SK	1.0	%		99.9	100.0	98.4	99.3	97.1
Passing (1.0mm)	----	E182/SK	1.0	%		100.0	100.0	98.8	99.7	97.7
Passing (19mm)	----	E181/SK	1.0	%		100.0	100.0	100.0	100.0	100.0
Passing (2.0mm)	----	E181/SK	1.0	%		100.0	100.0	99.6	100.0	99.1
Passing (25.4mm)	----	E181/SK	1.0	%		100.0	100.0	100.0	100.0	100.0
Passing (38.1mm)	----	E181/SK	1.0	%		100.0	100.0	100.0	100.0	100.0
Passing (4.75mm)	----	E181/SK	1.0	%		100.0	100.0	100.0	100.0	99.9
Passing (50.8mm)	----	E181/SK	1.0	%		100.0	100.0	100.0	100.0	100.0
Passing (76.2mm)	----	E181/SK	1.0	%		100.0	100.0	100.0	100.0	100.0
Passing (9.5mm)	----	E181/SK	1.0	%		100.0	100.0	100.0	100.0	100.0
Anions and Nutrients										
Nitrogen, total	7727-37-9	E366/SK	0.020	%		1.38	1.43	0.213	0.203	0.042
Organic / Inorganic Carbon										
Carbon, total [TC], <63µm	----	E351A/SK	0.050	%		18.4	25.7	3.17	3.58	3.72
Carbon, inorganic [IC], <63 µm	----	E354A/SK	0.050	%		0.253	0.326	0.307	0.080	0.124



Analytical Results

Sub-Matrix: Sediment

(Matrix: Soil/Solid)

					Client sample ID	25ONG309 SED HL-B-IN ----	25ONG309 SED HL -REF ----	25ONG309 SED HL-100-07 ----	25ONG309 SED HL- 100-11 ----	25ONG309 SED HL -250-11 ----
Client sampling date / time						16-Sep-2025 11:07	16-Sep-2025 08:48	16-Sep-2025 10:45	16-Sep-2025 11:00	16-Sep-2025 14:36
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510782-006	TY2510782-007	TY2510782-008	TY2510782-009	TY2510782-010
						Result	Result	Result	Result	Result
Organic / Inorganic Carbon										
Carbon, total organic [TOC], <63µm	----	EC356A/SK	0.050	%		18.1	25.4	2.86	3.50	3.60
Inorganics										
Sulfides, acid volatile	----	E396/VA	5.0	mg/kg		----	32.1	----	----	----
Sulfides, acid volatile	----	EC396/VA	0.20	µmol/g		----	1.00	----	----	----
Metals										
Aluminum	7429-90-5	E440C/WT	50	mg/kg		4810	9190	3970	4260	2570
Mercury	7439-97-6	E510C/WT	0.0050	mg/kg		----	0.162	----	----	----
Antimony	7440-36-0	E440C/WT	0.10	mg/kg		<0.10	0.24	<0.10	<0.10	<0.10
Arsenic	7440-38-2	E440C/WT	0.10	mg/kg		1.08	12.7	1.71	2.11	2.47
Barium	7440-39-3	E440C/WT	0.50	mg/kg		34.0	116	21.5	24.5	10.5
Beryllium	7440-41-7	E440C/WT	0.10	mg/kg		0.24	0.39	0.11	0.13	<0.10
Bismuth	7440-69-9	E440C/WT	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Boron	7440-42-8	E440C/WT	5.0	mg/kg		<5.0	5.2	<5.0	<5.0	<5.0
Cadmium	7440-43-9	E440C/WT	0.020	mg/kg		0.218	0.949	0.138	0.121	0.039
Calcium	7440-70-2	E440C/WT	50	mg/kg		7500	17300	9110	4470	2860
Chromium	7440-47-3	E440C/WT	0.50	mg/kg		11.3	21.5	20.0	11.6	10.5
Cobalt	7440-48-4	E440C/WT	0.10	mg/kg		2.92	11.6	3.89	3.38	3.18
Copper	7440-50-8	E440C/WT	0.50	mg/kg		51.7	63.4	12.5	8.35	3.25
Iron	7439-89-6	E440C/WT	50	mg/kg		7350	18400	7360	6990	6630
Lead	7439-92-1	E440C/WT	0.50	mg/kg		1.98	22.3	4.10	3.46	1.30
Lithium	7439-93-2	E440C/WT	2.0	mg/kg		4.4	7.8	4.7	5.1	2.3



Analytical Results

Sub-Matrix: Sediment
 (Matrix: Soil/Solid)

					Client sample ID	25ONG309 SED HL-B-IN ----	25ONG309 SED HL -REF ----	25ONG309 SED HL-100-07 ----	25ONG309 SED HL- 100-11 ----	25ONG309 SED HL -250-11 ----
Client sampling date / time						16-Sep-2025 11:07	16-Sep-2025 08:48	16-Sep-2025 10:45	16-Sep-2025 11:00	16-Sep-2025 14:36
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510782-006	TY2510782-007	TY2510782-008	TY2510782-009	TY2510782-010
						Result	Result	Result	Result	Result
Metals										
Magnesium	7439-95-4	E440C/WT	20	mg/kg		1740	4570	5700	2360	1520
Manganese	7439-96-5	E440C/WT	1.0	mg/kg		216	1240	193	318	110
Molybdenum	7439-98-7	E440C/WT	0.10	mg/kg		2.58	0.91	0.25	0.26	0.35
Nickel	7440-02-0	E440C/WT	0.50	mg/kg		12.9	18.0	11.4	6.29	5.10
Phosphorus	7723-14-0	E440C/WT	50	mg/kg		326	680	554	784	507
Potassium	7440-09-7	E440C/WT	100	mg/kg		440	430	480	480	210
Selenium	7782-49-2	E440C/WT	0.20	mg/kg		0.95	2.10	0.23	0.23	<0.20
Silver	7440-22-4	E440C/WT	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Sodium	7440-23-5	E440C/WT	50	mg/kg		182	96	145	159	95
Strontium	7440-24-6	E440C/WT	0.50	mg/kg		64.4	107	26.3	37.1	19.9
Sulfur	7704-34-9	E440C/WT	1000	mg/kg		7500	13200	1000	<1000	2100
Thallium	7440-28-0	E440C/WT	0.050	mg/kg		0.153	0.185	0.073	0.088	<0.050
Tin	7440-31-5	E440C/WT	2.0	mg/kg		<2.0	<2.0	<2.0	<2.0	<2.0
Titanium	7440-32-6	E440C/WT	1.0	mg/kg		266	291	503	451	331
Tungsten	7440-33-7	E440C/WT	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Uranium	7440-61-1	E440C/WT	0.050	mg/kg		2.76	2.32	0.666	0.694	0.488
Vanadium	7440-62-2	E440C/WT	0.20	mg/kg		15.3	30.7	16.5	14.6	12.1
Zinc	7440-66-6	E440C/WT	2.0	mg/kg		34.8	105	23.5	29.2	12.9
Zirconium	7440-67-7	E440C/WT	1.0	mg/kg		3.4	2.2	2.4	1.2	<1.0
Extractable Metals										
Cadmium	7440-43-9	E449/VA	0.50	mg/kg		----	0.91	----	----	----



Analytical Results

Sub-Matrix: Sediment
 (Matrix: Soil/Solid)

					Client sample ID	25ONG309 SED HL-B-IN ----	25ONG309 SED HL -REF ----	25ONG309 SED HL-100-07 ----	25ONG309 SED HL- 100-11 ----	25ONG309 SED HL -250-11 ----
Client sampling date / time						16-Sep-2025 11:07	16-Sep-2025 08:48	16-Sep-2025 10:45	16-Sep-2025 11:00	16-Sep-2025 14:36
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510782-006	TY2510782-007	TY2510782-008	TY2510782-009	TY2510782-010
						Result	Result	Result	Result	Result
Extractable Metals										
Cadmium	7440-43-9	EC449/VA	0.0050	µmol/g		----	0.0081	----	----	----
Copper	7440-50-8	E449/VA	0.60	mg/kg		----	25.8	----	----	----
Copper	7440-50-8	EC449/VA	0.010	µmol/g		----	0.406	----	----	----
Lead	7439-92-1	E449/VA	4.0	mg/kg		----	19.8	----	----	----
Lead	7439-92-1	EC449/VA	0.020	µmol/g		----	0.096	----	----	----
Mercury	7439-97-6	E519/VA	0.010	mg/kg		----	<0.014	----	----	----
Mercury	7439-97-6	EC519/VA	0.000050	µmol/g		----	<0.000070	----	----	----
Nickel	7440-02-0	E449/VA	2.9	mg/kg		----	3.9	----	----	----
Nickel	7440-02-0	EC449/VA	0.050	µmol/g		----	0.066	----	----	----
Zinc	7440-66-6	E449/VA	0.30	mg/kg		----	67.3	----	----	----
Zinc	7440-66-6	EC449/VA	0.0050	µmol/g		----	1.03	----	----	----
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	0.050	µg/kg		----	1.17	----	----	----
Leachable Anions & Nutrients										
Kjeldahl nitrogen, total [TKN]	----	E319/SK	200	µg/g		15800	15700	2340	2320	520
Phosphate, ortho- (as P)	14265-44-2	E378/WT	0.080	mg/kg		<0.962	<0.904	<0.213	<0.238	<0.113

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



Analytical Results

Sub-Matrix: Sediment
 (Matrix: Soil/Solid)

					Client sample ID	25ONG309 SED HL-250-09 ----	25ONG309 SED HL -250-07 ----	25ONG309 SED HL-500-07 ----	25ONG309 SED HL- 500-11 ----	25ONG309 SED DUP 2 ----
Client sampling date / time						16-Sep-2025 09:24	16-Sep-2025 14:19	16-Sep-2025 15:00	16-Sep-2025 15:53	16-Sep-2025 13:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510782-011	TY2510782-012	TY2510782-013	TY2510782-014	TY2510782-015
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/WT	0.25	%		89.7	91.3	92.9	88.0	93.1
pH (1:2 soil:CaCl2-aq)	----	E108A/WT	0.10	pH units		6.62	5.92	5.56	5.98	6.57
Particle Size										
Gravel (>2mm)	----	EC184A/SK	1.0	%		<1.0	<1.0	<1.0	<1.0	<1.0
Sand (2.0mm - 1.0mm)	----	EC184A/SK	1.0	%		<1.0	<1.0	<1.0	<1.0	<1.0
Sand (1.0mm - 0.50mm)	----	EC184A/SK	1.0	%		<1.0	<1.0	<1.0	<1.0	<1.0
Sand (0.5mm - 0.25mm)	----	EC184A/SK	1.0	%		<1.0	<1.0	<1.0	1.8	<1.0
Sand (0.25mm - 0.125mm)	----	EC184A/SK	1.0	%		<1.0	<1.0	<1.0	3.4	<1.0
Sand (0.125mm - 0.063mm)	----	EC184A/SK	1.0	%		<1.0	3.6	<1.0	2.9	<1.0
Silt (0.0312mm - 0.004mm)	----	EC184A/SK	1.0	%		49.9	48.6	49.8	46.6	50.7
Silt (0.063mm - 0.0312mm)	----	EC184A/SK	1.0	%		39.9	35.1	33.3	36.3	35.4
Clay (<0.004mm)	----	EC184A/SK	1.0	%		8.7	12.3	16.5	7.6	12.1
Grain size curve	----	E185A/SK	-	-		See Attached	See Attached	See Attached	See Attached	See Attached
Percent Passing										
Passing (0.002mm)	----	E184/SK	1.0	%		6.2	8.9	12.6	4.9	8.5
Passing (0.004mm)	----	E184/SK	1.0	%		8.7	12.3	16.5	7.6	12.1
Passing (0.005mm)	----	E184/SK	1.0	%		10.0	14.0	18.4	9.0	14.0
Passing (0.020mm)	----	E184/SK	1.0	%		35.0	40.5	46.4	32.9	41.8
Passing (0.0312mm)	----	E184/SK	1.0	%		58.6	60.9	66.3	54.2	62.8
Passing (0.05mm)	----	E182/SK	1.0	%		98.4	95.2	99.6	89.9	98.1
Passing (0.063mm)	----	E182/SK	1.0	%		98.5	96.0	99.6	90.5	98.2



Analytical Results

Sub-Matrix: Sediment

(Matrix: Soil/Solid)

					Client sample ID	25ONG309 SED HL-250-09 ----	25ONG309 SED HL -250-07 ----	25ONG309 SED HL-500-07 ----	25ONG309 SED HL- 500-11 ----	25ONG309 SED DUP 2 ----
Client sampling date / time						16-Sep-2025 09:24	16-Sep-2025 14:19	16-Sep-2025 15:00	16-Sep-2025 15:53	16-Sep-2025 13:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510782-011	TY2510782-012	TY2510782-013	TY2510782-014	TY2510782-015
						Result	Result	Result	Result	Result
Percent Passing										
Passing (0.075mm)	----	E182/SK	1.0	%		98.7	96.7	99.6	91.0	98.4
Passing (0.125mm)	----	E182/SK	1.0	%		99.2	99.6	99.7	93.4	98.9
Passing (0.149mm)	----	E182/SK	1.0	%		99.3	99.6	99.7	94.0	99.1
Passing (0.250mm)	----	E182/SK	1.0	%		99.4	99.9	99.8	96.8	99.7
Passing (0.420mm)	----	E182/SK	1.0	%		99.6	100.0	99.8	98.0	99.8
Passing (0.50mm)	----	E182/SK	1.0	%		99.6	100.0	99.8	98.6	99.9
Passing (0.841mm)	----	E182/SK	1.0	%		99.8	100.0	99.9	99.1	100.0
Passing (1.0mm)	----	E182/SK	1.0	%		99.9	100.0	99.9	99.3	100.0
Passing (19mm)	----	E181/SK	1.0	%		100.0	100.0	100.0	100.0	100.0
Passing (2.0mm)	----	E181/SK	1.0	%		100.0	100.0	100.0	100.0	100.0
Passing (25.4mm)	----	E181/SK	1.0	%		100.0	100.0	100.0	100.0	100.0
Passing (38.1mm)	----	E181/SK	1.0	%		100.0	100.0	100.0	100.0	100.0
Passing (4.75mm)	----	E181/SK	1.0	%		100.0	100.0	100.0	100.0	100.0
Passing (50.8mm)	----	E181/SK	1.0	%		100.0	100.0	100.0	100.0	100.0
Passing (76.2mm)	----	E181/SK	1.0	%		100.0	100.0	100.0	100.0	100.0
Passing (9.5mm)	----	E181/SK	1.0	%		100.0	100.0	100.0	100.0	100.0
Anions and Nutrients										
Nitrogen, total	7727-37-9	E366/SK	0.020	%		1.03	1.02	1.40	1.06	1.68
Organic / Inorganic Carbon										
Carbon, total [TC], <63µm	----	E351A/SK	0.050	%		11.4	12.9	17.7	16.6	20.8
Carbon, inorganic [IC], <63 µm	----	E354A/SK	0.050	%		0.304	0.234	0.376	0.287	0.311



Analytical Results

Sub-Matrix: Sediment

(Matrix: Soil/Solid)

					Client sample ID	25ONG309 SED HL-250-09 ----	25ONG309 SED HL -250-07 ----	25ONG309 SED HL-500-07 ----	25ONG309 SED HL- 500-11 ----	25ONG309 SED DUP 2 ----
Client sampling date / time						16-Sep-2025 09:24	16-Sep-2025 14:19	16-Sep-2025 15:00	16-Sep-2025 15:53	16-Sep-2025 13:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510782-011	TY2510782-012	TY2510782-013	TY2510782-014	TY2510782-015
						Result	Result	Result	Result	Result
Organic / Inorganic Carbon										
Carbon, total organic [TOC], <63µm	----	EC356A/SK	0.050	%		11.1	12.7	17.3	16.3	20.5
Inorganics										
Sulfides, acid volatile	----	E396/VA	5.0	mg/kg		----	----	----	<5.0	----
Sulfides, acid volatile	----	EC396/VA	0.20	µmol/g		----	----	----	<0.20	----
Metals										
Aluminum	7429-90-5	E440C/WT	50	mg/kg		12400	9270	15800	11100	8300
Mercury	7439-97-6	E510C/WT	0.0050	mg/kg		----	----	----	0.0850	----
Antimony	7440-36-0	E440C/WT	0.10	mg/kg		<0.10	0.26	<0.10	<0.10	<0.10
Arsenic	7440-38-2	E440C/WT	0.10	mg/kg		1.81	9.73	3.09	3.05	1.17
Barium	7440-39-3	E440C/WT	0.50	mg/kg		122	71.6	286	61.8	60.1
Beryllium	7440-41-7	E440C/WT	0.10	mg/kg		0.53	0.32	0.63	0.34	0.35
Bismuth	7440-69-9	E440C/WT	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Boron	7440-42-8	E440C/WT	5.0	mg/kg		9.2	6.5	8.1	6.1	<5.0
Cadmium	7440-43-9	E440C/WT	0.020	mg/kg		0.619	0.766	0.978	0.418	0.476
Calcium	7440-70-2	E440C/WT	50	mg/kg		10600	10000	11300	10600	11800
Chromium	7440-47-3	E440C/WT	0.50	mg/kg		24.6	18.3	20.8	14.9	12.4
Cobalt	7440-48-4	E440C/WT	0.10	mg/kg		11.6	5.42	8.40	7.00	4.23
Copper	7440-50-8	E440C/WT	0.50	mg/kg		60.1	32.7	72.0	31.6	37.0
Iron	7439-89-6	E440C/WT	50	mg/kg		10600	11300	12900	13300	5200
Lead	7439-92-1	E440C/WT	0.50	mg/kg		3.33	24.0	4.64	5.10	3.03
Lithium	7439-93-2	E440C/WT	2.0	mg/kg		7.4	5.5	4.6	6.5	4.3



Analytical Results

Sub-Matrix: Sediment
 (Matrix: Soil/Solid)

					Client sample ID	25ONG309 SED HL-250-09 ----	25ONG309 SED HL -250-07 ----	25ONG309 SED HL-500-07 ----	25ONG309 SED HL- 500-11 ----	25ONG309 SED DUP 2 ----
Client sampling date / time						16-Sep-2025 09:24	16-Sep-2025 14:19	16-Sep-2025 15:00	16-Sep-2025 15:53	16-Sep-2025 13:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510782-011	TY2510782-012	TY2510782-013	TY2510782-014	TY2510782-015
						Result	Result	Result	Result	Result
Metals										
Magnesium	7439-95-4	E440C/WT	20	mg/kg		4180	2970	2520	3930	1650
Manganese	7439-96-5	E440C/WT	1.0	mg/kg		350	491	2070	648	141
Molybdenum	7439-98-7	E440C/WT	0.10	mg/kg		1.59	1.26	2.45	0.96	1.66
Nickel	7440-02-0	E440C/WT	0.50	mg/kg		17.4	13.0	15.4	10.8	9.57
Phosphorus	7723-14-0	E440C/WT	50	mg/kg		989	808	1770	819	566
Potassium	7440-09-7	E440C/WT	100	mg/kg		910	650	710	500	390
Selenium	7782-49-2	E440C/WT	0.20	mg/kg		1.26	1.19	1.87	1.10	1.25
Silver	7440-22-4	E440C/WT	0.10	mg/kg		0.11	<0.10	0.16	<0.10	<0.10
Sodium	7440-23-5	E440C/WT	50	mg/kg		263	167	149	235	169
Strontium	7440-24-6	E440C/WT	0.50	mg/kg		148	85.3	114	116	96.3
Sulfur	7704-34-9	E440C/WT	1000	mg/kg		2900	6800	3400	3100	5600
Thallium	7440-28-0	E440C/WT	0.050	mg/kg		0.534	0.224	0.463	0.222	0.173
Tin	7440-31-5	E440C/WT	2.0	mg/kg		<2.0	<2.0	<2.0	<2.0	<2.0
Titanium	7440-32-6	E440C/WT	1.0	mg/kg		315	261	152	333	133
Tungsten	7440-33-7	E440C/WT	0.50	mg/kg		<0.50	<0.50	0.55	<0.50	<0.50
Uranium	7440-61-1	E440C/WT	0.050	mg/kg		4.92	3.14	6.34	3.36	4.21
Vanadium	7440-62-2	E440C/WT	0.20	mg/kg		39.1	24.4	55.4	26.4	21.9
Zinc	7440-66-6	E440C/WT	2.0	mg/kg		86.9	71.4	113	76.2	58.2
Zirconium	7440-67-7	E440C/WT	1.0	mg/kg		2.0	1.1	1.3	<1.0	1.1
Extractable Metals										
Cadmium	7440-43-9	E449/VA	0.50	mg/kg		----	----	----	0.52	----



Analytical Results

Sub-Matrix: Sediment
 (Matrix: Soil/Solid)

					Client sample ID	25ONG309 SED HL-250-09 ----	25ONG309 SED HL -250-07 ----	25ONG309 SED HL-500-07 ----	25ONG309 SED HL- 500-11 ----	25ONG309 SED DUP 2 ----
Client sampling date / time						16-Sep-2025 09:24	16-Sep-2025 14:19	16-Sep-2025 15:00	16-Sep-2025 15:53	16-Sep-2025 13:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510782-011	TY2510782-012	TY2510782-013	TY2510782-014	TY2510782-015
						Result	Result	Result	Result	Result
Extractable Metals										
Cadmium	7440-43-9	EC449/VA	0.0050	µmol/g		----	----	----	<0.0050	----
Copper	7440-50-8	E449/VA	0.60	mg/kg		----	----	----	20.2	----
Copper	7440-50-8	EC449/VA	0.010	µmol/g		----	----	----	0.318	----
Lead	7439-92-1	E449/VA	4.0	mg/kg		----	----	----	11.5	----
Lead	7439-92-1	EC449/VA	0.020	µmol/g		----	----	----	0.056	----
Mercury	7439-97-6	E519/VA	0.010	mg/kg		----	----	----	<0.010	----
Mercury	7439-97-6	EC519/VA	0.000050	µmol/g		----	----	----	<0.000050	----
Nickel	7440-02-0	E449/VA	2.9	mg/kg		----	----	----	3.0	----
Nickel	7440-02-0	EC449/VA	0.050	µmol/g		----	----	----	0.051	----
Zinc	7440-66-6	E449/VA	0.30	mg/kg		----	----	----	49.4	----
Zinc	7440-66-6	EC449/VA	0.0050	µmol/g		----	----	----	0.756	----
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	0.050	µg/kg		----	----	----	0.635	----
Leachable Anions & Nutrients										
Kjeldahl nitrogen, total [TKN]	----	E319/SK	200	µg/g		10600	11500	15900	12000	18400
Phosphate, ortho- (as P)	14265-44-2	E378/WT	0.080	mg/kg		<0.787	<0.926	8.82	0.815	<1.15

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



Analytical Results

Sub-Matrix: Sediment
 (Matrix: Soil/Solid)

Client sample ID					25ONG309 SED HL-100-09	----	----	----	----
Client sampling date / time					16-Sep-2025 10:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510782-016	----	----	----	----
					Result	----	----	----	----
Physical Tests									
Moisture	----	E144/WT	0.25	%	94.3	----	----	----	----
pH (1:2 soil:CaCl2-aq)	----	E108A/WT	0.10	pH units	6.35	----	----	----	----
Particle Size									
Gravel (>2mm)	----	EC184A/SK	1.0	%	<1.0	----	----	----	----
Sand (2.0mm - 1.0mm)	----	EC184A/SK	1.0	%	<1.0	----	----	----	----
Sand (1.0mm - 0.50mm)	----	EC184A/SK	1.0	%	<1.0	----	----	----	----
Sand (0.5mm - 0.25mm)	----	EC184A/SK	1.0	%	<1.0	----	----	----	----
Sand (0.25mm - 0.125mm)	----	EC184A/SK	1.0	%	2.1	----	----	----	----
Sand (0.125mm - 0.063mm)	----	EC184A/SK	1.0	%	5.3	----	----	----	----
Silt (0.0312mm - 0.004mm)	----	EC184A/SK	1.0	%	45.7	----	----	----	----
Silt (0.063mm - 0.0312mm)	----	EC184A/SK	1.0	%	35.7	----	----	----	----
Clay (<0.004mm)	----	EC184A/SK	1.0	%	11.0	----	----	----	----
Grain size curve	----	E185A/SK	-	-	See Attached	----	----	----	----
Percent Passing									
Passing (0.002mm)	----	E184/SK	1.0	%	8.2	----	----	----	----
Passing (0.004mm)	----	E184/SK	1.0	%	11.0	----	----	----	----
Passing (0.005mm)	----	E184/SK	1.0	%	12.3	----	----	----	----
Passing (0.020mm)	----	E184/SK	1.0	%	36.1	----	----	----	----
Passing (0.0312mm)	----	E184/SK	1.0	%	56.7	----	----	----	----
Passing (0.05mm)	----	E182/SK	1.0	%	91.2	----	----	----	----
Passing (0.063mm)	----	E182/SK	1.0	%	92.4	----	----	----	----



Analytical Results

Sub-Matrix: Sediment
 (Matrix: Soil/Solid)

Client sample ID					25ONG309 SED HL-100-09	----	----	----	----
Client sampling date / time					16-Sep-2025 10:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510782-016	----	----	----	----
					Result	----	----	----	----
Percent Passing									
Passing (0.075mm)	----	E182/SK	1.0	%	93.4	----	----	----	----
Passing (0.125mm)	----	E182/SK	1.0	%	97.7	----	----	----	----
Passing (0.149mm)	----	E182/SK	1.0	%	98.1	----	----	----	----
Passing (0.250mm)	----	E182/SK	1.0	%	99.8	----	----	----	----
Passing (0.420mm)	----	E182/SK	1.0	%	99.9	----	----	----	----
Passing (0.50mm)	----	E182/SK	1.0	%	99.9	----	----	----	----
Passing (0.841mm)	----	E182/SK	1.0	%	100.0	----	----	----	----
Passing (1.0mm)	----	E182/SK	1.0	%	100.0	----	----	----	----
Passing (19mm)	----	E181/SK	1.0	%	100.0	----	----	----	----
Passing (2.0mm)	----	E181/SK	1.0	%	100.0	----	----	----	----
Passing (25.4mm)	----	E181/SK	1.0	%	100.0	----	----	----	----
Passing (38.1mm)	----	E181/SK	1.0	%	100.0	----	----	----	----
Passing (4.75mm)	----	E181/SK	1.0	%	100.0	----	----	----	----
Passing (50.8mm)	----	E181/SK	1.0	%	100.0	----	----	----	----
Passing (76.2mm)	----	E181/SK	1.0	%	100.0	----	----	----	----
Passing (9.5mm)	----	E181/SK	1.0	%	100.0	----	----	----	----
Anions and Nutrients									
Nitrogen, total	7727-37-9	E366/SK	0.020	%	1.15	----	----	----	----
Organic / Inorganic Carbon									
Carbon, total [TC], <63µm	----	E351A/SK	0.050	%	16.8	----	----	----	----
Carbon, inorganic [IC], <63 µm	----	E354A/SK	0.050	%	0.190	----	----	----	----



Analytical Results

Sub-Matrix: Sediment
 (Matrix: Soil/Solid)

Client sample ID					25ONG309 SED HL-100-09	----	----	----	----
Client sampling date / time					16-Sep-2025 10:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510782-016	----	----	----	----
					Result	----	----	----	----
Organic / Inorganic Carbon									
Carbon, total organic [TOC], <63µm	----	EC356A/SK	0.050	%	16.6	----	----	----	----
Metals									
Aluminum	7429-90-5	E440C/WT	50	mg/kg	6450	----	----	----	----
Antimony	7440-36-0	E440C/WT	0.10	mg/kg	<0.15 ^{DLM}	----	----	----	----
Arsenic	7440-38-2	E440C/WT	0.10	mg/kg	1.27	----	----	----	----
Barium	7440-39-3	E440C/WT	0.50	mg/kg	40.1	----	----	----	----
Beryllium	7440-41-7	E440C/WT	0.10	mg/kg	0.21	----	----	----	----
Bismuth	7440-69-9	E440C/WT	0.20	mg/kg	<0.29 ^{DLM}	----	----	----	----
Boron	7440-42-8	E440C/WT	5.0	mg/kg	7.4	----	----	----	----
Cadmium	7440-43-9	E440C/WT	0.020	mg/kg	0.335	----	----	----	----
Calcium	7440-70-2	E440C/WT	50	mg/kg	9170	----	----	----	----
Chromium	7440-47-3	E440C/WT	0.50	mg/kg	13.4	----	----	----	----
Cobalt	7440-48-4	E440C/WT	0.10	mg/kg	4.54	----	----	----	----
Copper	7440-50-8	E440C/WT	0.50	mg/kg	51.6	----	----	----	----
Iron	7439-89-6	E440C/WT	50	mg/kg	5970	----	----	----	----
Lead	7439-92-1	E440C/WT	0.50	mg/kg	2.37	----	----	----	----
Lithium	7439-93-2	E440C/WT	2.0	mg/kg	3.8	----	----	----	----
Magnesium	7439-95-4	E440C/WT	20	mg/kg	1910	----	----	----	----
Manganese	7439-96-5	E440C/WT	1.0	mg/kg	185	----	----	----	----
Molybdenum	7439-98-7	E440C/WT	0.10	mg/kg	2.84	----	----	----	----
Nickel	7440-02-0	E440C/WT	0.50	mg/kg	14.6	----	----	----	----



Analytical Results

Sub-Matrix: Sediment
 (Matrix: Soil/Solid)

Client sample ID					25ONG309 SED HL-100-09	----	----	----	----
Client sampling date / time					16-Sep-2025 10:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510782-016	----	----	----	----
					Result	----	----	----	----
Metals									
Phosphorus	7723-14-0	E440C/WT	50	mg/kg	605	----	----	----	----
Potassium	7440-09-7	E440C/WT	100	mg/kg	560	----	----	----	----
Selenium	7782-49-2	E440C/WT	0.20	mg/kg	1.29	----	----	----	----
Silver	7440-22-4	E440C/WT	0.10	mg/kg	<0.15 ^{DLM}	----	----	----	----
Sodium	7440-23-5	E440C/WT	50	mg/kg	160	----	----	----	----
Strontium	7440-24-6	E440C/WT	0.50	mg/kg	86.1	----	----	----	----
Sulfur	7704-34-9	E440C/WT	1000	mg/kg	4500	----	----	----	----
Thallium	7440-28-0	E440C/WT	0.050	mg/kg	0.162	----	----	----	----
Tin	7440-31-5	E440C/WT	2.0	mg/kg	<2.9 ^{DLM}	----	----	----	----
Titanium	7440-32-6	E440C/WT	1.0	mg/kg	256	----	----	----	----
Tungsten	7440-33-7	E440C/WT	0.50	mg/kg	<0.74 ^{DLM}	----	----	----	----
Uranium	7440-61-1	E440C/WT	0.050	mg/kg	3.08	----	----	----	----
Vanadium	7440-62-2	E440C/WT	0.20	mg/kg	17.0	----	----	----	----
Zinc	7440-66-6	E440C/WT	2.0	mg/kg	44.7	----	----	----	----
Zirconium	7440-67-7	E440C/WT	1.0	mg/kg	1.5	----	----	----	----
Leachable Anions & Nutrients									
Kjeldahl nitrogen, total [TKN]	----	E319/SK	200	µg/g	13400	----	----	----	----
Phosphate, ortho- (as P)	14265-44-2	E378/WT	0.080	mg/kg	3.56	----	----	----	----

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

Quality Control Interpretive Report

Work Order : **TY2510782**

Client : G3 Consulting Ltd.
Contact : Greg Thomas
Address : 206-8501 162nd St.
Surrey BC Canada V4N 1B2
Telephone : 604 598 8501
Project : 2502
PO : 2502
C-O-C number : ----
Sampler : ----
Site : ----
Quote number : Dubreuilville Project
No. of samples received : 16
No. of samples analysed : 16

Laboratory : ALS Environmental - Thunder Bay
Account Manager : Colby Coutu
Address : 1081 Barton Street
Thunder Bay ON Canada P7B 5N3
Telephone : +1 807 623 6463
Date Samples Received : 19-Sep-2025 16:30
Issue Date : 07-Jan-2026 13:43

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 Services 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.
- Laboratory Control Sample (LCS) outliers occur - please see following pages for full details.
- No Laboratory Control Sample Duplicate (LCSD) outliers occur
- No Matrix Spike outliers occur.
- No Matrix Spike Duplicate (MSD) 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)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix :Soil/Solid

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Laboratory Control Sample (LCS) Recoveries								
Metals	QC-MRG2-2245415-002	----	Aluminum	7429-90-5	E440C	130 %	MES	80.0-120% Recovery greater than upper control limit

Result Qualifiers

Qualifier	Description
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).



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: Soil/Solid

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
Client sample ID						Rec	Actual			Rec	Actual	
Anions and Nutrients : Total Nitrogen by Combustion												
Glass soil jar/Teflon lined cap												
25ONG309 SED OL-B	001	2250523	E366	16-Sep-2025	30-Sep-2025	28 days	14 days	✔	30-Sep-2025	28 days	14 days	✔
25ONG309 SED OL-100	002	2250523	E366	16-Sep-2025	30-Sep-2025	28 days	14 days	✔	30-Sep-2025	28 days	14 days	✔
25ONG309 SED OL-250	003	2250523	E366	16-Sep-2025	30-Sep-2025	28 days	14 days	✔	30-Sep-2025	28 days	14 days	✔
25ONG309 SED OL-F	004	2250523	E366	16-Sep-2025	30-Sep-2025	28 days	14 days	✔	30-Sep-2025	28 days	14 days	✔
25ONG309 SED DUP 1	005	2250523	E366	16-Sep-2025	30-Sep-2025	28 days	14 days	✔	30-Sep-2025	28 days	14 days	✔
25ONG309 SED HL-B-IN	006	2250523	E366	16-Sep-2025	30-Sep-2025	28 days	14 days	✔	30-Sep-2025	28 days	14 days	✔
25ONG309 SED HL-REF	007	2250523	E366	16-Sep-2025	30-Sep-2025	28 days	14 days	✔	30-Sep-2025	28 days	14 days	✔
25ONG309 SED HL-100-07	008	2250523	E366	16-Sep-2025	30-Sep-2025	28 days	14 days	✔	30-Sep-2025	28 days	14 days	✔
25ONG309 SED HL-100-11	009	2250523	E366	16-Sep-2025	30-Sep-2025	28 days	14 days	✔	30-Sep-2025	28 days	14 days	✔
25ONG309 SED HL-250-11	010	2250523	E366	16-Sep-2025	30-Sep-2025	28 days	14 days	✔	30-Sep-2025	28 days	14 days	✔
25ONG309 SED HL-250-09	011	2250523	E366	16-Sep-2025	30-Sep-2025	28 days	14 days	✔	30-Sep-2025	28 days	14 days	✔
25ONG309 SED HL-250-07	012	2250523	E366	16-Sep-2025	30-Sep-2025	28 days	14 days	✔	30-Sep-2025	28 days	14 days	✔
25ONG309 SED HL-500-07	013	2250523	E366	16-Sep-2025	30-Sep-2025	28 days	14 days	✔	30-Sep-2025	28 days	14 days	✔



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method		ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation			Analysis				
Container						Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
Client sample ID							Rec	Actual			Rec	Actual	
Anions and Nutrients : Total Nitrogen by Combustion													
Glass soil jar/Teflon lined cap													
25ONG309 SED HL-500-11	014	2250523	E366	16-Sep-2025	30-Sep-2025	28 days	14 days	✓	30-Sep-2025	28 days	14 days	✓	
25ONG309 SED DUP 2	015	2250523	E366	16-Sep-2025	30-Sep-2025	28 days	14 days	✓	30-Sep-2025	28 days	14 days	✓	
25ONG309 SED HL-100-09	016	2250523	E366	16-Sep-2025	30-Sep-2025	28 days	14 days	✓	30-Sep-2025	28 days	14 days	✓	
Extractable Metals : Simultaneously Extracted Mercury by CVAAS													
Glass soil jar/Teflon lined cap													
25ONG309 SED OL-100	002	2249472	E519	16-Sep-2025	30-Sep-2025	28 days	14 days	✓	02-Oct-2025	28 days	16 days	✓	
25ONG309 SED OL-F	004	2249472	E519	16-Sep-2025	30-Sep-2025	28 days	14 days	✓	02-Oct-2025	28 days	16 days	✓	
25ONG309 SED HL-REF	007	2249472	E519	16-Sep-2025	30-Sep-2025	28 days	14 days	✓	02-Oct-2025	28 days	16 days	✓	
25ONG309 SED HL-500-11	014	2249472	E519	16-Sep-2025	30-Sep-2025	28 days	14 days	✓	02-Oct-2025	28 days	15 days	✓	
Extractable Metals : Simultaneously Extracted Metals by CRC ICPMS (mg/kg)													
Glass soil jar/Teflon lined cap													
25ONG309 SED OL-100	002	2249471	E449	16-Sep-2025	30-Sep-2025	180 days	14 days	✓	03-Oct-2025	180 days	16 days	✓	
25ONG309 SED OL-F	004	2249471	E449	16-Sep-2025	30-Sep-2025	180 days	14 days	✓	03-Oct-2025	180 days	16 days	✓	
25ONG309 SED HL-REF	007	2249471	E449	16-Sep-2025	30-Sep-2025	180 days	14 days	✓	03-Oct-2025	180 days	17 days	✓	
25ONG309 SED HL-500-11	014	2249471	E449	16-Sep-2025	30-Sep-2025	180 days	14 days	✓	03-Oct-2025	180 days	16 days	✓	
Inorganics : Acid Volatile Sulfide by Colourimetry (5 mg/kg)													
Glass soil jar/Teflon lined cap													
25ONG309 SED OL-100	002	2249477	E396	16-Sep-2025	30-Sep-2025	14 days	14 days	✓	02-Oct-2025	7 days	1 days	✓	
25ONG309 SED OL-F	004	2249477	E396	16-Sep-2025	30-Sep-2025	14 days	14 days	✓	02-Oct-2025	7 days	1 days	✓	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Inorganics : Acid Volatile Sulfide by Colourimetry (5 mg/kg)												
Glass soil jar/Teflon lined cap												
25ONG309 SED HL-REF	007	2249477	E396	16-Sep-2025	30-Sep-2025	14 days	14 days	✔	02-Oct-2025	7 days	1 days	✔
25ONG309 SED HL-500-11	014	2249477	E396	16-Sep-2025	30-Sep-2025	14 days	14 days	✔	02-Oct-2025	7 days	1 days	✔
Leachable Anions & Nutrients : Ortho-phosphate by Colorimetry (1:10 Soil:Water) (mg/kg)												
Double bagged HDPE												
25ONG309 SED OL-B	001	2245547	E378	16-Sep-2025	27-Sep-2025	28 days	11 days	✔	30-Sep-2025	28 days	14 days	✔
25ONG309 SED OL-100	002	2245547	E378	16-Sep-2025	27-Sep-2025	28 days	11 days	✔	30-Sep-2025	28 days	14 days	✔
25ONG309 SED OL-250	003	2245547	E378	16-Sep-2025	27-Sep-2025	28 days	11 days	✔	30-Sep-2025	28 days	14 days	✔
25ONG309 SED OL-F	004	2245547	E378	16-Sep-2025	27-Sep-2025	28 days	11 days	✔	30-Sep-2025	28 days	14 days	✔
25ONG309 SED DUP 1	005	2245547	E378	16-Sep-2025	27-Sep-2025	28 days	11 days	✔	30-Sep-2025	28 days	14 days	✔
25ONG309 SED HL-B-IN	006	2245547	E378	16-Sep-2025	27-Sep-2025	28 days	11 days	✔	30-Sep-2025	28 days	14 days	✔
25ONG309 SED HL-REF	007	2245547	E378	16-Sep-2025	27-Sep-2025	28 days	11 days	✔	30-Sep-2025	28 days	14 days	✔
25ONG309 SED HL-100-07	008	2245547	E378	16-Sep-2025	27-Sep-2025	28 days	11 days	✔	30-Sep-2025	28 days	14 days	✔
25ONG309 SED HL-100-11	009	2245547	E378	16-Sep-2025	27-Sep-2025	28 days	11 days	✔	30-Sep-2025	28 days	14 days	✔
25ONG309 SED HL-250-11	010	2245547	E378	16-Sep-2025	27-Sep-2025	28 days	11 days	✔	30-Sep-2025	28 days	14 days	✔
25ONG309 SED HL-250-09	011	2245547	E378	16-Sep-2025	27-Sep-2025	28 days	11 days	✔	30-Sep-2025	28 days	14 days	✔
25ONG309 SED HL-250-07	012	2245547	E378	16-Sep-2025	27-Sep-2025	28 days	11 days	✔	30-Sep-2025	28 days	14 days	✔
25ONG309 SED HL-500-07	013	2245547	E378	16-Sep-2025	27-Sep-2025	28 days	11 days	✔	30-Sep-2025	28 days	14 days	✔
25ONG309 SED HL-500-11	014	2245547	E378	16-Sep-2025	27-Sep-2025	28 days	11 days	✔	30-Sep-2025	28 days	14 days	✔



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Leachable Anions & Nutrients : Ortho-phosphate by Colorimetry (1:10 Soil:Water) (mg/kg)												
Double bagged HDPE												
25ONG309 SED DUP 2	015	2245547	E378	16-Sep-2025	27-Sep-2025	28 days	11 days	✔	30-Sep-2025	28 days	14 days	✔
25ONG309 SED HL-100-09	016	2245547	E378	16-Sep-2025	27-Sep-2025	28 days	11 days	✔	30-Sep-2025	28 days	14 days	✔
Leachable Anions & Nutrients : Total Kjeldahl Nitrogen by Colourimetry												
Glass soil jar/Teflon lined cap												
25ONG309 SED OL-B	001	2257509	E319	16-Sep-2025	04-Oct-2025	365 days	18 days	✔	06-Oct-2025	365 days	20 days	✔
25ONG309 SED OL-100	002	2257509	E319	16-Sep-2025	04-Oct-2025	365 days	18 days	✔	06-Oct-2025	365 days	20 days	✔
25ONG309 SED OL-250	003	2257509	E319	16-Sep-2025	04-Oct-2025	365 days	18 days	✔	06-Oct-2025	365 days	20 days	✔
25ONG309 SED OL-F	004	2257509	E319	16-Sep-2025	04-Oct-2025	365 days	18 days	✔	06-Oct-2025	365 days	20 days	✔
25ONG309 SED DUP 1	005	2257509	E319	16-Sep-2025	04-Oct-2025	365 days	18 days	✔	06-Oct-2025	365 days	20 days	✔
25ONG309 SED HL-B-IN	006	2257509	E319	16-Sep-2025	04-Oct-2025	365 days	18 days	✔	06-Oct-2025	365 days	20 days	✔
25ONG309 SED HL-REF	007	2257509	E319	16-Sep-2025	04-Oct-2025	365 days	18 days	✔	06-Oct-2025	365 days	20 days	✔
25ONG309 SED HL-100-07	008	2257509	E319	16-Sep-2025	04-Oct-2025	365 days	18 days	✔	06-Oct-2025	365 days	20 days	✔
25ONG309 SED HL-100-11	009	2257509	E319	16-Sep-2025	04-Oct-2025	365 days	18 days	✔	06-Oct-2025	365 days	20 days	✔
25ONG309 SED HL-250-11	010	2257509	E319	16-Sep-2025	04-Oct-2025	365 days	18 days	✔	06-Oct-2025	365 days	20 days	✔
25ONG309 SED HL-250-09	011	2257509	E319	16-Sep-2025	04-Oct-2025	365 days	18 days	✔	06-Oct-2025	365 days	20 days	✔
25ONG309 SED HL-250-07	012	2257509	E319	16-Sep-2025	04-Oct-2025	365 days	18 days	✔	06-Oct-2025	365 days	20 days	✔
25ONG309 SED HL-500-07	013	2257509	E319	16-Sep-2025	04-Oct-2025	365 days	18 days	✔	06-Oct-2025	365 days	20 days	✔
25ONG309 SED HL-500-11	014	2257509	E319	16-Sep-2025	04-Oct-2025	365 days	18 days	✔	06-Oct-2025	365 days	20 days	✔



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method		ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation			Analysis				
Container						Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
Client sample ID							Rec	Actual			Rec	Actual	
Leachable Anions & Nutrients : Total Kjeldahl Nitrogen by Colourimetry													
Glass soil jar/Teflon lined cap													
25ONG309 SED DUP 2	015	2257509	E319	16-Sep-2025	04-Oct-2025	365 days	18 days	✓	06-Oct-2025	365 days	20 days	✓	
25ONG309 SED HL-100-09	016	2257509	E319	16-Sep-2025	04-Oct-2025	365 days	18 days	✓	06-Oct-2025	365 days	20 days	✓	
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)													
Double bagged HDPE													
25ONG309 SED OL-100	002	2245416	E510C	16-Sep-2025	29-Sep-2025	28 days	12 days	✓	29-Sep-2025	28 days	13 days	✓	
25ONG309 SED OL-F	004	2245416	E510C	16-Sep-2025	29-Sep-2025	28 days	12 days	✓	29-Sep-2025	28 days	13 days	✓	
25ONG309 SED HL-REF	007	2245416	E510C	16-Sep-2025	29-Sep-2025	28 days	13 days	✓	29-Sep-2025	28 days	13 days	✓	
25ONG309 SED HL-500-11	014	2245416	E510C	16-Sep-2025	29-Sep-2025	28 days	12 days	✓	29-Sep-2025	28 days	13 days	✓	
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)													
Double bagged HDPE													
25ONG309 SED OL-B	001	2245415	E440C	16-Sep-2025	29-Sep-2025	180 days	12 days	✓	29-Sep-2025	180 days	13 days	✓	
25ONG309 SED OL-100	002	2245415	E440C	16-Sep-2025	29-Sep-2025	180 days	12 days	✓	29-Sep-2025	180 days	13 days	✓	
25ONG309 SED OL-250	003	2245415	E440C	16-Sep-2025	29-Sep-2025	180 days	12 days	✓	29-Sep-2025	180 days	13 days	✓	
25ONG309 SED OL-F	004	2245415	E440C	16-Sep-2025	29-Sep-2025	180 days	12 days	✓	29-Sep-2025	180 days	13 days	✓	
25ONG309 SED DUP 1	005	2245415	E440C	16-Sep-2025	29-Sep-2025	180 days	12 days	✓	29-Sep-2025	180 days	13 days	✓	
25ONG309 SED HL-B-IN	006	2245415	E440C	16-Sep-2025	29-Sep-2025	180 days	12 days	✓	29-Sep-2025	180 days	13 days	✓	
25ONG309 SED HL-REF	007	2245415	E440C	16-Sep-2025	29-Sep-2025	180 days	13 days	✓	29-Sep-2025	180 days	13 days	✓	
25ONG309 SED HL-100-07	008	2245415	E440C	16-Sep-2025	29-Sep-2025	180 days	13 days	✓	29-Sep-2025	180 days	13 days	✓	
25ONG309 SED HL-100-11	009	2245415	E440C	16-Sep-2025	29-Sep-2025	180 days	12 days	✓	29-Sep-2025	180 days	13 days	✓	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)												
Double bagged HDPE												
25ONG309 SED HL-250-11	010	2245415	E440C	16-Sep-2025	29-Sep-2025	180 days	12 days	✓	29-Sep-2025	180 days	13 days	✓
25ONG309 SED HL-250-09	011	2245415	E440C	16-Sep-2025	29-Sep-2025	180 days	13 days	✓	29-Sep-2025	180 days	13 days	✓
25ONG309 SED HL-250-07	012	2245415	E440C	16-Sep-2025	29-Sep-2025	180 days	12 days	✓	29-Sep-2025	180 days	13 days	✓
25ONG309 SED HL-500-07	013	2245415	E440C	16-Sep-2025	29-Sep-2025	180 days	12 days	✓	29-Sep-2025	180 days	13 days	✓
25ONG309 SED HL-500-11	014	2245415	E440C	16-Sep-2025	29-Sep-2025	180 days	12 days	✓	29-Sep-2025	180 days	13 days	✓
25ONG309 SED DUP 2	015	2245415	E440C	16-Sep-2025	29-Sep-2025	180 days	12 days	✓	29-Sep-2025	180 days	13 days	✓
25ONG309 SED HL-100-09	016	2245415	E440C	16-Sep-2025	29-Sep-2025	180 days	13 days	✓	29-Sep-2025	180 days	13 days	✓
Organic / Inorganic Carbon : Total Carbon by Combustion (<63 µm)												
Glass soil jar/Teflon lined cap												
25ONG309 SED OL-B	001	2252496	E351A	16-Sep-2025	01-Oct-2025	----	----		01-Oct-2025	----	----	
25ONG309 SED OL-100	002	2252496	E351A	16-Sep-2025	01-Oct-2025	----	----		01-Oct-2025	----	----	
25ONG309 SED OL-250	003	2252496	E351A	16-Sep-2025	01-Oct-2025	----	----		01-Oct-2025	----	----	
25ONG309 SED OL-F	004	2252496	E351A	16-Sep-2025	01-Oct-2025	----	----		01-Oct-2025	----	----	
25ONG309 SED DUP 1	005	2252496	E351A	16-Sep-2025	01-Oct-2025	----	----		01-Oct-2025	----	----	
25ONG309 SED HL-B-IN	006	2252496	E351A	16-Sep-2025	01-Oct-2025	----	----		01-Oct-2025	----	----	
25ONG309 SED HL-REF	007	2252496	E351A	16-Sep-2025	01-Oct-2025	----	----		01-Oct-2025	----	----	
25ONG309 SED HL-100-07	008	2252496	E351A	16-Sep-2025	01-Oct-2025	----	----		01-Oct-2025	----	----	
25ONG309 SED HL-100-11	009	2252496	E351A	16-Sep-2025	01-Oct-2025	----	----		01-Oct-2025	----	----	
25ONG309 SED HL-250-11	010	2252496	E351A	16-Sep-2025	01-Oct-2025	----	----		01-Oct-2025	----	----	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Organic / Inorganic Carbon : Total Carbon by Combustion (<63 μm)												
Glass soil jar/Teflon lined cap												
25ONG309 SED HL-250-09	011	2252496	E351A	16-Sep-2025	01-Oct-2025	----	----		01-Oct-2025	----	----	
25ONG309 SED HL-250-07	012	2252496	E351A	16-Sep-2025	01-Oct-2025	----	----		01-Oct-2025	----	----	
25ONG309 SED HL-500-07	013	2252496	E351A	16-Sep-2025	01-Oct-2025	----	----		01-Oct-2025	----	----	
25ONG309 SED HL-500-11	014	2252496	E351A	16-Sep-2025	01-Oct-2025	----	----		01-Oct-2025	----	----	
25ONG309 SED DUP 2	015	2252496	E351A	16-Sep-2025	01-Oct-2025	----	----		01-Oct-2025	----	----	
25ONG309 SED HL-100-09	016	2252496	E351A	16-Sep-2025	01-Oct-2025	----	----		01-Oct-2025	----	----	
Organic / Inorganic Carbon : Total Inorganic Carbon by Acetic Acid pH Standard Curve (<63 μm)												
Glass soil jar/Teflon lined cap												
25ONG309 SED OL-B	001	2247768	E354A	16-Sep-2025	----	----	----		29-Sep-2025	----	----	
25ONG309 SED OL-100	002	2247768	E354A	16-Sep-2025	----	----	----		29-Sep-2025	----	----	
25ONG309 SED OL-250	003	2247768	E354A	16-Sep-2025	----	----	----		29-Sep-2025	----	----	
25ONG309 SED OL-F	004	2247768	E354A	16-Sep-2025	----	----	----		29-Sep-2025	----	----	
25ONG309 SED DUP 1	005	2247768	E354A	16-Sep-2025	----	----	----		29-Sep-2025	----	----	
25ONG309 SED HL-B-IN	006	2247768	E354A	16-Sep-2025	----	----	----		29-Sep-2025	----	----	
25ONG309 SED HL-REF	007	2247768	E354A	16-Sep-2025	----	----	----		29-Sep-2025	----	----	
25ONG309 SED HL-100-07	008	2247768	E354A	16-Sep-2025	----	----	----		29-Sep-2025	----	----	
25ONG309 SED HL-100-11	009	2247768	E354A	16-Sep-2025	----	----	----		29-Sep-2025	----	----	
25ONG309 SED HL-250-11	010	2247768	E354A	16-Sep-2025	----	----	----		29-Sep-2025	----	----	
25ONG309 SED HL-250-09	011	2247768	E354A	16-Sep-2025	----	----	----		29-Sep-2025	----	----	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Organic / Inorganic Carbon : Total Inorganic Carbon by Acetic Acid pH Standard Curve (<63 µm)												
Glass soil jar/Teflon lined cap												
25ONG309 SED HL-250-07	012	2247768	E354A	16-Sep-2025	----	----	----		29-Sep-2025	----	----	
25ONG309 SED HL-500-07	013	2247768	E354A	16-Sep-2025	----	----	----		29-Sep-2025	----	----	
25ONG309 SED HL-500-11	014	2247768	E354A	16-Sep-2025	----	----	----		29-Sep-2025	----	----	
25ONG309 SED DUP 2	015	2247768	E354A	16-Sep-2025	----	----	----		29-Sep-2025	----	----	
25ONG309 SED HL-100-09	016	2247768	E354A	16-Sep-2025	----	----	----		29-Sep-2025	----	----	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method												
Glass soil jar/Teflon lined cap												
25ONG309 SED OL-B	001		E185A	16-Sep-2025	----	----	----		03-Oct-2025	----	----	
25ONG309 SED OL-100	002		E185A	16-Sep-2025	----	----	----		03-Oct-2025	----	----	
25ONG309 SED OL-250	003		E185A	16-Sep-2025	----	----	----		03-Oct-2025	----	----	
25ONG309 SED OL-F	004		E185A	16-Sep-2025	----	----	----		03-Oct-2025	----	----	
25ONG309 SED DUP 1	005		E185A	16-Sep-2025	----	----	----		03-Oct-2025	----	----	
25ONG309 SED HL-B-IN	006		E185A	16-Sep-2025	----	----	----		03-Oct-2025	----	----	
25ONG309 SED HL-REF	007		E185A	16-Sep-2025	----	----	----		03-Oct-2025	----	----	
25ONG309 SED HL-100-07	008		E185A	16-Sep-2025	----	----	----		03-Oct-2025	----	----	
25ONG309 SED HL-100-11	009		E185A	16-Sep-2025	----	----	----		03-Oct-2025	----	----	
25ONG309 SED HL-250-11	010		E185A	16-Sep-2025	----	----	----		03-Oct-2025	----	----	
25ONG309 SED HL-250-09	011		E185A	16-Sep-2025	----	----	----		03-Oct-2025	----	----	
25ONG309 SED HL-250-07	012		E185A	16-Sep-2025	----	----	----		03-Oct-2025	----	----	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method												
Glass soil jar/Teflon lined cap												
25ONG309 SED HL-500-07	013		E185A	16-Sep-2025	----	----	----		03-Oct-2025	----	----	
25ONG309 SED HL-500-11	014		E185A	16-Sep-2025	----	----	----		03-Oct-2025	----	----	
25ONG309 SED DUP 2	015		E185A	16-Sep-2025	----	----	----		03-Oct-2025	----	----	
25ONG309 SED HL-100-09	016		E185A	16-Sep-2025	----	----	----		03-Oct-2025	----	----	
Percent Passing : Particle Size Analysis - Pipette Method												
Glass soil jar/Teflon lined cap												
25ONG309 SED OL-B	001	2242038	E184	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED OL-100	002	2242038	E184	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED OL-250	003	2242038	E184	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED OL-F	004	2242038	E184	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED DUP 1	005	2242038	E184	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED HL-B-IN	006	2242038	E184	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED HL-REF	007	2242038	E184	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED HL-100-07	008	2242038	E184	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED HL-100-11	009	2242038	E184	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED HL-250-11	010	2242038	E184	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED HL-250-09	011	2242038	E184	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED HL-250-07	012	2242038	E184	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Percent Passing : Particle Size Analysis - Pipette Method												
Glass soil jar/Teflon lined cap												
25ONG309 SED HL-500-07	013	2242038	E184	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED HL-500-11	014	2242038	E184	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED DUP 2	015	2242038	E184	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED HL-100-09	016	2242038	E184	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
Percent Passing : Particle Size Analysis - Sieve <2mm												
Glass soil jar/Teflon lined cap												
25ONG309 SED OL-B	001	2242040	E182	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED OL-100	002	2242040	E182	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED OL-250	003	2242040	E182	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED OL-F	004	2242040	E182	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED DUP 1	005	2242040	E182	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED HL-B-IN	006	2242040	E182	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED HL-REF	007	2242040	E182	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED HL-100-07	008	2242040	E182	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED HL-100-11	009	2242040	E182	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED HL-250-11	010	2242040	E182	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED HL-250-09	011	2242040	E182	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED HL-250-07	012	2242040	E182	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Percent Passing : Particle Size Analysis - Sieve <2mm												
Glass soil jar/Teflon lined cap												
25ONG309 SED HL-500-07	013	2242040	E182	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED HL-500-11	014	2242040	E182	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED DUP 2	015	2242040	E182	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED HL-100-09	016	2242040	E182	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
Percent Passing : Particle Size Analysis - Sieve >2mm												
Glass soil jar/Teflon lined cap												
25ONG309 SED OL-B	001	2242039	E181	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED OL-100	002	2242039	E181	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED OL-250	003	2242039	E181	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED OL-F	004	2242039	E181	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED DUP 1	005	2242039	E181	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED HL-B-IN	006	2242039	E181	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED HL-REF	007	2242039	E181	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED HL-100-07	008	2242039	E181	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED HL-100-11	009	2242039	E181	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED HL-250-11	010	2242039	E181	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED HL-250-09	011	2242039	E181	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED HL-250-07	012	2242039	E181	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Percent Passing : Particle Size Analysis - Sieve >2mm												
Glass soil jar/Teflon lined cap												
25ONG309 SED HL-500-07	013	2242039	E181	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED HL-500-11	014	2242039	E181	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED DUP 2	015	2242039	E181	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
25ONG309 SED HL-100-09	016	2242039	E181	16-Sep-2025	25-Sep-2025	365 days	9 days	✓	25-Sep-2025	365 days	9 days	✓
Physical Tests : Moisture Content by Gravimetry												
Double bagged HDPE												
25ONG309 SED OL-B	001	2245052	E144	16-Sep-2025	----	----	----		27-Sep-2025	----	----	
25ONG309 SED OL-100	002	2245052	E144	16-Sep-2025	----	----	----		27-Sep-2025	----	----	
25ONG309 SED OL-250	003	2245052	E144	16-Sep-2025	----	----	----		27-Sep-2025	----	----	
25ONG309 SED OL-F	004	2245052	E144	16-Sep-2025	----	----	----		27-Sep-2025	----	----	
25ONG309 SED DUP 1	005	2245052	E144	16-Sep-2025	----	----	----		27-Sep-2025	----	----	
25ONG309 SED HL-B-IN	006	2245052	E144	16-Sep-2025	----	----	----		27-Sep-2025	----	----	
25ONG309 SED HL-REF	007	2245052	E144	16-Sep-2025	----	----	----		27-Sep-2025	----	----	
25ONG309 SED HL-100-07	008	2245052	E144	16-Sep-2025	----	----	----		27-Sep-2025	----	----	
25ONG309 SED HL-100-11	009	2245052	E144	16-Sep-2025	----	----	----		27-Sep-2025	----	----	
25ONG309 SED HL-250-11	010	2245052	E144	16-Sep-2025	----	----	----		27-Sep-2025	----	----	
25ONG309 SED HL-250-09	011	2245052	E144	16-Sep-2025	----	----	----		27-Sep-2025	----	----	
25ONG309 SED HL-250-07	012	2245052	E144	16-Sep-2025	----	----	----		27-Sep-2025	----	----	
25ONG309 SED HL-500-07	013	2245052	E144	16-Sep-2025	----	----	----		27-Sep-2025	----	----	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method		ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation			Analysis				
Container						Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
							Rec	Actual			Rec	Actual	
Client sample ID													
Physical Tests : Moisture Content by Gravimetry													
Double bagged HDPE													
25ONG309 SED HL-500-11	014	2245052	E144	16-Sep-2025	----	----	----		27-Sep-2025	----	----		
25ONG309 SED DUP 2	015	2245052	E144	16-Sep-2025	----	----	----		27-Sep-2025	----	----		
25ONG309 SED HL-100-09	016	2245052	E144	16-Sep-2025	----	----	----		27-Sep-2025	----	----		
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received													
Double bagged HDPE													
25ONG309 SED OL-B	001	2245038	E108A	16-Sep-2025	27-Sep-2025	30 days	10 days	✓	28-Sep-2025	30 days	12 days	✓	
25ONG309 SED OL-100	002	2245038	E108A	16-Sep-2025	27-Sep-2025	30 days	10 days	✓	28-Sep-2025	30 days	12 days	✓	
25ONG309 SED OL-250	003	2245038	E108A	16-Sep-2025	27-Sep-2025	30 days	10 days	✓	28-Sep-2025	30 days	12 days	✓	
25ONG309 SED OL-F	004	2245038	E108A	16-Sep-2025	27-Sep-2025	30 days	10 days	✓	28-Sep-2025	30 days	12 days	✓	
25ONG309 SED DUP 1	005	2245038	E108A	16-Sep-2025	27-Sep-2025	30 days	10 days	✓	28-Sep-2025	30 days	12 days	✓	
25ONG309 SED HL-B-IN	006	2245038	E108A	16-Sep-2025	27-Sep-2025	30 days	10 days	✓	28-Sep-2025	30 days	12 days	✓	
25ONG309 SED HL-REF	007	2245038	E108A	16-Sep-2025	27-Sep-2025	30 days	11 days	✓	28-Sep-2025	30 days	12 days	✓	
25ONG309 SED HL-100-07	008	2245038	E108A	16-Sep-2025	27-Sep-2025	30 days	10 days	✓	28-Sep-2025	30 days	12 days	✓	
25ONG309 SED HL-100-11	009	2245038	E108A	16-Sep-2025	27-Sep-2025	30 days	10 days	✓	28-Sep-2025	30 days	12 days	✓	
25ONG309 SED HL-250-11	010	2245038	E108A	16-Sep-2025	27-Sep-2025	30 days	10 days	✓	28-Sep-2025	30 days	12 days	✓	
25ONG309 SED HL-250-09	011	2245038	E108A	16-Sep-2025	27-Sep-2025	30 days	11 days	✓	28-Sep-2025	30 days	12 days	✓	
25ONG309 SED HL-250-07	012	2245038	E108A	16-Sep-2025	27-Sep-2025	30 days	10 days	✓	28-Sep-2025	30 days	12 days	✓	
25ONG309 SED HL-500-07	013	2245038	E108A	16-Sep-2025	27-Sep-2025	30 days	10 days	✓	28-Sep-2025	30 days	12 days	✓	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
Client sample ID						Rec	Actual			Rec	Actual	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received												
Double bagged HDPE												
25ONG309 SED HL-500-11	014	2245038	E108A	16-Sep-2025	27-Sep-2025	30 days	10 days	✓	28-Sep-2025	30 days	12 days	✓
25ONG309 SED DUP 2	015	2245038	E108A	16-Sep-2025	27-Sep-2025	30 days	10 days	✓	28-Sep-2025	30 days	12 days	✓
25ONG309 SED HL-100-09	016	2245038	E108A	16-Sep-2025	27-Sep-2025	30 days	10 days	✓	28-Sep-2025	30 days	12 days	✓
Speciated Metals : Methylmercury in Soil by GCAFS												
Glass soil jar/Teflon lined cap												
25ONG309 SED OL-100	002	2256242	E538	16-Sep-2025	04-Oct-2025	28 days	18 days	✓	04-Oct-2025	28 days	0 days	✓
25ONG309 SED OL-F	004	2256242	E538	16-Sep-2025	04-Oct-2025	28 days	18 days	✓	04-Oct-2025	28 days	0 days	✓
25ONG309 SED HL-REF	007	2256242	E538	16-Sep-2025	04-Oct-2025	28 days	18 days	✓	04-Oct-2025	28 days	0 days	✓
25ONG309 SED HL-500-11	014	2256242	E538	16-Sep-2025	04-Oct-2025	28 days	18 days	✓	04-Oct-2025	28 days	0 days	✓

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: Soil/Solid

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)							
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A	2245038	1	19	5.3	5.0	✔
Moisture Content by Gravimetry	E144	2245052	1	20	5.0	5.0	✔
Particle Size Analysis - Sieve <2mm	E182	2242040	1	16	6.2	5.0	✔
Particle Size Analysis - Pipette Method	E184	2242038	1	16	6.2	5.0	✔
Total Kjeldahl Nitrogen by Colourimetry	E319	2257509	1	19	5.3	5.0	✔
Total Carbon by Combustion (<63 µm)	E351A	2252496	1	16	6.2	5.0	✔
Total Inorganic Carbon by Acetic Acid pH Standard Curve (<63 µm)	E354A	2247768	1	16	6.2	5.0	✔
Total Nitrogen by Combustion	E366	2250523	1	20	5.0	5.0	✔
Ortho-phosphate by Colorimetry (1:10 Soil:Water) (mg/kg)	E378	2245547	1	16	6.2	5.0	✔
Acid Volatile Sulfide by Colourimetry (5 mg/kg)	E396	2249477	1	11	9.1	5.0	✔
Metals in Soil/Solid by CRC ICPMS (<355 µm)	E440C	2245415	1	16	6.2	5.0	✔
Simultaneously Extracted Metals by CRC ICPMS (mg/kg)	E449	2249471	1	11	9.1	4.8	✔
Mercury in Soil/Solid by CVAAS (<355 µm)	E510C	2245416	1	4	25.0	5.0	✔
Simultaneously Extracted Mercury by CVAAS	E519	2249472	1	11	9.1	5.0	✔
Methylmercury in Soil by GCAFS	E538	2256242	1	20	5.0	5.0	✔
Laboratory Control Samples (LCS)							
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A	2245038	1	19	5.3	5.0	✔
Moisture Content by Gravimetry	E144	2245052	1	20	5.0	5.0	✔
Particle Size Analysis - Sieve >2mm	E181	2242039	1	16	6.2	5.0	✔
Particle Size Analysis - Sieve <2mm	E182	2242040	1	16	6.2	5.0	✔
Particle Size Analysis - Pipette Method	E184	2242038	1	16	6.2	5.0	✔
Total Kjeldahl Nitrogen by Colourimetry	E319	2257509	2	19	10.5	10.0	✔
Total Carbon by Combustion (<63 µm)	E351A	2252496	2	16	12.5	10.0	✔
Total Inorganic Carbon by Acetic Acid pH Standard Curve (<63 µm)	E354A	2247768	2	16	12.5	10.0	✔
Total Nitrogen by Combustion	E366	2250523	2	20	10.0	10.0	✔
Ortho-phosphate by Colorimetry (1:10 Soil:Water) (mg/kg)	E378	2245547	1	16	6.2	5.0	✔
Acid Volatile Sulfide by Colourimetry (5 mg/kg)	E396	2249477	1	11	9.1	5.0	✔



Matrix: Soil/Solid

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 Control Samples (LCS)							
Metals in Soil/Solid by CRC ICPMS (<355 µm)	E440C	2245415	2	16	12.5	10.0	✔
Simultaneously Extracted Metals by CRC ICPMS (mg/kg)	E449	2249471	1	11	9.1	4.8	✔
Mercury in Soil/Solid by CVAAS (<355 µm)	E510C	2245416	2	4	50.0	10.0	✔
Simultaneously Extracted Mercury by CVAAS	E519	2249472	1	11	9.1	5.0	✔
Methylmercury in Soil by GCAFS	E538	2256242	2	20	10.0	10.0	✔
Method Blanks (MB)							
Moisture Content by Gravimetry	E144	2245052	1	20	5.0	5.0	✔
Total Kjeldahl Nitrogen by Colourimetry	E319	2257509	1	19	5.3	5.0	✔
Total Carbon by Combustion (<63 µm)	E351A	2252496	1	16	6.2	5.0	✔
Total Inorganic Carbon by Acetic Acid pH Standard Curve (<63 µm)	E354A	2247768	1	16	6.2	5.0	✔
Total Nitrogen by Combustion	E366	2250523	1	20	5.0	5.0	✔
Ortho-phosphate by Colorimetry (1:10 Soil:Water) (mg/kg)	E378	2245547	1	16	6.2	5.0	✔
Acid Volatile Sulfide by Colourimetry (5 mg/kg)	E396	2249477	1	11	9.1	5.0	✔
Metals in Soil/Solid by CRC ICPMS (<355 µm)	E440C	2245415	1	16	6.2	5.0	✔
Simultaneously Extracted Metals by CRC ICPMS (mg/kg)	E449	2249471	1	11	9.1	4.8	✔
Mercury in Soil/Solid by CVAAS (<355 µm)	E510C	2245416	1	4	25.0	5.0	✔
Simultaneously Extracted Mercury by CVAAS	E519	2249472	1	11	9.1	5.0	✔
Methylmercury in Soil by GCAFS	E538	2256242	1	20	5.0	5.0	✔
Matrix Spikes (MS)							
Ortho-phosphate by Colorimetry (1:10 Soil:Water) (mg/kg)	E378	2245547	1	16	6.2	5.0	✔
Acid Volatile Sulfide by Colourimetry (5 mg/kg)	E396	2249477	1	11	9.1	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
Acid Volatile Sulfide by Colourimetry (5 mg/kg)	E396 ALS Environmental - Thunder Bay	Soil/Solid	EPA 821/R-91-100 (mod)	Acid Volatile Sulfide is determined by colourimetric measurement on a sediment sample that has undergone distillation. Evolved hydrogen sulfide gas trapped and analyzed by the methylene blue colourimetric method.
Acid Volatile Sulfide by Colourimetry (µmol/g)	EC396 ALS Environmental - Thunder Bay	Soil/Solid	EPA 821/R-91-100 (mod)	Calculation for Acid Volatile Sulfide to convert units to µmol/g
Grain Size Report (Attachment) Pipet/Sieve Method	E185A ALS Environmental - Thunder Bay	Soil/Solid	SSIR-51 Method 3.2.1	A grain size curve is a graphical representation of the particle sizing of a sample representing the percent passing against the effective particle size.
Mercury in Soil/Solid by CVAAS (<355 µm)	E510C ALS Environmental - Thunder Bay	Soil/Solid	EPA 200.2/1631 Appendix (mod)	Samples are sieved through a 355 µm sieve, and digested with HNO ₃ and HCl, followed by CVAAS analysis.
Metals in Soil/Solid by CRC ICPMS (<355 µm)	E440C ALS Environmental - Thunder Bay	Soil/Solid	EPA 6020B (mod)	This method is intended to liberate metals that may be environmentally available. Samples are dried, then sieved through a 355 µm sieve, and digested with HNO₃ and HCl. Dependent on sample matrix, some metals may be only partially recovered, including Al, Ba, Be, Cr, Sr, Ti, Tl, V, W, and Zr. Silicate minerals are not solubilized. Volatile forms of sulfur (including sulfide) may not be captured, as they may be lost during sampling, storage, or digestion. This method does not adequately recover elemental sulfur, and is unsuitable for assessment of elemental sulfur standards or guidelines. Analysis is by Collision/Reaction Cell ICPMS.
Methylmercury in Soil by GCAFS	E538 ALS Environmental - Thunder Bay	Soil/Solid	DeWild et al. (2004)/EPA 1630 (mod)	This method follows procedures published by DeWild, Olund, Olsen and Tate (2004) for the US Geological Survey (Techniques and Methods 5A-7). Samples are leached with an acidic copper sulphate solution to solubilize methylmercury for inorganic complexes. The methylmercury is then extracted into dichloromethane and then an aliquot is back extracted into ultra-pure water. The extract is analyzed by aqueous phase ethylation, purge and trap, desorption and GC separation. The separated species are then pyrolyzed to elemental Hg and quantified by cold vapour atomic fluorescence spectroscopy. Results are reported "as MeHg".
Moisture Content by Gravimetry	E144 ALS Environmental - Thunder Bay	Soil/Solid	CCME PHC in Soil - Tier 1	Moisture is measured gravimetrically by drying the sample at 105°C. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
Ortho-phosphate by Colorimetry (1:10 Soil:Water) (mg/kg)	E378 ALS Environmental - Thunder Bay	Soil/Solid	EPA 300.0 (mod)	Orthophosphate is determined colourimetrically on a soil sample that has been extracted and filtered through a 0.45 micron membrane filter.
Particle Size Analysis - Pipette Method	E184 ALS Environmental - Thunder Bay	Soil/Solid	SSIR-51 Method 3.2.1	Soil material is separated from coarse material (>2mm). A specimen is then disaggregated through mixing with Calgon solution. The material is then suspended in solution wherein regular aliquots are taken using a mechanical pipette at specific time intervals. The aliquots are dried and material in suspension determined gravimetrically. The principles of Stokes' Law are applied to determine the amount of material remaining in solution as well as the maximum particle size remaining in solution at the specified time.
Particle Size Analysis - Sieve <2mm	E182 ALS Environmental - Thunder Bay	Soil/Solid	ASTM D6913-17 (mod)	Soil samples are disaggregated and sieved through a 2mm sieve. Material passed through the sieve is then further disaggregated using calgon solution and passed through a series of sieves. The amount passing through the sieves is measured gravimetrically.



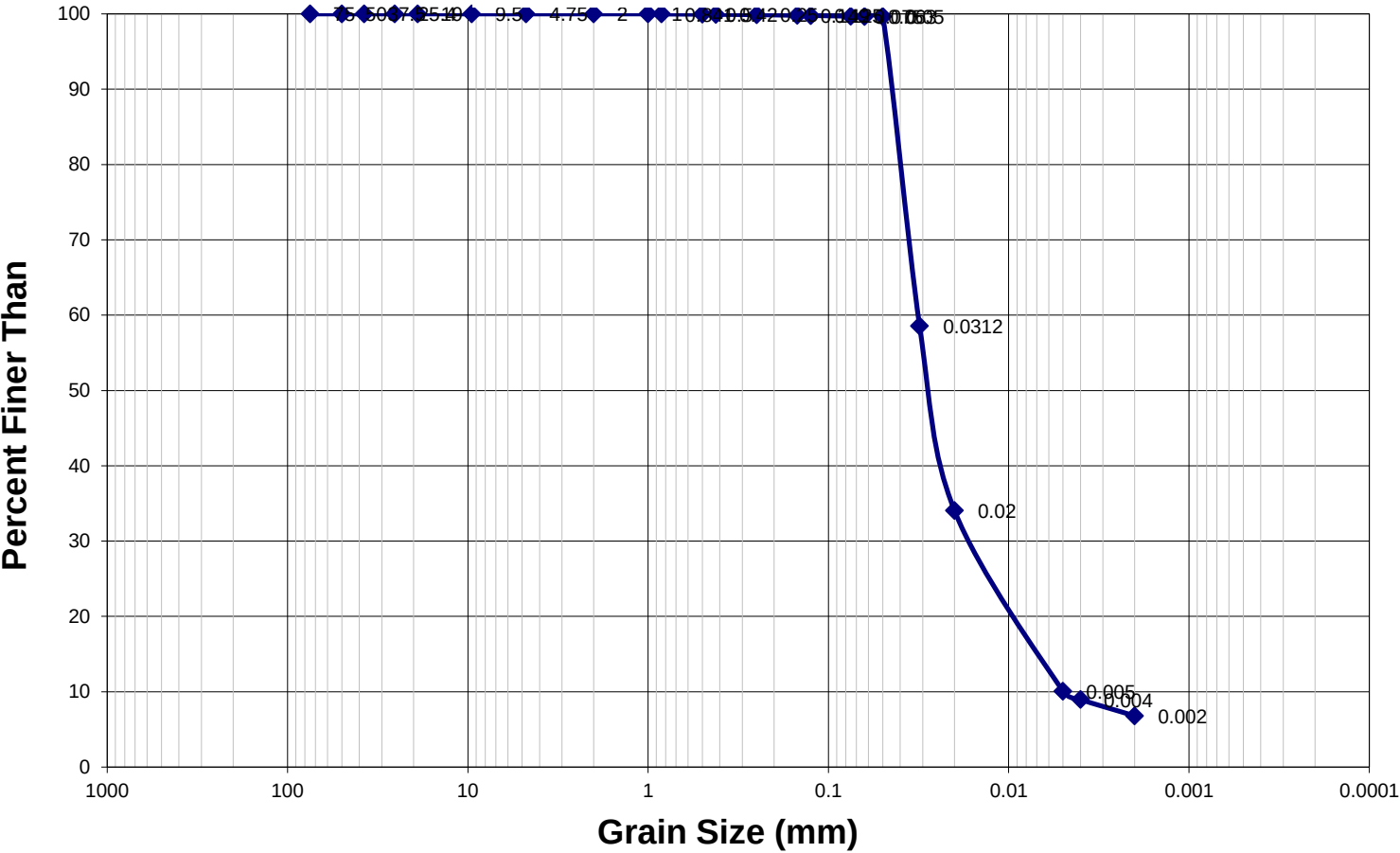
Particle Size Analysis - Sieve >2mm	E181 ALS Environmental - Thunder Bay	Soil/Solid	ASTM D6913-17 (mod)	Soil samples are disaggregated and sieved through a 2mm sieve. Material retained on the sieve is then further sieved through a series of sieves. The amount passing through the sieves is measured gravimetrically.
Particle Size Analysis (Pipette) - Wentworth Classification	EC184A ALS Environmental - Thunder Bay	Soil/Solid	Modified Wentworth	The particle size determination is performed by various methods to generate a Grain Size curve. The data from the curve is then used to produce particle size ranges based on the Modified Wentworth Classification system.
pH by Meter (1:2 Soil:0.01M CaCl ₂ Extraction) - As Received	E108A ALS Environmental - Thunder Bay	Soil/Solid	MECP E3530	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 ± 5°C) and is carried out in accordance with procedures described in the Analytical Protocol (prescriptive method). A minimum 10g portion of the sample, as received, is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil by centrifuging, settling, or decanting and then analyzed using a pH meter and electrode. This method is equivalent to ASTM D4972 and is acceptable for topsoil analysis.
Simultaneously Extracted Mercury by CVAAS	E519 ALS Environmental - Thunder Bay	Soil/Solid	EPA 821/R-91-100/1631E (mod)	An extract of sediment sample that has been treated with hydrochloric acid within a purge and trap system is analyzed by CVAAS.
Simultaneously Extracted Mercury by CVAAS (umol/g)	EC519 ALS Environmental - Thunder Bay	Soil/Solid	EPA 821/R-91-100/1631E (mod)	An extract of sediment sample that has been treated with hydrochloric acid within a purge and trap system is analyzed by CVAAS.
Simultaneously Extracted Metals by CRC ICPMS (mg/kg)	E449 ALS Environmental - Thunder Bay	Soil/Solid	EPA 821/R-91-100/EPA 6020B (mod)	This analysis is carried out in accordance with the method described in EPA 821/R-91-100. Hydrochloric acid is added to samples within a purge and trap system. The extract produced from the addition of the acid is then analyzed for simultaneously extracted metals (SEM) using Collision/Reaction Cell ICPMS.
Simultaneously Extracted Metals by CRC ICPMS (umol/g)	EC449 ALS Environmental - Thunder Bay	Soil/Solid	EPA 821/R-91-100/EPA 6020B (mod)	This analysis is carried out in accordance with the method described in EPA 821/R-91-100. Hydrochloric acid is added to samples within a purge and trap system. The extract produced from the addition of the acid is then analyzed for simultaneously extracted metals (SEM) using Collision/Reaction Cell ICPMS.
Total Carbon by Combustion (<63 µm)	E351A ALS Environmental - Thunder Bay	Soil/Solid	CSSS (2008) 21.2 (mod)	Total Carbon is determined on a sample which is first sieved through a 63 µm sieve prior to analysis by the high temperature combustion method with measurement by an infrared detector.
Total Inorganic Carbon by Acetic Acid pH Standard Curve (<63 µm)	E354A ALS Environmental - Thunder Bay	Soil/Solid	CSSS (2008) 20.2	Total Inorganic Carbon is determined on a sample which is first sieved through a 63 µm sieve prior to analysis by acetic acid pH standard curve, where a known quantity of acetic acid is consumed by reaction with carbonates in the soil. The pH of the resulting solution is measured and compared against a standard curve relating pH to weight of carbonate.
Total Kjeldahl Nitrogen by Colourimetry	E319 ALS Environmental - Thunder Bay	Soil/Solid	CSSS (2008) 22.2.3	The soil is digested with sulfuric acid in the presence of CuSO ₄ and K ₂ SO ₄ catalysts. Ammonia in the soil extract is determined colourimetrically at 660 nm.
Total Nitrogen by Combustion	E366 ALS Environmental - Thunder Bay	Soil/Solid	CSSS (2008) 22.4	The sample is ignited in a combustion analyzer where nitrogen in the reduced nitrous oxide gas is determined using a thermal conductivity detector.
Total Organic Carbon (Calculated) in soil (<63 µm)	EC356A ALS Environmental - Thunder Bay	Soil/Solid	CSSS (2008) 21.2	Total Organic Carbon (TOC) is calculated by the difference between total carbon (TC) and total inorganic carbon (TIC) analyzed on material passing a 63 µm sieve.
Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Digestion for Metals and Mercury (355 µm Sieve)	EP440C ALS Environmental - Thunder Bay	Soil/Solid	EPA 200.2 (mod)	Samples are sieved through a 355 µm sieve, and digested with HNO ₃ and HCl. This method is intended to liberate metals that may be environmentally available.
Distillation for Acid Volatile Sulfide in Soil	EP396 ALS Environmental - Thunder Bay	Soil/Solid	EPA 821/R-91-100 (mod)	Sample distillation for Acid Volatile Sulfide analysis.



Dry and Grind in Soil/Solid <60°C	EPP442 ALS Environmental - Thunder Bay	Soil/Solid	Soil Sampling and Methods of Analysis, Carter 2008	After removal of any coarse fragments and reservation of wet subsamples a portion of homogenized sample is set in a tray and dried at less than 60°C until dry. The sample is then particle size reduced with an automated crusher or mortar and pestle, typically to <2 mm. Further size reduction may be needed for particular tests.
Fine Grind and Sieve (230 mesh) for CNS (<63 µm)	EP351A ALS Environmental - Thunder Bay	Soil/Solid	Soil Sampling and Methods of Analysis, Carter 2008	A sample that has been dried at <40°C and sieved (<2 mm) is further disaggregated using mortar and pestle or fine grinder to pass a 0.063 mm sieve (230 mesh).
Kjeldahl Digestion for soils	EP319 ALS Environmental - Thunder Bay	Soil/Solid	CSSS (2008) 22.2.3	The soil is digested with sulfuric acid in the presence of CuSO ₄ and K ₂ SO ₄ catalysts.
Leach 1:2 Soil : 0.01CaCl ₂ - As Received for pH	EP108A ALS Environmental - Thunder Bay	Soil/Solid	MOEE E3137A	A minimum 10g portion of the sample, as received, is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil by centrifuging, settling or decanting and then analyzed using a pH meter and electrode.
Leach for Metals and Anions	EP441 ALS Environmental - Thunder Bay	Soil/Solid	Soil Sampling & Methods of Analysis, Ch. 15 (2008)	This analysis is carried out using a leaching procedure which involves the gentle tumbling of the sample in a specified leaching solution (typically deionized water) for a specific length of time.
Methylmercury Soil Digestion	EP538 ALS Environmental - Thunder Bay	Soil/Solid	DeWild et al. (2004)	This method follows procedures published by DeWild, Olund, Olsen and Tate (2004) for the US Geological Survey (Techniques and Methods 5A-7). Samples are leached with an acidic copper sulphate solution to solubilize methylmercury for inorganic complexes. The methylmercury is then extracted into dichloromethane and then an aliquot is back extracted into ultra-pure water. The extract is analyzed by aqueous phase ethylation, purge and trap, desorption and GC separation. The separated species are then pyrolyzed to elemental Hg and quantified by cold vapour atomic fluorescence spectroscopy. Results are reported "as MeHg".
Prep for CNS	EP351 ALS Environmental - Thunder Bay	Soil/Solid	Soil Sampling and Methods of Analysis, Carter 2008	A sample that has been dried at <40°C and sieved (<2 mm) is further disaggregated using mortar and pestle or fine grinder to pass a 0.149 mm sieve (100 mesh).
Sample Preparation - Particle Size Analysis	EP181 ALS Environmental - Thunder Bay	Soil/Solid	Soil Sampling and Methods of Analysis, Carter 2008	A sample is set in a tray and is dried at less than 60°C until dry (typically overnight). The dried sample is then mechanically disaggregated and passed through a 2 mm sieve. The portion of sample retained on the 2 mm sieve is kept for > 2 mm sieve analysis and the portion passing 2 mm sieve is used for sedimentation and sieve analysis.
Simultaneously Extracted Metals Preparation	EP495 ALS Environmental - Thunder Bay	Soil/Solid	EPA 821/R-91-100	This analysis is carried out in accordance with the method described in EPA 821/R-91-100. Hydrochloric acid is added to sediment samples within a purge and trap system. The extract produced from the addition of the acid is then analyzed for simultaneously extracted metals (SEM) and Mercury.



Particle Size Distribution Curve



Summary of Results

Unified Soil Classification System (USCS)

Size Class	Size Range	Wt. (%)
Cobbles	> 75mm	0
Gravel	75mm - 4.75mm	0
Coarse Sand	4.75mm - 2mm	0
Medium Sand	2mm - 0.425mm	0.07
Fine Sand	0.425mm - 0.075mm	0.25
Fines	< 0.075mm	99.68

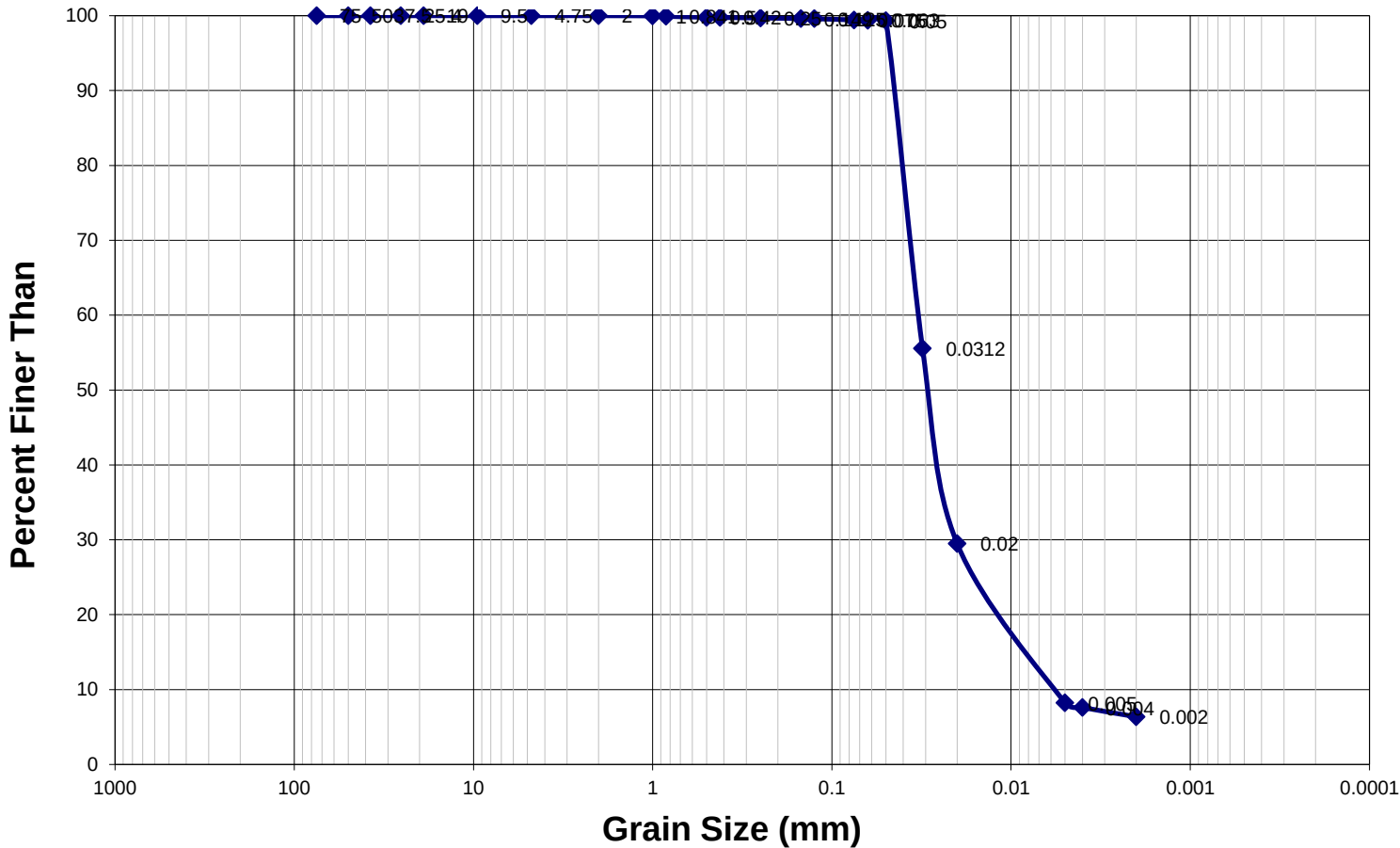
Canadian Soil Survey Committee (CSSC)

Size Class	Size Range	Wt. (%)
Cobbles	> 75mm	0
Gravel	75mm - 2mm	0
Sand	2mm - 0.05mm	0.36
Silt	0.05mm - 0.002mm	92.84
Clay	< 0.002mm	6.8

Texture
Silt



Particle Size Distribution Curve



Summary of Results

Unified Soil Classification System (USCS)

Size Class	Size Range	Wt. (%)
Cobbles	> 75mm	0
Gravel	75mm - 4.75mm	0
Coarse Sand	4.75mm - 2mm	0
Medium Sand	2mm - 0.425mm	0.24
Fine Sand	0.425mm - 0.075mm	0.33
Fines	< 0.075mm	99.43

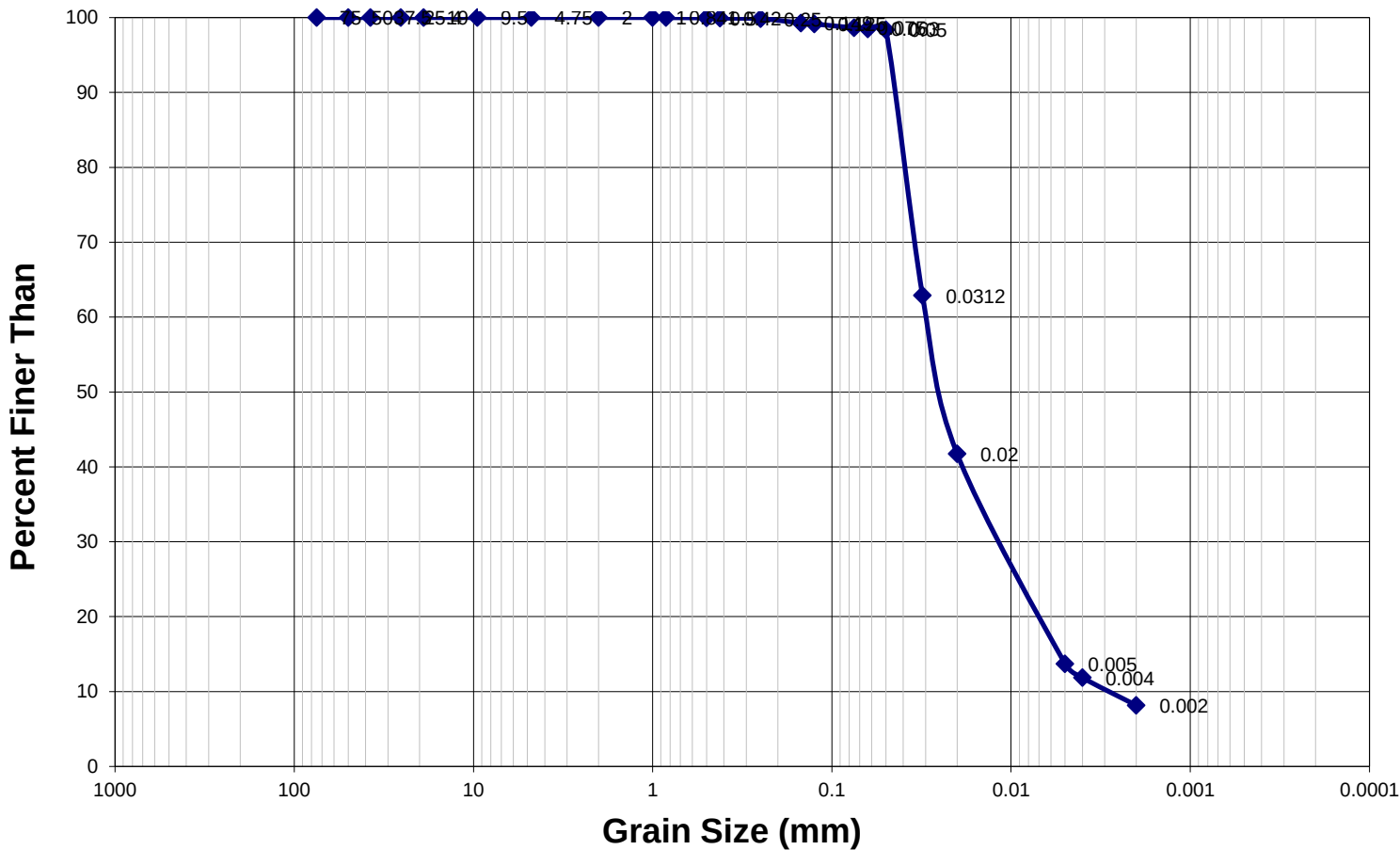
Canadian Soil Survey Committee (CSSC)

Size Class	Size Range	Wt. (%)
Cobbles	> 75mm	0
Gravel	75mm - 2mm	0
Sand	2mm - 0.05mm	0.65
Silt	0.05mm - 0.002mm	92.98
Clay	< 0.002mm	6.37

Texture
Silt



Particle Size Distribution Curve



Summary of Results

Unified Soil Classification System (USCS)

Size Class	Size Range	Wt. (%)
Cobbles	> 75mm	0
Gravel	75mm - 4.75mm	0
Coarse Sand	4.75mm - 2mm	0
Medium Sand	2mm - 0.425mm	0.07
Fine Sand	0.425mm - 0.075mm	1.31
Fines	< 0.075mm	98.62

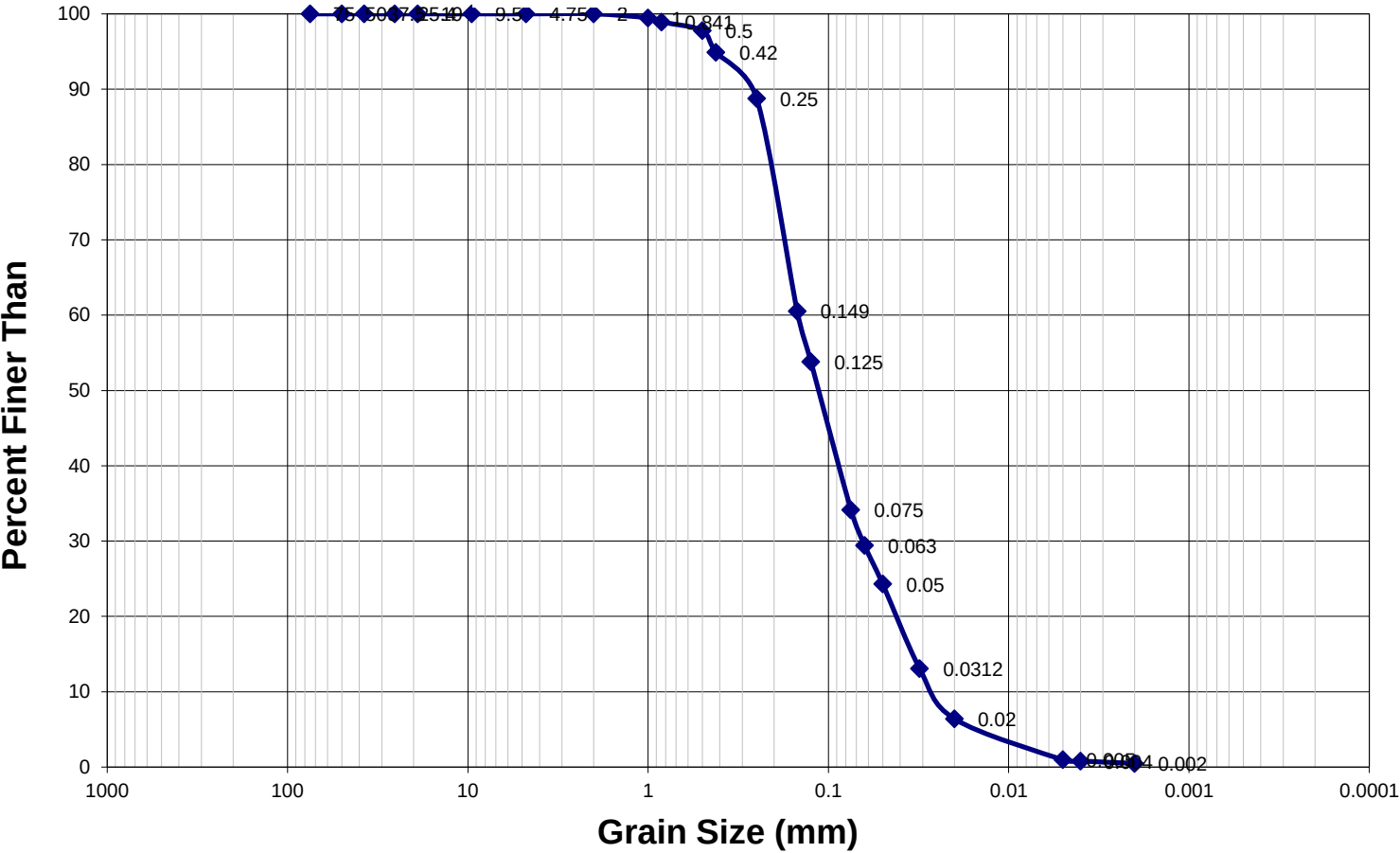
Canadian Soil Survey Committee (CSSC)

Size Class	Size Range	Wt. (%)
Cobbles	> 75mm	0
Gravel	75mm - 2mm	0
Sand	2mm - 0.05mm	1.64
Silt	0.05mm - 0.002mm	90.2
Clay	< 0.002mm	8.15

Texture
Silt



Particle Size Distribution Curve



Summary of Results

Unified Soil Classification System (USCS)

Size Class	Size Range	Wt. (%)
Cobbles	> 75mm	0
Gravel	75mm - 4.75mm	0
Coarse Sand	4.75mm - 2mm	0
Medium Sand	2mm - 0.425mm	4.93
Fine Sand	0.425mm - 0.075mm	60.93
Fines	< 0.075mm	34.14

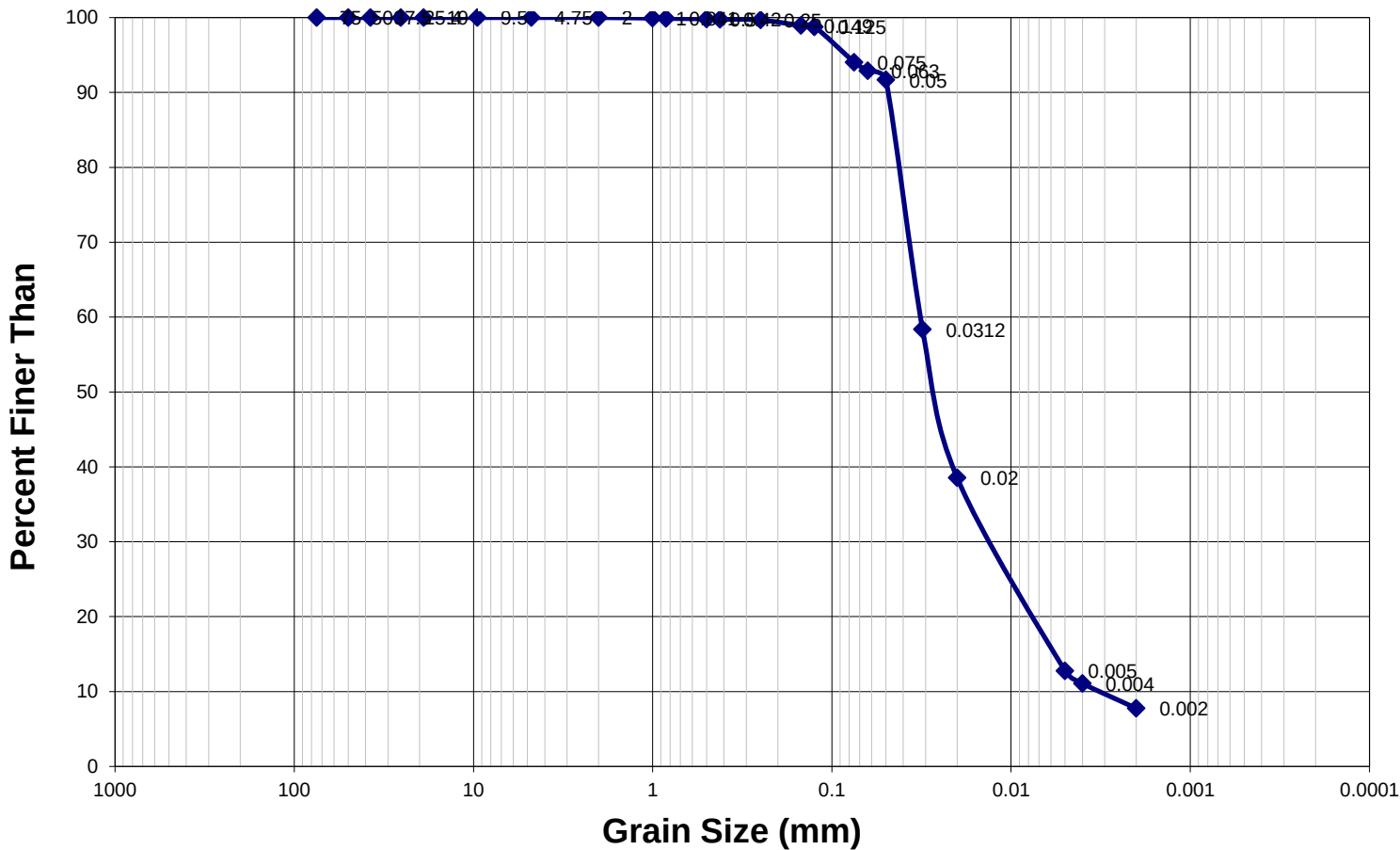
Canadian Soil Survey Committee (CSSC)

Size Class	Size Range	Wt. (%)
Cobbles	> 75mm	0
Gravel	75mm - 2mm	0
Sand	2mm - 0.05mm	75.69
Silt	0.05mm - 0.002mm	23.82
Clay	< 0.002mm	0.49

Texture
Loamy Sand



Particle Size Distribution Curve



Summary of Results

Unified Soil Classification System (USCS)

Size Class	Size Range	Wt. (%)
Cobbles	> 75mm	0
Gravel	75mm - 4.75mm	0
Coarse Sand	4.75mm - 2mm	0
Medium Sand	2mm - 0.425mm	0.22
Fine Sand	0.425mm - 0.075mm	5.73
Fines	< 0.075mm	94.05

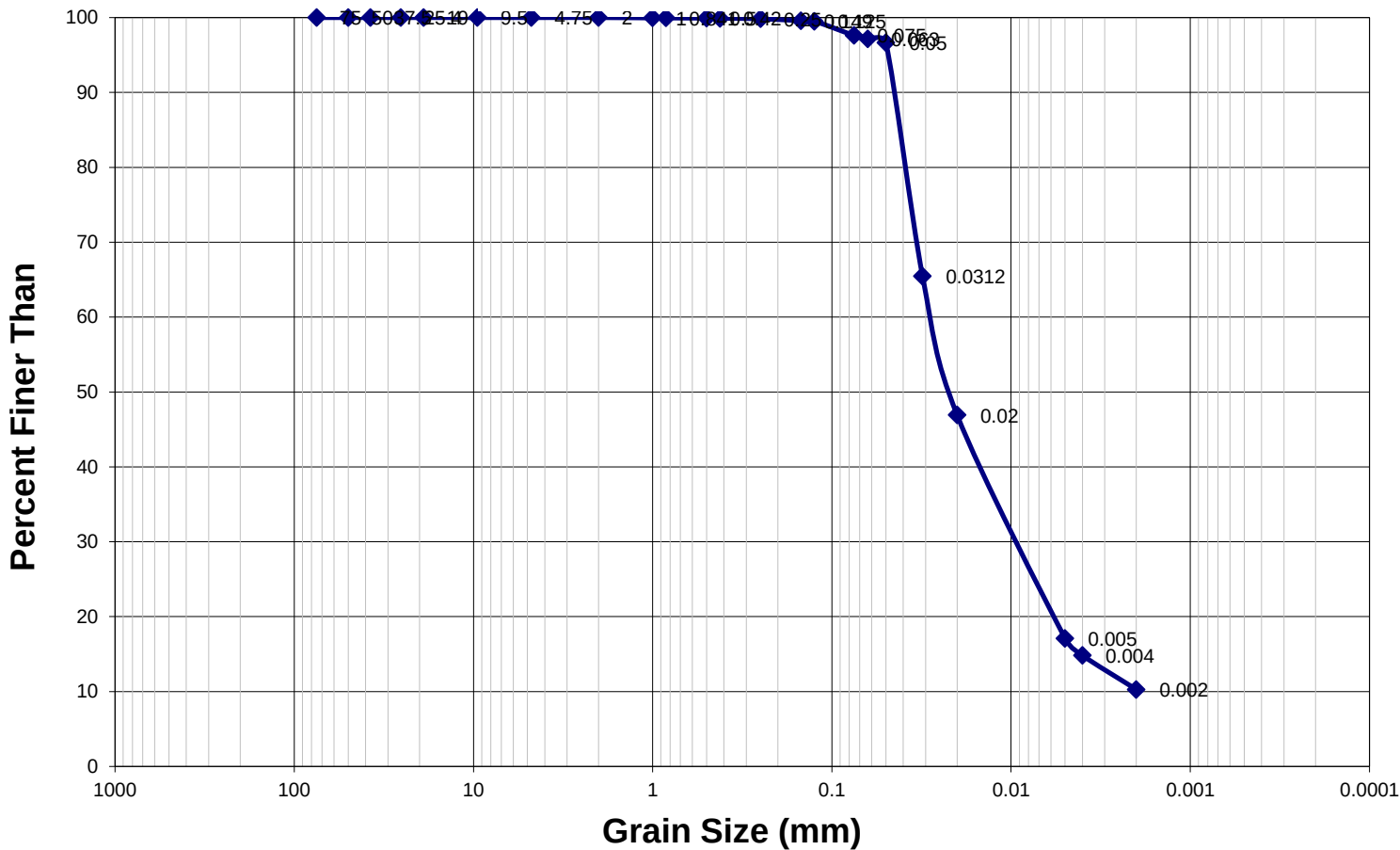
Canadian Soil Survey Committee (CSSC)

Size Class	Size Range	Wt. (%)
Cobbles	> 75mm	0
Gravel	75mm - 2mm	0
Sand	2mm - 0.05mm	8.31
Silt	0.05mm - 0.002mm	83.93
Clay	< 0.002mm	7.75

Texture
Silt



Particle Size Distribution Curve



Summary of Results

Unified Soil Classification System (USCS)

Size Class	Size Range	Wt. (%)
Cobbles	> 75mm	0
Gravel	75mm - 4.75mm	0
Coarse Sand	4.75mm - 2mm	0
Medium Sand	2mm - 0.425mm	0.1
Fine Sand	0.425mm - 0.075mm	2.3
Fines	< 0.075mm	97.6

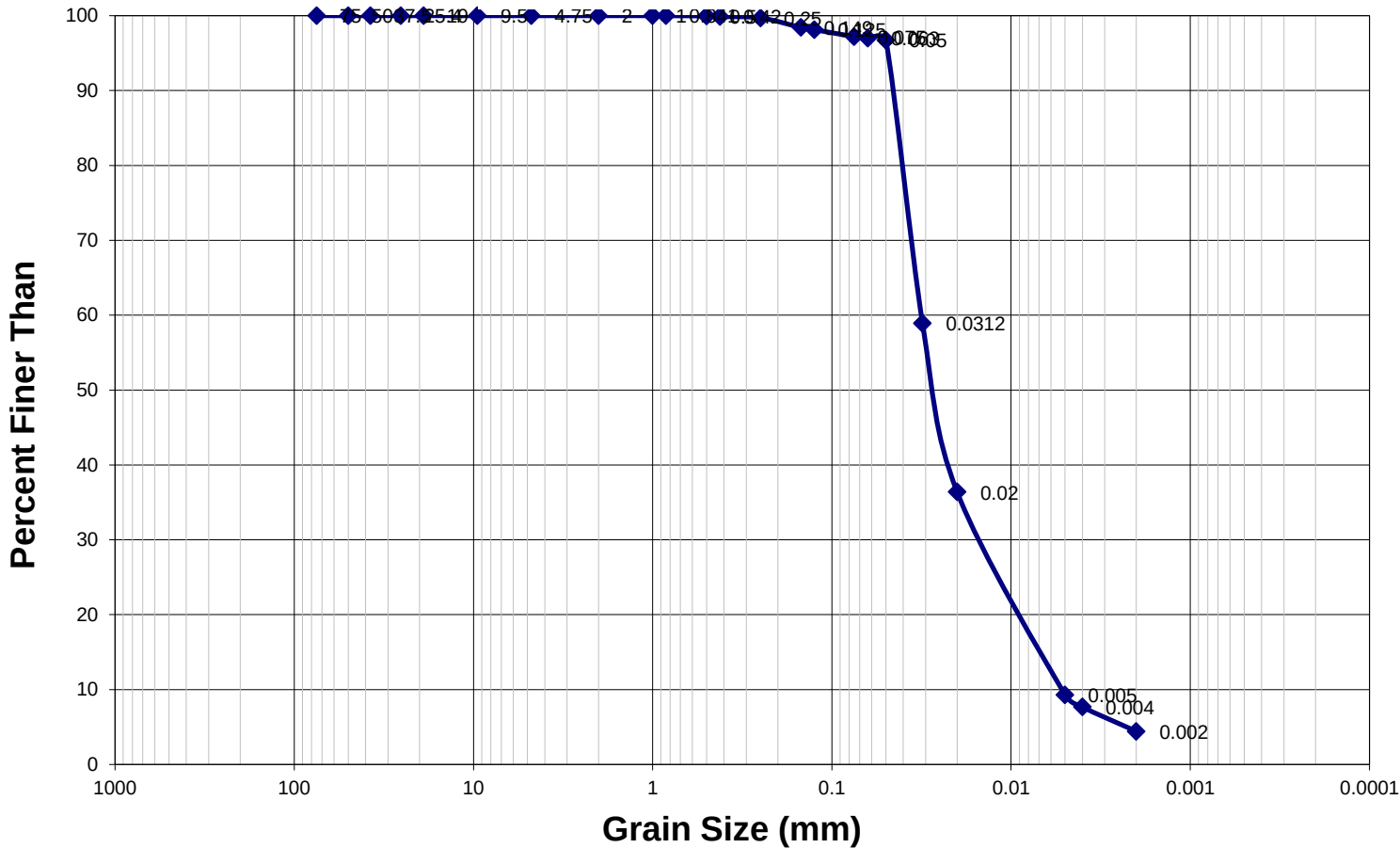
Canadian Soil Survey Committee (CSSC)

Size Class	Size Range	Wt. (%)
Cobbles	> 75mm	0
Gravel	75mm - 2mm	0
Sand	2mm - 0.05mm	3.34
Silt	0.05mm - 0.002mm	86.38
Clay	< 0.002mm	10.28

Texture
Silt



Particle Size Distribution Curve



Summary of Results

Unified Soil Classification System (USCS)

Size Class	Size Range	Wt. (%)
Cobbles	> 75mm	0
Gravel	75mm - 4.75mm	0
Coarse Sand	4.75mm - 2mm	0
Medium Sand	2mm - 0.425mm	0.11
Fine Sand	0.425mm - 0.075mm	2.69
Fines	< 0.075mm	97.2

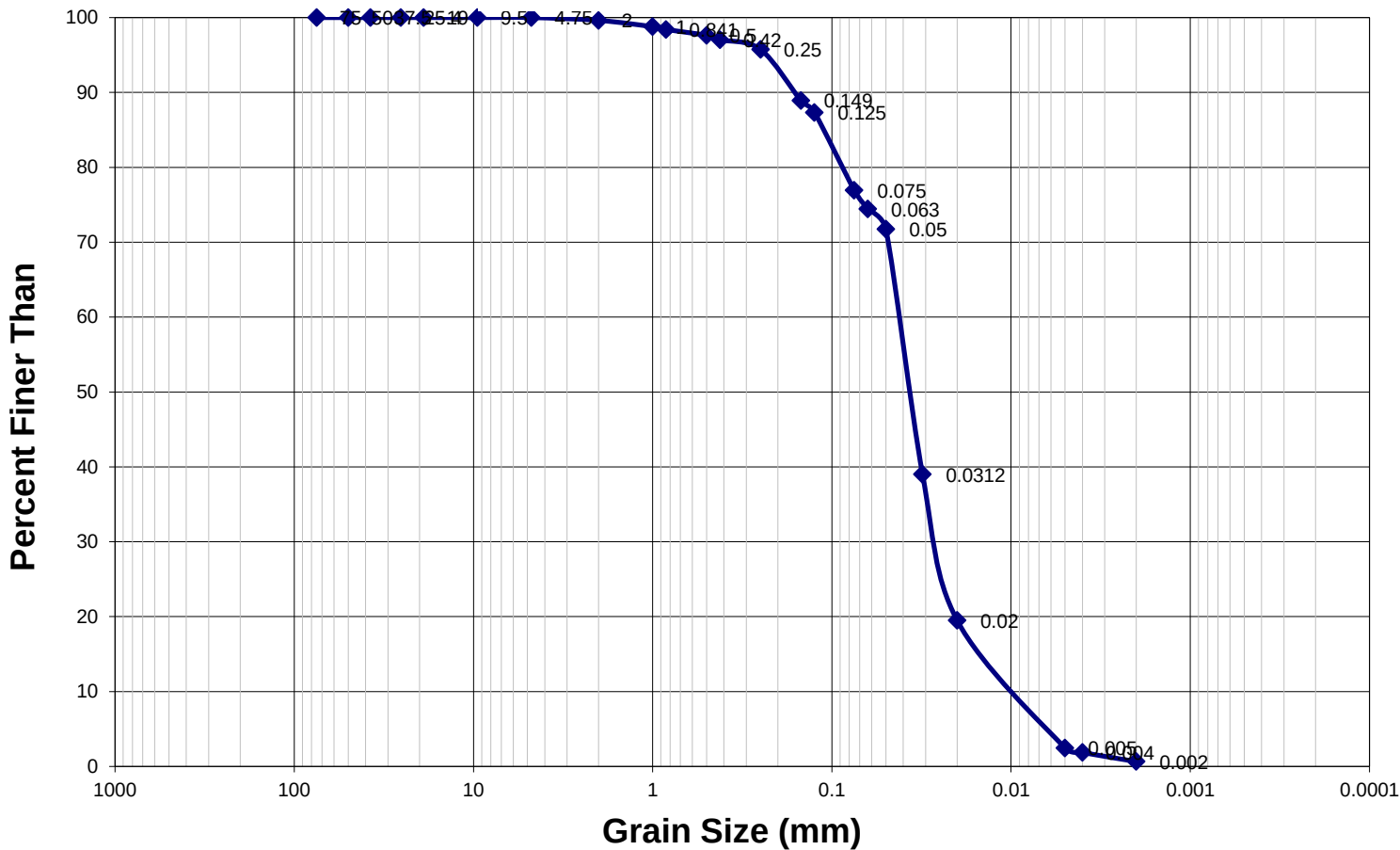
Canadian Soil Survey Committee (CSSC)

Size Class	Size Range	Wt. (%)
Cobbles	> 75mm	0
Gravel	75mm - 2mm	0
Sand	2mm - 0.05mm	3.26
Silt	0.05mm - 0.002mm	92.32
Clay	< 0.002mm	4.42

Texture
Silt



Particle Size Distribution Curve



Summary of Results

Unified Soil Classification System (USCS)

Size Class	Size Range	Wt. (%)
Cobbles	> 75mm	0
Gravel	75mm - 4.75mm	0
Coarse Sand	4.75mm - 2mm	0.38
Medium Sand	2mm - 0.425mm	2.56
Fine Sand	0.425mm - 0.075mm	20.11
Fines	< 0.075mm	76.95

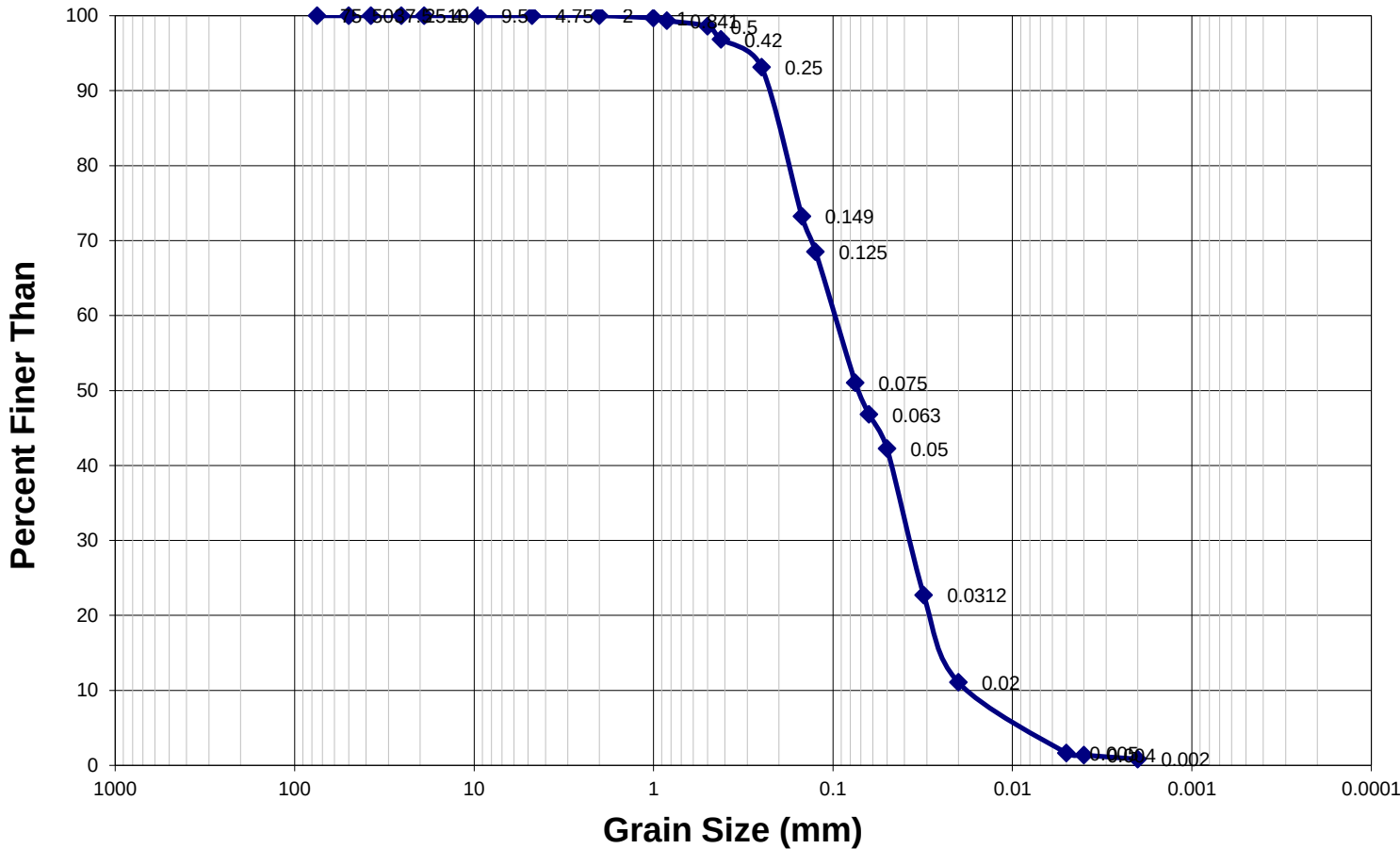
Canadian Soil Survey Committee (CSSC)

Size Class	Size Range	Wt. (%)
Cobbles	> 75mm	0
Gravel	75mm - 2mm	0.38
Sand	2mm - 0.05mm	27.86
Silt	0.05mm - 0.002mm	71.11
Clay	< 0.002mm	0.65

Texture
Silt Loam



Particle Size Distribution Curve



Summary of Results

Unified Soil Classification System (USCS)

Size Class	Size Range	Wt. (%)
Cobbles	> 75mm	0
Gravel	75mm - 4.75mm	0
Coarse Sand	4.75mm - 2mm	0
Medium Sand	2mm - 0.425mm	3.06
Fine Sand	0.425mm - 0.075mm	45.92
Fines	< 0.075mm	51.02

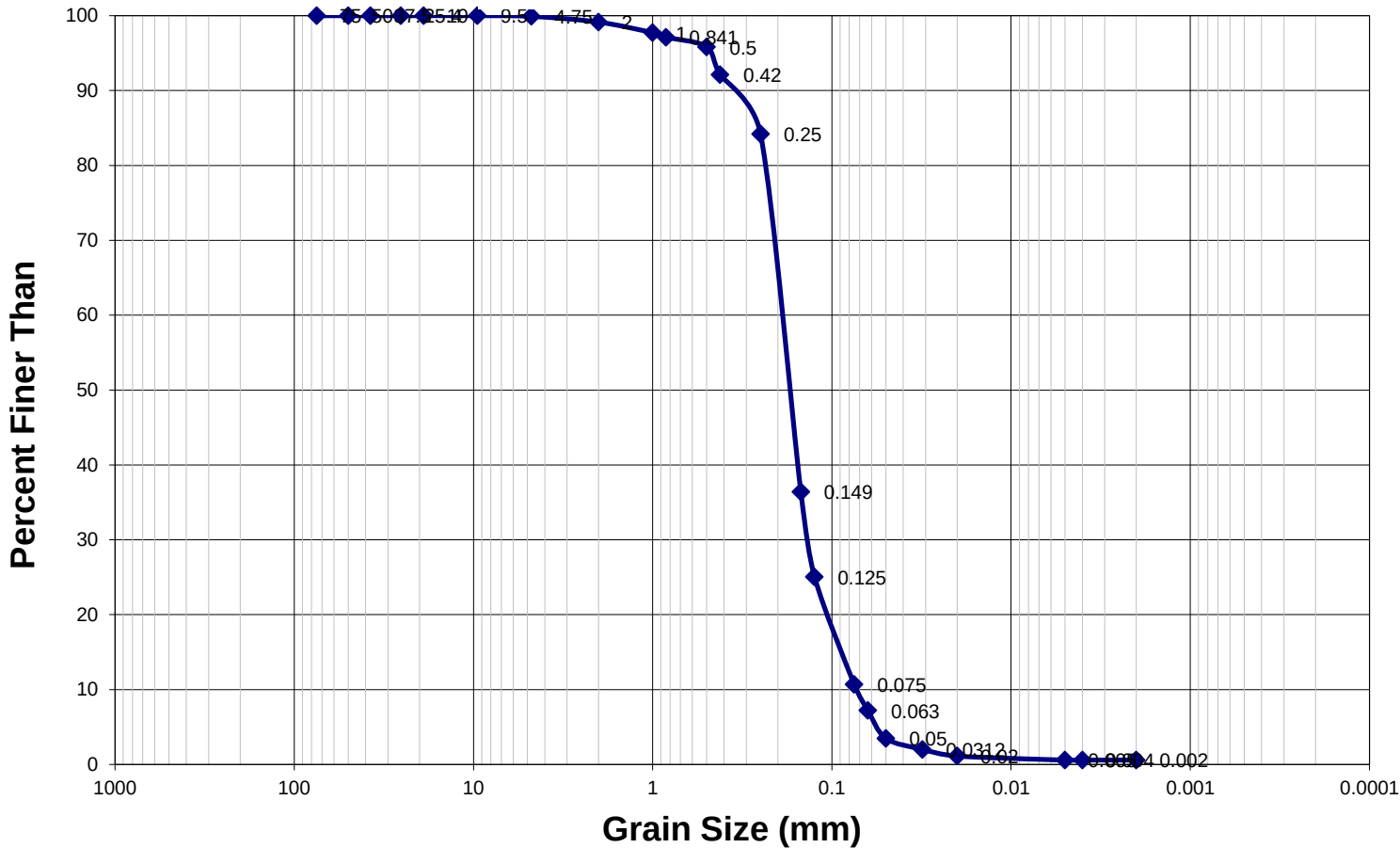
Canadian Soil Survey Committee (CSSC)

Size Class	Size Range	Wt. (%)
Cobbles	> 75mm	0
Gravel	75mm - 2mm	0
Sand	2mm - 0.05mm	57.74
Silt	0.05mm - 0.002mm	41.43
Clay	< 0.002mm	0.83

Texture
Sandy Loam



Particle Size Distribution Curve



Summary of Results

Unified Soil Classification System (USCS)

Size Class	Size Range	Wt. (%)
Cobbles	> 75mm	0
Gravel	75mm - 4.75mm	0.09
Coarse Sand	4.75mm - 2mm	0.77
Medium Sand	2mm - 0.425mm	6.79
Fine Sand	0.425mm - 0.075mm	81.66
Fines	< 0.075mm	10.69

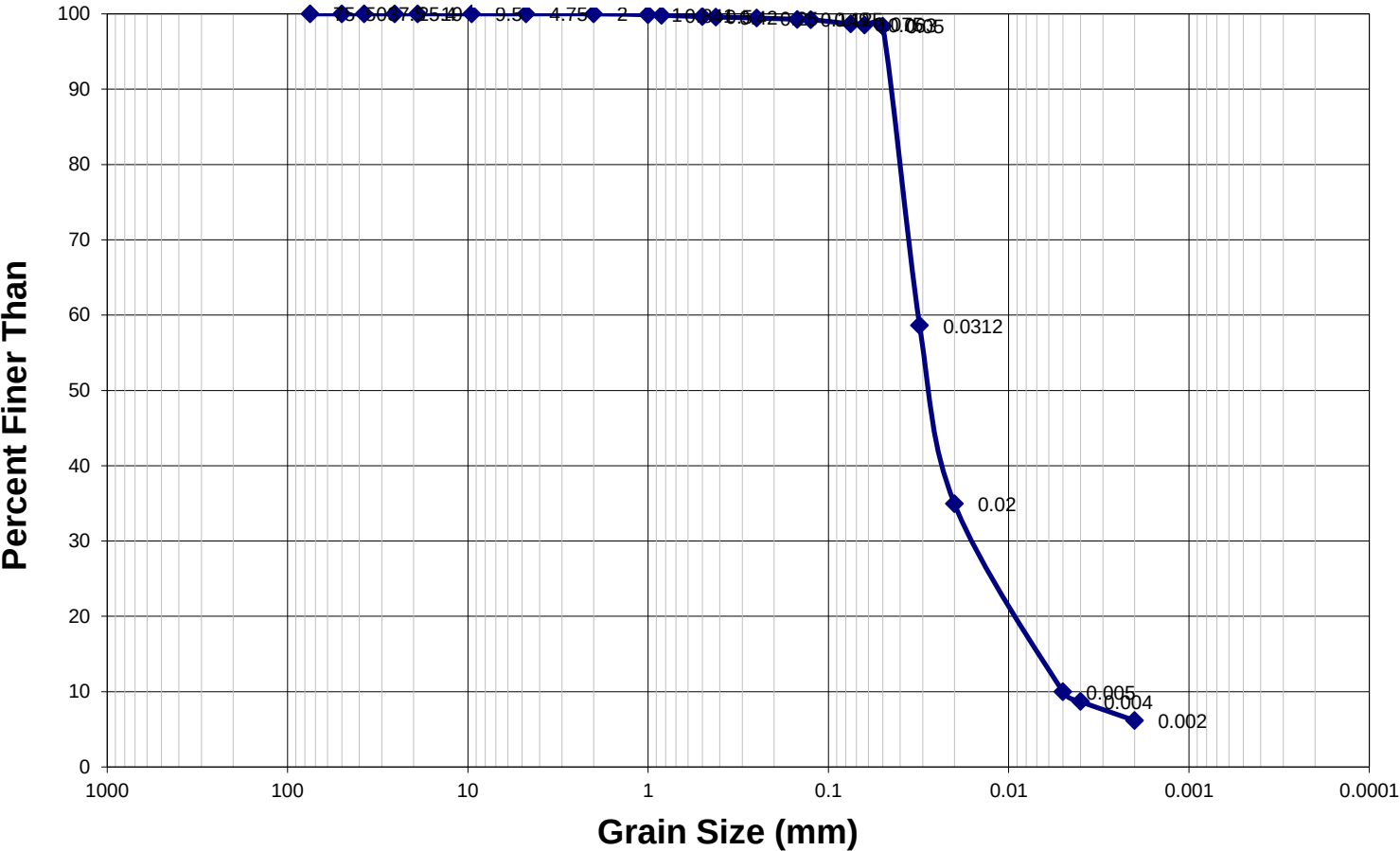
Canadian Soil Survey Committee (CSSC)

Size Class	Size Range	Wt. (%)
Cobbles	> 75mm	0
Gravel	75mm - 2mm	0.86
Sand	2mm - 0.05mm	95.65
Silt	0.05mm - 0.002mm	2.91
Clay	< 0.002mm	0.59

Texture
Sample >4.75mm, N/A



Particle Size Distribution Curve



Summary of Results

Unified Soil Classification System (USCS)

Size Class	Size Range	Wt. (%)
Cobbles	> 75mm	0
Gravel	75mm - 4.75mm	0
Coarse Sand	4.75mm - 2mm	0
Medium Sand	2mm - 0.425mm	0.42
Fine Sand	0.425mm - 0.075mm	0.92
Fines	< 0.075mm	98.66

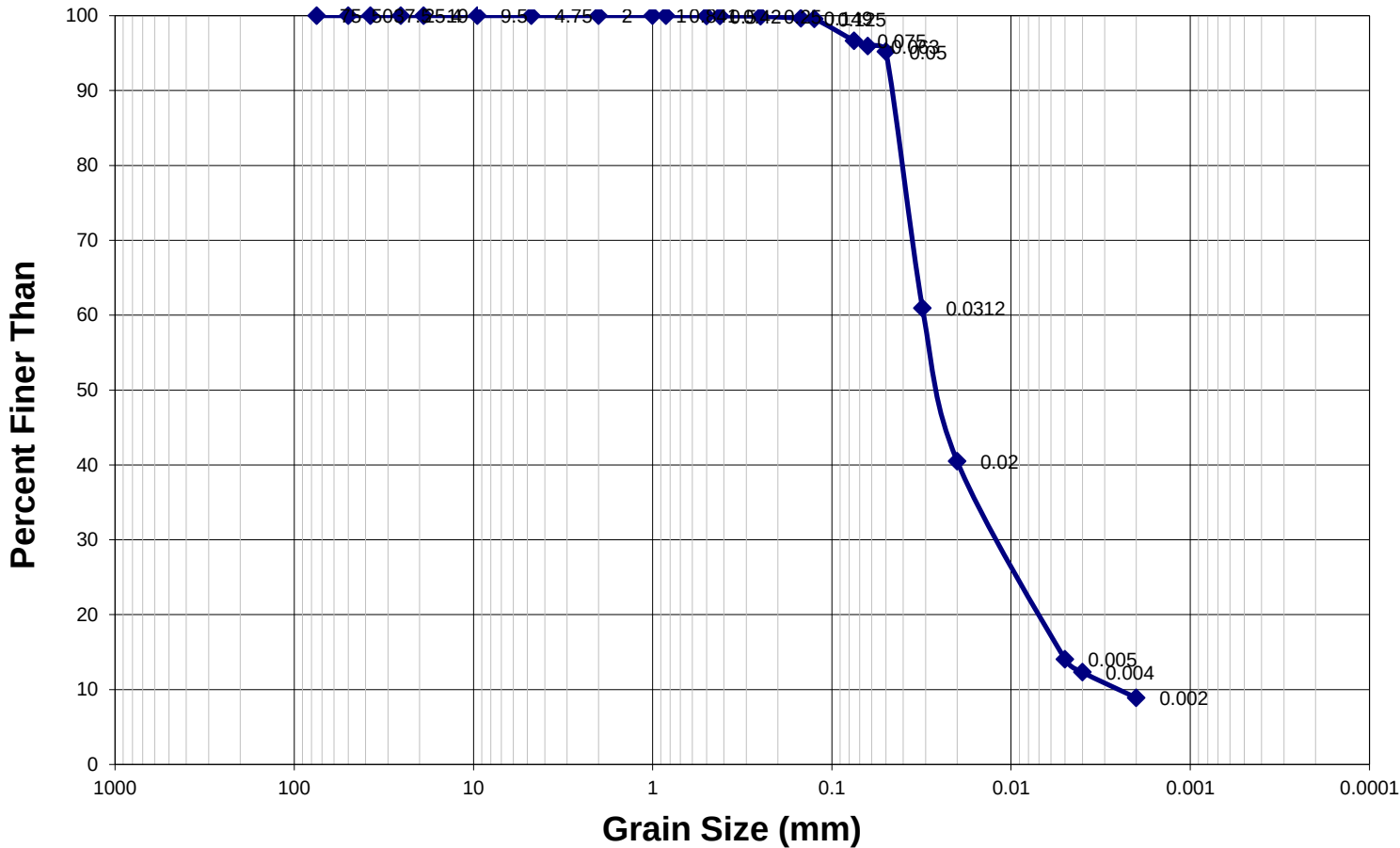
Canadian Soil Survey Committee (CSSC)

Size Class	Size Range	Wt. (%)
Cobbles	> 75mm	0
Gravel	75mm - 2mm	0
Sand	2mm - 0.05mm	1.62
Silt	0.05mm - 0.002mm	92.22
Clay	< 0.002mm	6.16

Texture
Silt



Particle Size Distribution Curve



Summary of Results

Unified Soil Classification System (USCS)

Size Class	Size Range	Wt. (%)
Cobbles	> 75mm	0
Gravel	75mm - 4.75mm	0
Coarse Sand	4.75mm - 2mm	0
Medium Sand	2mm - 0.425mm	0.04
Fine Sand	0.425mm - 0.075mm	3.29
Fines	< 0.075mm	96.67

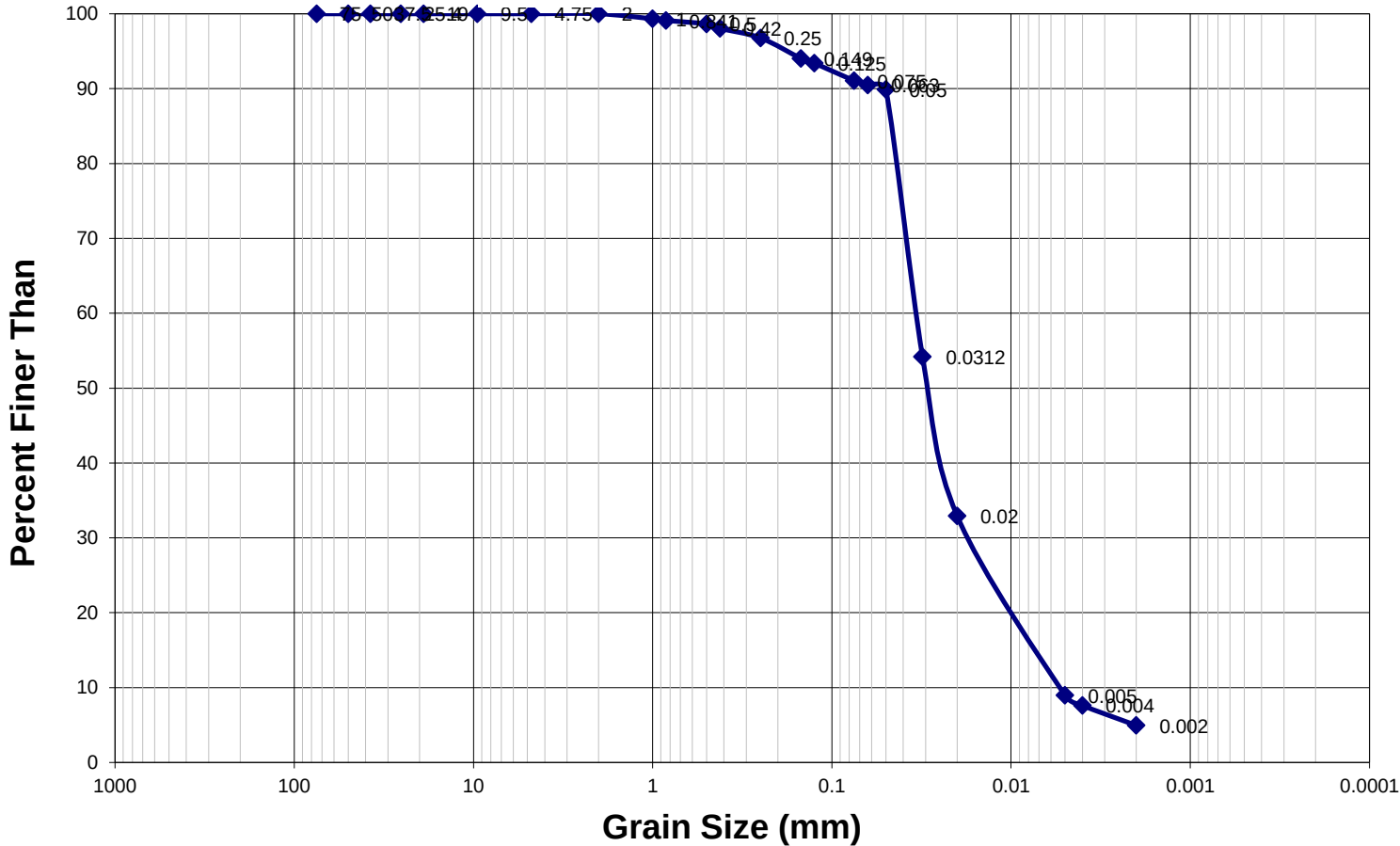
Canadian Soil Survey Committee (CSSC)

Size Class	Size Range	Wt. (%)
Cobbles	> 75mm	0
Gravel	75mm - 2mm	0
Sand	2mm - 0.05mm	4.8
Silt	0.05mm - 0.002mm	86.31
Clay	< 0.002mm	8.9

Texture
Silt

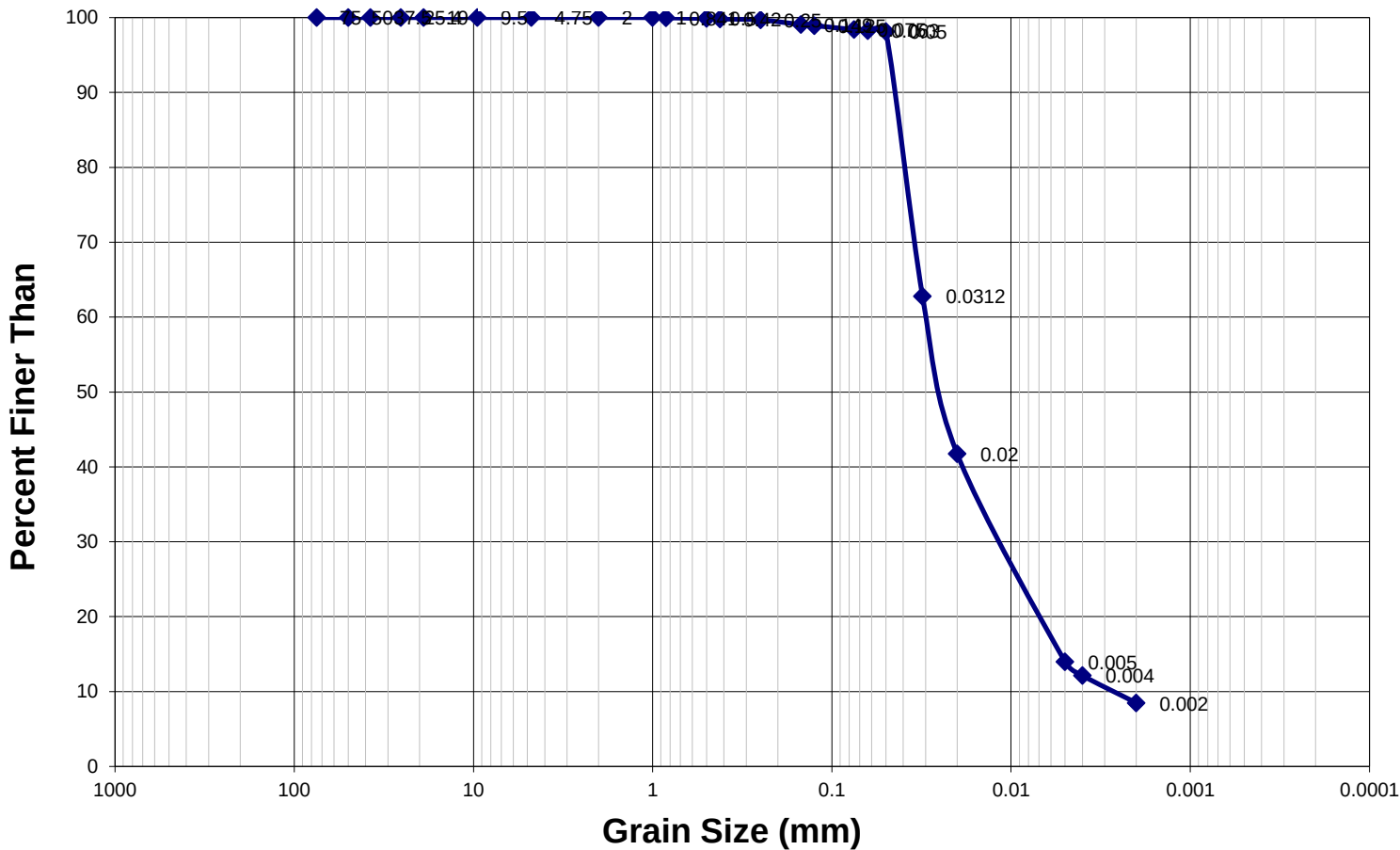


Particle Size Distribution Curve





Particle Size Distribution Curve



Summary of Results

Unified Soil Classification System (USCS)

Size Class	Size Range	Wt. (%)
Cobbles	> 75mm	0
Gravel	75mm - 4.75mm	0
Coarse Sand	4.75mm - 2mm	0
Medium Sand	2mm - 0.425mm	0.17
Fine Sand	0.425mm - 0.075mm	1.44
Fines	< 0.075mm	98.39

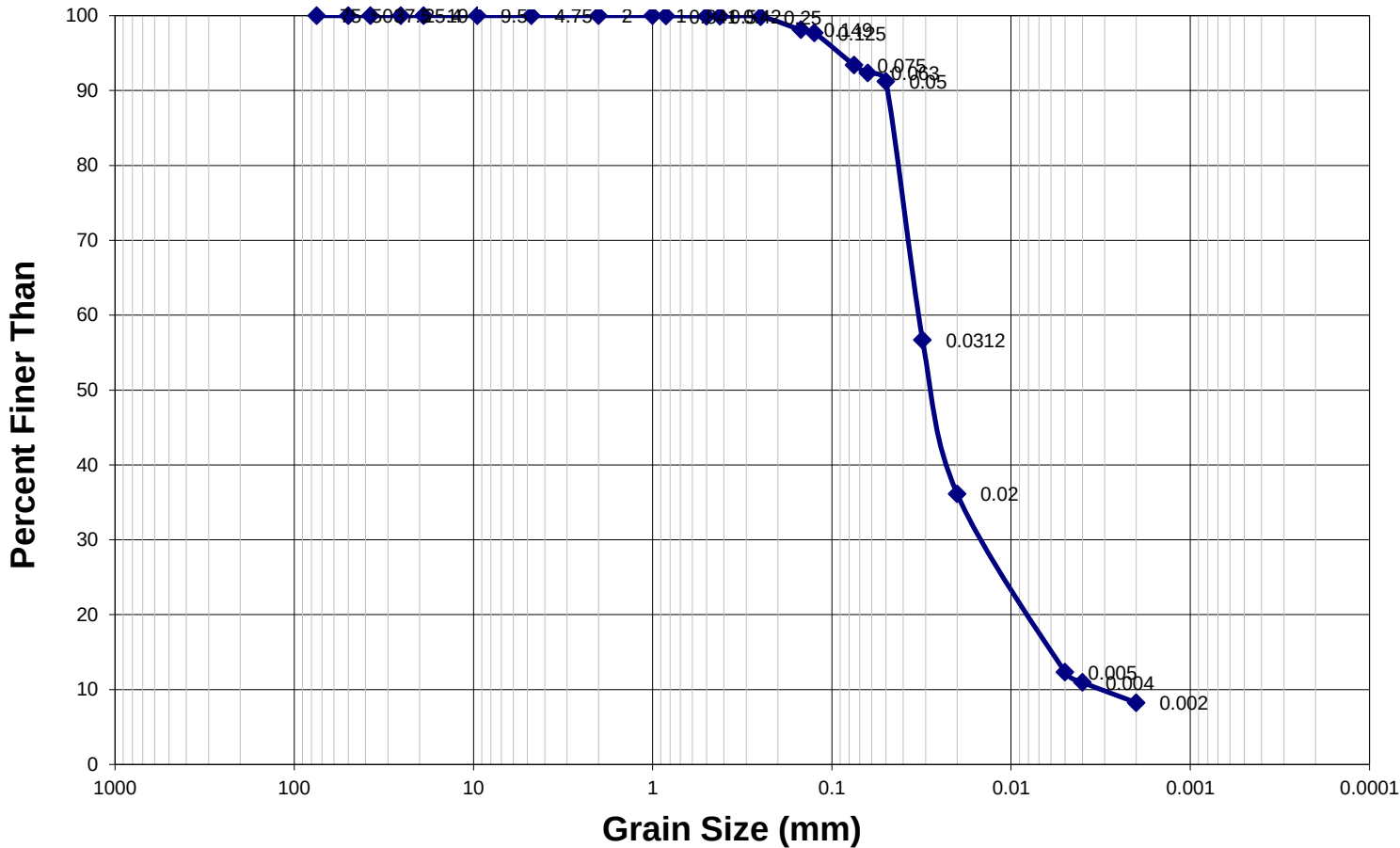
Canadian Soil Survey Committee (CSSC)

Size Class	Size Range	Wt. (%)
Cobbles	> 75mm	0
Gravel	75mm - 2mm	0
Sand	2mm - 0.05mm	1.89
Silt	0.05mm - 0.002mm	89.63
Clay	< 0.002mm	8.49

Texture
Silt



Particle Size Distribution Curve



Summary of Results

Unified Soil Classification System (USCS)

Size Class	Size Range	Wt. (%)
Cobbles	> 75mm	0
Gravel	75mm - 4.75mm	0
Coarse Sand	4.75mm - 2mm	0
Medium Sand	2mm - 0.425mm	0.09
Fine Sand	0.425mm - 0.075mm	6.52
Fines	< 0.075mm	93.39

Canadian Soil Survey Committee (CSSC)

Size Class	Size Range	Wt. (%)
Cobbles	> 75mm	0
Gravel	75mm - 2mm	0
Sand	2mm - 0.05mm	8.77
Silt	0.05mm - 0.002mm	82.99
Clay	< 0.002mm	8.25

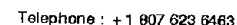
Texture
Silt

COC Number: **22 -**

Canada Toll Free: 1 800 668 9878

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Environmental Division
Thunder Bay
Work Order Reference
TY2510782



Report To		Contact and company name below will appear on the final report		Reports / Recipients		Turnaround Time (TAT) Requested									
Company:		G3 Consulting Ltd.		Select Report Format: ☒ PDF ☒ EXCEL ☐ EDO (DIGITAL)		☒ Routine [R] If received by 3pm M-F - no surcharges apply									
Contact:		Greg Thomas		Merge QC/QCI Reports With COA ☒ YES ☐ NO ☐ N/A		☐ 4 day [P4] If received by 3pm M-F - 20% rush surcharge minimum									
Phone:		604-588-8501		☒ Compare Results to Criteria on Report - provide details below if box checked		☐ 3 day [P3] If received by 3pm M-F - 75% rush surcharge minimum									
		Company address below will appear on the final report		Select Distribution: ☒ EMAIL ☐ MAIL ☐ FAX		☐ 2 day [P2] If received by 3pm M-F - 50% rush surcharge minimum									
Street:		206-8501 162 St		Email 1 or Fax kalfonso@g3consulting.com; cwilson@g3consulting.com		☐ 1 day [E] If received by 3pm M-F - 100% rush surcharge minimum									
City/Province:		Surrey BC		Email 2 aquashin@g3consulting.com; darrell@g3consulting.com		☐ Same day [E2] If received by 10am M-S - 200% rush surcharge									
Postal Code:		V4N 1B2		Email 3 gthomas@g3consulting.com; mtylo@g3consulting.com		Additional fees may apply to rush requests on weekends									
Invoice To		Same as Report To ☐ YES ☒ NO		Invoice Recipients		Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm am/pm									
		Copy of Invoice with Report ☐ YES ☒ NO		Select Invoice Distribution: ☒ EMAIL ☐ MAIL ☐ FAX		For all tests with rush TATs requested, please contact your AM to confirm availability.									
Company:		G3 Consulting Ltd.		Email 1 or Fax sjohnson@g3consulting.com		Analysis Request									
Contact:				Email 2 info@g3consulting.com		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (FP) below									
Project Information				Oil and Gas Required Fields (client use)				NUMBER OF CONTAINERS							
ALS Account # / Quote #:		G3CO100 / WT2025G3CO1000001		AFE/Cost Center:		PO#									
Job #:		2502		Major/Minor Code:		Routing Code:									
PO / AFE:		2502		Requisitioner:											
LSD:				Location:				SAMPLES ON HOLD EXTENDED STORAGE REQUIRED SUSPECTED HAZARD (see notes)							
ALS Lab Work Order # (ALS use only): 10782				ALS Contact:		Sampler:									
ALS Sample # (ALS use only)		Sample Identification and/or Coordinates (This description will appear on the report)		Data (dd-mm-yy)		Time (hh:mm)								Sample Type	
		25ONG309 SED OL-B		16 -Sept-2025		13:16		Sediment		ANALYSIS RESULTS					
		25ONG309 SED OL-100		16 -Sept-2025		12:40		Sediment							
		25ONG309 SED OL-250		16 -Sept-2025		13:00		Sediment							
		25ONG309 SED OL-F		16 -Sept-2025		13:29		Sediment							
		25ONG309 SED DUP 1		16 -Sept-2025		11:07		Sediment							
		25ONG309 SED HL-B		16 -Sept-2025		11:07		Sediment							
		25ONG309 SED HL-B-IN		16 -Sept-2025		11:07		Sediment							
		25ONG309 SED HL-REF		16 -Sept-2025		8:48		Sediment							
		25ONG309 SED HL-100-07		16 -Sept-2025		10:45		Sediment							
		25ONG309 SED HL-100-11		16 -Sept-2025		11:00		Sediment							
		25ONG309 SED HL-250-11		16 -Sept-2025		14:36		Sediment							
		25ONG309 SED HL-250-09		16 -Sept-2025		9:24		Sediment							
		25ONG309 SED HL-250-07		16 -Sept-2025		14:19		Sediment							
		25ONG309 SED HL-500-07		16 -Sept-2025		15:00		Sediment							
Drinking Water (DW) Samples (client use)				Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)				SAMPLE RECEIPT DETAILS (ALS use only)							
Are samples taken from a Regulated DW System? ☐ YES ☐ NO								Cooling Method: ☐ NONE ☐ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED							
Are samples for human consumption/use? ☐ YES ☐ NO								Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO							
								Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A							
								INITIAL COOLER TEMPERATURES °C FINAL COOLER TEMPERATURES °C							
								7.8 4.3 7.9							
SHIPMENT RELEASE (client use)				INITIAL SHIPMENT RECEPTION (ALS use only)				FINAL SHIPMENT RECEPTION (ALS use only)							
Released by: YK		Date: 9/19/25		Time: 10:16		Received by:		Date: 9/19/25		Time: 4:30					

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white-report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

25' 11' 09 SED 11-00-09 10th Sept 2025 10:30

JAN 2025 (P. 10)



COC Number: 22 -

Page 2 of 6

Canada Toll Free: 1 800 668 9878

[illegible]

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white-report copy.

1. If any water samples are taken from a **Regulated Drinking Water (RDW)** System, please submit using an **Authorized DW CQC form**.

1993

Intake and Login Verification Form

SAMPLE INTAKE						ACCOUNT INFO VERIFICATION					
Priority/Emergency Service Requested		YES	NO			Priority/Emergency Service Requested		YES	NO		
Time Sensitive Hold Time		YES	NO			Confirmed all as accurate as per COC, Sample Remarks or PM					
Client:						Client		Work Contact	Quote		
SAMPLE RECEIPT INFORMATION						RECEIPT DETAIL					
Mode of Delivery:		Courier	Drop Off			Project		PO	Site/LSD		
Courier						Overall Description Entered		Yes	NA		
Waybill Number						Received date/time as per COC					
Temperature				Cooler Count		Recipients match CoC or Sample Remarks		Yes	No		
Cooling Method		None	Ice	Ice Packs		Billing Instruction added to remarks		Yes	NA		
SAMPLE MATRIX/BOTTLE INFORMATION						VERIFICATION CHECKLIST					
Matrix:	Water	Soil	Air	Biota	Other	Sample Remarks/Specification Doc checked					
DW Schedule 24 Bottles Correct?		Yes		No		Submission Issues communicated		Yes	NA		
DW Metals pH Check <2		Yes		No		Sample Info communicated via Remarks		Yes	NA		
Regulation Circled, Works # present		Yes		No - Reject?		Planned Event Submission				Yes	No
# of Bottles:		Sample Count		16		Sample Name entered as per CoC					
Green/white						Sampling Date and time entered as per CoC					
Purple/white						Containers selected in layout order					
Warm red/white						Sales items entered from QUOTE ONLY (and/or verified as correct)					
Yellow/black						Field Data/EC298A removed if not on COC		Yes	NA		
Light blue/white						Bottle Allocation Verified					
Orange/black		16 X 380ml jars med				Guideline added or auto-allocated					
Others (detail)		16 bags soil				Due dates updated					
Comments on Samples and Bottles:						VALIDATION					
						Validation errors resolved?		Yes	No		
						Internal Sublet CoC created		Yes	NA		
Samples Requiring Preservation or Filtering:						Login Comments: Bag - WT (AA) Total N/TKN - Sask. (AB) Particle size - Sask. (AC) metals AVS - Vancouver (AD)					
Layout Staff Initials		800				Login Staff Initials:		8007			
Date and Time of Layout		23/9/25 13:47									

APPENDIX 4

Algae Lab Data

CERTIFICATE OF ANALYSIS

Work Order	: TY2506644		
Client	: G3 Consulting Ltd.	Laboratory	: ALS Environmental - Thunder Bay
Contact	: Greg Thomas	Account Manager	: Colby Coutu
Address	: 206-8501 162nd St. Surrey British Columbia Canada V4N 1B2	Address	: 1081 Barton Street Thunder Bay ON Canada P7B 5N3
Telephone	: 604 598 8501	E-mail	: colby.coutu@alsglobal.com
Project	: 2502	Telephone	: +1 807 623 6463
PO	: 1269	Date Samples Received	: 23-Jun-2025 11:54
C-O-C number	: ----	Date Analysis Commenced	: 24-Jun-2025
Sampler	: ----	Issue Date	: 16-Nov-2025 23:05
Site	: ----		
Quote number	: Dubreuilville Project		
No. of samples received	: 16		
No. of samples analysed	: 16		

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.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Cassandra Grzelewski	Team Leader - Inorganics	Metals, Thunder Bay, Ontario
Cassandra Grzelewski	Team Leader - Inorganics	Inorganics, Thunder Bay, Ontario
Cassandra Grzelewski	Account Manager	External Subcontracting, Saskatoon, Saskatchewan
Ilnaz Badbezanchi	Supervisor - Metals Prep	Metals, Burnaby, British Columbia
Jon Fisher	Laboratory Manager - Environmental	Inorganics, Waterloo, Ontario
Julie Ruoho	Teamleader Wet Chem	Inorganics, Thunder Bay, Ontario
Julie Ruoho	Teamleader Wet Chem	Administration, Thunder Bay, Ontario
Kevin Baxter	Supervisor - Inorganic	Metals, Winnipeg, Manitoba
Kevin Baxter	Supervisor - Inorganic	Inorganics, Winnipeg, Manitoba
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Metals, Burnaby, British Columbia
Leila Conyard	Lab Assistant	Metals, Winnipeg, Manitoba
Miles Gropen	Department Manager - Inorganics	Inorganics, Burnaby, British Columbia
Nik Perkio	Senior Analyst	Inorganics, Waterloo, Ontario
Nik Perkio	Senior Analyst	Centralized Prep, Waterloo, Ontario
Rhiannon Scheffee	Project Manager	Metals, Thunder Bay, Ontario
Shannon Veltri	Supervisor - Water Chemistry	Inorganics, Thunder Bay, Ontario
Shannon Veltri	Account Manager	Metals, Winnipeg, Manitoba
Shannon Veltri	Supervisor - Water Chemistry	Administration, Thunder Bay, Ontario
Taelur Kachur	Laboratory Analyst	Inorganics, Thunder Bay, Ontario

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).

Unit	Description
-	no units
°C	degrees celsius
Bq/L	becquerels per litre
mg/L	milligrams per litre
pH units	pH units
µg/L	micrograms per litre

<: less than.

>: greater than.

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.

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
BODF	BOD analyzed from frozen (preserved) sample. Hold time for unpreserved samples was exceeded, but freezing can extend hold time to at least 1 month, according to ISO 5667-3 (2018).



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID

					25ONG306 FW OL -B ----	25ONG306 FW OL- F ----	25ONG306 FW OL -100 ----	25ONG306 FW OL- 250 ----	25ONG306 FW HL- B-IN-M ----
Client sampling date / time					21-Jun-2025 08:51	21-Jun-2025 08:30	20-Jun-2025 14:18	20-Jun-2025 14:11	20-Jun-2025 10:53
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2506644-001	TY2506644-002	TY2506644-003	TY2506644-004	TY2506644-005
					Result	Result	Result	Result	Result
Field Tests									
pH, field	----	EF001/TY	0.01	pH units	9.90	9.79	10.08	9.60	10.02
Temperature, field	----	EF001/TY	0.01	°C	19.0	20.3	18.7	19.9	17.8
Sample Preparation									
Dissolved carbon filtration location	----	EP358/WT	-	-	field	field	field	field	field
Physical Tests									
Acidity (as CaCO ₃)	----	E283/TY	2.0	mg/L	3.9	3.0	2.8	2.5	<2.0
Hardness (as CaCO ₃), dissolved	----	EC100/TY	0.50	mg/L	77.6	71.3	68.8	67.7	71.8
Solids, total dissolved [TDS]	----	E162/TY	10	mg/L	105	102	98	103	94
Solids, total suspended [TSS]	----	E160/TY	3.0	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0
Alkalinity, total (as CaCO ₃)	----	E290/TY	2.0	mg/L	67.4	65.7	63.7	61.1	68.7
Anions and Nutrients									
Ammonia, total (as N)	7664-41-7	E298/TY	0.0050	mg/L	0.0290	0.0218	0.0214	0.0135	0.0056
Ammonia, un-ionized (as N), field	7664-41-7	EC298A/TY	0.0010	mg/L	0.0216	0.0156	0.0174	0.0082	0.0044
Chloride	16887-00-6	E235.Cl/TY	0.50	mg/L	3.57	3.38	3.36	3.22	2.13
Cyanate	88402-73-7	E343/WT	0.20	mg/L	<0.20	<0.20	<0.20	<0.20	<0.20
Fluoride	16984-48-8	E235.F/TY	0.020	mg/L	0.071	0.074	0.074	0.075	0.050
Kjeldahl nitrogen, total [TKN]	----	E318/TY	0.050	mg/L	0.397	0.376	0.416	0.347	0.282
Nitrate (as N)	14797-55-8	E235.NO3/TY	0.020	mg/L	0.436	0.281	0.274	0.153	<0.020
Nitrite (as N)	14797-65-0	E235.NO2/TY	0.010	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Nitrogen, total	7727-37-9	EC368/TY	0.050	mg/L	0.833	0.657	0.690	0.500	0.282
Nitrogen, total organic	----	EC363/TY	0.050	mg/L	0.368	0.354	0.395	0.334	0.276



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					25ONG306 FW OL-B	25ONG306 FW OL-F	25ONG306 FW OL-100	25ONG306 FW OL-250	25ONG306 FW HL-B-IN-M
Client sampling date / time					21-Jun-2025 08:51	21-Jun-2025 08:30	20-Jun-2025 14:18	20-Jun-2025 14:11	20-Jun-2025 10:53
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2506644-001	TY2506644-002	TY2506644-003	TY2506644-004	TY2506644-005
					Result	Result	Result	Result	Result
Anions and Nutrients									
Phosphorus, total	7723-14-0	E372-U/TY	0.0020	mg/L	0.0261	0.0076	0.0089	0.0156	0.0106
Sulfate (as SO4)	14808-79-8	E235.SO4/TY	0.30	mg/L	15.3	12.9	12.4	9.94	12.7
Cyanides									
Cyanide, free	----	E339/WT	0.0020	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cyanide, strong acid dissociable (Total)	----	E333/WT	0.0020	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cyanide, weak acid dissociable	----	E336/WT	0.0020	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Thiocyanate	302-04-5	E344/VA	0.50	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Organic / Inorganic Carbon									
Carbon, dissolved organic [DOC]	----	E358-L/WT	0.50	mg/L	7.29	8.24	7.34	7.26	6.47
Total Metals									
Arsenic, total	7440-38-2	E420/TY	0.00010	mg/L	0.00066	0.00070	0.00074	0.00074	0.00064
Cadmium, total	7440-43-9	E420/TY	0.0000050	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Chromium, total	7440-47-3	E420/TY	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt, total	7440-48-4	E420/TY	0.00010	mg/L	0.00010	<0.00010	<0.00010	<0.00010	0.00011
Copper, total	7440-50-8	E420/TY	0.00050	mg/L	0.00080	0.00072	0.00072	0.00070	0.00075
Iron, total	7439-89-6	E420/TY	0.010	mg/L	0.018	0.014	0.018	0.018	<0.010
Lead, total	7439-92-1	E420/TY	0.000050	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	0.000087
Manganese, total	7439-96-5	E420/TY	0.00010	mg/L	0.0528	0.0463	0.0537	0.0522	0.00637
Mercury, total	7439-97-6	E508/WP	0.0000050	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Molybdenum, total	7439-98-7	E420/TY	0.000050	mg/L	0.000491	0.000440	0.000431	0.000411	0.000450
Nickel, total	7440-02-0	E420/TY	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG306 FW OL -B ----	25ONG306 FW OL- F ----	25ONG306 FW OL -100 ----	25ONG306 FW OL- 250 ----	25ONG306 FW HL- B-IN-M ----
Client sampling date / time						21-Jun-2025 08:51	21-Jun-2025 08:30	20-Jun-2025 14:18	20-Jun-2025 14:11	20-Jun-2025 10:53
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2506644-001	TY2506644-002	TY2506644-003	TY2506644-004	TY2506644-005
						Result	Result	Result	Result	Result
Total Metals										
Selenium, total	7782-49-2	E420/TY	0.000050	mg/L		0.000074	0.000054	0.000071	0.000075	0.000103
Thallium, total	7440-28-0	E420/TY	0.000010	mg/L		0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Uranium, total	7440-61-1	E420/TY	0.000010	mg/L		0.000224	0.000205	0.000196	0.000169	0.000146
Zinc, total	7440-66-6	E420/TY	0.0030	mg/L		<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Dissolved Metals										
Aluminum, dissolved	7429-90-5	E421/TY	0.0010	mg/L		0.0108	0.0099	0.0107	0.0103	0.0022
Antimony, dissolved	7440-36-0	E421/TY	0.00010	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Arsenic, dissolved	7440-38-2	E421/TY	0.00010	mg/L		0.00061	0.00058	0.00064	0.00062	0.00056
Barium, dissolved	7440-39-3	E421/TY	0.00010	mg/L		0.0132	0.0121	0.0123	0.0119	0.0141
Beryllium, dissolved	7440-41-7	E421/TY	0.000020	mg/L		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Bismuth, dissolved	7440-69-9	E421/TY	0.000050	mg/L		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Boron, dissolved	7440-42-8	E421/TY	0.010	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium, dissolved	7440-43-9	E421/TY	0.0000050	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Calcium, dissolved	7440-70-2	E421/TY	0.050	mg/L		26.0	23.8	23.0	22.7	24.3
Cesium, dissolved	7440-46-2	E421/TY	0.000010	mg/L		0.000057	0.000050	0.000050	0.000050	0.000043
Chromium, dissolved	7440-47-3	E421/TY	0.00050	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt, dissolved	7440-48-4	E421/TY	0.00010	mg/L		0.00011	<0.00010	<0.00010	<0.00010	0.00011
Copper, dissolved	7440-50-8	E421/TY	0.00020	mg/L		0.00071	0.00065	0.00064	0.00065	0.00066
Iron, dissolved	7439-89-6	E421/TY	0.010	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010
Lead, dissolved	7439-92-1	E421/TY	0.000050	mg/L		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Lithium, dissolved	7439-93-2	E421/TY	0.0010	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG306 FW OL -B ----	25ONG306 FW OL- F ----	25ONG306 FW OL -100 ----	25ONG306 FW OL- 250 ----	25ONG306 FW HL- B-IN-M ----
Client sampling date / time						21-Jun-2025 08:51	21-Jun-2025 08:30	20-Jun-2025 14:18	20-Jun-2025 14:11	20-Jun-2025 10:53
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2506644-001	TY2506644-002	TY2506644-003	TY2506644-004	TY2506644-005
						Result	Result	Result	Result	Result
Dissolved Metals										
Magnesium, dissolved	7439-95-4	E421/TY	0.0050	mg/L		3.07	2.88	2.77	2.68	2.69
Manganese, dissolved	7439-96-5	E421/TY	0.00010	mg/L		0.00150	0.00118	0.00499	0.00358	0.00111
Mercury, dissolved	7439-97-6	E509/WP	0.0000050	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Molybdenum, dissolved	7439-98-7	E421/TY	0.000050	mg/L		0.000451	0.000435	0.000425	0.000390	0.000428
Nickel, dissolved	7440-02-0	E421/TY	0.00050	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Phosphorus, dissolved	7723-14-0	E421/TY	0.050	mg/L		<0.050	<0.050	<0.050	<0.050	<0.050
Potassium, dissolved	7440-09-7	E421/TY	0.050	mg/L		1.68	1.56	1.53	1.46	1.48
Rubidium, dissolved	7440-17-7	E421/TY	0.00020	mg/L		0.00323	0.00322	0.00307	0.00276	0.00297
Selenium, dissolved	7782-49-2	E421/TY	0.000050	mg/L		0.000084	0.000082	0.000088	0.000085	<0.000050
Silicon, dissolved	7440-21-3	E421/TY	0.050	mg/L		2.02	2.02	1.87	1.99	1.25
Silver, dissolved	7440-22-4	E421/TY	0.000010	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Sodium, dissolved	7440-23-5	E421/TY	0.050	mg/L		3.58	3.15	2.90	2.81	3.03
Strontium, dissolved	7440-24-6	E421/TY	0.00020	mg/L		0.185	0.183	0.176	0.180	0.149
Sulfur, dissolved	7704-34-9	E421/TY	0.50	mg/L		5.52	4.40	4.01	3.89	4.50
Tellurium, dissolved	13494-80-9	E421/TY	0.00020	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Thallium, dissolved	7440-28-0	E421/TY	0.000010	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Thorium, dissolved	7440-29-1	E421/TY	0.00010	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Tin, dissolved	7440-31-5	E421/TY	0.00010	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Titanium, dissolved	7440-32-6	E421/TY	0.00030	mg/L		<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Tungsten, dissolved	7440-33-7	E421/TY	0.00010	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Uranium, dissolved	7440-61-1	E421/TY	0.000010	mg/L		0.000216	0.000183	0.000182	0.000170	0.000150



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG306 FW OL-B	25ONG306 FW OL-F	25ONG306 FW OL-100	25ONG306 FW OL-250	25ONG306 FW HL-B-IN-M
					Client sampling date / time	21-Jun-2025 08:51	21-Jun-2025 08:30	20-Jun-2025 14:18	20-Jun-2025 14:11	20-Jun-2025 10:53
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2506644-001	TY2506644-002	TY2506644-003	TY2506644-004	TY2506644-005
						Result	Result	Result	Result	Result
Dissolved Metals										
Vanadium, dissolved	7440-62-2	E421/TY	0.00050	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Zinc, dissolved	7440-66-6	E421/TY	0.0010	mg/L		0.0018	<0.0010	<0.0010	0.0011	<0.0010
Zirconium, dissolved	7440-67-7	E421/TY	0.00030	mg/L		<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Dissolved MeHg filtration location	----	EP537/VA	-	-		Field	Field	Field	Field	Field
Dissolved mercury filtration location	----	EP509/WP	-	-		Field	Field	Field	Field	Field
Dissolved metals filtration location	----	EP421/TY	-	-		Field	Field	Field	Field	Field
Speciated Metals										
Methylmercury (as MeHg), total	22967-92-6	E536/VA	0.000020	µg/L		0.000108	0.000107	0.000107	0.000174	0.000048
Methylmercury (as MeHg), dissolved	22967-92-6	E537/VA	0.000020	µg/L		0.000087	0.000070	0.000072	0.000076	0.000039
Aggregate Organics										
Biochemical oxygen demand [BOD]	----	E550/TY	2.0	mg/L		<2.0	<2.0	<2.0 BODF	<2.0 BODF	<2.0 BODF
Plant Pigments										
Chlorophyll a	479-61-8	E870/WP	0.010	µg/L		17.7	13.7	18.8	172	14.2
Radiological Parameters										
Radium-226	13982-63-3	Ra-226/2l	0.005	Bq/L		<0.005	<0.005	<0.005	0.006	<0.005

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



Analytical Results

Sub-Matrix: Water
(Matrix: Water)

					Client sample ID	25ONG306 FW HL -B-T ----	25ONG306 FW HL- REF-T ----	25ONG306 FW HL- 250-09-T ----	25ONG306 FW HL- 250-09-B ----	25ONG306 FW GL- B-B ----
Client sampling date / time						20-Jun-2025 10:32	20-Jun-2025 15:31	20-Jun-2025 16:02	20-Jun-2025 15:51	21-Jun-2025 08:49
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2506644-006	TY2506644-007	TY2506644-008	TY2506644-009	TY2506644-010
						Result	Result	Result	Result	Result
Field Tests										
pH, field	----	EF001/TY	0.01	pH units		10.17	10.82	9.68	9.68	10.73
Temperature, field	----	EF001/TY	0.01	°C		17.0	19.8	6.52	6.52	18.3
Sample Preparation										
Dissolved carbon filtration location	----	EP358/WT	-	-		field	field	field	field	field
Physical Tests										
Acidity (as CaCO ₃)	----	E283/TY	2.0	mg/L		<2.0	<2.0	<2.0	3.8	2.2
Hardness (as CaCO ₃), dissolved	----	EC100/TY	0.50	mg/L		72.1	72.2	72.6	77.6	69.7
Solids, total dissolved [TDS]	----	E162/TY	10	mg/L		96	90	96	105	127
Solids, total suspended [TSS]	----	E160/TY	3.0	mg/L		<3.0	<3.0	<3.0	<3.0	<3.0
Alkalinity, total (as CaCO ₃)	----	E290/TY	2.0	mg/L		69.5	69.1	69.8	74.6	65.0
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/TY	0.0050	mg/L		0.0051	0.0073	0.0050	0.0438	0.0313
Ammonia, un-ionized (as N), field	7664-41-7	EC298A/TY	0.0010	mg/L		0.0042	0.0070	0.0020	0.0176	0.0297
Chloride	16887-00-6	E235.Cl/TY	0.50	mg/L		2.20	2.14	2.16	2.34	4.92
Cyanate	88402-73-7	E343/WT	0.20	mg/L		<0.20	<0.20	<0.20	<0.20	<0.20
Fluoride	16984-48-8	E235.F/TY	0.020	mg/L		0.050	0.051	0.052	0.050	0.054
Kjeldahl nitrogen, total [TKN]	----	E318/TY	0.050	mg/L		0.249	0.207	0.188	0.531	0.297
Nitrate (as N)	14797-55-8	E235.NO3/TY	0.020	mg/L		<0.020	<0.020	<0.020	0.332	1.33
Nitrite (as N)	14797-65-0	E235.NO2/TY	0.010	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010
Nitrogen, total	7727-37-9	EC368/TY	0.050	mg/L		0.249	0.207	0.188	0.863	1.63
Nitrogen, total organic	----	EC363/TY	0.050	mg/L		0.244	0.200	0.183	0.487	0.266



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG306 FW HL -B-T ----	25ONG306 FW HL- REF-T ----	25ONG306 FW HL- 250-09-T ----	25ONG306 FW HL- 250-09-B ----	25ONG306 FW GL- B-B ----
Client sampling date / time						20-Jun-2025 10:32	20-Jun-2025 15:31	20-Jun-2025 16:02	20-Jun-2025 15:51	21-Jun-2025 08:49
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2506644-006	TY2506644-007	TY2506644-008	TY2506644-009	TY2506644-010
						Result	Result	Result	Result	Result
Anions and Nutrients										
Phosphorus, total	7723-14-0	E372-U/TY	0.0020	mg/L		0.0067	0.0068	0.0084	0.0124	0.0108
Sulfate (as SO4)	14808-79-8	E235.SO4/TY	0.30	mg/L		12.7	12.5	12.8	15.3	32.0
Cyanides										
Cyanide, free	----	E339/WT	0.0020	mg/L		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cyanide, strong acid dissociable (Total)	----	E333/WT	0.0020	mg/L		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cyanide, weak acid dissociable	----	E336/WT	0.0020	mg/L		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Thiocyanate	302-04-5	E344/VA	0.50	mg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Organic / Inorganic Carbon										
Carbon, dissolved organic [DOC]	----	E358-L/WT	0.50	mg/L		6.19	6.42	7.19	7.91	7.76
Total Metals										
Arsenic, total	7440-38-2	E420/TY	0.00010	mg/L		0.00064	0.00060	0.00061	0.00063	0.00074
Cadmium, total	7440-43-9	E420/TY	0.0000050	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Chromium, total	7440-47-3	E420/TY	0.00050	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt, total	7440-48-4	E420/TY	0.00010	mg/L		0.00012	0.00012	0.00012	0.00015	0.00146
Copper, total	7440-50-8	E420/TY	0.00050	mg/L		0.00068	0.00074	0.00066	0.00065	0.00116
Iron, total	7439-89-6	E420/TY	0.010	mg/L		0.010	<0.010	<0.010	0.035	0.030
Lead, total	7439-92-1	E420/TY	0.000050	mg/L		<0.000050	<0.000050	<0.000050	<0.000050	0.000141
Manganese, total	7439-96-5	E420/TY	0.00010	mg/L		0.0112	0.00668	0.00570	0.297	0.0130
Mercury, total	7439-97-6	E508/WP	0.0000050	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Molybdenum, total	7439-98-7	E420/TY	0.000050	mg/L		0.000434	0.000408	0.000406	0.000453	0.00129
Nickel, total	7440-02-0	E420/TY	0.00050	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	0.00065



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG306 FW HL -B-T ----	25ONG306 FW HL- REF-T ----	25ONG306 FW HL- 250-09-T ----	25ONG306 FW HL- 250-09-B ----	25ONG306 FW GL- B-B ----
Client sampling date / time						20-Jun-2025 10:32	20-Jun-2025 15:31	20-Jun-2025 16:02	20-Jun-2025 15:51	21-Jun-2025 08:49
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2506644-006	TY2506644-007	TY2506644-008	TY2506644-009	TY2506644-010
						Result	Result	Result	Result	Result
Total Metals										
Selenium, total	7782-49-2	E420/TY	0.000050	mg/L		0.000061	0.000083	0.000081	0.000114	0.000154
Thallium, total	7440-28-0	E420/TY	0.000010	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Uranium, total	7440-61-1	E420/TY	0.000010	mg/L		0.000153	0.000154	0.000153	0.000181	0.000116
Zinc, total	7440-66-6	E420/TY	0.0030	mg/L		<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Dissolved Metals										
Aluminum, dissolved	7429-90-5	E421/TY	0.0010	mg/L		0.0032	0.0032	0.0023	0.0018	0.0067
Antimony, dissolved	7440-36-0	E421/TY	0.00010	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	0.00025
Arsenic, dissolved	7440-38-2	E421/TY	0.00010	mg/L		0.00055	0.00054	0.00052	0.00057	0.00068
Barium, dissolved	7440-39-3	E421/TY	0.00010	mg/L		0.0137	0.0135	0.0140	0.0162	0.0155
Beryllium, dissolved	7440-41-7	E421/TY	0.000020	mg/L		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Bismuth, dissolved	7440-69-9	E421/TY	0.000050	mg/L		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Boron, dissolved	7440-42-8	E421/TY	0.010	mg/L		<0.010	<0.010	<0.010	<0.010	0.014
Cadmium, dissolved	7440-43-9	E421/TY	0.0000050	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Calcium, dissolved	7440-70-2	E421/TY	0.050	mg/L		24.4	24.5	24.6	26.1	23.1
Cesium, dissolved	7440-46-2	E421/TY	0.000010	mg/L		0.000044	0.000046	0.000044	0.000050	0.000021
Chromium, dissolved	7440-47-3	E421/TY	0.00050	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt, dissolved	7440-48-4	E421/TY	0.00010	mg/L		0.00010	<0.00010	0.00010	0.00014	0.00146
Copper, dissolved	7440-50-8	E421/TY	0.00020	mg/L		0.00062	0.00064	0.00066	0.00053	0.00124
Iron, dissolved	7439-89-6	E421/TY	0.010	mg/L		<0.010	<0.010	<0.010	<0.010	0.013
Lead, dissolved	7439-92-1	E421/TY	0.000050	mg/L		<0.000050	<0.000050	<0.000050	<0.000050	0.000114
Lithium, dissolved	7439-93-2	E421/TY	0.0010	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG306 FW HL -B-T ----	25ONG306 FW HL- REF-T ----	25ONG306 FW HL- 250-09-T ----	25ONG306 FW HL- 250-09-B ----	25ONG306 FW GL- B-B ----
Client sampling date / time						20-Jun-2025 10:32	20-Jun-2025 15:31	20-Jun-2025 16:02	20-Jun-2025 15:51	21-Jun-2025 08:49
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2506644-006	TY2506644-007	TY2506644-008	TY2506644-009	TY2506644-010
						Result	Result	Result	Result	Result
Dissolved Metals										
Magnesium, dissolved	7439-95-4	E421/TY	0.0050	mg/L		2.72	2.68	2.71	3.03	2.93
Manganese, dissolved	7439-96-5	E421/TY	0.00010	mg/L		0.00288	0.00196	0.00119	0.00252	0.00622
Mercury, dissolved	7439-97-6	E509/WP	0.0000050	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Molybdenum, dissolved	7439-98-7	E421/TY	0.000050	mg/L		0.000428	0.000461	0.000400	0.000427	0.00118
Nickel, dissolved	7440-02-0	E421/TY	0.00050	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	0.00062
Phosphorus, dissolved	7723-14-0	E421/TY	0.050	mg/L		<0.050	<0.050	<0.050	<0.050	<0.050
Potassium, dissolved	7440-09-7	E421/TY	0.050	mg/L		1.48	1.48	1.50	1.66	3.11
Rubidium, dissolved	7440-17-7	E421/TY	0.00020	mg/L		0.00299	0.00296	0.00316	0.00342	0.00243
Selenium, dissolved	7782-49-2	E421/TY	0.000050	mg/L		0.000060	0.000068	0.000068	0.000100	0.000078
Silicon, dissolved	7440-21-3	E421/TY	0.050	mg/L		1.32	1.29	1.28	2.50	1.68
Silver, dissolved	7440-22-4	E421/TY	0.000010	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Sodium, dissolved	7440-23-5	E421/TY	0.050	mg/L		3.09	3.05	3.16	3.76	13.4
Strontium, dissolved	7440-24-6	E421/TY	0.00020	mg/L		0.148	0.150	0.144	0.152	0.0477
Sulfur, dissolved	7704-34-9	E421/TY	0.50	mg/L		4.51	4.42	4.44	5.28	11.3
Tellurium, dissolved	13494-80-9	E421/TY	0.00020	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Thallium, dissolved	7440-28-0	E421/TY	0.000010	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Thorium, dissolved	7440-29-1	E421/TY	0.00010	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Tin, dissolved	7440-31-5	E421/TY	0.00010	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Titanium, dissolved	7440-32-6	E421/TY	0.00030	mg/L		<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Tungsten, dissolved	7440-33-7	E421/TY	0.00010	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	0.00414
Uranium, dissolved	7440-61-1	E421/TY	0.000010	mg/L		0.000149	0.000145	0.000147	0.000168	0.000108



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG306 FW HL -B-T ----	25ONG306 FW HL- REF-T ----	25ONG306 FW HL- 250-09-T ----	25ONG306 FW HL- 250-09-B ----	25ONG306 FW GL- B-B ----
Client sampling date / time						20-Jun-2025 10:32	20-Jun-2025 15:31	20-Jun-2025 16:02	20-Jun-2025 15:51	21-Jun-2025 08:49
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2506644-006	TY2506644-007	TY2506644-008	TY2506644-009	TY2506644-010
						Result	Result	Result	Result	Result
Dissolved Metals										
Vanadium, dissolved	7440-62-2	E421/TY	0.00050	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Zinc, dissolved	7440-66-6	E421/TY	0.0010	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	0.0019
Zirconium, dissolved	7440-67-7	E421/TY	0.00030	mg/L		<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Dissolved MeHg filtration location	----	EP537/VA	-	-		Field	Field	Field	Field	Field
Dissolved mercury filtration location	----	EP509/WP	-	-		Field	Field	Field	Field	Field
Dissolved metals filtration location	----	EP421/TY	-	-		Field	Field	Field	Field	Field
Speciated Metals										
Methylmercury (as MeHg), total	22967-92-6	E536/VA	0.000020	µg/L		0.000047	0.000042	0.000039	0.000054	0.000076
Methylmercury (as MeHg), dissolved	22967-92-6	E537/VA	0.000020	µg/L		0.000033	0.000033	0.000032	0.000034	0.000080
Aggregate Organics										
Biochemical oxygen demand [BOD]	----	E550/TY	2.0	mg/L		<2.0 ^{BODF}	<2.0 ^{BODF}	<2.0 ^{BODF}	<2.0 ^{BODF}	<2.0
Plant Pigments										
Chlorophyll a	479-61-8	E870/WP	0.010	µg/L		13.4	14.2	----	----	----
Radiological Parameters										
Radium-226	13982-63-3	Ra-226/2I	0.005	Bq/L		0.006	<0.005	<0.005	<0.005	<0.005

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



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG306 FW GLS-B-B ----	25ONG306 FW DUP2 ----	25ONG306 FW Travel Blank ----	25ONG306 FW DUP5 ----	25ONG306 FW DUP4 ----
Client sampling date / time						21-Jun-2025 11:21	21-Jun-2025 08:30	21-Jun-2025 00:00	21-Jun-2025 08:49	21-Jun-2025 11:21
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2506644-011	TY2506644-012	TY2506644-013	TY2506644-014	TY2506644-015
						Result	Result	Result	Result	Result
Field Tests										
pH, field	----	EF001/TY	0.01	pH units		11.25	9.79	----	10.73	11.25
Temperature, field	----	EF001/TY	0.01	°C		19.7	20.3	----	18.3	19.7
Sample Preparation										
Dissolved carbon filtration location	----	EP358/WT	-	-		field	field	lab	field	field
Physical Tests										
Acidity (as CaCO ₃)	----	E283/TY	2.0	mg/L		<2.0	2.4	<2.0	2.9	<2.0
Hardness (as CaCO ₃), dissolved	----	EC100/TY	0.50	mg/L		69.6	71.7	<0.50	70.5	70.5
Solids, total dissolved [TDS]	----	E162/TY	10	mg/L		142	93	<10	144	138
Solids, total suspended [TSS]	----	E160/TY	3.0	mg/L		<3.0	<3.0	<3.0	<3.0	<3.0
Alkalinity, total (as CaCO ₃)	----	E290/TY	2.0	mg/L		67.3	65.4	<2.0	64.0	66.9
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/TY	0.0050	mg/L		0.0559	0.0229	0.0094	0.0248	0.0597
Ammonia, un-ionized (as N), field	7664-41-7	EC298A/TY	0.0010	mg/L		0.0551	0.0163	----	0.0235	0.0588
Chloride	16887-00-6	E235.Cl/TY	0.50	mg/L		5.26	3.39	<0.50	5.08	5.29
Cyanate	88402-73-7	E343/WT	0.20	mg/L		<0.20	<0.20	<0.20	<0.20	<0.20
Fluoride	16984-48-8	E235.F/TY	0.020	mg/L		0.059	0.071	<0.020	0.057	0.058
Kjeldahl nitrogen, total [TKN]	----	E318/TY	0.050	mg/L		0.390	0.319	<0.050	0.265	0.420
Nitrate (as N)	14797-55-8	E235.NO3/TY	0.020	mg/L		0.708	0.282	<0.020	1.38	0.722
Nitrite (as N)	14797-65-0	E235.NO2/TY	0.010	mg/L		0.012	<0.010	<0.010	<0.010	0.014
Nitrogen, total	7727-37-9	EC368/TY	0.050	mg/L		1.11	0.601	<0.055	1.64	1.16
Nitrogen, total organic	----	EC363/TY	0.050	mg/L		0.334	0.296	<0.051	0.240	0.360



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					25ONG306 FW GLS-B-B ----	25ONG306 FW DUP2 ----	25ONG306 FW Travel Blank ----	25ONG306 FW DUP5 ----	25ONG306 FW DUP4 ----
Client sampling date / time					21-Jun-2025 11:21	21-Jun-2025 08:30	21-Jun-2025 00:00	21-Jun-2025 08:49	21-Jun-2025 11:21
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2506644-011	TY2506644-012	TY2506644-013	TY2506644-014	TY2506644-015
					Result	Result	Result	Result	Result
Anions and Nutrients									
Phosphorus, total	7723-14-0	E372-U/TY	0.0020	mg/L	0.0080	0.0091	<0.0020	0.0049	0.0084
Sulfate (as SO4)	14808-79-8	E235.SO4/TY	0.30	mg/L	33.8	12.9	<0.30	32.7	34.2
Cyanides									
Cyanide, free	----	E339/WT	0.0020	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cyanide, strong acid dissociable (Total)	----	E333/WT	0.0020	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	0.0025
Cyanide, weak acid dissociable	----	E336/WT	0.0020	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Thiocyanate	302-04-5	E344/VA	0.50	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Organic / Inorganic Carbon									
Carbon, dissolved organic [DOC]	----	E358-L/WT	0.50	mg/L	8.23	7.13	<0.50	6.53	8.28
Total Metals									
Arsenic, total	7440-38-2	E420/TY	0.00010	mg/L	0.00089	0.00065	<0.00010	0.00076	0.00088
Cadmium, total	7440-43-9	E420/TY	0.0000050	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Chromium, total	7440-47-3	E420/TY	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt, total	7440-48-4	E420/TY	0.00010	mg/L	0.00161	<0.00010	<0.00010	0.00153	0.00157
Copper, total	7440-50-8	E420/TY	0.00050	mg/L	0.00124	0.00075	<0.00050	0.00114	0.00122
Iron, total	7439-89-6	E420/TY	0.010	mg/L	0.031	0.015	<0.010	0.027	0.032
Lead, total	7439-92-1	E420/TY	0.000050	mg/L	0.000070	<0.000050	<0.000050	0.000570	0.000071
Manganese, total	7439-96-5	E420/TY	0.00010	mg/L	0.0157	0.0465	<0.00010	0.0133	0.0153
Mercury, total	7439-97-6	E508/WP	0.0000050	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Molybdenum, total	7439-98-7	E420/TY	0.000050	mg/L	0.00145	0.000453	<0.000050	0.00121	0.00133
Nickel, total	7440-02-0	E420/TY	0.00050	mg/L	0.00069	<0.00050	<0.00050	0.00068	0.00098



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG306 FW GLS-B-B ----	25ONG306 FW DUP2 ----	25ONG306 FW Travel Blank ----	25ONG306 FW DUP5 ----	25ONG306 FW DUP4 ----
Client sampling date / time						21-Jun-2025 11:21	21-Jun-2025 08:30	21-Jun-2025 00:00	21-Jun-2025 08:49	21-Jun-2025 11:21
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2506644-011	TY2506644-012	TY2506644-013	TY2506644-014	TY2506644-015
						Result	Result	Result	Result	Result
Total Metals										
Selenium, total	7782-49-2	E420/TY	0.000050	mg/L		0.000097	0.000088	<0.000050	0.000066	0.000106
Thallium, total	7440-28-0	E420/TY	0.000010	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Uranium, total	7440-61-1	E420/TY	0.000010	mg/L		0.000130	0.000198	<0.000010	0.000116	0.000122
Zinc, total	7440-66-6	E420/TY	0.0030	mg/L		<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Dissolved Metals										
Aluminum, dissolved	7429-90-5	E421/TY	0.0010	mg/L		0.0158	0.0102	<0.0010	0.0077	0.0161
Antimony, dissolved	7440-36-0	E421/TY	0.00010	mg/L		0.00026	<0.00010	<0.00010	0.00025	0.00026
Arsenic, dissolved	7440-38-2	E421/TY	0.00010	mg/L		0.00080	0.00063	<0.00010	0.00072	0.00078
Barium, dissolved	7440-39-3	E421/TY	0.00010	mg/L		0.0141	0.0129	<0.00010	0.0159	0.0142
Beryllium, dissolved	7440-41-7	E421/TY	0.000020	mg/L		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Bismuth, dissolved	7440-69-9	E421/TY	0.000050	mg/L		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Boron, dissolved	7440-42-8	E421/TY	0.010	mg/L		0.015	<0.010	<0.010	0.013	0.015
Cadmium, dissolved	7440-43-9	E421/TY	0.0000050	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Calcium, dissolved	7440-70-2	E421/TY	0.050	mg/L		23.0	24.0	<0.050	23.3	23.3
Cesium, dissolved	7440-46-2	E421/TY	0.000010	mg/L		0.000026	0.000051	<0.000010	0.000023	0.000026
Chromium, dissolved	7440-47-3	E421/TY	0.00050	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt, dissolved	7440-48-4	E421/TY	0.00010	mg/L		0.00149	<0.00010	<0.00010	0.00142	0.00145
Copper, dissolved	7440-50-8	E421/TY	0.00020	mg/L		0.00121	0.00065	<0.00020	0.00122	0.00122
Iron, dissolved	7439-89-6	E421/TY	0.010	mg/L		0.018	<0.010	<0.010	0.013	0.019
Lead, dissolved	7439-92-1	E421/TY	0.000050	mg/L		<0.000050	<0.000050	<0.000050	0.000127	<0.000050
Lithium, dissolved	7439-93-2	E421/TY	0.0010	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010



Analytical Results

Sub-Matrix: Water
(Matrix: Water)

					Client sample ID	25ONG306 FW GLS-B-B ----	25ONG306 FW DUP2 ----	25ONG306 FW Travel Blank ----	25ONG306 FW DUP5 ----	25ONG306 FW DUP4 ----
Client sampling date / time						21-Jun-2025 11:21	21-Jun-2025 08:30	21-Jun-2025 00:00	21-Jun-2025 08:49	21-Jun-2025 11:21
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2506644-011	TY2506644-012	TY2506644-013	TY2506644-014	TY2506644-015
						Result	Result	Result	Result	Result
Dissolved Metals										
Magnesium, dissolved	7439-95-4	E421/TY	0.0050	mg/L		2.96	2.85	<0.0050	3.00	3.00
Manganese, dissolved	7439-96-5	E421/TY	0.00010	mg/L		0.00768	0.00113	<0.00010	0.00640	0.00771
Mercury, dissolved	7439-97-6	E509/WP	0.0000050	mg/L		<0.0000050	<0.0000050	----	<0.0000050	<0.0000050
Molybdenum, dissolved	7439-98-7	E421/TY	0.000050	mg/L		0.00128	0.000461	<0.000050	0.00122	0.00132
Nickel, dissolved	7440-02-0	E421/TY	0.00050	mg/L		0.00062	<0.00050	<0.00050	0.00064	0.00066
Phosphorus, dissolved	7723-14-0	E421/TY	0.050	mg/L		<0.050	<0.050	<0.050	<0.050	<0.050
Potassium, dissolved	7440-09-7	E421/TY	0.050	mg/L		3.28	1.53	<0.050	3.14	3.34
Rubidium, dissolved	7440-17-7	E421/TY	0.00020	mg/L		0.00260	0.00289	<0.00020	0.00246	0.00258
Selenium, dissolved	7782-49-2	E421/TY	0.000050	mg/L		0.000101	0.000052	<0.000050	0.000053	0.000087
Silicon, dissolved	7440-21-3	E421/TY	0.050	mg/L		1.33	2.05	<0.050	1.70	1.27
Silver, dissolved	7440-22-4	E421/TY	0.000010	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Sodium, dissolved	7440-23-5	E421/TY	0.050	mg/L		14.4	2.94	<0.050	13.2	14.1
Strontium, dissolved	7440-24-6	E421/TY	0.00020	mg/L		0.0500	0.181	<0.00020	0.0487	0.0513
Sulfur, dissolved	7704-34-9	E421/TY	0.50	mg/L		12.1	4.45	<0.50	11.2	12.0
Tellurium, dissolved	13494-80-9	E421/TY	0.00020	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Thallium, dissolved	7440-28-0	E421/TY	0.000010	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Thorium, dissolved	7440-29-1	E421/TY	0.00010	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Tin, dissolved	7440-31-5	E421/TY	0.00010	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Titanium, dissolved	7440-32-6	E421/TY	0.00030	mg/L		<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Tungsten, dissolved	7440-33-7	E421/TY	0.00010	mg/L		0.00567	<0.00010	<0.00010	0.00422	0.00596
Uranium, dissolved	7440-61-1	E421/TY	0.000010	mg/L		0.000121	0.000184	<0.000010	0.000115	0.000124



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG306 FW GLS-B-B ----	25ONG306 FW DUP2 ----	25ONG306 FW Travel Blank ----	25ONG306 FW DUP5 ----	25ONG306 FW DUP4 ----
Client sampling date / time						21-Jun-2025 11:21	21-Jun-2025 08:30	21-Jun-2025 00:00	21-Jun-2025 08:49	21-Jun-2025 11:21
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2506644-011	TY2506644-012	TY2506644-013	TY2506644-014	TY2506644-015
						Result	Result	Result	Result	Result
Dissolved Metals										
Vanadium, dissolved	7440-62-2	E421/TY	0.00050	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Zinc, dissolved	7440-66-6	E421/TY	0.0010	mg/L		<0.0010	<0.0010	<0.0010	0.0021	<0.0010
Zirconium, dissolved	7440-67-7	E421/TY	0.00030	mg/L		<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Dissolved MeHg filtration location	----	EP537/VA	-	-		Field	Field	----	Field	Field
Dissolved mercury filtration location	----	EP509/WP	-	-		Field	Field	NR	Field	Field
Dissolved metals filtration location	----	EP421/TY	-	-		Field	Field	Field	Field	Field
Speciated Metals										
Methylmercury (as MeHg), total	22967-92-6	E536/VA	0.000020	µg/L		0.000156	0.000089	<0.000020	0.000079	0.000157
Methylmercury (as MeHg), dissolved	22967-92-6	E537/VA	0.000020	µg/L		0.000152	0.000069	----	0.000076	0.000145
Aggregate Organics										
Biochemical oxygen demand [BOD]	----	E550/TY	2.0	mg/L		<2.0	<2.0	<2.0	<2.0	<2.0
Plant Pigments										
Chlorophyll a	479-61-8	E870/WP	0.010	µg/L		----	14.2	----	----	----
Radiological Parameters										
Radium-226	13982-63-3	Ra-226/2I	0.005	Bq/L		<0.005	<0.005	0.005	<0.005	<0.005

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



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					25ONG306 FW ML -B-T	----	----	----	----
Client sampling date / time					22-Jun-2025 10:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2506644-016	----	----	----	----
Result					----	----	----	----	----
Field Tests									
pH, field	----	EF001/TY	0.01	pH units	6.36	----	----	----	----
Temperature, field	----	EF001/TY	0.01	°C	5.10	----	----	----	----
Sample Preparation									
Dissolved carbon filtration location	----	EP358/WT	-	-	field	----	----	----	----
Physical Tests									
Acidity (as CaCO ₃)	----	E283/TY	2.0	mg/L	2.1	----	----	----	----
Hardness (as CaCO ₃), dissolved	----	EC100/TY	0.50	mg/L	21.7	----	----	----	----
Solids, total dissolved [TDS]	----	E162/TY	10	mg/L	33	----	----	----	----
Solids, total suspended [TSS]	----	E160/TY	3.0	mg/L	5.4	----	----	----	----
Alkalinity, total (as CaCO ₃)	----	E290/TY	2.0	mg/L	22.9	----	----	----	----
Anions and Nutrients									
Ammonia, total (as N)	7664-41-7	E298/TY	0.0050	mg/L	<0.0050	----	----	----	----
Ammonia, un-ionized (as N), field	7664-41-7	EC298A/TY	0.0010	mg/L	<0.0010	----	----	----	----
Chloride	16887-00-6	E235.Cl/TY	0.50	mg/L	0.85	----	----	----	----
Cyanate	88402-73-7	E343/WT	0.20	mg/L	<0.20	----	----	----	----
Fluoride	16984-48-8	E235.F/TY	0.020	mg/L	0.133	----	----	----	----
Kjeldahl nitrogen, total [TKN]	----	E318/TY	0.050	mg/L	0.174	----	----	----	----
Nitrate (as N)	14797-55-8	E235.NO3/TY	0.020	mg/L	0.028	----	----	----	----
Nitrite (as N)	14797-65-0	E235.NO2/TY	0.010	mg/L	0.011	----	----	----	----
Nitrogen, total	7727-37-9	EC368/TY	0.050	mg/L	0.213	----	----	----	----
Nitrogen, total organic	----	EC363/TY	0.050	mg/L	0.174	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					25ONG306 FW ML -B-T ----	----	----	----	----
Client sampling date / time					22-Jun-2025 10:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2506644-016	----	----	----	----
					Result	----	----	----	----
Anions and Nutrients									
Phosphorus, total	7723-14-0	E372-U/TY	0.0020	mg/L	0.0059	----	----	----	----
Sulfate (as SO4)	14808-79-8	E235.SO4/TY	0.30	mg/L	3.57	----	----	----	----
Cyanides									
Cyanide, free	----	E339/WT	0.0020	mg/L	<0.0020	----	----	----	----
Cyanide, strong acid dissociable (Total)	----	E333/WT	0.0020	mg/L	<0.0020	----	----	----	----
Cyanide, weak acid dissociable	----	E336/WT	0.0020	mg/L	<0.0020	----	----	----	----
Thiocyanate	302-04-5	E344/VA	0.50	mg/L	<0.50	----	----	----	----
Organic / Inorganic Carbon									
Carbon, dissolved organic [DOC]	----	E358-L/WT	0.50	mg/L	4.86	----	----	----	----
Total Metals									
Arsenic, total	7440-38-2	E420/TY	0.00010	mg/L	0.00049	----	----	----	----
Cadmium, total	7440-43-9	E420/TY	0.0000050	mg/L	<0.0000050	----	----	----	----
Chromium, total	7440-47-3	E420/TY	0.00050	mg/L	<0.00050	----	----	----	----
Cobalt, total	7440-48-4	E420/TY	0.00010	mg/L	<0.00010	----	----	----	----
Copper, total	7440-50-8	E420/TY	0.00050	mg/L	<0.00050	----	----	----	----
Iron, total	7439-89-6	E420/TY	0.010	mg/L	0.038	----	----	----	----
Lead, total	7439-92-1	E420/TY	0.000050	mg/L	<0.000050	----	----	----	----
Manganese, total	7439-96-5	E420/TY	0.00010	mg/L	0.0104	----	----	----	----
Mercury, total	7439-97-6	E508/WP	0.0000050	mg/L	<0.0000050	----	----	----	----
Molybdenum, total	7439-98-7	E420/TY	0.000050	mg/L	0.000109	----	----	----	----
Nickel, total	7440-02-0	E420/TY	0.00050	mg/L	<0.00050	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					25ONG306 FW ML -B-T ----	----	----	----	----
Client sampling date / time					22-Jun-2025 10:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2506644-016	----	----	----	----
					Result	----	----	----	----
Total Metals									
Selenium, total	7782-49-2	E420/TY	0.000050	mg/L	<0.000050	----	----	----	----
Thallium, total	7440-28-0	E420/TY	0.000010	mg/L	<0.000010	----	----	----	----
Uranium, total	7440-61-1	E420/TY	0.000010	mg/L	0.000107	----	----	----	----
Zinc, total	7440-66-6	E420/TY	0.0030	mg/L	<0.0030	----	----	----	----
Dissolved Metals									
Aluminum, dissolved	7429-90-5	E421/TY	0.0010	mg/L	0.0115	----	----	----	----
Antimony, dissolved	7440-36-0	E421/TY	0.00010	mg/L	<0.00010	----	----	----	----
Arsenic, dissolved	7440-38-2	E421/TY	0.00010	mg/L	0.00043	----	----	----	----
Barium, dissolved	7440-39-3	E421/TY	0.00010	mg/L	0.0104	----	----	----	----
Beryllium, dissolved	7440-41-7	E421/TY	0.000020	mg/L	<0.000020	----	----	----	----
Bismuth, dissolved	7440-69-9	E421/TY	0.000050	mg/L	<0.000050	----	----	----	----
Boron, dissolved	7440-42-8	E421/TY	0.010	mg/L	<0.010	----	----	----	----
Cadmium, dissolved	7440-43-9	E421/TY	0.0000050	mg/L	<0.0000050	----	----	----	----
Calcium, dissolved	7440-70-2	E421/TY	0.050	mg/L	7.39	----	----	----	----
Cesium, dissolved	7440-46-2	E421/TY	0.000010	mg/L	0.000052	----	----	----	----
Chromium, dissolved	7440-47-3	E421/TY	0.00050	mg/L	<0.00050	----	----	----	----
Cobalt, dissolved	7440-48-4	E421/TY	0.00010	mg/L	<0.00010	----	----	----	----
Copper, dissolved	7440-50-8	E421/TY	0.00020	mg/L	0.00027	----	----	----	----
Iron, dissolved	7439-89-6	E421/TY	0.010	mg/L	<0.010	----	----	----	----
Lead, dissolved	7439-92-1	E421/TY	0.000050	mg/L	<0.000050	----	----	----	----
Lithium, dissolved	7439-93-2	E421/TY	0.0010	mg/L	<0.0010	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					25ONG306 FW ML -B-T	----	----	----	----
Client sampling date / time					22-Jun-2025 10:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2506644-016	----	----	----	----
					Result	----	----	----	----
Dissolved Metals									
Magnesium, dissolved	7439-95-4	E421/TY	0.0050	mg/L	0.798	----	----	----	----
Manganese, dissolved	7439-96-5	E421/TY	0.00010	mg/L	0.00107	----	----	----	----
Mercury, dissolved	7439-97-6	E509/WP	0.0000050	mg/L	<0.0000050	----	----	----	----
Molybdenum, dissolved	7439-98-7	E421/TY	0.000050	mg/L	0.000101	----	----	----	----
Nickel, dissolved	7440-02-0	E421/TY	0.00050	mg/L	<0.00050	----	----	----	----
Phosphorus, dissolved	7723-14-0	E421/TY	0.050	mg/L	<0.050	----	----	----	----
Potassium, dissolved	7440-09-7	E421/TY	0.050	mg/L	0.478	----	----	----	----
Rubidium, dissolved	7440-17-7	E421/TY	0.00020	mg/L	0.00165	----	----	----	----
Selenium, dissolved	7782-49-2	E421/TY	0.000050	mg/L	<0.000050	----	----	----	----
Silicon, dissolved	7440-21-3	E421/TY	0.050	mg/L	0.879	----	----	----	----
Silver, dissolved	7440-22-4	E421/TY	0.000010	mg/L	<0.000010	----	----	----	----
Sodium, dissolved	7440-23-5	E421/TY	0.050	mg/L	0.824	----	----	----	----
Strontium, dissolved	7440-24-6	E421/TY	0.00020	mg/L	0.107	----	----	----	----
Sulfur, dissolved	7704-34-9	E421/TY	0.50	mg/L	0.81	----	----	----	----
Tellurium, dissolved	13494-80-9	E421/TY	0.00020	mg/L	<0.00020	----	----	----	----
Thallium, dissolved	7440-28-0	E421/TY	0.000010	mg/L	<0.000010	----	----	----	----
Thorium, dissolved	7440-29-1	E421/TY	0.00010	mg/L	<0.00010	----	----	----	----
Tin, dissolved	7440-31-5	E421/TY	0.00010	mg/L	<0.00010	----	----	----	----
Titanium, dissolved	7440-32-6	E421/TY	0.00030	mg/L	<0.00030	----	----	----	----
Tungsten, dissolved	7440-33-7	E421/TY	0.00010	mg/L	<0.00010	----	----	----	----
Uranium, dissolved	7440-61-1	E421/TY	0.000010	mg/L	0.000086	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					25ONG306 FW ML -B-T	----	----	----	----
Client sampling date / time					22-Jun-2025 10:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2506644-016	----	----	----	----
					Result	----	----	----	----
Dissolved Metals									
Vanadium, dissolved	7440-62-2	E421/TY	0.00050	mg/L	<0.00050	----	----	----	----
Zinc, dissolved	7440-66-6	E421/TY	0.0010	mg/L	0.0029	----	----	----	----
Zirconium, dissolved	7440-67-7	E421/TY	0.00030	mg/L	<0.00030	----	----	----	----
Dissolved MeHg filtration location	----	EP537/VA	-	-	Field	----	----	----	----
Dissolved mercury filtration location	----	EP509/WP	-	-	Field	----	----	----	----
Dissolved metals filtration location	----	EP421/TY	-	-	Field	----	----	----	----
Speciated Metals									
Methylmercury (as MeHg), total	22967-92-6	E536/VA	0.000020	µg/L	0.000055	----	----	----	----
Methylmercury (as MeHg), dissolved	22967-92-6	E537/VA	0.000020	µg/L	0.000025	----	----	----	----
Aggregate Organics									
Biochemical oxygen demand [BOD]	----	E550/TY	2.0	mg/L	<2.0	----	----	----	----
Radiological Parameters									
Radium-226	13982-63-3	Ra-226/2l	0.005	Bq/L	<0.005	----	----	----	----

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

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: TY2506644	Page	: 1 of 60
Client	: G3 Consulting Ltd.	Laboratory	: ALS Environmental - Thunder Bay
Contact	: Greg Thomas	Account Manager	: Colby Coutu
Address	: 206-8501 162nd St. Surrey BC Canada V4N 1B2	Address	: 1081 Barton Street Thunder Bay, Ontario Canada P7B 5N3
Telephone	: 604 598 8501	Telephone	: +1 807 623 6463
Project	: 2502	Date Samples Received	: 23-Jun-2025 11:54
PO	: 1269	Issue Date	: 16-Nov-2025 23:03
C-O-C number	: ----		
Sampler	: ----		
Site	: ----		
Quote number	: Dubreuilville Project		
No. of samples received	: 16		
No. of samples analysed	: 16		

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 Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- Method Blank value outliers occur - please see following pages for full details.
- Matrix Spike outliers occur - please see following pages for full details.
- 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

- Quality Control Sample Frequency Outliers occur - please see following pages for full details.



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Water**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Method Blank (MB) Values								
Speciated Metals	QC-2086068-001	----	Methylmercury (as MeHg), total	22967-92-6	E536	0.000035 ^B µg/L	0.00002 µg/L	Blank result exceeds permitted value

Result Qualifiers

Qualifier Description

B Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.

Matrix Spike (MS) Recoveries

Anions and Nutrients	Anonymous	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2	132 % ^K	75.0-125%	Recovery greater than upper data quality objective

Result Qualifiers

Qualifier Description

K Matrix Spike recovery outside ALS DQO due to sample matrix effects.



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		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT-4d] 25ONG306 FW ML-B-T	E550	22-Jun-2025	----	----	----		25-Jun-2025	4 days	3 days	✔
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT-4d] 25ONG306 FW DUP2	E550	21-Jun-2025	----	----	----		25-Jun-2025	4 days	4 days	✔
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT-4d] 25ONG306 FW DUP4	E550	21-Jun-2025	----	----	----		25-Jun-2025	4 days	4 days	✔
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT-4d] 25ONG306 FW DUP5	E550	21-Jun-2025	----	----	----		25-Jun-2025	4 days	4 days	✔
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT-4d] 25ONG306 FW GL-B-B	E550	21-Jun-2025	----	----	----		25-Jun-2025	4 days	4 days	✔
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT-4d] 25ONG306 FW GLS-B-B	E550	21-Jun-2025	----	----	----		25-Jun-2025	4 days	4 days	✔
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT-4d] 25ONG306 FW OL-B	E550	21-Jun-2025	----	----	----		25-Jun-2025	4 days	4 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	
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT-4d] 25ONG306 FW OL-F	E550	21-Jun-2025	----	----	----		25-Jun-2025	4 days	4 days	✓
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT-4d] 25ONG306 FW HL-250-09-B	E550	20-Jun-2025	----	----	----		25-Jun-2025	4 days	5 days	✖ EHT
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT-4d] 25ONG306 FW HL-250-09-T	E550	20-Jun-2025	----	----	----		25-Jun-2025	4 days	5 days	✖ EHT
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT-4d] 25ONG306 FW HL-B-IN-M	E550	20-Jun-2025	----	----	----		25-Jun-2025	4 days	5 days	✖ EHT
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT-4d] 25ONG306 FW HL-B-T	E550	20-Jun-2025	----	----	----		25-Jun-2025	4 days	5 days	✖ EHT
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT-4d] 25ONG306 FW HL-REF-T	E550	20-Jun-2025	----	----	----		25-Jun-2025	4 days	5 days	✖ EHT
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT-4d] 25ONG306 FW OL-100	E550	20-Jun-2025	----	----	----		25-Jun-2025	4 days	5 days	✖ EHT
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT-4d] 25ONG306 FW OL-250	E550	20-Jun-2025	----	----	----		25-Jun-2025	4 days	5 days	✖ EHT
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT-4d] 25ONG306 FW Travel Blank	E550	21-Jun-2025	----	----	----		25-Jun-2025	4 days	5 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			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) [ON MECP] 25ONG306 FW DUP2	E298	21-Jun-2025	24-Jun-2025	28 days	3 days	✓	25-Jun-2025	28 days	3 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW GL-B-B	E298	21-Jun-2025	24-Jun-2025	28 days	3 days	✓	25-Jun-2025	28 days	3 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW GLS-B-B	E298	21-Jun-2025	24-Jun-2025	28 days	3 days	✓	25-Jun-2025	28 days	3 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW ML-B-T	E298	22-Jun-2025	25-Jun-2025	28 days	3 days	✓	25-Jun-2025	28 days	3 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW OL-B	E298	21-Jun-2025	24-Jun-2025	28 days	3 days	✓	25-Jun-2025	28 days	3 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW OL-F	E298	21-Jun-2025	24-Jun-2025	28 days	3 days	✓	25-Jun-2025	28 days	3 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW DUP4	E298	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	25-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW DUP5	E298	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	25-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW HL-250-09-B	E298	20-Jun-2025	24-Jun-2025	28 days	4 days	✓	25-Jun-2025	28 days	4 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			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) [ON MECP] 25ONG306 FW HL-250-09-T	E298	20-Jun-2025	24-Jun-2025	28 days	4 days	✓	25-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW HL-B-IN-M	E298	20-Jun-2025	24-Jun-2025	28 days	4 days	✓	25-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW HL-B-T	E298	20-Jun-2025	24-Jun-2025	28 days	4 days	✓	25-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW HL-REF-T	E298	20-Jun-2025	24-Jun-2025	28 days	4 days	✓	25-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW OL-100	E298	20-Jun-2025	24-Jun-2025	28 days	4 days	✓	25-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW OL-250	E298	20-Jun-2025	24-Jun-2025	28 days	4 days	✓	25-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW Travel Blank	E298	21-Jun-2025	25-Jun-2025	28 days	5 days	✓	25-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] 25ONG306 FW ML-B-T	E235.Cl	22-Jun-2025	25-Jun-2025	28 days	3 days	✓	29-Jun-2025	28 days	3 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] 25ONG306 FW DUP2	E235.Cl	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	27-Jun-2025	28 days	4 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] 25ONG306 FW DUP4	E235.Cl	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	29-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] 25ONG306 FW DUP5	E235.Cl	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	29-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] 25ONG306 FW GL-B-B	E235.Cl	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	27-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] 25ONG306 FW GLS-B-B	E235.Cl	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	27-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] 25ONG306 FW OL-B	E235.Cl	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	27-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] 25ONG306 FW OL-F	E235.Cl	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	27-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] 25ONG306 FW HL-250-09-B	E235.Cl	20-Jun-2025	25-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] 25ONG306 FW HL-250-09-T	E235.Cl	20-Jun-2025	25-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] 25ONG306 FW HL-B-IN-M	E235.Cl	20-Jun-2025	25-Jun-2025	28 days	5 days	✓	27-Jun-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 [ON MECP] 25ONG306 FW HL-B-T	E235.Cl	20-Jun-2025	25-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] 25ONG306 FW HL-REF-T	E235.Cl	20-Jun-2025	25-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] 25ONG306 FW OL-100	E235.Cl	20-Jun-2025	25-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] 25ONG306 FW OL-250	E235.Cl	20-Jun-2025	25-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] 25ONG306 FW Travel Blank	E235.Cl	21-Jun-2025	25-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Cyanate by Ion Selective Electrode										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW ML-B-T	E343	22-Jun-2025	----	----	----		07-Jul-2025	14 days	15 days	✖ EHT
Anions and Nutrients : Cyanate by Ion Selective Electrode										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW DUP2	E343	21-Jun-2025	----	----	----		07-Jul-2025	14 days	16 days	✖ EHT
Anions and Nutrients : Cyanate by Ion Selective Electrode										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW DUP4	E343	21-Jun-2025	----	----	----		07-Jul-2025	14 days	16 days	✖ EHT
Anions and Nutrients : Cyanate by Ion Selective Electrode										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW DUP5	E343	21-Jun-2025	----	----	----		07-Jul-2025	14 days	16 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		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Cyanate by Ion Selective Electrode										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW GL-B-B	E343	21-Jun-2025	----	----	----		07-Jul-2025	14 days	16 days	✖ EHT
Anions and Nutrients : Cyanate by Ion Selective Electrode										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW GLS-B-B	E343	21-Jun-2025	----	----	----		07-Jul-2025	14 days	16 days	✖ EHT
Anions and Nutrients : Cyanate by Ion Selective Electrode										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW OL-B	E343	21-Jun-2025	----	----	----		07-Jul-2025	14 days	16 days	✖ EHT
Anions and Nutrients : Cyanate by Ion Selective Electrode										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW OL-F	E343	21-Jun-2025	----	----	----		07-Jul-2025	14 days	16 days	✖ EHT
Anions and Nutrients : Cyanate by Ion Selective Electrode										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW HL-250-09-B	E343	20-Jun-2025	----	----	----		07-Jul-2025	14 days	17 days	✖ EHT
Anions and Nutrients : Cyanate by Ion Selective Electrode										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW HL-250-09-T	E343	20-Jun-2025	----	----	----		07-Jul-2025	14 days	17 days	✖ EHT
Anions and Nutrients : Cyanate by Ion Selective Electrode										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW HL-B-IN-M	E343	20-Jun-2025	----	----	----		07-Jul-2025	14 days	17 days	✖ EHT
Anions and Nutrients : Cyanate by Ion Selective Electrode										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW HL-B-T	E343	20-Jun-2025	----	----	----		07-Jul-2025	14 days	17 days	✖ EHT
Anions and Nutrients : Cyanate by Ion Selective Electrode										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW HL-REF-T	E343	20-Jun-2025	----	----	----		07-Jul-2025	14 days	17 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		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Cyanate by Ion Selective Electrode										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW OL-100	E343	20-Jun-2025	----	----	----		07-Jul-2025	14 days	17 days	✖ EHT
Anions and Nutrients : Cyanate by Ion Selective Electrode										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW OL-250	E343	20-Jun-2025	----	----	----		07-Jul-2025	14 days	17 days	✖ EHT
Anions and Nutrients : Cyanate by Ion Selective Electrode										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW Travel Blank	E343	21-Jun-2025	----	----	----		07-Jul-2025	14 days	17 days	✖ EHT
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] 25ONG306 FW ML-B-T	E235.F	22-Jun-2025	25-Jun-2025	28 days	3 days	✓	29-Jun-2025	28 days	3 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] 25ONG306 FW DUP2	E235.F	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	27-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] 25ONG306 FW DUP4	E235.F	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	29-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] 25ONG306 FW DUP5	E235.F	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	29-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] 25ONG306 FW GL-B-B	E235.F	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	27-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] 25ONG306 FW GLS-B-B	E235.F	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	27-Jun-2025	28 days	4 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] 25ONG306 FW OL-B	E235.F	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	27-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] 25ONG306 FW OL-F	E235.F	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	27-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] 25ONG306 FW HL-250-09-B	E235.F	20-Jun-2025	25-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] 25ONG306 FW HL-250-09-T	E235.F	20-Jun-2025	25-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] 25ONG306 FW HL-B-IN-M	E235.F	20-Jun-2025	25-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] 25ONG306 FW HL-B-T	E235.F	20-Jun-2025	25-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] 25ONG306 FW HL-REF-T	E235.F	20-Jun-2025	25-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] 25ONG306 FW OL-100	E235.F	20-Jun-2025	25-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] 25ONG306 FW OL-250	E235.F	20-Jun-2025	25-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] 25ONG306 FW Travel Blank	E235.F	21-Jun-2025	25-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] 25ONG306 FW ML-B-T	E235.NO3	22-Jun-2025	25-Jun-2025	7 days	3 days	✓	29-Jun-2025	7 days	3 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] 25ONG306 FW DUP4	E235.NO3	21-Jun-2025	25-Jun-2025	7 days	4 days	✓	29-Jun-2025	7 days	4 days	✖ EHT
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] 25ONG306 FW DUP5	E235.NO3	21-Jun-2025	25-Jun-2025	7 days	4 days	✓	29-Jun-2025	7 days	4 days	✖ EHT
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] 25ONG306 FW DUP2	E235.NO3	21-Jun-2025	25-Jun-2025	7 days	4 days	✓	27-Jun-2025	7 days	4 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] 25ONG306 FW GL-B-B	E235.NO3	21-Jun-2025	25-Jun-2025	7 days	4 days	✓	27-Jun-2025	7 days	4 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] 25ONG306 FW GLS-B-B	E235.NO3	21-Jun-2025	25-Jun-2025	7 days	4 days	✓	27-Jun-2025	7 days	4 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] 25ONG306 FW OL-B	E235.NO3	21-Jun-2025	25-Jun-2025	7 days	4 days	✓	27-Jun-2025	7 days	4 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] 25ONG306 FW OL-F	E235.NO3	21-Jun-2025	25-Jun-2025	7 days	4 days	✓	27-Jun-2025	7 days	4 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] 25ONG306 FW HL-250-09-B	E235.NO3	20-Jun-2025	25-Jun-2025	7 days	5 days	✓	27-Jun-2025	7 days	5 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] 25ONG306 FW HL-250-09-T	E235.NO3	20-Jun-2025	25-Jun-2025	7 days	5 days	✓	27-Jun-2025	7 days	5 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] 25ONG306 FW HL-B-IN-M	E235.NO3	20-Jun-2025	25-Jun-2025	7 days	5 days	✓	27-Jun-2025	7 days	5 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] 25ONG306 FW HL-B-T	E235.NO3	20-Jun-2025	25-Jun-2025	7 days	5 days	✓	27-Jun-2025	7 days	5 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] 25ONG306 FW HL-REF-T	E235.NO3	20-Jun-2025	25-Jun-2025	7 days	5 days	✓	27-Jun-2025	7 days	5 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] 25ONG306 FW OL-100	E235.NO3	20-Jun-2025	25-Jun-2025	7 days	5 days	✓	27-Jun-2025	7 days	5 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] 25ONG306 FW OL-250	E235.NO3	20-Jun-2025	25-Jun-2025	7 days	5 days	✓	27-Jun-2025	7 days	5 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] 25ONG306 FW Travel Blank	E235.NO3	21-Jun-2025	25-Jun-2025	7 days	5 days	✓	27-Jun-2025	7 days	5 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] 25ONG306 FW ML-B-T	E235.NO2	22-Jun-2025	25-Jun-2025	7 days	3 days	✓	29-Jun-2025	7 days	3 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 : Nitrite in Water by IC										
HDPE [ON MECP] 25ONG306 FW DUP4	E235.NO2	21-Jun-2025	25-Jun-2025	7 days	4 days	✓	29-Jun-2025	7 days	4 days	✖ EHT
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] 25ONG306 FW DUP5	E235.NO2	21-Jun-2025	25-Jun-2025	7 days	4 days	✓	29-Jun-2025	7 days	4 days	✖ EHT
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] 25ONG306 FW DUP2	E235.NO2	21-Jun-2025	25-Jun-2025	7 days	4 days	✓	27-Jun-2025	7 days	4 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] 25ONG306 FW GL-B-B	E235.NO2	21-Jun-2025	25-Jun-2025	7 days	4 days	✓	27-Jun-2025	7 days	4 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] 25ONG306 FW GLS-B-B	E235.NO2	21-Jun-2025	25-Jun-2025	7 days	4 days	✓	27-Jun-2025	7 days	4 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] 25ONG306 FW OL-B	E235.NO2	21-Jun-2025	25-Jun-2025	7 days	4 days	✓	27-Jun-2025	7 days	4 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] 25ONG306 FW OL-F	E235.NO2	21-Jun-2025	25-Jun-2025	7 days	4 days	✓	27-Jun-2025	7 days	4 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] 25ONG306 FW HL-250-09-B	E235.NO2	20-Jun-2025	25-Jun-2025	7 days	5 days	✓	27-Jun-2025	7 days	5 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] 25ONG306 FW HL-250-09-T	E235.NO2	20-Jun-2025	25-Jun-2025	7 days	5 days	✓	27-Jun-2025	7 days	5 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] 25ONG306 FW HL-B-IN-M	E235.NO2	20-Jun-2025	25-Jun-2025	7 days	5 days	✓	27-Jun-2025	7 days	5 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] 25ONG306 FW HL-B-T	E235.NO2	20-Jun-2025	25-Jun-2025	7 days	5 days	✓	27-Jun-2025	7 days	5 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] 25ONG306 FW HL-REF-T	E235.NO2	20-Jun-2025	25-Jun-2025	7 days	5 days	✓	27-Jun-2025	7 days	5 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] 25ONG306 FW OL-100	E235.NO2	20-Jun-2025	25-Jun-2025	7 days	5 days	✓	27-Jun-2025	7 days	5 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] 25ONG306 FW OL-250	E235.NO2	20-Jun-2025	25-Jun-2025	7 days	5 days	✓	27-Jun-2025	7 days	5 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] 25ONG306 FW Travel Blank	E235.NO2	21-Jun-2025	25-Jun-2025	7 days	5 days	✓	27-Jun-2025	7 days	5 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] 25ONG306 FW ML-B-T	E235.SO4	22-Jun-2025	25-Jun-2025	28 days	3 days	✓	29-Jun-2025	28 days	3 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] 25ONG306 FW DUP2	E235.SO4	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	27-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] 25ONG306 FW DUP4	E235.SO4	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	29-Jun-2025	28 days	4 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 [ON MECP] 25ONG306 FW DUP5	E235.SO4	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	29-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] 25ONG306 FW GL-B-B	E235.SO4	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	27-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] 25ONG306 FW GLS-B-B	E235.SO4	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	27-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] 25ONG306 FW OL-B	E235.SO4	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	27-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] 25ONG306 FW OL-F	E235.SO4	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	27-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] 25ONG306 FW HL-250-09-B	E235.SO4	20-Jun-2025	25-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] 25ONG306 FW HL-250-09-T	E235.SO4	20-Jun-2025	25-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] 25ONG306 FW HL-B-IN-M	E235.SO4	20-Jun-2025	25-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] 25ONG306 FW HL-B-T	E235.SO4	20-Jun-2025	25-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] 25ONG306 FW HL-REF-T	E235.SO4	20-Jun-2025	25-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] 25ONG306 FW OL-100	E235.SO4	20-Jun-2025	25-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] 25ONG306 FW OL-250	E235.SO4	20-Jun-2025	25-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] 25ONG306 FW Travel Blank	E235.SO4	21-Jun-2025	25-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW ML-B-T	E318	22-Jun-2025	26-Jun-2025	28 days	4 days	✓	26-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW OL-B	E318	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	26-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW OL-F	E318	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	26-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW DUP2	E318	21-Jun-2025	26-Jun-2025	28 days	5 days	✓	26-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW DUP4	E318	21-Jun-2025	26-Jun-2025	28 days	5 days	✓	26-Jun-2025	28 days	5 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW DUP5	E318	21-Jun-2025	26-Jun-2025	28 days	5 days	✓	26-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW GL-B-B	E318	21-Jun-2025	26-Jun-2025	28 days	5 days	✓	26-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW GLS-B-B	E318	21-Jun-2025	26-Jun-2025	28 days	5 days	✓	26-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW HL-250-09-B	E318	20-Jun-2025	25-Jun-2025	28 days	5 days	✓	26-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW HL-250-09-T	E318	20-Jun-2025	25-Jun-2025	28 days	5 days	✓	26-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW HL-B-IN-M	E318	20-Jun-2025	25-Jun-2025	28 days	5 days	✓	26-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW HL-B-T	E318	20-Jun-2025	25-Jun-2025	28 days	5 days	✓	26-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW HL-REF-T	E318	20-Jun-2025	25-Jun-2025	28 days	5 days	✓	26-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW OL-100	E318	20-Jun-2025	25-Jun-2025	28 days	5 days	✓	26-Jun-2025	28 days	5 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW OL-250	E318	20-Jun-2025	25-Jun-2025	28 days	5 days	✓	26-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW Travel Blank	E318	21-Jun-2025	26-Jun-2025	28 days	5 days	✓	26-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW ML-B-T	E372-U	22-Jun-2025	25-Jun-2025	28 days	3 days	✓	26-Jun-2025	28 days	3 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW OL-B	E372-U	21-Jun-2025	24-Jun-2025	28 days	3 days	✓	26-Jun-2025	28 days	3 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW OL-F	E372-U	21-Jun-2025	24-Jun-2025	28 days	3 days	✓	26-Jun-2025	28 days	3 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW DUP2	E372-U	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	26-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW DUP4	E372-U	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	26-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW DUP5	E372-U	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	26-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW GL-B-B	E372-U	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	26-Jun-2025	28 days	4 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			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) [ON MECP] 25ONG306 FW GLS-B-B	E372-U	21-Jun-2025	25-Jun-2025	28 days	4 days	✓	26-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW HL-250-09-T	E372-U	20-Jun-2025	24-Jun-2025	28 days	4 days	✓	26-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW HL-B-IN-M	E372-U	20-Jun-2025	24-Jun-2025	28 days	4 days	✓	26-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW HL-B-T	E372-U	20-Jun-2025	24-Jun-2025	28 days	4 days	✓	26-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW HL-REF-T	E372-U	20-Jun-2025	24-Jun-2025	28 days	4 days	✓	26-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW OL-100	E372-U	20-Jun-2025	24-Jun-2025	28 days	4 days	✓	26-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW OL-250	E372-U	20-Jun-2025	24-Jun-2025	28 days	4 days	✓	26-Jun-2025	28 days	4 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW HL-250-09-B	E372-U	20-Jun-2025	25-Jun-2025	28 days	5 days	✓	26-Jun-2025	28 days	5 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG306 FW Travel Blank	E372-U	21-Jun-2025	25-Jun-2025	28 days	5 days	✓	26-Jun-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	
Cyanides : Free Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW DUP2	E339	21-Jun-2025	25-Jun-2025	14 days	4 days	✓	25-Jun-2025	14 days	4 days	✓
Cyanides : Free Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW GL-B-B	E339	21-Jun-2025	25-Jun-2025	14 days	4 days	✓	25-Jun-2025	14 days	4 days	✓
Cyanides : Free Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW GLS-B-B	E339	21-Jun-2025	25-Jun-2025	14 days	4 days	✓	25-Jun-2025	14 days	4 days	✓
Cyanides : Free Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW ML-B-T	E339	22-Jun-2025	26-Jun-2025	14 days	4 days	✓	26-Jun-2025	14 days	4 days	✓
Cyanides : Free Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW OL-B	E339	21-Jun-2025	25-Jun-2025	14 days	4 days	✓	25-Jun-2025	14 days	4 days	✓
Cyanides : Free Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW OL-F	E339	21-Jun-2025	25-Jun-2025	14 days	4 days	✓	25-Jun-2025	14 days	4 days	✓
Cyanides : Free Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW DUP4	E339	21-Jun-2025	26-Jun-2025	14 days	5 days	✓	26-Jun-2025	14 days	5 days	✓
Cyanides : Free Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW DUP5	E339	21-Jun-2025	26-Jun-2025	14 days	5 days	✓	26-Jun-2025	14 days	5 days	✓
Cyanides : Free Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW HL-250-09-B	E339	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Cyanides : Free Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW HL-250-09-T	E339	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓
Cyanides : Free Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW HL-B-IN-M	E339	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓
Cyanides : Free Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW HL-B-T	E339	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓
Cyanides : Free Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW HL-REF-T	E339	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓
Cyanides : Free Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW OL-100	E339	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓
Cyanides : Free Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW OL-250	E339	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓
Cyanides : Free Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW Travel Blank	E339	21-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓
Cyanides : Thiocyanate by Colourimetry										
HDPE (nitric acid) 25ONG306 FW ML-B-T	E344	22-Jun-2025	----	----	----		25-Jun-2025	14 days	3 days	✓
Cyanides : Thiocyanate by Colourimetry										
HDPE (nitric acid) 25ONG306 FW DUP2	E344	21-Jun-2025	----	----	----		25-Jun-2025	14 days	4 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Cyanides : Thiocyanate by Colourimetry										
HDPE (nitric acid) 25ONG306 FW DUP4	E344	21-Jun-2025	----	----	----		25-Jun-2025	14 days	4 days	✔
Cyanides : Thiocyanate by Colourimetry										
HDPE (nitric acid) 25ONG306 FW DUP5	E344	21-Jun-2025	----	----	----		25-Jun-2025	14 days	4 days	✔
Cyanides : Thiocyanate by Colourimetry										
HDPE (nitric acid) 25ONG306 FW GL-B-B	E344	21-Jun-2025	----	----	----		25-Jun-2025	14 days	4 days	✔
Cyanides : Thiocyanate by Colourimetry										
HDPE (nitric acid) 25ONG306 FW GLS-B-B	E344	21-Jun-2025	----	----	----		25-Jun-2025	14 days	4 days	✔
Cyanides : Thiocyanate by Colourimetry										
HDPE (nitric acid) 25ONG306 FW OL-B	E344	21-Jun-2025	----	----	----		25-Jun-2025	14 days	4 days	✔
Cyanides : Thiocyanate by Colourimetry										
HDPE (nitric acid) 25ONG306 FW OL-F	E344	21-Jun-2025	----	----	----		25-Jun-2025	14 days	4 days	✔
Cyanides : Thiocyanate by Colourimetry										
HDPE (nitric acid) 25ONG306 FW HL-250-09-B	E344	20-Jun-2025	----	----	----		25-Jun-2025	14 days	5 days	✔
Cyanides : Thiocyanate by Colourimetry										
HDPE (nitric acid) 25ONG306 FW HL-250-09-T	E344	20-Jun-2025	----	----	----		25-Jun-2025	14 days	5 days	✔
Cyanides : Thiocyanate by Colourimetry										
HDPE (nitric acid) 25ONG306 FW HL-B-IN-M	E344	20-Jun-2025	----	----	----		25-Jun-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	
Cyanides : Thiocyanate by Colourimetry										
HDPE (nitric acid) 25ONG306 FW HL-B-T	E344	20-Jun-2025	----	----	----		25-Jun-2025	14 days	5 days	✓
Cyanides : Thiocyanate by Colourimetry										
HDPE (nitric acid) 25ONG306 FW HL-REF-T	E344	20-Jun-2025	----	----	----		25-Jun-2025	14 days	5 days	✓
Cyanides : Thiocyanate by Colourimetry										
HDPE (nitric acid) 25ONG306 FW OL-100	E344	20-Jun-2025	----	----	----		25-Jun-2025	14 days	5 days	✓
Cyanides : Thiocyanate by Colourimetry										
HDPE (nitric acid) 25ONG306 FW OL-250	E344	20-Jun-2025	----	----	----		25-Jun-2025	14 days	5 days	✓
Cyanides : Thiocyanate by Colourimetry										
HDPE (nitric acid) 25ONG306 FW Travel Blank	E344	21-Jun-2025	----	----	----		25-Jun-2025	14 days	5 days	✓
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW DUP2	E333	21-Jun-2025	25-Jun-2025	14 days	4 days	✓	25-Jun-2025	14 days	4 days	✓
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW GL-B-B	E333	21-Jun-2025	25-Jun-2025	14 days	4 days	✓	25-Jun-2025	14 days	4 days	✓
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW GLS-B-B	E333	21-Jun-2025	25-Jun-2025	14 days	4 days	✓	25-Jun-2025	14 days	4 days	✓
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW ML-B-T	E333	22-Jun-2025	26-Jun-2025	14 days	4 days	✓	26-Jun-2025	14 days	4 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW OL-B	E333	21-Jun-2025	25-Jun-2025	14 days	4 days	✓	25-Jun-2025	14 days	4 days	✓
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW OL-F	E333	21-Jun-2025	25-Jun-2025	14 days	4 days	✓	25-Jun-2025	14 days	4 days	✓
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW DUP4	E333	21-Jun-2025	26-Jun-2025	14 days	5 days	✓	26-Jun-2025	14 days	5 days	✓
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW DUP5	E333	21-Jun-2025	26-Jun-2025	14 days	5 days	✓	26-Jun-2025	14 days	5 days	✓
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW HL-250-09-B	E333	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW HL-250-09-T	E333	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW HL-B-IN-M	E333	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW HL-B-T	E333	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW HL-REF-T	E333	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW OL-100	E333	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW OL-250	E333	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW Travel Blank	E333	21-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓
Cyanides : WAD Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW DUP2	E336	21-Jun-2025	25-Jun-2025	14 days	4 days	✓	25-Jun-2025	14 days	4 days	✓
Cyanides : WAD Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW GL-B-B	E336	21-Jun-2025	25-Jun-2025	14 days	4 days	✓	25-Jun-2025	14 days	4 days	✓
Cyanides : WAD Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW GLS-B-B	E336	21-Jun-2025	25-Jun-2025	14 days	4 days	✓	25-Jun-2025	14 days	4 days	✓
Cyanides : WAD Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW ML-B-T	E336	22-Jun-2025	26-Jun-2025	14 days	4 days	✓	26-Jun-2025	14 days	4 days	✓
Cyanides : WAD Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW OL-B	E336	21-Jun-2025	25-Jun-2025	14 days	4 days	✓	25-Jun-2025	14 days	4 days	✓
Cyanides : WAD Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW OL-F	E336	21-Jun-2025	25-Jun-2025	14 days	4 days	✓	25-Jun-2025	14 days	4 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Cyanides : WAD Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW DUP4	E336	21-Jun-2025	26-Jun-2025	14 days	5 days	✓	26-Jun-2025	14 days	5 days	✓
Cyanides : WAD Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW DUP5	E336	21-Jun-2025	26-Jun-2025	14 days	5 days	✓	26-Jun-2025	14 days	5 days	✓
Cyanides : WAD Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW HL-250-09-B	E336	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓
Cyanides : WAD Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW HL-250-09-T	E336	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓
Cyanides : WAD Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW HL-B-IN-M	E336	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓
Cyanides : WAD Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW HL-B-T	E336	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓
Cyanides : WAD Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW HL-REF-T	E336	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓
Cyanides : WAD Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW OL-100	E336	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓
Cyanides : WAD Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW OL-250	E336	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Cyanides : WAD Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG306 FW Travel Blank	E336	21-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) 25ONG306 FW ML-B-T	E509	22-Jun-2025	27-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) 25ONG306 FW DUP2	E509	21-Jun-2025	27-Jun-2025	28 days	6 days	✓	27-Jun-2025	28 days	6 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) 25ONG306 FW DUP4	E509	21-Jun-2025	27-Jun-2025	28 days	6 days	✓	27-Jun-2025	28 days	6 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) 25ONG306 FW DUP5	E509	21-Jun-2025	27-Jun-2025	28 days	6 days	✓	27-Jun-2025	28 days	6 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) 25ONG306 FW GL-B-B	E509	21-Jun-2025	27-Jun-2025	28 days	6 days	✓	27-Jun-2025	28 days	6 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) 25ONG306 FW GLS-B-B	E509	21-Jun-2025	27-Jun-2025	28 days	6 days	✓	27-Jun-2025	28 days	6 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) 25ONG306 FW OL-B	E509	21-Jun-2025	27-Jun-2025	28 days	6 days	✓	27-Jun-2025	28 days	6 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) 25ONG306 FW OL-F	E509	21-Jun-2025	27-Jun-2025	28 days	6 days	✓	27-Jun-2025	28 days	6 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) 25ONG306 FW HL-250-09-B	E509	20-Jun-2025	27-Jun-2025	28 days	7 days	✓	27-Jun-2025	28 days	7 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) 25ONG306 FW HL-250-09-T	E509	20-Jun-2025	27-Jun-2025	28 days	7 days	✓	27-Jun-2025	28 days	7 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) 25ONG306 FW HL-B-IN-M	E509	20-Jun-2025	27-Jun-2025	28 days	7 days	✓	27-Jun-2025	28 days	7 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) 25ONG306 FW HL-B-T	E509	20-Jun-2025	27-Jun-2025	28 days	7 days	✓	27-Jun-2025	28 days	7 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) 25ONG306 FW HL-REF-T	E509	20-Jun-2025	27-Jun-2025	28 days	7 days	✓	27-Jun-2025	28 days	7 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) 25ONG306 FW OL-100	E509	20-Jun-2025	27-Jun-2025	28 days	7 days	✓	27-Jun-2025	28 days	7 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) 25ONG306 FW OL-250	E509	20-Jun-2025	27-Jun-2025	28 days	7 days	✓	27-Jun-2025	28 days	7 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE total (nitric acid) 25ONG306 FW Travel Blank	E421	21-Jun-2025	25-Jun-2025	0 hrs	108 hrs	✖ UCP	25-Jun-2025	0 hrs	108 hrs	✖ UCP
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) 25ONG306 FW ML-B-T	E421	22-Jun-2025	25-Jun-2025	180 days	3 days	✓	25-Jun-2025	180 days	3 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			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) 25ONG306 FW DUP2	E421	21-Jun-2025	25-Jun-2025	180 days	4 days	✓	25-Jun-2025	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) 25ONG306 FW DUP4	E421	21-Jun-2025	25-Jun-2025	180 days	4 days	✓	25-Jun-2025	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) 25ONG306 FW DUP5	E421	21-Jun-2025	25-Jun-2025	180 days	4 days	✓	25-Jun-2025	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) 25ONG306 FW GL-B-B	E421	21-Jun-2025	25-Jun-2025	180 days	4 days	✓	25-Jun-2025	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) 25ONG306 FW GLS-B-B	E421	21-Jun-2025	25-Jun-2025	180 days	4 days	✓	25-Jun-2025	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) 25ONG306 FW OL-B	E421	21-Jun-2025	25-Jun-2025	180 days	4 days	✓	25-Jun-2025	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) 25ONG306 FW OL-F	E421	21-Jun-2025	25-Jun-2025	180 days	4 days	✓	25-Jun-2025	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) 25ONG306 FW HL-250-09-B	E421	20-Jun-2025	25-Jun-2025	180 days	5 days	✓	25-Jun-2025	180 days	5 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) 25ONG306 FW HL-250-09-T	E421	20-Jun-2025	25-Jun-2025	180 days	5 days	✓	25-Jun-2025	180 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	
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) 25ONG306 FW HL-B-IN-M	E421	20-Jun-2025	25-Jun-2025	180 days	5 days	✓	25-Jun-2025	180 days	5 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) 25ONG306 FW HL-B-T	E421	20-Jun-2025	25-Jun-2025	180 days	5 days	✓	25-Jun-2025	180 days	5 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) 25ONG306 FW HL-REF-T	E421	20-Jun-2025	25-Jun-2025	180 days	5 days	✓	25-Jun-2025	180 days	5 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) 25ONG306 FW OL-100	E421	20-Jun-2025	25-Jun-2025	180 days	5 days	✓	25-Jun-2025	180 days	5 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) 25ONG306 FW OL-250	E421	20-Jun-2025	25-Jun-2025	180 days	5 days	✓	25-Jun-2025	180 days	5 days	✓
Field Tests : Field pH,EC,Salinity, TDS, Cl2,CIO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine										
HDPE [BOD HT-4d] 25ONG306 FW DUP2	EF001	21-Jun-2025	----	----	----		30-Sep-2025	----	----	
Field Tests : Field pH,EC,Salinity, TDS, Cl2,CIO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine										
HDPE [BOD HT-4d] 25ONG306 FW DUP4	EF001	21-Jun-2025	----	----	----		30-Sep-2025	----	----	
Field Tests : Field pH,EC,Salinity, TDS, Cl2,CIO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine										
HDPE [BOD HT-4d] 25ONG306 FW DUP5	EF001	21-Jun-2025	----	----	----		30-Sep-2025	----	----	
Field Tests : Field pH,EC,Salinity, TDS, Cl2,CIO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine										
HDPE [BOD HT-4d] 25ONG306 FW GL-B-B	EF001	21-Jun-2025	----	----	----		30-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		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Field Tests : Field pH,EC,Salinity, TDS, Cl2,CIO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine										
HDPE [BOD HT-4d] 25ONG306 FW GLS-B-B	EF001	21-Jun-2025	----	----	----		30-Sep-2025	----	----	
Field Tests : Field pH,EC,Salinity, TDS, Cl2,CIO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine										
HDPE [BOD HT-4d] 25ONG306 FW HL-250-09-B	EF001	20-Jun-2025	----	----	----		30-Sep-2025	----	----	
Field Tests : Field pH,EC,Salinity, TDS, Cl2,CIO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine										
HDPE [BOD HT-4d] 25ONG306 FW HL-250-09-T	EF001	20-Jun-2025	----	----	----		30-Sep-2025	----	----	
Field Tests : Field pH,EC,Salinity, TDS, Cl2,CIO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine										
HDPE [BOD HT-4d] 25ONG306 FW HL-B-IN-M	EF001	20-Jun-2025	----	----	----		30-Sep-2025	----	----	
Field Tests : Field pH,EC,Salinity, TDS, Cl2,CIO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine										
HDPE [BOD HT-4d] 25ONG306 FW HL-B-T	EF001	20-Jun-2025	----	----	----		30-Sep-2025	----	----	
Field Tests : Field pH,EC,Salinity, TDS, Cl2,CIO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine										
HDPE [BOD HT-4d] 25ONG306 FW HL-REF-T	EF001	20-Jun-2025	----	----	----		30-Sep-2025	----	----	
Field Tests : Field pH,EC,Salinity, TDS, Cl2,CIO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine										
HDPE [BOD HT-4d] 25ONG306 FW ML-B-T	EF001	22-Jun-2025	----	----	----		30-Sep-2025	----	----	
Field Tests : Field pH,EC,Salinity, TDS, Cl2,CIO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine										
HDPE [BOD HT-4d] 25ONG306 FW OL-100	EF001	20-Jun-2025	----	----	----		30-Sep-2025	----	----	
Field Tests : Field pH,EC,Salinity, TDS, Cl2,CIO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine										
HDPE [BOD HT-4d] 25ONG306 FW OL-250	EF001	20-Jun-2025	----	----	----		30-Sep-2025	----	----	



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Field Tests : Field pH,EC,Salinity, TDS, Cl2,CIO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine										
HDPE [BOD HT-4d] 25ONG306 FW OL-B	EF001	21-Jun-2025	----	----	----		30-Sep-2025	----	----	
Field Tests : Field pH,EC,Salinity, TDS, Cl2,CIO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine										
HDPE [BOD HT-4d] 25ONG306 FW OL-F	EF001	21-Jun-2025	----	----	----		30-Sep-2025	----	----	
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) [ON MECP] 25ONG306 FW ML-B-T	E358-L	22-Jun-2025	26-Jun-2025	28 days	4 days	✓	27-Jun-2025	28 days	4 days	✓
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) [ON MECP] 25ONG306 FW DUP2	E358-L	21-Jun-2025	26-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) [ON MECP] 25ONG306 FW DUP4	E358-L	21-Jun-2025	26-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) [ON MECP] 25ONG306 FW DUP5	E358-L	21-Jun-2025	26-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) [ON MECP] 25ONG306 FW GL-B-B	E358-L	21-Jun-2025	26-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) [ON MECP] 25ONG306 FW GLS-B-B	E358-L	21-Jun-2025	26-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) [ON MECP] 25ONG306 FW OL-B	E358-L	21-Jun-2025	26-Jun-2025	28 days	5 days	✓	27-Jun-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	
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) [ON MECP] 25ONG306 FW OL-F	E358-L	21-Jun-2025	26-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) [ON MECP] 25ONG306 FW HL-250-09-B	E358-L	20-Jun-2025	26-Jun-2025	28 days	6 days	✓	27-Jun-2025	28 days	6 days	✓
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) [ON MECP] 25ONG306 FW HL-250-09-T	E358-L	20-Jun-2025	26-Jun-2025	28 days	6 days	✓	27-Jun-2025	28 days	6 days	✓
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) [ON MECP] 25ONG306 FW HL-B-IN-M	E358-L	20-Jun-2025	26-Jun-2025	28 days	6 days	✓	27-Jun-2025	28 days	6 days	✓
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) [ON MECP] 25ONG306 FW HL-B-T	E358-L	20-Jun-2025	26-Jun-2025	28 days	6 days	✓	27-Jun-2025	28 days	6 days	✓
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) [ON MECP] 25ONG306 FW HL-REF-T	E358-L	20-Jun-2025	26-Jun-2025	28 days	6 days	✓	27-Jun-2025	28 days	6 days	✓
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) [ON MECP] 25ONG306 FW OL-100	E358-L	20-Jun-2025	26-Jun-2025	28 days	6 days	✓	27-Jun-2025	28 days	6 days	✓
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) [ON MECP] 25ONG306 FW OL-250	E358-L	20-Jun-2025	26-Jun-2025	28 days	6 days	✓	27-Jun-2025	28 days	6 days	✓
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass - dissolved (lab preserved) [ON MECP] 25ONG306 FW Travel Blank	E358-L	21-Jun-2025	25-Jun-2025	3 days	4 days	✖ EHT	26-Jun-2025	28 days	0 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 : Acidity by Titration										
HDPE [ON MECP] 25ONG306 FW ML-B-T	E283	22-Jun-2025	25-Jun-2025	14 days	3 days	✓	25-Jun-2025	14 days	3 days	✓
Physical Tests : Acidity by Titration										
HDPE [ON MECP] 25ONG306 FW DUP2	E283	21-Jun-2025	25-Jun-2025	14 days	4 days	✓	25-Jun-2025	14 days	4 days	✓
Physical Tests : Acidity by Titration										
HDPE [ON MECP] 25ONG306 FW DUP4	E283	21-Jun-2025	25-Jun-2025	14 days	4 days	✓	25-Jun-2025	14 days	4 days	✓
Physical Tests : Acidity by Titration										
HDPE [ON MECP] 25ONG306 FW DUP5	E283	21-Jun-2025	25-Jun-2025	14 days	4 days	✓	25-Jun-2025	14 days	4 days	✓
Physical Tests : Acidity by Titration										
HDPE [ON MECP] 25ONG306 FW GL-B-B	E283	21-Jun-2025	25-Jun-2025	14 days	4 days	✓	25-Jun-2025	14 days	4 days	✓
Physical Tests : Acidity by Titration										
HDPE [ON MECP] 25ONG306 FW GLS-B-B	E283	21-Jun-2025	25-Jun-2025	14 days	4 days	✓	25-Jun-2025	14 days	4 days	✓
Physical Tests : Acidity by Titration										
HDPE [ON MECP] 25ONG306 FW OL-B	E283	21-Jun-2025	25-Jun-2025	14 days	4 days	✓	25-Jun-2025	14 days	4 days	✓
Physical Tests : Acidity by Titration										
HDPE [ON MECP] 25ONG306 FW OL-F	E283	21-Jun-2025	25-Jun-2025	14 days	4 days	✓	25-Jun-2025	14 days	4 days	✓
Physical Tests : Acidity by Titration										
HDPE [ON MECP] 25ONG306 FW HL-250-09-B	E283	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-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 : Acidity by Titration										
HDPE [ON MECP] 25ONG306 FW HL-250-09-T	E283	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓
Physical Tests : Acidity by Titration										
HDPE [ON MECP] 25ONG306 FW HL-B-IN-M	E283	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓
Physical Tests : Acidity by Titration										
HDPE [ON MECP] 25ONG306 FW HL-B-T	E283	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓
Physical Tests : Acidity by Titration										
HDPE [ON MECP] 25ONG306 FW HL-REF-T	E283	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓
Physical Tests : Acidity by Titration										
HDPE [ON MECP] 25ONG306 FW OL-100	E283	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓
Physical Tests : Acidity by Titration										
HDPE [ON MECP] 25ONG306 FW OL-250	E283	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓
Physical Tests : Acidity by Titration										
HDPE [ON MECP] 25ONG306 FW Travel Blank	E283	21-Jun-2025	25-Jun-2025	14 days	5 days	✓	25-Jun-2025	14 days	5 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] 25ONG306 FW ML-B-T	E290	22-Jun-2025	25-Jun-2025	14 days	3 days	✓	27-Jun-2025	14 days	3 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] 25ONG306 FW DUP2	E290	21-Jun-2025	25-Jun-2025	14 days	4 days	✓	27-Jun-2025	14 days	4 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] 25ONG306 FW DUP4	E290	21-Jun-2025	25-Jun-2025	14 days	4 days	✓	27-Jun-2025	14 days	4 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] 25ONG306 FW DUP5	E290	21-Jun-2025	25-Jun-2025	14 days	4 days	✓	27-Jun-2025	14 days	4 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] 25ONG306 FW GL-B-B	E290	21-Jun-2025	25-Jun-2025	14 days	4 days	✓	30-Jun-2025	14 days	4 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] 25ONG306 FW GLS-B-B	E290	21-Jun-2025	25-Jun-2025	14 days	4 days	✓	27-Jun-2025	14 days	4 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] 25ONG306 FW OL-B	E290	21-Jun-2025	25-Jun-2025	14 days	4 days	✓	30-Jun-2025	14 days	4 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] 25ONG306 FW OL-F	E290	21-Jun-2025	25-Jun-2025	14 days	4 days	✓	30-Jun-2025	14 days	4 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] 25ONG306 FW HL-250-09-B	E290	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	30-Jun-2025	14 days	5 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] 25ONG306 FW HL-250-09-T	E290	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	30-Jun-2025	14 days	5 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] 25ONG306 FW HL-B-IN-M	E290	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	30-Jun-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 [ON MECP] 25ONG306 FW HL-B-T	E290	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	30-Jun-2025	14 days	5 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] 25ONG306 FW HL-REF-T	E290	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	30-Jun-2025	14 days	5 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] 25ONG306 FW OL-100	E290	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	30-Jun-2025	14 days	5 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] 25ONG306 FW OL-250	E290	20-Jun-2025	25-Jun-2025	14 days	5 days	✓	30-Jun-2025	14 days	5 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] 25ONG306 FW Travel Blank	E290	21-Jun-2025	25-Jun-2025	14 days	5 days	✓	27-Jun-2025	14 days	5 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW GL-B-B	E162	21-Jun-2025	----	----	----		25-Jun-2025	7 days	4 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW ML-B-T	E162	22-Jun-2025	----	----	----		26-Jun-2025	7 days	4 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW OL-B	E162	21-Jun-2025	----	----	----		25-Jun-2025	7 days	4 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW OL-F	E162	21-Jun-2025	----	----	----		25-Jun-2025	7 days	4 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 : TDS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW DUP2	E162	21-Jun-2025	----	----	----		26-Jun-2025	7 days	5 days	✔
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW DUP4	E162	21-Jun-2025	----	----	----		26-Jun-2025	7 days	5 days	✔
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW DUP5	E162	21-Jun-2025	----	----	----		26-Jun-2025	7 days	5 days	✔
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW GLS-B-B	E162	21-Jun-2025	----	----	----		26-Jun-2025	7 days	5 days	✔
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW HL-250-09-B	E162	20-Jun-2025	----	----	----		25-Jun-2025	7 days	5 days	✔
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW HL-250-09-T	E162	20-Jun-2025	----	----	----		25-Jun-2025	7 days	5 days	✔
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW HL-B-IN-M	E162	20-Jun-2025	----	----	----		25-Jun-2025	7 days	5 days	✔
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW HL-B-T	E162	20-Jun-2025	----	----	----		25-Jun-2025	7 days	5 days	✔
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW HL-REF-T	E162	20-Jun-2025	----	----	----		25-Jun-2025	7 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 : TDS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW OL-100	E162	20-Jun-2025	----	----	----		25-Jun-2025	7 days	5 days	✔
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW OL-250	E162	20-Jun-2025	----	----	----		25-Jun-2025	7 days	5 days	✔
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW Travel Blank	E162	21-Jun-2025	----	----	----		26-Jun-2025	7 days	5 days	✔
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW GL-B-B	E160	21-Jun-2025	----	----	----		25-Jun-2025	7 days	4 days	✔
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW ML-B-T	E160	22-Jun-2025	----	----	----		26-Jun-2025	7 days	4 days	✔
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW OL-B	E160	21-Jun-2025	----	----	----		25-Jun-2025	7 days	4 days	✔
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW OL-F	E160	21-Jun-2025	----	----	----		25-Jun-2025	7 days	4 days	✔
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW DUP2	E160	21-Jun-2025	----	----	----		26-Jun-2025	7 days	5 days	✔
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW DUP4	E160	21-Jun-2025	----	----	----		26-Jun-2025	7 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 : TSS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW DUP5	E160	21-Jun-2025	----	----	----		26-Jun-2025	7 days	5 days	✔
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW GLS-B-B	E160	21-Jun-2025	----	----	----		26-Jun-2025	7 days	5 days	✔
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW HL-250-09-B	E160	20-Jun-2025	----	----	----		25-Jun-2025	7 days	5 days	✔
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW HL-250-09-T	E160	20-Jun-2025	----	----	----		25-Jun-2025	7 days	5 days	✔
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW HL-B-IN-M	E160	20-Jun-2025	----	----	----		25-Jun-2025	7 days	5 days	✔
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW HL-B-T	E160	20-Jun-2025	----	----	----		25-Jun-2025	7 days	5 days	✔
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW HL-REF-T	E160	20-Jun-2025	----	----	----		25-Jun-2025	7 days	5 days	✔
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW OL-100	E160	20-Jun-2025	----	----	----		25-Jun-2025	7 days	5 days	✔
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW OL-250	E160	20-Jun-2025	----	----	----		25-Jun-2025	7 days	5 days	✔



Matrix: **Water** Evaluation: * = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP] 25ONG306 FW Travel Blank	E160	21-Jun-2025	----	----	----		26-Jun-2025	7 days	5 days	✓
Plant Pigments : Chlorophyll-a by Fluorometry										
Opaque HDPE tube 25ONG306 FW DUP2	E870	21-Jun-2025	16-Sep-2025	2 days	86 days	✖ EHTL	16-Sep-2025	2 days	86 days	✓
Plant Pigments : Chlorophyll-a by Fluorometry										
Opaque HDPE tube 25ONG306 FW OL-B	E870	21-Jun-2025	16-Sep-2025	2 days	86 days	✖ EHTL	16-Sep-2025	2 days	86 days	✓
Plant Pigments : Chlorophyll-a by Fluorometry										
Opaque HDPE tube 25ONG306 FW OL-F	E870	21-Jun-2025	16-Sep-2025	2 days	86 days	✖ EHTL	16-Sep-2025	2 days	86 days	✓
Plant Pigments : Chlorophyll-a by Fluorometry										
Opaque HDPE tube 25ONG306 FW HL-B-IN-M	E870	20-Jun-2025	16-Sep-2025	2 days	87 days	✖ EHTR	16-Sep-2025	2 days	87 days	✓
Plant Pigments : Chlorophyll-a by Fluorometry										
Opaque HDPE tube 25ONG306 FW HL-B-T	E870	20-Jun-2025	16-Sep-2025	2 days	87 days	✖ EHTR	16-Sep-2025	2 days	87 days	✓
Plant Pigments : Chlorophyll-a by Fluorometry										
Opaque HDPE tube 25ONG306 FW HL-REF-T	E870	20-Jun-2025	16-Sep-2025	2 days	87 days	✖ EHTR	16-Sep-2025	2 days	87 days	✓
Plant Pigments : Chlorophyll-a by Fluorometry										
Opaque HDPE tube 25ONG306 FW OL-100	E870	20-Jun-2025	16-Sep-2025	2 days	87 days	✖ EHTR	16-Sep-2025	2 days	87 days	✓
Plant Pigments : Chlorophyll-a by Fluorometry										
Opaque HDPE tube 25ONG306 FW OL-250	E870	20-Jun-2025	16-Sep-2025	2 days	87 days	✖ EHTR	16-Sep-2025	2 days	87 days	✓

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 Work Order : TY2506644
 Client : G3 Consulting Ltd.
 Project : 2502



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	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE total (nitric acid) 25ONG306 FW DUP2	Ra-226	21-Jun-2025	----	----	----		16-Jul-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE total (nitric acid) 25ONG306 FW DUP4	Ra-226	21-Jun-2025	----	----	----		16-Jul-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE total (nitric acid) 25ONG306 FW DUP5	Ra-226	21-Jun-2025	----	----	----		16-Jul-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE total (nitric acid) 25ONG306 FW GL-B-B	Ra-226	21-Jun-2025	----	----	----		16-Jul-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE total (nitric acid) 25ONG306 FW GLS-B-B	Ra-226	21-Jun-2025	----	----	----		16-Jul-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE total (nitric acid) 25ONG306 FW HL-250-09-B	Ra-226	20-Jun-2025	----	----	----		16-Jul-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE total (nitric acid) 25ONG306 FW HL-250-09-T	Ra-226	20-Jun-2025	----	----	----		16-Jul-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE total (nitric acid) 25ONG306 FW HL-B-IN-M	Ra-226	20-Jun-2025	----	----	----		16-Jul-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE total (nitric acid) 25ONG306 FW HL-B-T	Ra-226	20-Jun-2025	----	----	----		16-Jul-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		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE total (nitric acid) 25ONG306 FW HL-REF-T	Ra-226	20-Jun-2025	----	----	----		16-Jul-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE total (nitric acid) 25ONG306 FW ML-B-T	Ra-226	22-Jun-2025	----	----	----		16-Jul-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE total (nitric acid) 25ONG306 FW OL-100	Ra-226	20-Jun-2025	----	----	----		16-Jul-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE total (nitric acid) 25ONG306 FW OL-250	Ra-226	20-Jun-2025	----	----	----		16-Jul-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE total (nitric acid) 25ONG306 FW OL-B	Ra-226	21-Jun-2025	----	----	----		16-Jul-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE total (nitric acid) 25ONG306 FW OL-F	Ra-226	21-Jun-2025	----	----	----		16-Jul-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE total (nitric acid) 25ONG306 FW Travel Blank	Ra-226	21-Jun-2025	----	----	----		16-Jul-2025	----	----	
Speciated Metals : Dissolved Methylmercury in Water by GCAFS										
Amber glass dissolved (field filtered / hydrochloric acid) 25ONG306 FW ML-B-T	E537	22-Jun-2025	03-Jul-2025	180 days	11 days	✓	04-Jul-2025	180 days	11 days	✓
Speciated Metals : Dissolved Methylmercury in Water by GCAFS										
Amber glass dissolved (field filtered / hydrochloric acid) 25ONG306 FW DUP2	E537	21-Jun-2025	03-Jul-2025	180 days	12 days	✓	04-Jul-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		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Speciated Metals : Dissolved Methylmercury in Water by GCAFS										
Amber glass dissolved (field filtered / hydrochloric acid) 25ONG306 FW DUP4	E537	21-Jun-2025	03-Jul-2025	180 days	12 days	✓	04-Jul-2025	180 days	12 days	✓
Speciated Metals : Dissolved Methylmercury in Water by GCAFS										
Amber glass dissolved (field filtered / hydrochloric acid) 25ONG306 FW DUP5	E537	21-Jun-2025	03-Jul-2025	180 days	12 days	✓	04-Jul-2025	180 days	12 days	✓
Speciated Metals : Dissolved Methylmercury in Water by GCAFS										
Amber glass dissolved (field filtered / hydrochloric acid) 25ONG306 FW GL-B-B	E537	21-Jun-2025	03-Jul-2025	180 days	12 days	✓	04-Jul-2025	180 days	12 days	✓
Speciated Metals : Dissolved Methylmercury in Water by GCAFS										
Amber glass dissolved (field filtered / hydrochloric acid) 25ONG306 FW GLS-B-B	E537	21-Jun-2025	03-Jul-2025	180 days	12 days	✓	04-Jul-2025	180 days	12 days	✓
Speciated Metals : Dissolved Methylmercury in Water by GCAFS										
Amber glass dissolved (field filtered / hydrochloric acid) 25ONG306 FW OL-B	E537	21-Jun-2025	03-Jul-2025	180 days	12 days	✓	04-Jul-2025	180 days	12 days	✓
Speciated Metals : Dissolved Methylmercury in Water by GCAFS										
Amber glass dissolved (field filtered / hydrochloric acid) 25ONG306 FW OL-F	E537	21-Jun-2025	03-Jul-2025	180 days	12 days	✓	04-Jul-2025	180 days	12 days	✓
Speciated Metals : Dissolved Methylmercury in Water by GCAFS										
Amber glass dissolved (field filtered / hydrochloric acid) 25ONG306 FW HL-250-09-B	E537	20-Jun-2025	03-Jul-2025	180 days	13 days	✓	04-Jul-2025	180 days	13 days	✓
Speciated Metals : Dissolved Methylmercury in Water by GCAFS										
Amber glass dissolved (field filtered / hydrochloric acid) 25ONG306 FW HL-250-09-T	E537	20-Jun-2025	03-Jul-2025	180 days	13 days	✓	04-Jul-2025	180 days	13 days	✓
Speciated Metals : Dissolved Methylmercury in Water by GCAFS										
Amber glass dissolved (field filtered / hydrochloric acid) 25ONG306 FW HL-B-IN-M	E537	20-Jun-2025	03-Jul-2025	180 days	13 days	✓	04-Jul-2025	180 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	
Speciated Metals : Dissolved Methylmercury in Water by GCAFS										
Amber glass dissolved (field filtered / hydrochloric acid) 25ONG306 FW HL-B-T	E537	20-Jun-2025	03-Jul-2025	180 days	13 days	✓	04-Jul-2025	180 days	13 days	✓
Speciated Metals : Dissolved Methylmercury in Water by GCAFS										
Amber glass dissolved (field filtered / hydrochloric acid) 25ONG306 FW HL-REF-T	E537	20-Jun-2025	03-Jul-2025	180 days	13 days	✓	04-Jul-2025	180 days	13 days	✓
Speciated Metals : Dissolved Methylmercury in Water by GCAFS										
Amber glass dissolved (field filtered / hydrochloric acid) 25ONG306 FW OL-100	E537	20-Jun-2025	03-Jul-2025	180 days	13 days	✓	04-Jul-2025	180 days	13 days	✓
Speciated Metals : Dissolved Methylmercury in Water by GCAFS										
Amber glass dissolved (field filtered / hydrochloric acid) 25ONG306 FW OL-250	E537	20-Jun-2025	03-Jul-2025	180 days	13 days	✓	04-Jul-2025	180 days	13 days	✓
Speciated Metals : Total Methylmercury in Water by GCAFS										
Amber glass total (hydrochloric acid) 25ONG306 FW OL-100	E536	20-Jun-2025	02-Jul-2025	180 days	12 days	✓	04-Jul-2025	180 days	12 days	✓
Speciated Metals : Total Methylmercury in Water by GCAFS										
Amber glass total (hydrochloric acid) 25ONG306 FW OL-B	E536	21-Jun-2025	02-Jul-2025	180 days	12 days	✓	04-Jul-2025	180 days	12 days	✓
Speciated Metals : Total Methylmercury in Water by GCAFS										
Amber glass total (hydrochloric acid) 25ONG306 FW OL-F	E536	21-Jun-2025	02-Jul-2025	180 days	12 days	✓	04-Jul-2025	180 days	12 days	✓
Speciated Metals : Total Methylmercury in Water by GCAFS										
Amber glass total (hydrochloric acid) 25ONG306 FW ML-B-T	E536	22-Jun-2025	07-Jul-2025	180 days	15 days	✓	08-Jul-2025	180 days	15 days	✓
Speciated Metals : Total Methylmercury in Water by GCAFS										
Amber glass total (hydrochloric acid) 25ONG306 FW DUP2	E536	21-Jun-2025	07-Jul-2025	180 days	16 days	✓	08-Jul-2025	180 days	16 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Speciated Metals : Total Methylmercury in Water by GCAFS										
Amber glass total (hydrochloric acid) 25ONG306 FW DUP4	E536	21-Jun-2025	07-Jul-2025	180 days	16 days	✓	08-Jul-2025	180 days	16 days	✓
Speciated Metals : Total Methylmercury in Water by GCAFS										
Amber glass total (hydrochloric acid) 25ONG306 FW DUP5	E536	21-Jun-2025	07-Jul-2025	180 days	16 days	✓	08-Jul-2025	180 days	16 days	✓
Speciated Metals : Total Methylmercury in Water by GCAFS										
Amber glass total (hydrochloric acid) 25ONG306 FW GL-B-B	E536	21-Jun-2025	07-Jul-2025	180 days	16 days	✓	08-Jul-2025	180 days	16 days	✓
Speciated Metals : Total Methylmercury in Water by GCAFS										
Amber glass total (hydrochloric acid) 25ONG306 FW GLS-B-B	E536	21-Jun-2025	07-Jul-2025	180 days	16 days	✓	08-Jul-2025	180 days	16 days	✓
Speciated Metals : Total Methylmercury in Water by GCAFS										
Amber glass total (hydrochloric acid) 25ONG306 FW HL-250-09-B	E536	20-Jun-2025	07-Jul-2025	180 days	17 days	✓	08-Jul-2025	180 days	17 days	✓
Speciated Metals : Total Methylmercury in Water by GCAFS										
Amber glass total (hydrochloric acid) 25ONG306 FW HL-250-09-T	E536	20-Jun-2025	07-Jul-2025	180 days	17 days	✓	08-Jul-2025	180 days	17 days	✓
Speciated Metals : Total Methylmercury in Water by GCAFS										
Amber glass total (hydrochloric acid) 25ONG306 FW HL-B-IN-M	E536	20-Jun-2025	07-Jul-2025	180 days	17 days	✓	08-Jul-2025	180 days	17 days	✓
Speciated Metals : Total Methylmercury in Water by GCAFS										
Amber glass total (hydrochloric acid) 25ONG306 FW HL-B-T	E536	20-Jun-2025	07-Jul-2025	180 days	17 days	✓	08-Jul-2025	180 days	17 days	✓
Speciated Metals : Total Methylmercury in Water by GCAFS										
Amber glass total (hydrochloric acid) 25ONG306 FW HL-REF-T	E536	20-Jun-2025	07-Jul-2025	180 days	17 days	✓	08-Jul-2025	180 days	17 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	
Speciated Metals : Total Methylmercury in Water by GCAFS										
Amber glass total (hydrochloric acid) 25ONG306 FW OL-250	E536	20-Jun-2025	07-Jul-2025	180 days	17 days	✓	08-Jul-2025	180 days	17 days	✓
Speciated Metals : Total Methylmercury in Water by GCAFS										
Amber glass total (hydrochloric acid) 25ONG306 FW Travel Blank	E536	21-Jun-2025	07-Jul-2025	180 days	17 days	✓	08-Jul-2025	180 days	17 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) [ON MECP] 25ONG306 FW ML-B-T	E508	22-Jun-2025	27-Jun-2025	28 days	5 days	✓	27-Jun-2025	28 days	5 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) [ON MECP] 25ONG306 FW DUP2	E508	21-Jun-2025	27-Jun-2025	28 days	6 days	✓	27-Jun-2025	28 days	6 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) [ON MECP] 25ONG306 FW DUP4	E508	21-Jun-2025	27-Jun-2025	28 days	6 days	✓	27-Jun-2025	28 days	6 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) [ON MECP] 25ONG306 FW DUP5	E508	21-Jun-2025	27-Jun-2025	28 days	6 days	✓	27-Jun-2025	28 days	6 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) [ON MECP] 25ONG306 FW GL-B-B	E508	21-Jun-2025	27-Jun-2025	28 days	6 days	✓	27-Jun-2025	28 days	6 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) [ON MECP] 25ONG306 FW GLS-B-B	E508	21-Jun-2025	27-Jun-2025	28 days	6 days	✓	27-Jun-2025	28 days	6 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) [ON MECP] 25ONG306 FW OL-B	E508	21-Jun-2025	27-Jun-2025	28 days	6 days	✓	27-Jun-2025	28 days	6 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			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) [ON MECP] 25ONG306 FW OL-F	E508	21-Jun-2025	27-Jun-2025	28 days	6 days	✓	27-Jun-2025	28 days	6 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) [ON MECP] 25ONG306 FW Travel Blank	E508	21-Jun-2025	27-Jun-2025	28 days	6 days	✓	27-Jun-2025	28 days	6 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) [ON MECP] 25ONG306 FW HL-250-09-B	E508	20-Jun-2025	27-Jun-2025	28 days	7 days	✓	27-Jun-2025	28 days	7 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) [ON MECP] 25ONG306 FW HL-250-09-T	E508	20-Jun-2025	27-Jun-2025	28 days	7 days	✓	27-Jun-2025	28 days	7 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) [ON MECP] 25ONG306 FW HL-B-IN-M	E508	20-Jun-2025	27-Jun-2025	28 days	7 days	✓	27-Jun-2025	28 days	7 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) [ON MECP] 25ONG306 FW HL-B-T	E508	20-Jun-2025	27-Jun-2025	28 days	7 days	✓	27-Jun-2025	28 days	7 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) [ON MECP] 25ONG306 FW HL-REF-T	E508	20-Jun-2025	27-Jun-2025	28 days	7 days	✓	27-Jun-2025	28 days	7 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) [ON MECP] 25ONG306 FW OL-100	E508	20-Jun-2025	27-Jun-2025	28 days	7 days	✓	27-Jun-2025	28 days	7 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) [ON MECP] 25ONG306 FW OL-250	E508	20-Jun-2025	27-Jun-2025	28 days	7 days	✓	27-Jun-2025	28 days	7 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			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) 25ONG306 FW ML-B-T	E420	22-Jun-2025	24-Jun-2025	180 days	2 days	✓	25-Jun-2025	180 days	2 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) 25ONG306 FW DUP2	E420	21-Jun-2025	24-Jun-2025	180 days	3 days	✓	25-Jun-2025	180 days	3 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) 25ONG306 FW DUP4	E420	21-Jun-2025	24-Jun-2025	180 days	3 days	✓	25-Jun-2025	180 days	3 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) 25ONG306 FW DUP5	E420	21-Jun-2025	24-Jun-2025	180 days	3 days	✓	25-Jun-2025	180 days	3 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) 25ONG306 FW GL-B-B	E420	21-Jun-2025	24-Jun-2025	180 days	3 days	✓	25-Jun-2025	180 days	3 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) 25ONG306 FW GLS-B-B	E420	21-Jun-2025	24-Jun-2025	180 days	3 days	✓	25-Jun-2025	180 days	3 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) 25ONG306 FW OL-B	E420	21-Jun-2025	24-Jun-2025	180 days	3 days	✓	25-Jun-2025	180 days	3 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) 25ONG306 FW OL-F	E420	21-Jun-2025	24-Jun-2025	180 days	3 days	✓	25-Jun-2025	180 days	3 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) 25ONG306 FW HL-250-09-B	E420	20-Jun-2025	24-Jun-2025	180 days	4 days	✓	25-Jun-2025	180 days	4 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			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) 25ONG306 FW HL-250-09-T	E420	20-Jun-2025	24-Jun-2025	180 days	4 days	✓	25-Jun-2025	180 days	4 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) 25ONG306 FW HL-B-IN-M	E420	20-Jun-2025	24-Jun-2025	180 days	4 days	✓	25-Jun-2025	180 days	4 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) 25ONG306 FW HL-B-T	E420	20-Jun-2025	24-Jun-2025	180 days	4 days	✓	25-Jun-2025	180 days	4 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) 25ONG306 FW HL-REF-T	E420	20-Jun-2025	24-Jun-2025	180 days	4 days	✓	25-Jun-2025	180 days	4 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) 25ONG306 FW OL-100	E420	20-Jun-2025	24-Jun-2025	180 days	4 days	✓	25-Jun-2025	180 days	4 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) 25ONG306 FW OL-250	E420	20-Jun-2025	24-Jun-2025	180 days	4 days	✓	25-Jun-2025	180 days	4 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) 25ONG306 FW Travel Blank	E420	21-Jun-2025	24-Jun-2025	180 days	4 days	✓	25-Jun-2025	180 days	4 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)							
TSS by Gravimetry	E160	2074217	3	47	6.3	5.0	✓
TDS by Gravimetry	E162	2074220	2	36	5.5	5.0	✓
Chloride in Water by IC	E235.Cl	2073945	2	18	11.1	5.0	✓
Fluoride in Water by IC	E235.F	2073403	2	23	8.7	5.0	✓
Nitrite in Water by IC	E235.NO2	2073407	2	26	7.6	5.0	✓
Nitrate in Water by IC	E235.NO3	2073404	2	26	7.6	5.0	✓
Sulfate in Water by IC	E235.SO4	2073405	2	39	5.1	5.0	✓
Acidity by Titration	E283	2073421	1	20	5.0	5.0	✓
Alkalinity Species by Titration	E290	2073424	2	36	5.5	5.0	✓
Ammonia by Fluorescence	E298	2070843	2	29	6.9	5.0	✓
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	2070848	2	33	6.0	5.0	✓
Total Cyanide	E333	2075185	2	35	5.7	5.0	✓
WAD Cyanide	E336	2075186	2	22	9.0	5.0	✓
Free Cyanide	E339	2075187	2	27	7.4	5.0	✓
Cyanate by Ion Selective Electrode	E343	2093274	1	19	5.2	5.0	✓
Thiocyanate by Colourimetry	E344	2074958	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	2074654	2	40	5.0	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2070851	2	39	5.1	5.0	✓
Total Metals in Water by CRC ICPMS	E420	2070578	1	16	6.2	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	2073182	1	20	5.0	5.0	✓
Total Mercury in Water by CVAAS	E508	2078511	2	40	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	2078516	2	40	5.0	5.0	✓
Total Methylmercury in Water by GCAFS	E536	2086068	3	64	4.6	5.0	✗
Dissolved Methylmercury in Water by GCAFS	E537	2086749	1	19	5.2	5.0	✓
Biochemical Oxygen Demand - 5 day	E550	2073307	2	29	6.9	5.0	✓
Laboratory Control Samples (LCS)							
TSS by Gravimetry	E160	2074217	3	47	6.3	5.0	✓
TDS by Gravimetry	E162	2074220	2	36	5.5	5.0	✓
Chloride in Water by IC	E235.Cl	2073945	2	18	11.1	5.0	✓
Fluoride in Water by IC	E235.F	2073403	2	23	8.7	5.0	✓
Nitrite in Water by IC	E235.NO2	2073407	2	26	7.6	5.0	✓
Nitrate in Water by IC	E235.NO3	2073404	2	26	7.6	5.0	✓
Sulfate in Water by IC	E235.SO4	2073405	2	39	5.1	5.0	✓
Acidity by Titration	E283	2073421	1	20	5.0	5.0	✓
Alkalinity Species by Titration	E290	2073424	2	36	5.5	5.0	✓
Ammonia by Fluorescence	E298	2070843	2	29	6.9	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
Laboratory Control Samples (LCS) - Continued							
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	2070848	2	33	6.0	5.0	✔
Total Cyanide	E333	2075185	2	35	5.7	5.0	✔
WAD Cyanide	E336	2075186	2	22	9.0	5.0	✔
Free Cyanide	E339	2075187	2	27	7.4	5.0	✔
Cyanate by Ion Selective Electrode	E343	2093274	1	19	5.2	5.0	✔
Thiocyanate by Colourimetry	E344	2074958	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	2074654	2	40	5.0	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2070851	2	39	5.1	5.0	✔
Total Metals in Water by CRC ICPMS	E420	2070578	1	16	6.2	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	2073182	1	20	5.0	5.0	✔
Total Mercury in Water by CVAAS	E508	2078511	2	40	5.0	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	2078516	2	40	5.0	5.0	✔
Total Methylmercury in Water by GCAFS	E536	2086068	4	64	6.2	5.0	✔
Dissolved Methylmercury in Water by GCAFS	E537	2086749	1	19	5.2	5.0	✔
Biochemical Oxygen Demand - 5 day	E550	2073307	2	29	6.9	5.0	✔
Chlorophyll-a by Fluorometry	E870	2221800	1	8	12.5	5.0	✔
Method Blanks (MB)							
TSS by Gravimetry	E160	2074217	3	47	6.3	5.0	✔
TDS by Gravimetry	E162	2074220	2	36	5.5	5.0	✔
Chloride in Water by IC	E235.Cl	2073945	2	18	11.1	5.0	✔
Fluoride in Water by IC	E235.F	2073403	2	23	8.7	5.0	✔
Nitrite in Water by IC	E235.NO2	2073407	2	26	7.6	5.0	✔
Nitrate in Water by IC	E235.NO3	2073404	2	26	7.6	5.0	✔
Sulfate in Water by IC	E235.SO4	2073405	2	39	5.1	5.0	✔
Acidity by Titration	E283	2073421	1	20	5.0	5.0	✔
Alkalinity Species by Titration	E290	2073424	2	36	5.5	5.0	✔
Ammonia by Fluorescence	E298	2070843	2	29	6.9	5.0	✔
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	2070848	2	33	6.0	5.0	✔
Total Cyanide	E333	2075185	2	35	5.7	5.0	✔
WAD Cyanide	E336	2075186	2	22	9.0	5.0	✔
Free Cyanide	E339	2075187	2	27	7.4	5.0	✔
Cyanate by Ion Selective Electrode	E343	2093274	1	19	5.2	5.0	✔
Thiocyanate by Colourimetry	E344	2074958	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	2074654	2	40	5.0	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2070851	2	39	5.1	5.0	✔
Total Metals in Water by CRC ICPMS	E420	2070578	1	16	6.2	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	2073182	1	20	5.0	5.0	✔
Total Mercury in Water by CVAAS	E508	2078511	2	40	5.0	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	2078516	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							
Total Methylmercury in Water by GCAFS	E536	2086068	4	64	6.2	5.0	✔
Dissolved Methylmercury in Water by GCAFS	E537	2086749	1	19	5.2	5.0	✔
Biochemical Oxygen Demand - 5 day	E550	2073307	2	29	6.9	5.0	✔
Chlorophyll-a by Fluorometry	E870	2221800	1	8	12.5	5.0	✔
Matrix Spikes (MS)							
Chloride in Water by IC	E235.Cl	2073945	2	18	11.1	5.0	✔
Fluoride in Water by IC	E235.F	2073403	2	23	8.7	5.0	✔
Nitrite in Water by IC	E235.NO2	2073407	2	26	7.6	5.0	✔
Nitrate in Water by IC	E235.NO3	2073404	2	26	7.6	5.0	✔
Sulfate in Water by IC	E235.SO4	2073405	2	39	5.1	5.0	✔
Ammonia by Fluorescence	E298	2070843	2	29	6.9	5.0	✔
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	2070848	2	33	6.0	5.0	✔
Total Cyanide	E333	2075185	2	35	5.7	5.0	✔
WAD Cyanide	E336	2075186	2	22	9.0	5.0	✔
Free Cyanide	E339	2075187	2	27	7.4	5.0	✔
Cyanate by Ion Selective Electrode	E343	2093274	1	19	5.2	5.0	✔
Thiocyanate by Colourimetry	E344	2074958	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	2074654	2	40	5.0	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2070851	2	39	5.1	5.0	✔
Total Metals in Water by CRC ICPMS	E420	2070578	1	16	6.2	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	2073182	1	20	5.0	5.0	✔
Total Mercury in Water by CVAAS	E508	2078511	2	40	5.0	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	2078516	2	40	5.0	5.0	✔
Total Methylmercury in Water by GCAFS	E536	2086068	2	64	3.1	5.0	✖
Dissolved Methylmercury in Water by GCAFS	E537	2086749	1	19	5.2	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
TSS by Gravimetry	E160 ALS Environmental - Thunder Bay	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 $104 \pm 1^\circ\text{C}$, 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 - Thunder Bay	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 $180 \pm 2^\circ\text{C}$ for 16 hours or to constant weight, with gravimetric measurement of the residue.
Chloride in Water by IC	E235.Cl ALS Environmental - Thunder Bay	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 - Thunder Bay	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 - Thunder Bay	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 - Thunder Bay	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 - Thunder Bay	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Acidity by Titration	E283 ALS Environmental - Thunder Bay	Water	APHA 2310 B (mod)	Acidity is determined by potentiometric titration to pH endpoint of 8.3
Alkalinity Species by Titration	E290 ALS Environmental - Thunder Bay	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.



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Ammonia by Fluorescence	E298 ALS Environmental - Thunder Bay	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 Kjeldahl Nitrogen by Fluorescence (Low Level)	E318 ALS Environmental - Thunder Bay	Water	Method Fialab 100, 2018	TKN 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 Cyanide	E333 ALS Environmental - Waterloo	Water	ISO 14403 (mod)	Total or Strong Acid Dissociable (SAD) Cyanide is determined by Continuous Flow Analyzer (CFA) with in-line UV digestion followed by colourmetric analysis. Method Limitation: High levels of thiocyanate (SCN) may cause positive interference (up to 0.5% of SCN concentration).
WAD Cyanide	E336 ALS Environmental - Waterloo	Water	APHA 4500-CN I (mod)	Weak Acid Dissociable (WAD) cyanide is determined by Continuous Flow Analyzer (CFA) with in-line distillation followed by colourmetric analysis.
Free Cyanide	E339 ALS Environmental - Waterloo	Water	ASTM D7237 (mod)	Free Cyanide is determined by Continuous Flow Analyzer (CFA) with in-line gas diffusion followed by colourmetric analysis.
Cyanate by Ion Selective Electrode	E343 ALS Environmental - Waterloo	Water	APHA 4500-CN L (mod)	This analysis is carried out using procedures adapted from APHA method 4500-CN "Cyanide". Cyanate is determined by the Cyanate hydrolysis method using an ammonia selective electrode
Thiocyanate by Colourimetry	E344 ALS Environmental - Vancouver	Water	APHA 4500-CN M (mod)	Thiocyanate is determined by the ferric nitrate colourimetric method. Water samples containing high levels of hexavalent chromium, cyanide (together with sulfide), reducing agents, or hydrocarbons may cause negative or positive interferences with this method.
Dissolved Organic Carbon by Combustion (Low Level)	E358-L ALS Environmental - Waterloo	Water	APHA 5310 B (mod)	Dissolved Organic Carbon (Non-Purgeable), also known as NPOC (dissolved), is a direct measurement of DOC after a filtered (0.45 micron) sample has been acidified and purged to remove inorganic carbon (IC). Analysis is by high temperature combustion with infrared detection of CO ₂ . NPOC does not include volatile organic species that are purged off with IC. For samples where the majority of DC (dissolved carbon) is comprised of IC (which is common), this method is more accurate and more reliable than the DOC by subtraction method (i.e. DC minus DIC).
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U ALS Environmental - Thunder Bay	Water	APHA 4500-P E (mod).	Total Phosphorus is determined colourimetrically using a discrete analyzer after heated persulfate digestion of the sample.



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Total Metals in Water by CRC ICPMS	E420 ALS Environmental - Thunder Bay	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 - Thunder Bay	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 - Winnipeg	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 - Winnipeg	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.
Total Methylmercury in Water by GCAFS	E536 ALS Environmental - Vancouver	Water	EPA 1630 (mod)	This method follows Method 1630 of the US EPA. Samples are distilled under an inert gas flow to isolate methylmercury and minimize matrix interferences. The distillate is analyzed by aqueous phase ethylation, purge and trap, desorption and GC separation. The separated species are then pyrolyzed to elemental Hg and quantified by cold vapour atomic fluorescence spectroscopy. Results are reported "as MeHg".
Dissolved Methylmercury in Water by GCAFS	E537 ALS Environmental - Vancouver	Water	EPA 1630 (mod)	This method follows Method 1630 of the US EPA. Samples are distilled under an inert gas flow to isolate methylmercury and minimize matrix interferences. The distillate is analyzed by aqueous phase ethylation, purge and trap, desorption and GC separation. The separated species are then pyrolyzed to elemental Hg and quantified by cold vapour atomic fluorescence spectroscopy. Results are reported "as MeHg".
Biochemical Oxygen Demand - 5 day	E550 ALS Environmental - Thunder Bay	Water	APHA 5210 B (mod)	Samples are diluted and incubated for a specified time period, after which the oxygen depletion is measured using a dissolved oxygen meter. Free chlorine is a negative interference in the BOD method; please advise ALS when free chlorine is present in samples.
Chlorophyll-a by Fluorometry	E870 ALS Environmental - Winnipeg	Water	EPA 445.0 (mod)	Chlorophyll a is determined by solvent extraction followed with analysis by fluorometry using the non-acidification procedure. This method is not subject to interferences from chlorophyll b.
Dissolved Hardness (Calculated)	EC100 ALS Environmental - Thunder Bay	Water	APHA 2340B	"Hardness (as CaCO ₃), dissolved" is calculated from the sum of dissolved Calcium and Magnesium concentrations, expressed in CaCO ₃ 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.



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Un-ionized and Ionized Ammonia (Calculation) (Field Temperature and pH)	EC298A ALS Environmental - Thunder Bay	Water	CCME CWQG Ammonia	Un-ionized ammonia is calculated from test results for total ammonia, field temperature and pH, and is expressed in units of mg/L "as N".
Total Organic Nitrogen (Calculation)	EC363 ALS Environmental - Thunder Bay	Water	APHA 4500-NORG (TKN)/NH3-NITROGEN (NH3)	Total Organic Nitrogen is a calculated parameter. Total Organic Nitrogen = Total Kjeldahl Nitrogen - Ammonia.
Total Nitrogen (calculation)	EC368 ALS Environmental - Thunder Bay	Water	BC MOE LABORATORY MANUAL (2005)	Total Nitrogen is a calculated parameter. Total Nitrogen = Total Kjeldahl Nitrogen + [Nitrate and Nitrite (as N)].
Field pH,EC,Salinity, TDS, Cl ₂ ,ClO ₂ ,ORP,DO, Turbidity,T,T-P,o-PO ₄ ,NH ₃ ,Chloramine	EF001 ALS Environmental - Thunder Bay	Water	Field Measurement (Client Supplied)	Field pH,EC,Salinity, TDS, Cl ₂ ,ClO ₂ ,ORP,DO, Turbidity,T,T-P,o-PO ₄ ,NH ₃ or Chloramine measurements provided by client and recorded on ALS report may affect the validity of results.
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 - Thunder Bay	Water		Sample preparation for Preserved Nutrients Water Quality Analysis.
Digestion for TKN in water	EP318 ALS Environmental - Thunder Bay	Water	APHA 4500-Norg D (mod)	Samples are digested at high temperature using Sulfuric Acid with Copper catalyst, which converts organic nitrogen sources to Ammonia, which is then quantified by the analytical method as TKN. This method is unsuitable for samples containing high levels of nitrate. If nitrate exceeds TKN concentration by ten times or more, results may be biased low.
Preparation for Dissolved Organic Carbon for Combustion	EP358 ALS Environmental - Waterloo	Water	APHA 5310 B (mod)	Preparation for Dissolved Organic Carbon
Digestion for Total Phosphorus in water	EP372 ALS Environmental - Thunder Bay	Water	APHA 4500-P E (mod).	Samples are heated with a persulfate digestion reagent.



<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Dissolved Metals Water Filtration	EP421 ALS Environmental - Thunder Bay	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO ₃ .
Dissolved Mercury Water Filtration	EP509 ALS Environmental - Winnipeg	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HCl.
Total Methylmercury Water Preparation	EP536 ALS Environmental - Vancouver	Water	EPA 1630	This method follows Method 1630 of the US EPA. Samples are distilled under an inert gas flow to isolate methylmercury and minimize matrix interferences. The distillate is analyzed by aqueous phase ethylation, purge and trap, desorption and GC separation. The separated species are then pyrolyzed to elemental Hg and quantified by cold vapour atomic fluorescence spectroscopy. Results are reported "as MeHg".
Dissolved Methylmercury Water Preparation	EP537 ALS Environmental - Vancouver	Water	EPA 1630	This method follows Method 1630 of the US EPA. Samples are distilled under an inert gas flow to isolate methylmercury and minimize matrix interferences. The distillate is analyzed by aqueous phase ethylation, purge and trap, desorption and GC separation. The separated species are then pyrolyzed to elemental Hg and quantified by cold vapour atomic fluorescence spectroscopy. Results are reported "as MeHg".
Chlorophyll-a Extraction	EP870 ALS Environmental - Winnipeg	Water	EPA 445.0 (mod)	Chlorophyll-a solvent extraction.
Chlorophyll-a Extraction (Support Lab Filtered)	EP870B ALS Environmental - Winnipeg	Water	EPA 445.0 (mod)	Chlorophyll-a solvent extraction.



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Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 568 9878

COC Number 22 -

Page 1 of 6

Environmental Division
Thunder Bay
Work Order Reference
TV2506644

Telephone: +1 807 623 6463

Report To Contact and company name below will appear on the final report:		Reports / Recipients		Turnaround Time (TAT) Requested	
Company: G3 Consulting Ltd		Select Report Format: ☒ PDF ☐ EXCEL ☐ DOC (MS/Excel)		☒ Routine (R) if received by 3pm M-F - no surcharge apply	
Contact: Greg Thomas		Merge QC/QC: Reports with COA ☒ YES ☐ NO ☐ N/A		☐ 4 day (P4) if received by 3pm M-F - 20% rush surcharge minimum	
Phone: 504-596-8501		☒ Compare Results to Criteria on Report - provide details below if box checked		☐ 3 day (P3) if received by 3pm M-F - 25% rush surcharge minimum	
Company address below will appear on the final report		Select Distribution: ☒ EMAIL ☐ MAIL ☐ FAX		☐ 2 day (P2) if received by 3pm M-F - 50% rush surcharge minimum	
Street: 206-5501 162 St		Email 1 or Fax: kelson@g3consulting.com; cwilson@g3consulting.com		☐ 1 day (P1) if received by 3pm M-F - 100% rush surcharge minimum	
City/Province: Surrey BC		Email 2: truelove@g3consulting.com; farrar@g3consulting.com		☐ Same day (E3) if received by 10am M-S - 200% rush surcharge	
Postal Code: V4N 1B2		Email 3: gthomas@g3consulting.com		Additional fees may apply to rush requests on weekends and holidays.	
Invoice To: Same as Report To ☐ YES ☒ NO		Invoice Recipients: ☐ EMAIL ☐ MAIL ☐ FAX		Date and Time Required for all tests: TAT: _____	
Copy of Invoice with Report ☐ YES ☒ NO		Select Invoice Distribution: ☒ EMAIL ☐ MAIL ☐ FAX		For all tests with rush TATs required, please contact your PM to confirm availability.	
Company: G3 Consulting Ltd		Email 1 or Fax: info@g3consulting.com		Analysis Request	
Contact:		Email 2: info@g3consulting.com		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (FP) below	
Project Information		Oil and Gas Required Fields (client use)			
ALS Account # / Quote #: WTA083300100 0001		AEC/CAE Code: _____			
Job #: 2502		Routing Code: _____			
PO / A/E: _____		Routing Code: _____			
LSD: _____		Location: _____			
ALS Lab Work Order # (ALS use only): TV2506644		ALS Contact: Emily Smith			
Sample Identification and/or Coordinates (ALS use only): [This description will appear on the report]		Date (dd-mm-yy): 21-June-2025		Time (hh:mm): 8:51	
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161 ZSONG336 FW OL-318		20-June-2025		15:31	
162 ZSONG336 FW OL-318		20-June-2025		15:31	
163 ZSONG336 FW OL-318		20-June-2025		15:31	
164 ZSONG336 FW OL-318		20-June-2025		15:31	
165 ZSONG336 FW OL-318		20-June-2025		15:31	
166 ZSONG336 FW OL-318		20-June-2025		15:31	
167 ZSONG336 FW OL-318		20-June-2025		15:31	
168 ZSONG336 FW OL-318		20-June-2025		15:31	
169 ZSONG336 FW OL-318		20-June-2025		15:31	
170 ZSONG336 FW OL-318					



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Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

COC Number: 22 -

Page 3 of 6

Report To		Reports / Recipients		Turnaround Time (TAT) Requested		AFFIX ALS BARCODE LABEL HERE (ALS use only)	
Company:	G3 Consulting Ltd.	Select Report Format:	☒ PDF ☒ EXCEL ☐ EDD (DIGITAL)	☒ Routine [R] if received by 3pm M-F - no surcharges apply			
Contact:	Greg Thomas	Merge QC/QCI Reports with COA	☒ YES ☐ NO ☐ N/A	☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum			
Phone:	604-598-8501	☒ Compare Results to Criteria on Report - provide details below if box checked		☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum			
Company address below will appear on the final report		Select Distribution:	☒ EMAIL ☐ MAIL ☐ FAX	☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum			
Street:	206-8501 162 St	Email 1 or Fax:	kalfonso@g3consulting.com; cwilson@g3consulting	☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum			
City/Province:	Surrey, BC	Email 2:	mwettengel@g3consulting.com; rfarrell@g3consulting	☐ Same day [E2] if received by 10am M-S - 200% rush surcharge.			
Postal Code:	V4N 1B2	Email 3:	gthomas@g3consulting.com	Additional fees may apply to rush requests on weekends, statutory holidays and for non-routine tests.			
Invoice To:	Same as Report To ☐ YES ☒ NO	Invoice Recipients		Date and Time Required for all E&P TATs: dd-mm-yy hh:mm am/pm			
Copy of Invoice with Report ☐ YES ☒ NO		Select Invoice Distribution: ☒ EMAIL ☐ MAIL ☐ FAX		For all tests with rush TATs requested, please contact your AM to confirm availability.			
Company:	G3 Consulting Ltd.	Email 1 or Fax: sjohnson@g3consulting.com		Analysis Request			
Contact:		Email 2: info@g3consulting.com		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below			
Project Information		Oil and Gas Required Fields (client use)		NUMBER OF CONTAINERS			
ALS Account # / Quote #:	G3CO100	AFE/Cost Center:	PO#	Total Metals, Dissolved Metals, Hardness			
Job #:	2502	Major/Minor Code:	Routing Code:	Total and Dissolved Methylmercury			
PO / AFE:		Requisitioner:		Anions (NO2, NO3, Cl, SO4, F)			
LSD:		Location:		Total and un-ionized ammonia			
ALS Lab Work Order # (ALS use only):		ALS Contact:	Sampler:	TKN, TN			
ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	Total phosphorus		
8	25ONG308 FW HL-250-09-T	20-June-2025	16:02	Water	Radium 226		
	~~25ONG308 FW HL-250-09-M~~	<del>~June-2025</del>		Water	TSS, TDS		
9	25ONG308 FW HL-250-09-B	20-June-2025	15:51	Water	Total & free cyanide & WAD cyanide		
	25ONG308 FW HL-250-11-T	~June-2025		Water	Thiocyanate & Cyanate		
	25ONG308 FW HL-250-11-M	~June-2025		Water	BOD5		
	25ONG308 FW HL-250-11-B	~June-2025		Water	DOC		
	25ONG308 FW HL-500-07-T	~June-2025		Water	Alkalinity & Acidity		
	25ONG308 FW HL-500-07-M	~June-2025		Water	Chlorophyll-a		
	25ONG308 FW HL-500-07-B	~June-2025		Water			
	25ONG308 FW HL-500-11-T	~June-2025		Water			
	25ONG308 FW HL-500-11-M	~June-2025		Water			
	25ONG308 FW HL-500-11-B	~June-2025		Water			
Drinking Water (DW) Samples ¹ (client use)		Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)		SAMPLE RECEIPT DETAILS (ALS use only)			
Are samples taken from a Regulated DW System? ☐ YES ☐ NO		[Combined] - Ontario PWQO+CCME-FAL-WATER		Cooling Method: ☐ NONE ☐ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED			
Are samples for human consumption/ use? ☐ YES ☐ NO		Federal Metal Mining Effluent Regulation (JUN, 2002)		Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO			
				Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A			
				INITIAL COOLER TEMPERATURES °C: FINAL COOLER TEMPERATURES °C:			
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (ALS use only)		FINAL SHIPMENT RECEPTION (ALS use only)			
Released by:	Date:	Time:	Received by:	Date:	Time:		

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white-report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

JAN 2023 F00747

COC Number: **22 -**

Page 4 of 6

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IAN 5023 ERO

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white-report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.



COC Number: 22 -

Page 5 of 6

Canada Toll Free: 1 800 668 9878

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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JAN 2023 6 PM

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

Intake and Login Verification Form

SAMPLE INTAKE					
Priority/Emergency Service Requested		YES	NO		
Time Sensitive Hold Time		YES	NO		
Client:					
SAMPLE RECEIPT INFORMATION					
Mode of Delivery:		Courier	Drop Off		
Courier					
Waybill Number					
Temperature		Cooler Count			
Cooling Method		None	Ice	Ice Packs	
SAMPLE MATRIX/BOTTLE INFORMATION					
Matrix:	Water	Soil	Air	Biota	Other
DW Schedule 24 Bottles Correct?		Yes	No		
DW Metals pH Check <2		Yes	No		
Regulation Circled, Works # present		Yes	No - Reject?		
# of Bottles:	16	Sample Count 16			
Green/white	2X15R, 16 BOD + (1R)				
Purple/white	16 NUT, 16 BOC				
Warm red/white	16 TM, 15 DM, 16 RAD				
Yellow/black	16 T Hg, 16 D Hg				
Light blue/white					
Orange/black					
Others (detail) 16 CYANIDE 15 CYANATE + 2X15 CYANATE 16 DDT meth Hg, 15 Dmeth Hg 8 chlorophyll A					
Comments on Samples and Bottles: Trip Blank - 1 peach nut, 1 nm peach nut, 2 peach metals, 1 Hg, 2 CYANATE					
Samples Requiring Preservation or Filtering:					
Layout Staff Initials		A			
Date and Time of Layout		23-JUN-25 / 1:11			

ACCOUNT INFO VERIFICATION		
Priority/Emergency Service Requested	YES	NO
Confirmed all as accurate as per COC, Sample Remarks or PM		
Client	Work Contact	Quote
RECEIPT DETAIL		
Project	PO	Site/LSD N
Overall Description Entered	Yes	NA
Received date/time as per COC	Yes	
Recipients match CoC or Sample Remarks	Yes	No
Billing Instruction added to remarks	Yes	NA
Sample Remarks/Specification Doc checked	Yes	
Submission Issues communicated	Yes	NA
Sample Info communicated via Remarks	Yes	NA
VERIFICATION CHECKLIST		
Planned Event Submission	Yes	No
Sample Name entered as per CoC	Yes	
Sampling Date and time entered as per CoC	Yes	
Containers selected in layout order	Yes	
Sales items entered from QUOTE ONLY (and/or verified as correct)	Yes	
Field Data/EC298A removed if not on COC	Yes	NA
Bottle Allocation Verified	Yes	
Guideline added or auto-allocated	Yes	
Due dates updated	Yes	
VALIDATION		
Validation errors resolved?	Yes	No
Internal Sublet CoC created	Yes	NA
Login Comments:		
Login Staff Initials: M		

Only 1 cyanide bottle received for all jobs except for trip blank

CERTIFICATE OF ANALYSIS

Work Order	: TY2510702		
Client	: G3 Consulting Ltd.	Laboratory	: ALS Environmental - Thunder Bay
Contact	: Greg Thomas	Account Manager	: Colby Coutu
Address	: 206-8501 162nd St. Surrey British Columbia Canada V4N 1B2	Address	: 1081 Barton Street Thunder Bay ON Canada P7B 5N3
Telephone	: 604 598 8501	E-mail	: colby.coutu@alsglobal.com
Project	: 2502	Telephone	: +1 807 623 6463
PO	: 2502	Date Samples Received	: 19-Sep-2025 16:51
C-O-C number	: ----	Date Analysis Commenced	: 23-Sep-2025
Sampler	: ----	Issue Date	: 07-Jan-2026 13:43
Site	: ----		
Quote number	: Dubreuilville Project		
No. of samples received	: 11		
No. of samples analysed	: 11		

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.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Cassandra Grzelewski	Team Leader - Inorganics	Inorganics, Thunder Bay, Ontario
Julie Ruoho	Account Manager	External Subcontracting, Saskatoon, Saskatchewan
Julie Ruoho	Teamleader Wet Chem	Administration, Thunder Bay, Ontario
Julie Ruoho	Teamleader Wet Chem	Inorganics, Thunder Bay, Ontario
Julie Ruoho	Teamleader Wet Chem	Metals, Thunder Bay, Ontario
Kevin Baxter	Supervisor - Inorganic	Inorganics, Winnipeg, Manitoba
Kevin Baxter	Supervisor - Inorganic	Administration, Winnipeg, Manitoba
Kim Jensen	Department Manager - Metals	Metals, Burnaby, British Columbia
Nik Perkio	Senior Analyst	Inorganics, Waterloo, Ontario
Shannon Veltri	Supervisor - Water Chemistry	Metals, Thunder Bay, Ontario
Shannon Veltri	Supervisor - Water Chemistry	Inorganics, Thunder Bay, Ontario



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).

Unit	Description
°C	degrees celsius
Bq/L	becquerels per litre
L	litres
mg/L	milligrams per litre
ng/L	nanograms per litre
pH units	pH units
µg/L	micrograms per litre
µg/sample	micrograms per sample

<: less than.

>: greater than.

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.

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.





Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Sub-Matrix: Water (Matrix: Water)					Client sample ID	25ONG309 OL-100-M ----	25ONG309 OL-250-M ----	25ONG309 HL-100-07-T ----	25ONG309 HL-100-09-T ----	25ONG309 HL-100-11-T ----
Client sampling date / time					18-Sep-2025 11:58	17-Sep-2025 17:10	18-Sep-2025 11:02	18-Sep-2025 09:21	18-Sep-2025 10:55	
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510702-001	TY2510702-002	TY2510702-003	TY2510702-004	TY2510702-005	
					Result	Result	Result	Result	Result	
Field Tests										
pH, field	----	EF001/TY	0.01	pH units	7.91	7.93	----	7.49	----	
Temperature, field	----	EF001/TY	0.01	°C	18.7	18.6	----	12.4	----	
Sampling volume, field	----	EF003/WP	0.010	L	----	----	----	0.300	----	
Physical Tests										
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/TY	0.50	mg/L	202	202	95.6	94.2	93.8	
Solids, total dissolved [TDS]	----	E162/TY	10	mg/L	282	274	130	136	124	
Solids, total suspended [TSS]	----	E160/TY	3.0	mg/L	<3.0	<3.0	<3.0	<3.0	3.3	
Alkalinity, total (as CaCO3)	----	E290/TY	2.0	mg/L	126	126	77.0	75.4	75.8	
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/TY	0.0050	mg/L	0.0469	0.0411	0.0419	0.0121	0.0149	
Ammonia, un-ionized (as N), field	7664-41-7	EC298A/TY	0.0010	mg/L	0.0013	0.0012	----	<0.0010	----	
Bromide	24959-67-9	E235.Br/TY	0.10	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	
Chloride	16887-00-6	E235.Cl/TY	0.50	mg/L	8.24	8.39	3.53	3.35	3.39	
Fluoride	16984-48-8	E235.F/TY	0.020	mg/L	0.052	0.052	0.040	0.051	0.040	
Kjeldahl nitrogen, total [TKN]	----	E318/TY	0.050	mg/L	0.678	0.727	0.473	0.488	0.477	
Nitrate (as N)	14797-55-8	E235.NO3/TY	0.020	mg/L	3.86	3.95	0.595	0.503	0.521	
Nitrite (as N)	14797-65-0	E235.NO2/TY	0.010	mg/L	0.018	0.019	<0.010	<0.010	<0.010	
Nitrogen, total	7727-37-9	EC368/TY	0.050	mg/L	4.56	4.70	1.07	0.991	0.998	
Nitrogen, total organic	----	EC363/TY	0.050	mg/L	0.631	0.686	0.431	0.476	0.462	
Phosphorus, total	7723-14-0	E372-U/TY	0.0020	mg/L	0.0095	0.0096	0.0079	0.0076	0.0089	
Sulfate (as SO4)	14808-79-8	E235.SO4/TY	0.30	mg/L	88.7	89.5	27.3	25.3	25.6	



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Sub-Matrix: Water (Matrix: Water)					Client sample ID	25ONG309 OL-100-M ----	25ONG309 OL-250-M ----	25ONG309 HL-100-07-T ----	25ONG309 HL-100-09-T ----	25ONG309 HL-100-11-T ----
Client sampling date / time					18-Sep-2025 11:58	17-Sep-2025 17:10	18-Sep-2025 11:02	18-Sep-2025 09:21	18-Sep-2025 10:55	
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510702-001	TY2510702-002	TY2510702-003	TY2510702-004	TY2510702-005	
					Result	Result	Result	Result	Result	
Cyanides										
Cyanide, free	----	E339/WT	0.0020	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	
Cyanide, strong acid dissociable (Total)	----	E333/WT	0.0020	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	
Cyanide, weak acid dissociable	----	E336/WT	0.0020	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	
Organic / Inorganic Carbon										
Carbon, total organic [TOC]	----	E355-L/TY	0.50	mg/L	8.77	8.80	8.46	8.52	8.77	
Total Metals										
Aluminum, total	7429-90-5	E420/TY	0.0030	mg/L	0.0097	0.0087	0.0111	0.0122	0.0120	
Antimony, total	7440-36-0	E420/TY	0.00010	mg/L	0.00023	0.00023	<0.00010	<0.00010	<0.00010	
Arsenic, total	7440-38-2	E420/TY	0.00010	mg/L	0.00061	0.00067	0.00067	0.00066	0.00068	
Barium, total	7440-39-3	E420/TY	0.00010	mg/L	0.0314	0.0318	0.0161	0.0154	0.0152	
Beryllium, total	7440-41-7	E420/TY	0.000020	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	
Bismuth, total	7440-69-9	E420/TY	0.000050	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	
Boron, total	7440-42-8	E420/TY	0.010	mg/L	0.024	0.030	0.014	0.013	0.012	
Cadmium, total	7440-43-9	E420/TY	0.0000050	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	
Calcium, total	7440-70-2	E420/TY	0.050	mg/L	66.8	66.4	32.1	31.9	31.6	
Cesium, total	7440-46-2	E420/TY	0.000010	mg/L	0.000178	0.000173	0.000071	0.000074	0.000074	
Chromium, total	7440-47-3	E420/TY	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	0.00186	
Cobalt, total	7440-48-4	E420/TY	0.00010	mg/L	0.00054	0.00056	0.00020	0.00017	0.00022	
Copper, total	7440-50-8	E420/TY	0.00050	mg/L	0.00157	0.00184	0.00088	0.00085	0.00095	
Iron, total	7439-89-6	E420/TY	0.010	mg/L	0.020	0.019	<0.010	<0.010	0.025	
Lead, total	7439-92-1	E420/TY	0.000050	mg/L	0.000073	0.000368	<0.000050	<0.000050	<0.000050	



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Sub-Matrix: Water (Matrix: Water)					Client sample ID	25ONG309 OL-100-M ----	25ONG309 OL-250-M ----	25ONG309 HL-100-07-T ----	25ONG309 HL-100-09-T ----	25ONG309 HL-100-11-T ----
Client sampling date / time					18-Sep-2025 11:58	17-Sep-2025 17:10	18-Sep-2025 11:02	18-Sep-2025 09:21	18-Sep-2025 10:55	
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510702-001	TY2510702-002	TY2510702-003	TY2510702-004	TY2510702-005	
					Result	Result	Result	Result	Result	
Total Metals										
Lithium, total	7439-93-2	E420/TY	0.0010	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Magnesium, total	7439-95-4	E420/TY	0.0050	mg/L	8.46	8.85	3.74	3.53	3.62	
Manganese, total	7439-96-5	E420/TY	0.00010	mg/L	0.0204	0.0191	0.00908	0.00992	0.00992	
Mercury, total	7439-97-6	E508-L/VA	0.50	ng/L	0.72	0.73	0.67	0.58	0.63	
Molybdenum, total	7439-98-7	E420/TY	0.000050	mg/L	0.00222	0.00228	0.000729	0.000691	0.000723	
Nickel, total	7440-02-0	E420/TY	0.00050	mg/L	0.00050	0.00055	<0.00050	<0.00050	0.00190	
Phosphorus, total	7723-14-0	E420/TY	0.050	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	
Potassium, total	7440-09-7	E420/TY	0.050	mg/L	4.01	3.98	1.84	1.75	1.76	
Rubidium, total	7440-17-7	E420/TY	0.00020	mg/L	0.00715	0.00720	0.00375	0.00352	0.00330	
Selenium, total	7782-49-2	E420/TY	0.000050	mg/L	0.000136	0.000178	0.000090	0.000105	0.000079	
Silicon, total	7440-21-3	E420/TY	0.10	mg/L	1.97	1.91	1.19	1.25	1.20	
Silver, total	7440-22-4	E420/TY	0.000010	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	
Sodium, total	7440-23-5	E420/TY	0.050	mg/L	13.1	13.0	5.36	4.98	4.99	
Strontium, total	7440-24-6	E420/TY	0.00020	mg/L	0.249	0.249	0.158	0.158	0.163	
Sulfur, total	7704-34-9	E420/TY	0.50	mg/L	31.3	31.0	9.27	9.05	9.14	
Tellurium, total	13494-80-9	E420/TY	0.00020	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Thallium, total	7440-28-0	E420/TY	0.000010	mg/L	<0.000010	0.000012	<0.000010	<0.000010	<0.000010	
Thorium, total	7440-29-1	E420/TY	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Tin, total	7440-31-5	E420/TY	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Titanium, total	7440-32-6	E420/TY	0.00030	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	
Tungsten, total	7440-33-7	E420/TY	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG309 OL-100-M	25ONG309 OL-250-M	25ONG309 HL-100-07-T	25ONG309 HL-100-09-T	25ONG309 HL-100-11-T
					Client sampling date / time	18-Sep-2025 11:58	17-Sep-2025 17:10	18-Sep-2025 11:02	18-Sep-2025 09:21	18-Sep-2025 10:55
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510702-001	TY2510702-002	TY2510702-003	TY2510702-004	TY2510702-005
						Result	Result	Result	Result	Result
Total Metals										
Uranium, total	7440-61-1	E420/TY	0.000010	mg/L		0.000877	0.000896	0.000303	0.000286	0.000285
Vanadium, total	7440-62-2	E420/TY	0.00050	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Zinc, total	7440-66-6	E420/TY	0.0030	mg/L		<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Zirconium, total	7440-67-7	E420/TY	0.00020	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Plant Pigments										
Chlorophyll a	479-61-8	EC870A/WP	0.010	µg/L		----	----	----	2.71	----
Chlorophyll a	479-61-8	E870A/WP	0.0020	µg/sample		----	----	----	0.813	----
Radiological Parameters										
Radium-226	13982-63-3	Ra-226/2l	0.005	Bq/L		<0.005	<0.005	<0.005	<0.005	<0.005

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

Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG309 HL-250-11-T	25ONG309 HL-250-11-B	25ONG309 HL-250-09-T	25ONG309 HL-250-09-B	25ONG309 HL-500-07-T
					Client sampling date / time	17-Sep-2025 15:36	17-Sep-2025 15:07	17-Sep-2025 16:14	17-Sep-2025 15:51	17-Sep-2025 16:47
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510702-006	TY2510702-007	TY2510702-008	TY2510702-009	TY2510702-010
						Result	Result	Result	Result	Result
Physical Tests										
Hardness (as CaCO ₃), from total Ca/Mg	----	EC100A/TY	0.50	mg/L		96.1	95.3	93.8	80.3	92.4
Solids, total dissolved [TDS]	----	E162/TY	10	mg/L		127	120	130	106	130
Solids, total suspended [TSS]	----	E160/TY	3.0	mg/L		<3.0	<3.0	<3.0	<3.0	<3.0
Alkalinity, total (as CaCO ₃)	----	E290/TY	2.0	mg/L		77.0	77.0	77.3	74.1	75.9



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG309 HL-250-11-T	25ONG309 HL-250-11-B	25ONG309 HL-250-09-T	25ONG309 HL-250-09-B	25ONG309 HL-500-07-T
					Client sampling date / time	17-Sep-2025 15:36	17-Sep-2025 15:07	17-Sep-2025 16:14	17-Sep-2025 15:51	17-Sep-2025 16:47
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510702-006	TY2510702-007	TY2510702-008	TY2510702-009	TY2510702-010
						Result	Result	Result	Result	Result
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/TY	0.0050	mg/L		0.0123	0.0370	0.0118	0.0076	0.0117
Bromide	24959-67-9	E235.Br/TY	0.10	mg/L		<0.10	<0.10	<0.10	<0.10	<0.10
Chloride	16887-00-6	E235.Cl/TY	0.50	mg/L		3.62	3.29	3.58	2.23	3.40
Fluoride	16984-48-8	E235.F/TY	0.020	mg/L		0.045	0.040	0.044	0.047	0.050
Kjeldahl nitrogen, total [TKN]	----	E318/TY	0.050	mg/L		0.444	0.407	0.434	0.293	0.452
Nitrate (as N)	14797-55-8	E235.NO3/TY	0.020	mg/L		0.609	0.566	0.643	0.358	0.560
Nitrite (as N)	14797-65-0	E235.NO2/TY	0.010	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010
Nitrogen, total	7727-37-9	EC368/TY	0.050	mg/L		1.05	0.973	1.08	0.651	1.01
Nitrogen, total organic	----	EC363/TY	0.050	mg/L		0.432	0.370	0.422	0.285	0.440
Phosphorus, total	7723-14-0	E372-U/TY	0.0020	mg/L		0.0068	0.0065	0.0065	0.0062	0.0068
Sulfate (as SO4)	14808-79-8	E235.SO4/TY	0.30	mg/L		27.6	25.4	28.1	14.0	26.3
Cyanides										
Cyanide, free	----	E339/WT	0.0020	mg/L		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cyanide, strong acid dissociable (Total)	----	E333/WT	0.0020	mg/L		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cyanide, weak acid dissociable	----	E336/WT	0.0020	mg/L		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Organic / Inorganic Carbon										
Carbon, total organic [TOC]	----	E355-L/TY	0.50	mg/L		8.74	8.36	8.54	6.67	8.51
Total Metals										
Aluminum, total	7429-90-5	E420/TY	0.0030	mg/L		0.0119	0.0105	0.0123	<0.0030	0.0116
Antimony, total	7440-36-0	E420/TY	0.00010	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Arsenic, total	7440-38-2	E420/TY	0.00010	mg/L		0.00066	0.00063	0.00067	0.00065	0.00066



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG309 HL-250-11-T	25ONG309 HL-250-11-B	25ONG309 HL-250-09-T	25ONG309 HL-250-09-B	25ONG309 HL-500-07-T
					Client sampling date / time	17-Sep-2025 15:36	17-Sep-2025 15:07	17-Sep-2025 16:14	17-Sep-2025 15:51	17-Sep-2025 16:47
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510702-006	TY2510702-007	TY2510702-008	TY2510702-009	TY2510702-010
						Result	Result	Result	Result	Result
Total Metals										
Barium, total	7440-39-3	E420/TY	0.00010	mg/L		0.0158	0.0155	0.0162	0.0137	0.0153
Beryllium, total	7440-41-7	E420/TY	0.000020	mg/L		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Bismuth, total	7440-69-9	E420/TY	0.000050	mg/L		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Boron, total	7440-42-8	E420/TY	0.010	mg/L		0.012	<0.010	0.010	<0.010	<0.010
Cadmium, total	7440-43-9	E420/TY	0.0000050	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Calcium, total	7440-70-2	E420/TY	0.050	mg/L		32.3	32.1	31.3	27.2	31.0
Cesium, total	7440-46-2	E420/TY	0.000010	mg/L		0.000072	0.000070	0.000074	0.000054	0.000069
Chromium, total	7440-47-3	E420/TY	0.00050	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt, total	7440-48-4	E420/TY	0.00010	mg/L		0.00020	0.00018	0.00019	0.00013	0.00018
Copper, total	7440-50-8	E420/TY	0.00050	mg/L		0.00130	0.00089	0.00204	0.00051	0.00089
Iron, total	7439-89-6	E420/TY	0.010	mg/L		<0.010	0.013	<0.010	0.034	<0.010
Lead, total	7439-92-1	E420/TY	0.000050	mg/L		0.000349	0.000129	0.000363	<0.000050	0.000100
Lithium, total	7439-93-2	E420/TY	0.0010	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Magnesium, total	7439-95-4	E420/TY	0.0050	mg/L		3.75	3.68	3.80	3.01	3.63
Manganese, total	7439-96-5	E420/TY	0.00010	mg/L		0.00872	0.0150	0.00903	0.0802	0.00858
Mercury, total	7439-97-6	E508-L/VA	0.50	ng/L		0.61	0.63	0.72	<0.50	0.58
Molybdenum, total	7439-98-7	E420/TY	0.000050	mg/L		0.000702	0.000651	0.000715	0.000376	0.000674
Nickel, total	7440-02-0	E420/TY	0.00050	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Phosphorus, total	7723-14-0	E420/TY	0.050	mg/L		<0.050	<0.050	<0.050	<0.050	<0.050
Potassium, total	7440-09-7	E420/TY	0.050	mg/L		1.85	1.84	1.87	1.65	1.79
Rubidium, total	7440-17-7	E420/TY	0.00020	mg/L		0.00362	0.00359	0.00368	0.00338	0.00344



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Sub-Matrix: Water (Matrix: Water)					Client sample ID	25ONG309 HL-250-11-T ----	25ONG309 HL-250-11-B ----	25ONG309 HL-250-09-T ----	25ONG309 HL-250-09-B ----	25ONG309 HL-500-07-T ----
Client sampling date / time					17-Sep-2025 15:36	17-Sep-2025 15:07	17-Sep-2025 16:14	17-Sep-2025 15:51	17-Sep-2025 16:47	
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510702-006	TY2510702-007	TY2510702-008	TY2510702-009	TY2510702-010	
					Result	Result	Result	Result	Result	
Total Metals										
Selenium, total	7782-49-2	E420/TY	0.000050	mg/L	0.000084	0.000107	0.000071	0.000082	0.000075	
Silicon, total	7440-21-3	E420/TY	0.10	mg/L	1.18	1.39	1.22	2.73	1.19	
Silver, total	7440-22-4	E420/TY	0.000010	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	
Sodium, total	7440-23-5	E420/TY	0.050	mg/L	5.32	5.07	5.29	3.70	5.12	
Strontium, total	7440-24-6	E420/TY	0.00020	mg/L	0.158	0.158	0.157	0.145	0.157	
Sulfur, total	7704-34-9	E420/TY	0.50	mg/L	9.51	8.97	9.46	4.76	9.14	
Tellurium, total	13494-80-9	E420/TY	0.00020	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Thallium, total	7440-28-0	E420/TY	0.000010	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	
Thorium, total	7440-29-1	E420/TY	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Tin, total	7440-31-5	E420/TY	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Titanium, total	7440-32-6	E420/TY	0.00030	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	
Tungsten, total	7440-33-7	E420/TY	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Uranium, total	7440-61-1	E420/TY	0.000010	mg/L	0.000299	0.000280	0.000306	0.000191	0.000286	
Vanadium, total	7440-62-2	E420/TY	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
Zinc, total	7440-66-6	E420/TY	0.0030	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	
Zirconium, total	7440-67-7	E420/TY	0.00020	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Radiological Parameters										
Radium-226	13982-63-3	Ra-226/2l	0.005	Bq/L	<0.005	<0.005	<0.005	<0.005	<0.005	

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



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					25ONG309 HL-500-07-B	----	----	----	----
Client sampling date / time					17-Sep-2025 16:27	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510702-011	----	----	----	----
					Result	----	----	----	----
Physical Tests									
Hardness (as CaCO ₃), from total Ca/Mg	----	EC100A/TY	0.50	mg/L	79.0	----	----	----	----
Solids, total dissolved [TDS]	----	E162/TY	10	mg/L	115	----	----	----	----
Solids, total suspended [TSS]	----	E160/TY	3.0	mg/L	<3.0	----	----	----	----
Alkalinity, total (as CaCO ₃)	----	E290/TY	2.0	mg/L	72.4	----	----	----	----
Anions and Nutrients									
Ammonia, total (as N)	7664-41-7	E298/TY	0.0050	mg/L	<0.0050	----	----	----	----
Bromide	24959-67-9	E235.Br/TY	0.10	mg/L	<0.10	----	----	----	----
Chloride	16887-00-6	E235.Cl/TY	0.50	mg/L	2.25	----	----	----	----
Fluoride	16984-48-8	E235.F/TY	0.020	mg/L	0.044	----	----	----	----
Kjeldahl nitrogen, total [TKN]	----	E318/TY	0.050	mg/L	0.315	----	----	----	----
Nitrate (as N)	14797-55-8	E235.NO3/TY	0.020	mg/L	0.355	----	----	----	----
Nitrite (as N)	14797-65-0	E235.NO2/TY	0.010	mg/L	<0.010	----	----	----	----
Nitrogen, total	7727-37-9	EC368/TY	0.050	mg/L	0.670	----	----	----	----
Nitrogen, total organic	----	EC363/TY	0.050	mg/L	0.315	----	----	----	----
Phosphorus, total	7723-14-0	E372-U/TY	0.0020	mg/L	0.0114	----	----	----	----
Sulfate (as SO ₄)	14808-79-8	E235.SO4/TY	0.30	mg/L	14.3	----	----	----	----
Cyanides									
Cyanide, free	----	E339/WT	0.0020	mg/L	<0.0020	----	----	----	----
Cyanide, strong acid dissociable (Total)	----	E333/WT	0.0020	mg/L	<0.0020	----	----	----	----
Cyanide, weak acid dissociable	----	E336/WT	0.0020	mg/L	<0.0020	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					25ONG309 HL-500-07-B	----	----	----	----
Client sampling date / time					17-Sep-2025 16:27	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510702-011	----	----	----	----
					Result	----	----	----	----
Organic / Inorganic Carbon									
Carbon, total organic [TOC]	----	E355-L/TY	0.50	mg/L	6.56	----	----	----	----
Total Metals									
Aluminum, total	7429-90-5	E420/TY	0.0030	mg/L	0.0033	----	----	----	----
Antimony, total	7440-36-0	E420/TY	0.00010	mg/L	<0.00010	----	----	----	----
Arsenic, total	7440-38-2	E420/TY	0.00010	mg/L	0.00055	----	----	----	----
Barium, total	7440-39-3	E420/TY	0.00010	mg/L	0.0142	----	----	----	----
Beryllium, total	7440-41-7	E420/TY	0.000020	mg/L	<0.000020	----	----	----	----
Bismuth, total	7440-69-9	E420/TY	0.000050	mg/L	<0.000050	----	----	----	----
Boron, total	7440-42-8	E420/TY	0.010	mg/L	<0.010	----	----	----	----
Cadmium, total	7440-43-9	E420/TY	0.0000050	mg/L	<0.0000050	----	----	----	----
Calcium, total	7440-70-2	E420/TY	0.050	mg/L	26.8	----	----	----	----
Cesium, total	7440-46-2	E420/TY	0.000010	mg/L	0.000054	----	----	----	----
Chromium, total	7440-47-3	E420/TY	0.00050	mg/L	<0.00050	----	----	----	----
Cobalt, total	7440-48-4	E420/TY	0.00010	mg/L	0.00013	----	----	----	----
Copper, total	7440-50-8	E420/TY	0.00050	mg/L	0.00055	----	----	----	----
Iron, total	7439-89-6	E420/TY	0.010	mg/L	0.036	----	----	----	----
Lead, total	7439-92-1	E420/TY	0.000050	mg/L	0.000050	----	----	----	----
Lithium, total	7439-93-2	E420/TY	0.0010	mg/L	<0.0010	----	----	----	----
Magnesium, total	7439-95-4	E420/TY	0.0050	mg/L	2.94	----	----	----	----
Manganese, total	7439-96-5	E420/TY	0.00010	mg/L	0.0609	----	----	----	----
Mercury, total	7439-97-6	E508-L/VA	0.50	ng/L	<0.50	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					25ONG309 HL-500-07-B	----	----	----	----
Client sampling date / time					17-Sep-2025 16:27	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510702-011	----	----	----	----
					Result	----	----	----	----
Total Metals									
Molybdenum, total	7439-98-7	E420/TY	0.000050	mg/L	0.000383	----	----	----	----
Nickel, total	7440-02-0	E420/TY	0.00050	mg/L	<0.00050	----	----	----	----
Phosphorus, total	7723-14-0	E420/TY	0.050	mg/L	<0.050	----	----	----	----
Potassium, total	7440-09-7	E420/TY	0.050	mg/L	1.59	----	----	----	----
Rubidium, total	7440-17-7	E420/TY	0.00020	mg/L	0.00329	----	----	----	----
Selenium, total	7782-49-2	E420/TY	0.000050	mg/L	0.000074	----	----	----	----
Silicon, total	7440-21-3	E420/TY	0.10	mg/L	2.53	----	----	----	----
Silver, total	7440-22-4	E420/TY	0.000010	mg/L	<0.000010	----	----	----	----
Sodium, total	7440-23-5	E420/TY	0.050	mg/L	3.74	----	----	----	----
Strontium, total	7440-24-6	E420/TY	0.00020	mg/L	0.144	----	----	----	----
Sulfur, total	7704-34-9	E420/TY	0.50	mg/L	4.94	----	----	----	----
Tellurium, total	13494-80-9	E420/TY	0.00020	mg/L	<0.00020	----	----	----	----
Thallium, total	7440-28-0	E420/TY	0.000010	mg/L	<0.000010	----	----	----	----
Thorium, total	7440-29-1	E420/TY	0.00010	mg/L	<0.00010	----	----	----	----
Tin, total	7440-31-5	E420/TY	0.00010	mg/L	<0.00010	----	----	----	----
Titanium, total	7440-32-6	E420/TY	0.00030	mg/L	<0.00030	----	----	----	----
Tungsten, total	7440-33-7	E420/TY	0.00010	mg/L	<0.00010	----	----	----	----
Uranium, total	7440-61-1	E420/TY	0.000010	mg/L	0.000187	----	----	----	----
Vanadium, total	7440-62-2	E420/TY	0.00050	mg/L	<0.00050	----	----	----	----
Zinc, total	7440-66-6	E420/TY	0.0030	mg/L	<0.0030	----	----	----	----
Zirconium, total	7440-67-7	E420/TY	0.00020	mg/L	<0.00020	----	----	----	----



Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Client sample ID					25ONG309 HL-500-07-B	----	----	----	----
Client sampling date / time					17-Sep-2025 16:27	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510702-011	----	----	----	----
					Result	----	----	----	----
Radiological Parameters									
Radium-226	13982-63-3	Ra-226/2l	0.005	Bq/L	<0.005	----	----	----	----

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

Quality Control Interpretive Report

Work Order : **TY2510702**

Client : G3 Consulting Ltd.
Contact : Greg Thomas
Address : 206-8501 162nd St.
Surrey BC Canada V4N 1B2
Telephone : 604 598 8501
Project : 2502
PO : 2502
C-O-C number : ----
Sampler : ----
Site : ----
Quote number : Dubreuilville Project
No. of samples received : 11
No. of samples analysed : 11

Laboratory : ALS Environmental - Thunder Bay
Account Manager : Colby Coutu
Address : 1081 Barton Street
Thunder Bay ON Canada P7B 5N3
Telephone : +1 807 623 6463
Date Samples Received : 19-Sep-2025 16:51
Issue Date : 07-Jan-2026 13:42

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 Services 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 Laboratory Control Sample Duplicate (LCSD) outliers occur
- No Matrix Spike outliers occur.
- No Matrix Spike Duplicate (MSD) 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)

- No Analysis Holding Time Outliers exist.

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	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Anions and Nutrients : Ammonia by Fluorescence												
Amber glass total (sulfuric acid) [ON MECP]												
25ONG309 OL-100-M	001	2234831	E298	18-Sep-2025	23-Sep-2025	28 days	5 days	✔	25-Sep-2025	28 days	7 days	✔
25ONG309 OL-250-M	002	2234831	E298	17-Sep-2025	23-Sep-2025	28 days	6 days	✔	25-Sep-2025	28 days	8 days	✔
25ONG309 HL-100-07-T	003	2234831	E298	18-Sep-2025	23-Sep-2025	28 days	5 days	✔	25-Sep-2025	28 days	7 days	✔
25ONG309 HL-100-09-T	004	2234831	E298	18-Sep-2025	23-Sep-2025	28 days	5 days	✔	25-Sep-2025	28 days	7 days	✔
25ONG309 HL-100-11-T	005	2234831	E298	18-Sep-2025	23-Sep-2025	28 days	5 days	✔	25-Sep-2025	28 days	7 days	✔
25ONG309 HL-250-11-T	006	2234831	E298	17-Sep-2025	23-Sep-2025	28 days	6 days	✔	25-Sep-2025	28 days	8 days	✔
25ONG309 HL-250-11-B	007	2234831	E298	17-Sep-2025	23-Sep-2025	28 days	6 days	✔	25-Sep-2025	28 days	8 days	✔
25ONG309 HL-250-09-T	008	2234831	E298	17-Sep-2025	23-Sep-2025	28 days	6 days	✔	25-Sep-2025	28 days	8 days	✔
25ONG309 HL-250-09-B	009	2234831	E298	17-Sep-2025	23-Sep-2025	28 days	6 days	✔	25-Sep-2025	28 days	8 days	✔
25ONG309 HL-500-07-T	010	2234831	E298	17-Sep-2025	23-Sep-2025	28 days	6 days	✔	25-Sep-2025	28 days	8 days	✔
25ONG309 HL-500-07-B	011	2234831	E298	17-Sep-2025	23-Sep-2025	28 days	6 days	✔	25-Sep-2025	28 days	8 days	✔



Matrix: Water

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Anions and Nutrients : Bromide in Water by IC												
HDPE [ON MECP]												
25ONG309 OL-100-M	001	2234737	E235.Br	18-Sep-2025	23-Sep-2025	28 days	5 days	✓	23-Sep-2025	28 days	5 days	✓
25ONG309 OL-250-M	002	2234737	E235.Br	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-100-07-T	003	2234737	E235.Br	18-Sep-2025	23-Sep-2025	28 days	5 days	✓	23-Sep-2025	28 days	5 days	✓
25ONG309 HL-100-09-T	004	2234742	E235.Br	18-Sep-2025	23-Sep-2025	28 days	5 days	✓	23-Sep-2025	28 days	5 days	✓
25ONG309 HL-100-11-T	005	2234742	E235.Br	18-Sep-2025	23-Sep-2025	28 days	5 days	✓	23-Sep-2025	28 days	5 days	✓
25ONG309 HL-250-11-T	006	2234742	E235.Br	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-250-11-B	007	2234742	E235.Br	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-250-09-T	008	2234742	E235.Br	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-250-09-B	009	2234742	E235.Br	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-500-07-T	010	2234742	E235.Br	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-500-07-B	011	2234742	E235.Br	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC												
HDPE [ON MECP]												
25ONG309 OL-100-M	001	2234734	E235.Cl	18-Sep-2025	23-Sep-2025	28 days	5 days	✓	23-Sep-2025	28 days	5 days	✓
25ONG309 OL-250-M	002	2234734	E235.Cl	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-100-07-T	003	2234734	E235.Cl	18-Sep-2025	23-Sep-2025	28 days	5 days	✓	23-Sep-2025	28 days	5 days	✓
25ONG309 HL-100-09-T	004	2234746	E235.Cl	18-Sep-2025	23-Sep-2025	28 days	5 days	✓	23-Sep-2025	28 days	5 days	✓
25ONG309 HL-100-11-T	005	2234746	E235.Cl	18-Sep-2025	23-Sep-2025	28 days	5 days	✓	23-Sep-2025	28 days	5 days	✓



Matrix: Water

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Anions and Nutrients : Chloride in Water by IC												
HDPE [ON MECP]												
25ONG309 HL-250-11-T	006	2234746	E235.Cl	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-250-11-B	007	2234746	E235.Cl	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-250-09-T	008	2234746	E235.Cl	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-250-09-B	009	2234746	E235.Cl	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-500-07-T	010	2234746	E235.Cl	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-500-07-B	011	2234746	E235.Cl	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Fluoride in Water by IC												
HDPE [ON MECP]												
25ONG309 OL-100-M	001	2234735	E235.F	18-Sep-2025	23-Sep-2025	28 days	5 days	✓	23-Sep-2025	28 days	5 days	✓
25ONG309 OL-250-M	002	2234735	E235.F	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-100-07-T	003	2234735	E235.F	18-Sep-2025	23-Sep-2025	28 days	5 days	✓	23-Sep-2025	28 days	5 days	✓
25ONG309 HL-100-09-T	004	2234743	E235.F	18-Sep-2025	23-Sep-2025	28 days	5 days	✓	23-Sep-2025	28 days	5 days	✓
25ONG309 HL-100-11-T	005	2234743	E235.F	18-Sep-2025	23-Sep-2025	28 days	5 days	✓	23-Sep-2025	28 days	5 days	✓
25ONG309 HL-250-11-T	006	2234743	E235.F	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-250-11-B	007	2234743	E235.F	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-250-09-T	008	2234743	E235.F	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-250-09-B	009	2234743	E235.F	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-500-07-T	010	2234743	E235.F	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓



Matrix: Water

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Anions and Nutrients : Fluoride in Water by IC												
HDPE [ON MECP]												
25ONG309 HL-500-07-B	011	2234743	E235.F	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Nitrate in Water by IC												
HDPE [ON MECP]												
25ONG309 OL-100-M	001	2234731	E235.NO3	18-Sep-2025	23-Sep-2025	7 days	5 days	✓	23-Sep-2025	7 days	5 days	✓
25ONG309 OL-250-M	002	2234731	E235.NO3	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓
25ONG309 HL-100-07-T	003	2234731	E235.NO3	18-Sep-2025	23-Sep-2025	7 days	5 days	✓	23-Sep-2025	7 days	5 days	✓
25ONG309 HL-100-09-T	004	2234744	E235.NO3	18-Sep-2025	23-Sep-2025	7 days	5 days	✓	23-Sep-2025	7 days	5 days	✓
25ONG309 HL-100-11-T	005	2234744	E235.NO3	18-Sep-2025	23-Sep-2025	7 days	5 days	✓	23-Sep-2025	7 days	5 days	✓
25ONG309 HL-250-11-T	006	2234744	E235.NO3	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓
25ONG309 HL-250-11-B	007	2234744	E235.NO3	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓
25ONG309 HL-250-09-T	008	2234744	E235.NO3	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓
25ONG309 HL-250-09-B	009	2234744	E235.NO3	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓
25ONG309 HL-500-07-T	010	2234744	E235.NO3	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓
25ONG309 HL-500-07-B	011	2234744	E235.NO3	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓
Anions and Nutrients : Nitrite in Water by IC												
HDPE [ON MECP]												
25ONG309 OL-100-M	001	2234730	E235.NO2	18-Sep-2025	23-Sep-2025	7 days	5 days	✓	23-Sep-2025	7 days	5 days	✓
25ONG309 OL-250-M	002	2234730	E235.NO2	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓
25ONG309 HL-100-07-T	003	2234730	E235.NO2	18-Sep-2025	23-Sep-2025	7 days	5 days	✓	23-Sep-2025	7 days	5 days	✓



Matrix: Water

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Anions and Nutrients : Nitrite in Water by IC												
HDPE [ON MECP]												
25ONG309 HL-100-09-T	004	2234745	E235.NO2	18-Sep-2025	23-Sep-2025	7 days	5 days	✔	23-Sep-2025	7 days	5 days	✔
25ONG309 HL-100-11-T	005	2234745	E235.NO2	18-Sep-2025	23-Sep-2025	7 days	5 days	✔	23-Sep-2025	7 days	5 days	✔
25ONG309 HL-250-11-T	006	2234745	E235.NO2	17-Sep-2025	23-Sep-2025	7 days	6 days	✔	23-Sep-2025	7 days	6 days	✔
25ONG309 HL-250-11-B	007	2234745	E235.NO2	17-Sep-2025	23-Sep-2025	7 days	6 days	✔	23-Sep-2025	7 days	6 days	✔
25ONG309 HL-250-09-T	008	2234745	E235.NO2	17-Sep-2025	23-Sep-2025	7 days	6 days	✔	23-Sep-2025	7 days	6 days	✔
25ONG309 HL-250-09-B	009	2234745	E235.NO2	17-Sep-2025	23-Sep-2025	7 days	6 days	✔	23-Sep-2025	7 days	6 days	✔
25ONG309 HL-500-07-T	010	2234745	E235.NO2	17-Sep-2025	23-Sep-2025	7 days	6 days	✔	23-Sep-2025	7 days	6 days	✔
25ONG309 HL-500-07-B	011	2234745	E235.NO2	17-Sep-2025	23-Sep-2025	7 days	6 days	✔	23-Sep-2025	7 days	6 days	✔
Anions and Nutrients : Sulfate in Water by IC												
HDPE [ON MECP]												
25ONG309 OL-100-M	001	2234732	E235.SO4	18-Sep-2025	23-Sep-2025	28 days	5 days	✔	23-Sep-2025	28 days	5 days	✔
25ONG309 OL-250-M	002	2234732	E235.SO4	17-Sep-2025	23-Sep-2025	28 days	6 days	✔	23-Sep-2025	28 days	6 days	✔
25ONG309 HL-100-07-T	003	2234732	E235.SO4	18-Sep-2025	23-Sep-2025	28 days	5 days	✔	23-Sep-2025	28 days	5 days	✔
25ONG309 HL-100-09-T	004	2234747	E235.SO4	18-Sep-2025	23-Sep-2025	28 days	5 days	✔	23-Sep-2025	28 days	5 days	✔
25ONG309 HL-100-11-T	005	2234747	E235.SO4	18-Sep-2025	23-Sep-2025	28 days	5 days	✔	23-Sep-2025	28 days	5 days	✔
25ONG309 HL-250-11-T	006	2234747	E235.SO4	17-Sep-2025	23-Sep-2025	28 days	6 days	✔	23-Sep-2025	28 days	6 days	✔
25ONG309 HL-250-11-B	007	2234747	E235.SO4	17-Sep-2025	23-Sep-2025	28 days	6 days	✔	23-Sep-2025	28 days	6 days	✔
25ONG309 HL-250-09-T	008	2234747	E235.SO4	17-Sep-2025	23-Sep-2025	28 days	6 days	✔	23-Sep-2025	28 days	6 days	✔



Matrix: Water

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Anions and Nutrients : Sulfate in Water by IC												
HDPE [ON MECP]												
25ONG309 HL-250-09-B	009	2234747	E235.SO4	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-500-07-T	010	2234747	E235.SO4	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-500-07-B	011	2234747	E235.SO4	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)												
Amber glass total (sulfuric acid) [ON MECP]												
25ONG309 OL-100-M	001	2234602	E318	18-Sep-2025	23-Sep-2025	28 days	5 days	✓	23-Sep-2025	28 days	5 days	✓
25ONG309 OL-250-M	002	2234602	E318	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-100-07-T	003	2234602	E318	18-Sep-2025	23-Sep-2025	28 days	5 days	✓	23-Sep-2025	28 days	5 days	✓
25ONG309 HL-100-09-T	004	2234602	E318	18-Sep-2025	23-Sep-2025	28 days	5 days	✓	23-Sep-2025	28 days	5 days	✓
25ONG309 HL-100-11-T	005	2234602	E318	18-Sep-2025	23-Sep-2025	28 days	5 days	✓	23-Sep-2025	28 days	5 days	✓
25ONG309 HL-250-11-T	006	2234602	E318	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-250-11-B	007	2234602	E318	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-250-09-T	008	2234602	E318	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-250-09-B	009	2234602	E318	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-500-07-T	010	2234602	E318	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-500-07-B	011	2234602	E318	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)												
Amber glass total (sulfuric acid) [ON MECP]												
25ONG309 OL-100-M	001	2234835	E372-U	18-Sep-2025	25-Sep-2025	28 days	7 days	✓	25-Sep-2025	28 days	7 days	✓



Matrix: Water

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method					Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
Client sample ID						Rec	Actual			Rec	Actual	
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)												
Amber glass total (sulfuric acid) [ON MECP]												
25ONG309 OL-250-M	002	2234835	E372-U	17-Sep-2025	25-Sep-2025	28 days	8 days	✓	25-Sep-2025	28 days	8 days	✓
25ONG309 HL-100-07-T	003	2234835	E372-U	18-Sep-2025	25-Sep-2025	28 days	7 days	✓	25-Sep-2025	28 days	7 days	✓
25ONG309 HL-100-09-T	004	2234835	E372-U	18-Sep-2025	25-Sep-2025	28 days	7 days	✓	25-Sep-2025	28 days	7 days	✓
25ONG309 HL-100-11-T	005	2234835	E372-U	18-Sep-2025	25-Sep-2025	28 days	7 days	✓	25-Sep-2025	28 days	7 days	✓
25ONG309 HL-250-11-T	006	2234835	E372-U	17-Sep-2025	25-Sep-2025	28 days	8 days	✓	25-Sep-2025	28 days	8 days	✓
25ONG309 HL-250-11-B	007	2234835	E372-U	17-Sep-2025	25-Sep-2025	28 days	8 days	✓	25-Sep-2025	28 days	8 days	✓
25ONG309 HL-250-09-T	008	2234835	E372-U	17-Sep-2025	25-Sep-2025	28 days	8 days	✓	25-Sep-2025	28 days	8 days	✓
25ONG309 HL-250-09-B	009	2234835	E372-U	17-Sep-2025	25-Sep-2025	28 days	8 days	✓	25-Sep-2025	28 days	8 days	✓
25ONG309 HL-500-07-T	010	2234835	E372-U	17-Sep-2025	25-Sep-2025	28 days	8 days	✓	25-Sep-2025	28 days	8 days	✓
25ONG309 HL-500-07-B	011	2234835	E372-U	17-Sep-2025	25-Sep-2025	28 days	8 days	✓	25-Sep-2025	28 days	8 days	✓
Cyanides : Free Cyanide												
Opaque HDPE - total (sodium hydroxide)												
25ONG309 OL-100-M	001	2242645	E339	18-Sep-2025	30-Sep-2025	14 days	12 days	✓	30-Sep-2025	14 days	12 days	✓
25ONG309 OL-250-M	002	2242645	E339	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
25ONG309 HL-100-07-T	003	2242645	E339	18-Sep-2025	30-Sep-2025	14 days	12 days	✓	30-Sep-2025	14 days	12 days	✓
25ONG309 HL-100-09-T	004	2242645	E339	18-Sep-2025	30-Sep-2025	14 days	12 days	✓	30-Sep-2025	14 days	12 days	✓
25ONG309 HL-100-11-T	005	2242645	E339	18-Sep-2025	30-Sep-2025	14 days	12 days	✓	30-Sep-2025	14 days	12 days	✓
25ONG309 HL-250-11-T	006	2242645	E339	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓



Matrix: Water

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Cyanides : Free Cyanide												
Opaque HDPE - total (sodium hydroxide)												
25ONG309 HL-250-11-B	007	2242645	E339	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
25ONG309 HL-250-09-T	008	2242645	E339	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
25ONG309 HL-250-09-B	009	2242645	E339	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
25ONG309 HL-500-07-T	010	2242645	E339	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
25ONG309 HL-500-07-B	011	2242645	E339	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : Total Cyanide												
Opaque HDPE - total (sodium hydroxide)												
25ONG309 OL-100-M	001	2242643	E333	18-Sep-2025	30-Sep-2025	14 days	12 days	✓	30-Sep-2025	14 days	12 days	✓
25ONG309 OL-250-M	002	2242643	E333	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
25ONG309 HL-100-07-T	003	2242643	E333	18-Sep-2025	30-Sep-2025	14 days	12 days	✓	30-Sep-2025	14 days	12 days	✓
25ONG309 HL-100-09-T	004	2242643	E333	18-Sep-2025	30-Sep-2025	14 days	12 days	✓	30-Sep-2025	14 days	12 days	✓
25ONG309 HL-100-11-T	005	2242643	E333	18-Sep-2025	30-Sep-2025	14 days	12 days	✓	30-Sep-2025	14 days	12 days	✓
25ONG309 HL-250-11-T	006	2242643	E333	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
25ONG309 HL-250-11-B	007	2242643	E333	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
25ONG309 HL-250-09-T	008	2242643	E333	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
25ONG309 HL-250-09-B	009	2242643	E333	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
25ONG309 HL-500-07-T	010	2242643	E333	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
25ONG309 HL-500-07-B	011	2242643	E333	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓



Matrix: Water

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Cyanides : WAD Cyanide												
Opaque HDPE - total (sodium hydroxide)												
25ONG309 OL-100-M	001	2242644	E336	18-Sep-2025	30-Sep-2025	14 days	12 days	✓	30-Sep-2025	14 days	12 days	✓
25ONG309 OL-250-M	002	2242644	E336	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
25ONG309 HL-100-07-T	003	2242644	E336	18-Sep-2025	30-Sep-2025	14 days	12 days	✓	30-Sep-2025	14 days	12 days	✓
25ONG309 HL-100-09-T	004	2242644	E336	18-Sep-2025	30-Sep-2025	14 days	12 days	✓	30-Sep-2025	14 days	12 days	✓
25ONG309 HL-100-11-T	005	2242644	E336	18-Sep-2025	30-Sep-2025	14 days	12 days	✓	30-Sep-2025	14 days	12 days	✓
25ONG309 HL-250-11-T	006	2242644	E336	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
25ONG309 HL-250-11-B	007	2242644	E336	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
25ONG309 HL-250-09-T	008	2242644	E336	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
25ONG309 HL-250-09-B	009	2242644	E336	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
25ONG309 HL-500-07-T	010	2242644	E336	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
25ONG309 HL-500-07-B	011	2242644	E336	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Field Tests : Field pH,EC,Salinity, TDS, Cl2,CIO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine												
HDPE total (nitric acid)												
25ONG309 OL-100-M	001		EF001	18-Sep-2025	----	----	----		23-Sep-2025	----	----	
25ONG309 OL-250-M	002		EF001	17-Sep-2025	----	----	----		23-Sep-2025	----	----	
25ONG309 HL-100-09-T	004		EF001	18-Sep-2025	----	----	----		23-Sep-2025	----	----	
Field Tests : Field Volume (L)												
Opaque HDPE tube												
25ONG309 HL-100-09-T	004		EF003	18-Sep-2025	----	----	----		26-Sep-2025	----	----	



Matrix: Water

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Organic / Inorganic Carbon : Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)												
Amber glass total (sulfuric acid) [ON MECP]												
25ONG309 OL-100-M	001	2234828	E355-L	18-Sep-2025	23-Sep-2025	28 days	5 days	✓	23-Sep-2025	28 days	5 days	✓
25ONG309 OL-250-M	002	2234828	E355-L	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-100-07-T	003	2234828	E355-L	18-Sep-2025	23-Sep-2025	28 days	5 days	✓	23-Sep-2025	28 days	5 days	✓
25ONG309 HL-100-09-T	004	2234828	E355-L	18-Sep-2025	23-Sep-2025	28 days	5 days	✓	23-Sep-2025	28 days	5 days	✓
25ONG309 HL-100-11-T	005	2234828	E355-L	18-Sep-2025	23-Sep-2025	28 days	5 days	✓	23-Sep-2025	28 days	5 days	✓
25ONG309 HL-250-11-T	006	2234828	E355-L	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-250-11-B	007	2234828	E355-L	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-250-09-T	008	2234828	E355-L	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-250-09-B	009	2234828	E355-L	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-500-07-T	010	2234828	E355-L	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
25ONG309 HL-500-07-B	011	2234828	E355-L	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Physical Tests : Alkalinity Species by Titration												
HDPE [ON MECP]												
25ONG309 OL-100-M	001	2234753	E290	18-Sep-2025	23-Sep-2025	14 days	5 days	✓	23-Sep-2025	14 days	5 days	✓
25ONG309 OL-250-M	002	2234753	E290	17-Sep-2025	23-Sep-2025	14 days	6 days	✓	23-Sep-2025	14 days	6 days	✓
25ONG309 HL-100-07-T	003	2234753	E290	18-Sep-2025	23-Sep-2025	14 days	5 days	✓	23-Sep-2025	14 days	5 days	✓
25ONG309 HL-100-09-T	004	2234753	E290	18-Sep-2025	23-Sep-2025	14 days	5 days	✓	23-Sep-2025	14 days	5 days	✓
25ONG309 HL-100-11-T	005	2234753	E290	18-Sep-2025	23-Sep-2025	14 days	5 days	✓	23-Sep-2025	14 days	5 days	✓



Matrix: Water

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Physical Tests : Alkalinity Species by Titration												
HDPE [ON MECP]												
25ONG309 HL-250-11-T	006	2234754	E290	17-Sep-2025	23-Sep-2025	14 days	6 days	✔	23-Sep-2025	14 days	6 days	✔
25ONG309 HL-250-11-B	007	2234754	E290	17-Sep-2025	23-Sep-2025	14 days	6 days	✔	23-Sep-2025	14 days	6 days	✔
25ONG309 HL-250-09-T	008	2234754	E290	17-Sep-2025	23-Sep-2025	14 days	6 days	✔	23-Sep-2025	14 days	6 days	✔
25ONG309 HL-250-09-B	009	2234754	E290	17-Sep-2025	23-Sep-2025	14 days	6 days	✔	23-Sep-2025	14 days	6 days	✔
25ONG309 HL-500-07-T	010	2234754	E290	17-Sep-2025	23-Sep-2025	14 days	6 days	✔	23-Sep-2025	14 days	6 days	✔
25ONG309 HL-500-07-B	011	2234754	E290	17-Sep-2025	23-Sep-2025	14 days	6 days	✔	23-Sep-2025	14 days	6 days	✔
Physical Tests : TDS by Gravimetry												
HDPE [ON MECP]												
25ONG309 OL-100-M	001	2234490	E162	18-Sep-2025	----	----	----		23-Sep-2025	7 days	5 days	✔
25ONG309 OL-250-M	002	2234490	E162	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✔
25ONG309 HL-100-07-T	003	2234490	E162	18-Sep-2025	----	----	----		23-Sep-2025	7 days	5 days	✔
25ONG309 HL-100-09-T	004	2234490	E162	18-Sep-2025	----	----	----		23-Sep-2025	7 days	5 days	✔
25ONG309 HL-100-11-T	005	2234490	E162	18-Sep-2025	----	----	----		23-Sep-2025	7 days	5 days	✔
25ONG309 HL-250-11-T	006	2234490	E162	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✔
25ONG309 HL-250-11-B	007	2234490	E162	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✔
25ONG309 HL-250-09-T	008	2234490	E162	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✔
25ONG309 HL-250-09-B	009	2234490	E162	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✔
25ONG309 HL-500-07-T	010	2234490	E162	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✔



Matrix: Water

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Physical Tests : TDS by Gravimetry												
HDPE [ON MECP]												
25ONG309 HL-500-07-B	011	2234658	E162	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✔
Physical Tests : TSS by Gravimetry												
HDPE [ON MECP]												
25ONG309 OL-100-M	001	2234489	E160	18-Sep-2025	----	----	----		23-Sep-2025	7 days	5 days	✔
25ONG309 OL-250-M	002	2234489	E160	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✔
25ONG309 HL-100-07-T	003	2234489	E160	18-Sep-2025	----	----	----		23-Sep-2025	7 days	5 days	✔
25ONG309 HL-100-09-T	004	2234489	E160	18-Sep-2025	----	----	----		23-Sep-2025	7 days	5 days	✔
25ONG309 HL-100-11-T	005	2234489	E160	18-Sep-2025	----	----	----		23-Sep-2025	7 days	5 days	✔
25ONG309 HL-250-11-T	006	2234489	E160	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✔
25ONG309 HL-250-11-B	007	2234489	E160	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✔
25ONG309 HL-250-09-T	008	2234489	E160	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✔
25ONG309 HL-250-09-B	009	2234489	E160	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✔
25ONG309 HL-500-07-T	010	2234489	E160	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✔
25ONG309 HL-500-07-B	011	2234661	E160	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✔
Plant Pigments : Chlorophyll-a by Fluorometry (Field Filtered µg)												
Opaque HDPE tube												
25ONG309 HL-100-09-T	004	2243034	E870A	18-Sep-2025	26-Sep-2025	28 days	8 days	✔	26-Sep-2025	28 days	0 days	✔



Matrix: Water

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method					Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
Client sample ID						Rec	Actual			Rec	Actual	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)												
HDPE total (nitric acid)												
25ONG309 OL-100-M	001		Ra-226	18-Sep-2025	----	----	----		08-Oct-2025	----	----	
25ONG309 OL-250-M	002		Ra-226	17-Sep-2025	----	----	----		08-Oct-2025	----	----	
25ONG309 HL-100-07-T	003		Ra-226	18-Sep-2025	----	----	----		08-Oct-2025	----	----	
25ONG309 HL-100-09-T	004		Ra-226	18-Sep-2025	----	----	----		08-Oct-2025	----	----	
25ONG309 HL-100-11-T	005		Ra-226	18-Sep-2025	----	----	----		08-Oct-2025	----	----	
25ONG309 HL-250-11-T	006		Ra-226	17-Sep-2025	----	----	----		08-Oct-2025	----	----	
25ONG309 HL-250-11-B	007		Ra-226	17-Sep-2025	----	----	----		08-Oct-2025	----	----	
25ONG309 HL-250-09-T	008		Ra-226	17-Sep-2025	----	----	----		08-Oct-2025	----	----	
25ONG309 HL-250-09-B	009		Ra-226	17-Sep-2025	----	----	----		08-Oct-2025	----	----	
25ONG309 HL-500-07-T	010		Ra-226	17-Sep-2025	----	----	----		08-Oct-2025	----	----	
25ONG309 HL-500-07-B	011		Ra-226	17-Sep-2025	----	----	----		08-Oct-2025	----	----	
Total Metals : Total Mercury in Water by CVAFS (Low Level, LOR = 0.5 ppt)												
Pre-cleaned clear glass - total (lab preserved)												
25ONG309 OL-100-M	001	2245888	E508-L	18-Sep-2025	27-Sep-2025	28 days	9 days	✓	27-Sep-2025	28 days	9 days	✓
25ONG309 OL-250-M	002	2245888	E508-L	17-Sep-2025	27-Sep-2025	28 days	10 days	✓	27-Sep-2025	28 days	10 days	✓
25ONG309 HL-100-07-T	003	2245888	E508-L	18-Sep-2025	27-Sep-2025	28 days	9 days	✓	27-Sep-2025	28 days	9 days	✓
25ONG309 HL-100-09-T	004	2245888	E508-L	18-Sep-2025	27-Sep-2025	28 days	9 days	✓	27-Sep-2025	28 days	9 days	✓
25ONG309 HL-100-11-T	005	2245888	E508-L	18-Sep-2025	27-Sep-2025	28 days	9 days	✓	27-Sep-2025	28 days	9 days	✓
25ONG309 HL-250-11-T	006	2245888	E508-L	17-Sep-2025	27-Sep-2025	28 days	10 days	✓	27-Sep-2025	28 days	10 days	✓



Matrix: Water

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Total Metals : Total Mercury in Water by CVAFS (Low Level, LOR = 0.5 ppt)												
Pre-cleaned clear glass - total (lab preserved)												
25ONG309 HL-250-11-B	007	2245888	E508-L	17-Sep-2025	27-Sep-2025	28 days	10 days	✓	27-Sep-2025	28 days	10 days	✓
25ONG309 HL-250-09-T	008	2245888	E508-L	17-Sep-2025	27-Sep-2025	28 days	10 days	✓	27-Sep-2025	28 days	10 days	✓
25ONG309 HL-250-09-B	009	2245888	E508-L	17-Sep-2025	27-Sep-2025	28 days	10 days	✓	27-Sep-2025	28 days	10 days	✓
25ONG309 HL-500-07-T	010	2245888	E508-L	17-Sep-2025	27-Sep-2025	28 days	10 days	✓	27-Sep-2025	28 days	10 days	✓
25ONG309 HL-500-07-B	011	2245888	E508-L	17-Sep-2025	27-Sep-2025	28 days	10 days	✓	27-Sep-2025	28 days	10 days	✓
Total Metals : Total Metals in Water by CRC ICPMS												
HDPE total (nitric acid)												
25ONG309 OL-100-M	001	2234839	E420	18-Sep-2025	23-Sep-2025	180 days	5 days	✓	23-Sep-2025	180 days	5 days	✓
25ONG309 OL-250-M	002	2234839	E420	17-Sep-2025	23-Sep-2025	180 days	6 days	✓	23-Sep-2025	180 days	6 days	✓
25ONG309 HL-100-07-T	003	2234839	E420	18-Sep-2025	23-Sep-2025	180 days	5 days	✓	23-Sep-2025	180 days	5 days	✓
25ONG309 HL-100-09-T	004	2234839	E420	18-Sep-2025	23-Sep-2025	180 days	5 days	✓	23-Sep-2025	180 days	5 days	✓
25ONG309 HL-100-11-T	005	2234839	E420	18-Sep-2025	23-Sep-2025	180 days	5 days	✓	23-Sep-2025	180 days	5 days	✓
25ONG309 HL-250-11-T	006	2234839	E420	17-Sep-2025	23-Sep-2025	180 days	6 days	✓	23-Sep-2025	180 days	6 days	✓
25ONG309 HL-250-11-B	007	2234839	E420	17-Sep-2025	23-Sep-2025	180 days	6 days	✓	23-Sep-2025	180 days	6 days	✓
25ONG309 HL-250-09-T	008	2234839	E420	17-Sep-2025	23-Sep-2025	180 days	6 days	✓	23-Sep-2025	180 days	6 days	✓
25ONG309 HL-250-09-B	009	2234839	E420	17-Sep-2025	23-Sep-2025	180 days	6 days	✓	23-Sep-2025	180 days	6 days	✓
25ONG309 HL-500-07-T	010	2234839	E420	17-Sep-2025	23-Sep-2025	180 days	6 days	✓	23-Sep-2025	180 days	6 days	✓
25ONG309 HL-500-07-B	011	2234839	E420	17-Sep-2025	23-Sep-2025	180 days	6 days	✓	23-Sep-2025	180 days	6 days	✓



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)							
TSS by Gravimetry	E160	2234489	2	25	8.0	5.0	✔
TDS by Gravimetry	E162	2234490	2	29	6.9	5.0	✔
Bromide in Water by IC	E235.Br	2234737	2	22	9.1	5.0	✔
Chloride in Water by IC	E235.Cl	2234734	2	24	8.3	5.0	✔
Fluoride in Water by IC	E235.F	2234735	2	28	7.1	5.0	✔
Nitrite in Water by IC	E235.NO2	2234730	2	40	5.0	5.0	✔
Nitrate in Water by IC	E235.NO3	2234731	2	40	5.0	5.0	✔
Sulfate in Water by IC	E235.SO4	2234732	2	37	5.4	5.0	✔
Alkalinity Species by Titration	E290	2234753	2	35	5.7	5.0	✔
Ammonia by Fluorescence	E298	2234831	1	20	5.0	5.0	✔
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	2234602	1	12	8.3	5.0	✔
Total Cyanide	E333	2242643	1	19	5.3	5.0	✔
WAD Cyanide	E336	2242644	1	11	9.1	5.0	✔
Free Cyanide	E339	2242645	1	12	8.3	5.0	✔
Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)	E355-L	2234828	1	20	5.0	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2234835	1	20	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	2234839	1	20	5.0	5.0	✔
Total Mercury in Water by CVAFS (Low Level, LOR = 0.5 ppt)	E508-L	2245888	1	20	5.0	5.0	✔
Laboratory Control Samples (LCS)							
TSS by Gravimetry	E160	2234489	2	25	8.0	5.0	✔
TDS by Gravimetry	E162	2234490	2	29	6.9	5.0	✔
Bromide in Water by IC	E235.Br	2234737	2	22	9.1	5.0	✔
Chloride in Water by IC	E235.Cl	2234734	2	24	8.3	5.0	✔
Fluoride in Water by IC	E235.F	2234735	2	28	7.1	5.0	✔
Nitrite in Water by IC	E235.NO2	2234730	2	40	5.0	5.0	✔
Nitrate in Water by IC	E235.NO3	2234731	2	40	5.0	5.0	✔
Sulfate in Water by IC	E235.SO4	2234732	2	37	5.4	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
Laboratory Control Samples (LCS)							
Alkalinity Species by Titration	E290	2234753	2	35	5.7	5.0	✔
Ammonia by Fluorescence	E298	2234831	1	20	5.0	5.0	✔
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	2234602	1	12	8.3	5.0	✔
Total Cyanide	E333	2242643	1	19	5.3	5.0	✔
WAD Cyanide	E336	2242644	1	11	9.1	5.0	✔
Free Cyanide	E339	2242645	1	12	8.3	5.0	✔
Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)	E355-L	2234828	1	20	5.0	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2234835	1	20	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	2234839	1	20	5.0	5.0	✔
Total Mercury in Water by CVAFS (Low Level, LOR = 0.5 ppt)	E508-L	2245888	1	20	5.0	5.0	✔
Chlorophyll-a by Fluorometry (Field Filtered µg)	E870A	2243034	1	1	100.0	5.0	✔
Method Blanks (MB)							
TSS by Gravimetry	E160	2234489	2	25	8.0	5.0	✔
TDS by Gravimetry	E162	2234490	2	29	6.9	5.0	✔
Bromide in Water by IC	E235.Br	2234737	2	22	9.1	5.0	✔
Chloride in Water by IC	E235.Cl	2234734	2	24	8.3	5.0	✔
Fluoride in Water by IC	E235.F	2234735	2	28	7.1	5.0	✔
Nitrite in Water by IC	E235.NO2	2234730	2	40	5.0	5.0	✔
Nitrate in Water by IC	E235.NO3	2234731	2	40	5.0	5.0	✔
Sulfate in Water by IC	E235.SO4	2234732	2	37	5.4	5.0	✔
Alkalinity Species by Titration	E290	2234753	2	35	5.7	5.0	✔
Ammonia by Fluorescence	E298	2234831	1	20	5.0	5.0	✔
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	2234602	1	12	8.3	5.0	✔
Total Cyanide	E333	2242643	1	19	5.3	5.0	✔
WAD Cyanide	E336	2242644	1	11	9.1	5.0	✔
Free Cyanide	E339	2242645	1	12	8.3	5.0	✔
Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)	E355-L	2234828	1	20	5.0	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2234835	1	20	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	2234839	1	20	5.0	5.0	✔
Total Mercury in Water by CVAFS (Low Level, LOR = 0.5 ppt)	E508-L	2245888	1	20	5.0	5.0	✔



Matrix: Water

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification

Quality Control Sample Type			Count		Frequency (%)		
<i>Analytical Methods</i>	<i>Method</i>	<i>QC Lot #</i>	<i>QC</i>	<i>Regular</i>	<i>Actual</i>	<i>Expected</i>	<i>Evaluation</i>
Method Blanks (MB)							
Chlorophyll-a by Fluorometry (Field Filtered µg)	E870A	2243034	1	1	100.0	5.0	✔
Matrix Spikes (MS)							
Bromide in Water by IC	E235.Br	2234737	2	22	9.1	5.0	✔
Chloride in Water by IC	E235.Cl	2234734	2	24	8.3	5.0	✔
Fluoride in Water by IC	E235.F	2234735	2	28	7.1	5.0	✔
Nitrite in Water by IC	E235.NO2	2234730	2	40	5.0	5.0	✔
Nitrate in Water by IC	E235.NO3	2234731	2	40	5.0	5.0	✔
Sulfate in Water by IC	E235.SO4	2234732	2	37	5.4	5.0	✔
Ammonia by Fluorescence	E298	2234831	1	20	5.0	5.0	✔
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	2234602	1	12	8.3	5.0	✔
Total Cyanide	E333	2242643	1	19	5.3	5.0	✔
WAD Cyanide	E336	2242644	1	11	9.1	5.0	✔
Free Cyanide	E339	2242645	1	12	8.3	5.0	✔
Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)	E355-L	2234828	1	20	5.0	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2234835	1	20	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	2234839	1	20	5.0	5.0	✔
Total Mercury in Water by CVAFS (Low Level, LOR = 0.5 ppt)	E508-L	2245888	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
Alkalinity Species by Titration	E290 ALS Environmental - Thunder Bay	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 - Thunder Bay	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)
Bromide in Water by IC	E235.Br ALS Environmental - Thunder Bay	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Chloride in Water by IC	E235.Cl ALS Environmental - Thunder Bay	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Chlorophyll-a by Fluorometry (Field Filtered µg)	E870A ALS Environmental - Thunder Bay	Water	EPA 445.0 (mod)	Chlorophyll-a is determined by solvent extraction followed with analysis by fluorometry using the non-acidification procedure. Sampling volume not provided by client.
Chlorophyll-a by Fluorometry (Field Filtered µg/L)	EC870A ALS Environmental - Thunder Bay	Water	CALC	Convert results to sample concentration based on field information.
Conductivity Screen (Internal Use Only)	ES100 ALS Environmental - Thunder Bay	Water	APHA 2510 (mod)	Qualitative analysis of conductivity where required during preparation of other tests - e.g. TDS, metals, etc.
Field pH,EC,Salinity, TDS, Cl ₂ ,ClO ₂ ,ORP,DO, Turbidity,T,T-P,o-PO ₄ ,NH ₃ ,Chloramine	EF001 ALS Environmental - Thunder Bay	Water	Field Measurement (Client Supplied)	Field pH,EC,Salinity, TDS, Cl ₂ ,ClO ₂ ,ORP,DO, Turbidity,T,T-P,o-PO ₄ ,NH ₃ or Chloramine measurements provided by client and recorded on ALS report may affect the validity of results.
Field Volume (L)	EF003 ALS Environmental - Thunder Bay	Water		Field measurement of sampling volume provided by client and recorded on ALS report may affect the validity of results.
Fluoride in Water by IC	E235.F ALS Environmental - Thunder Bay	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Free Cyanide	E339 ALS Environmental - Thunder Bay	Water	ASTM D7237 (mod)	Free Cyanide is determined by Continuous Flow Analyzer (CFA) with in-line gas diffusion followed by colourmetric analysis.
Hardness (Calculated) from Total Ca/Mg	EC100A ALS Environmental - Thunder Bay	Water	APHA 2340B	"Hardness (as CaCO ₃), from total Ca/Mg" is calculated from the sum of total Calcium and Magnesium concentrations, expressed as CaCO ₃ 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 hardness is a property of water due to dissolved divalent cations. In non-turbid waters, Hardness from total Ca/Mg is normally comparable to Dissolved Hardness, but may be biased high if particulate forms of Ca or Mg are present.



Nitrate in Water by IC	E235.NO3 ALS Environmental - Thunder Bay	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 - Thunder Bay	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)	Ra-226 ALS Environmental - Thunder Bay - 1081 Barton Street, Thunder Bay, ON	Water		See attached report.
Sulfate in Water by IC	E235.SO4 ALS Environmental - Thunder Bay	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
TDS by Gravimetry	E162 ALS Environmental - Thunder Bay	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 $180 \pm 2^{\circ}\text{C}$ for 16 hours or to constant weight, with gravimetric measurement of the residue.
Total Cyanide	E333 ALS Environmental - Thunder Bay	Water	ISO 14403 (mod)	Total or Strong Acid Dissociable (SAD) Cyanide is determined by Continuous Flow Analyzer (CFA) with in-line UV digestion followed by colourimetric analysis. Method Limitation: High levels of thiocyanate (SCN) may cause positive interference (up to 0.5% of SCN concentration).
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318 ALS Environmental - Thunder Bay	Water	Method Fialab 100, 2018	TKN 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 Mercury in Water by CVAFS (Low Level, LOR = 0.5 ppt)	E508-L ALS Environmental - Thunder Bay	Water	EPA 1631E (mod)	Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAFS.
Total Metals in Water by CRC ICPMS	E420 ALS Environmental - Thunder Bay	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.
Total Nitrogen (calculation)	EC368 ALS Environmental - Thunder Bay	Water	BC MOE LABORATORY MANUAL (2005)	Total Nitrogen is a calculated parameter. Total Nitrogen = Total Kjeldahl Nitrogen + [Nitrate and Nitrite (as N)].
Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)	E355-L ALS Environmental - Thunder Bay	Water	APHA 5310 B (mod)	Total Organic Carbon (Non-Purgeable), also known as NPOC (total), is a direct measurement of TOC after an acidified sample has been purged to remove carbonate-based Inorganic Carbon (IC). Analysis is by high temperature combustion with infrared detection of CO_2 . Forms of carbon associated with inorganic or organic molecules (e.g. SCN and CN) are included in NPOC if they are not removed by purging under acidic conditions. Notably, NPOC excludes most volatile organic compounds and free cyanide. For samples where the majority of Total Carbon is inorganic, this method provides greater accuracy and reliability versus the TOC by subtraction method (TC minus TIC).
Total Organic Nitrogen (Calculation)	EC363 ALS Environmental - Thunder Bay	Water	APHA 4500-NORG (TKN)/NH3-NITROGEN (NH3)	Total Organic Nitrogen is a calculated parameter. Total Organic Nitrogen = Total Kjeldahl Nitrogen - Ammonia.
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U ALS Environmental - Thunder Bay	Water	APHA 4500-P E (mod).	Total Phosphorus is determined colourimetrically using a discrete analyzer after heated persulfate digestion of the sample.



TSS by Gravimetry	E160 ALS Environmental - Thunder Bay	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 $104 \pm 1^{\circ}\text{C}$, 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.
Un-ionized and Ionized Ammonia (Calculation) (Field Temperature and pH)	EC298A ALS Environmental - Thunder Bay	Water	CCME CWQG Ammonia	Un-ionized ammonia is calculated from test results for total ammonia, field temperature and pH, and is expressed in units of mg/L "as N".
WAD Cyanide	E336 ALS Environmental - Thunder Bay	Water	APHA 4500-CN I (mod)	Weak Acid Dissociable (WAD) cyanide is determined by Continuous Flow Analyzer (CFA) with in-line distillation followed by colourimetric analysis.
<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Chlorophyll-a Extraction (Field Filtered)	EP870A ALS Environmental - Thunder Bay	Water	EPA 445.0 (mod)	Chlorophyll-a solvent extraction.
Digestion for TKN in water	EP318 ALS Environmental - Thunder Bay	Water	APHA 4500-Norg D (mod)	Samples are digested at high temperature using Sulfuric Acid with Copper catalyst, which converts organic nitrogen sources to Ammonia, which is then quantified by the analytical method as TKN. This method is unsuitable for samples containing high levels of nitrate. If nitrate exceeds TKN concentration by ten times or more, results may be biased low.
Digestion for Total Phosphorus in water	EP372 ALS Environmental - Thunder Bay	Water	APHA 4500-P E (mod).	Samples are heated with a persulfate digestion reagent.
Mercury Water BrCl Digestion (Low Level)	EP508-L ALS Environmental - Thunder Bay	Water	EPA 1631E (mod)	Water samples are digested with BrCl.
Preparation for Ammonia	EP298 ALS Environmental - Thunder Bay	Water		Sample preparation for Preserved Nutrients Water Quality Analysis.
Preparation for Autotitrator	EP108-TITR ALS Environmental - Thunder Bay	Water		Sample preparation for parameters analysed by Autotitrator
Preparation for Cyanide analysis	EP333 ALS Environmental - Thunder Bay	Water		Preparation for Cyanide in water
Preparation for Ion Chromatography	EP235-IC ALS Environmental - Thunder Bay	Water		Sample preparation for ion chromatography
Preparation for Total Organic Carbon by Combustion	EP355 ALS Environmental - Thunder Bay	Water		Preparation for Total Organic Carbon by Combustion
Total Metals Water Digestion	EP420 ALS Environmental - Thunder Bay	Water	EPA 200.2 (mod)	Water samples are digested with HNO ₃ and HCl to liberate "total recoverable" metals.



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Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

COC Number: 22-

Page 1 of 6

Environmental Division

Thunder Bay
Work Order Reference
TY2510702



Telephone : +1 807 623 6483

Report To		Reports / Recipients		Turnaround Time (TAT) Requested	
Company:	G3 Consulting Ltd.	Select Report Format:	☒ PDF ☒ EXCEL ☐ EDO (DIGITAL)	☒ Routine [R] If received by 3pm M-F - no surcharges apply	
Contact:	Greg Thomas	Merge QC/QC1 Reports with COA	☒ YES ☐ NO ☐ N/A	☐ 1 day [P1] If received by 3pm M-F - 100% rush surcharge mini	
Phone:	604-598-8501	☒ Compare Results to Criteria on Report - provide details below if box checked		☐ 3 day [P3] If received by 3pm M-F - 25% rush surcharge mini	
Company address below will appear on the final report		Select Distribution:	☒ EMAIL ☐ MAIL ☐ FAX	☐ 2 day [P2] If received by 3pm M-F - 50% rush surcharge mini	
Street:	206-8501 162 St	Email 1 or Fax	kalfonso@g3consulting.com; cwilson@g3consulting.com	☐ 1 day [E] If received by 3pm M-F - 100% rush surcharge mini	
City/Province:	Surrey, BC	Email 2	aquas@ie@g3consulting.com; rfarrel@g3consulting.com	☐ Same day [E2] If received by 10am M-S - 200% rush surcharge	
Postal Code:	V4N 1B2	Email 3	gthomas@g3consulting.com; mlylo@g3consulting.com	Additional fees may apply to rush requests on weekdays	
Invoice To	Same as Report To ☐ YES ☒ NO	Invoice Recipients		Date and Time Required for all E&P TATs:	
Copy of Invoice with Report ☐ YES ☒ NO		Select Invoice Distribution:	☒ EMAIL ☐ MAIL ☐ FAX	For all tests with rush TATs requested, please contact your AM to confirm availability.	
Company:	G3 Consulting Ltd.	Email 1 or Fax	sjohnson@g3consulting.com	Analysis Request	
Contact:		Email 2	info@g3consulting.com	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below	
Project Information		Oil and Gas Required Fields (client use)		NUMBER OF CONTAINERS	
ALS Account # / Quote #:	G3CO100 / WT2025G3CO1000001	AFE/Cost Center:	PO#	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below	
Job #:	2502	Major/Minor Code:	Routing Code:	F F F	
PO / AFE:	2502	Requisitioner:		F F F	
LSD:		Location:		F F F	
ALS Lab Work Order # (ALS use only): TY2510702		ALS Contact:	Sampler:	F F F	
ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	
250NG309 OL-100-M		18 -Sept-2025	11:58	Water	R R R R R R R R R R
250NG309 OL-250-M		17 -Sept-2025	17:10	Water	R R R R R R R R R R
250NG309 HL-100-07-T		18 -Sept-2025	11:02	Water	R R R R R R R R R R
250NG309 HL-100-09-T		18 -Sept-2025	9:21	Water	R R R R R R R R R R
250NG309 HL-100-09-T		18 -Sept-2025	10:55	Water	R R R R R R R R R R
250NG309 HL-100-11-T		17 -Sept-2025	15:36	Water	R R R R R R R R R R
250NG309 HL-250-11-B		17 -Sept-2025	15:07	Water	R R R R R R R R R R
250NG309 HL-250-09-T		17 -Sept-2025	16:14	Water	R R R R R R R R R R
250NG309 HL-250-09-B		17 -Sept-2025	15:51	Water	R R R R R R R R R R
250NG309 HL-500-07-T		17 -Sept-2025	16:47	Water	R R R R R R R R R R
250NG309 HL-500-07-B		17 -Sept-2025	16:29	Water	R R R R R R R R R R
Drinking Water (DW) Samples (client use)		Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)		SAMPLE RECEIPT DETAILS (ALS use only)	
Are samples taken from a Regulated DW System? ☐ YES ☐ NO		(Combined) - Ontario PWQO+CCME-FAL-WATER		Cooling Method: ☐ NONE ☒ ICE ☐ PACKS ☐ FROZEN ☐ COOLING INITIATED	
Are samples for human consumption/use? ☐ YES ☐ NO		Federal Metal Mining Effluent Regulation (JUN, 2002)		Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO	
				Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A	
				INITIAL COOLER TEMPERATURES °C: 14.0 9.1 2.2 1.2 5.1 22.1 7.2 8.2 5	
				FINAL COOLER TEMPERATURES °C: 7.1 19.2 5.1 1.7 2.8 2.5	
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (ALS use only)		FINAL SHIPMENT RECEPTION (ALS use only)	
Released by:	Date: 9/19/25 Time: 16:16	Received by:	Date: 9-19-25 Time: 4:51pm		

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

* If any water samples are taken from a regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

9 x drop

Intake and Login Verification Form

SAMPLE INTAKE				ACCOUNT INFO VERIFICATION			
Priority/Emergency Service Requested	YES	NO		Priority/Emergency Service Requested	YES	NO	
Time Sensitive Hold Time	YES	NO		Confirmed all as accurate as per COC; Sample Remarks or PM			
Client:				Client	Work Contact	Quote	
SAMPLE RECEIPT INFORMATION				RECEIPT DETAIL			
Mode of Delivery:	Courier	Drop Off		Project	PO	Site/LSD	
Courier				Overall Description Entered	Yes	NA	
Waybill Number				Received date/time as per COC			
Temperature			Cooler Count	Recipients match CoC or Sample Remarks	Yes	No	
Cooling Method	None	Ice	Ice Packs	Billing Instruction added to remarks	Yes	NA	
SAMPLE MATRIX/BOTTLE INFORMATION				VERIFICATION CHECKLIST			
Matrix:	Water	Soil	Air	Biota	Other		
DW Schedule 24 Bottles Correct?			Yes	No			
DW Metals pH Check <2			Yes	No			
Regulation Circled, Works # present	Yes	No	Reject?	Planned Event Submission	Yes	No	
# of Bottles:	8	Sample Count	10-11	Sample Name entered as per CoC			
Green/white	2x10 W			Sampling Date and time entered as per CoC			
Purple/white	10N			Containers selected in layout order			
Warm red/white	10M	10 Rad 226	10 U.T. Hg	Sales items entered from QUOTE ONLY (and/or verified as correct)			
Yellow/black	10 Hg			Field Data/EC298A removed if not on COC	Yes	NA	
Light blue/white				Bottle Allocation Verified			
Orange/black				Guideline added or auto-allocated			
Others (detail)	10 CN - 1 chlorophyll			Due dates updated			
Comments on Samples and Bottles: didn't answer DW questions. missing from 250-11-1, that's missing pg. 586.				VALIDATION			
Samples Requiring Preservation or Filtering:				Validation errors resolved?	Yes	No	
Layout Staff Initials				Internal Sublet CoC created	Yes	NA	
Date and Time of Layout				Login Comments:			
wjs 9-22-25				Login Staff Initials:			

10:08 am

CERTIFICATE OF ANALYSIS

Work Order	: TY2510706		
Client	: G3 Consulting Ltd.	Laboratory	: ALS Environmental - Thunder Bay
Contact	: Greg Thomas	Account Manager	: Colby Coutu
Address	: 206-8501 162nd St. Surrey British Columbia Canada V4N 1B2	Address	: 1081 Barton Street Thunder Bay ON Canada P7B 5N3
Telephone	: 604 598 8501	E-mail	: colby.coutu@alsglobal.com
Project	: 2502	Telephone	: +1 807 623 6463
PO	: 2502	Date Samples Received	: 19-Sep-2025 16:51
C-O-C number	: ----	Date Analysis Commenced	: 22-Sep-2025
Sampler	: ----	Issue Date	: 18-Nov-2025 10:45
Site	: ----		
Quote number	: Dubreuilville Project		
No. of samples received	: 5		
No. of samples analysed	: 5		

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.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Cassandra Grzelewski	Team Leader - Inorganics	Inorganics, Thunder Bay, Ontario
Julie Ruoho	Teamleader Wet Chem	Inorganics, Thunder Bay, Ontario
Julie Ruoho	Account Manager	External Subcontracting, Saskatoon, Saskatchewan
Julie Ruoho	Teamleader Wet Chem	Metals, Thunder Bay, Ontario
Julie Ruoho	Teamleader Wet Chem	Administration, Thunder Bay, Ontario
Kevin Baxter	Supervisor - Inorganic	Administration, Winnipeg, Manitoba
Kevin Baxter	Supervisor - Inorganic	Inorganics, Winnipeg, Manitoba
Kim Jensen	Department Manager - Metals	Metals, Burnaby, British Columbia
Madison Mancusa	Laboratory Analyst	Inorganics, Thunder Bay, Ontario
Monica Ko	Supervisor - Inorganic	Inorganics, Burnaby, British Columbia
Nik Perkio	Senior Analyst	Inorganics, Waterloo, Ontario
Rhiannon Scheffee	Project Manager	Metals, Thunder Bay, Ontario
Shannon Veltri	Supervisor - Water Chemistry	Metals, Thunder Bay, Ontario
Shannon Veltri	Supervisor - Water Chemistry	Inorganics, Thunder Bay, Ontario
Viola Grebowicz	Laboratory Analyst	Inorganics, Thunder Bay, Ontario



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).

Unit	Description
-	no units
°C	degrees celsius
Bq/L	becquerels per litre
L	litres
mg/L	milligrams per litre
ng/L	nanograms per litre
pH units	pH units
µg/L	micrograms per litre
µg/sample	micrograms per sample

<: less than.

>: greater than.

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.

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.

Workorder Comments

Sample 05: Container for Dissolved Methyl Hg not received at laboratory, but requested on Chain of Custody / analytical request form; subsample cannot be obtained from other containers to meet request. The requested analysis cannot be performed.



Qualifiers

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
DTC	Dissolved concentration exceeds total. Results were confirmed by re-analysis.



Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Sub-Matrix: Water (Matrix: Water)					Client sample ID	25ONG309 HL-500-11-T ----	25ONG309 HL-500-11-B ----	25ONG309 DUP1 ----	25ONG309 DUP2 ----	25ONG309 HL-REF-M ----
Client sampling date / time					17-Sep-2025 15:36	17-Sep-2025 15:07	18-Sep-2025 11:58	17-Sep-2025 15:07	17-Sep-2025 10:27	
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510706-001	TY2510706-002	TY2510706-003	TY2510706-004	TY2510706-005	
					Result	Result	Result	Result	Result	
Field Tests										
pH, field	----	EF001/TY	0.01	pH units	----	----	7.49	----	8.36	
Temperature, field	----	EF001/TY	0.01	°C	----	----	12.4	----	17.2	
Sampling volume, field	----	EF003/WP	0.010	L	----	----	0.300	----	----	
Sample Preparation										
Dissolved carbon filtration location	----	EP358/TY	-	-	----	----	----	----	field	
Physical Tests										
Hardness (as CaCO3), dissolved	----	EC100/TY	0.50	mg/L	----	----	----	----	93.6	
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/TY	0.50	mg/L	93.4	81.1	200	91.3	89.1	
Solids, total dissolved [TDS]	----	E162/TY	10	mg/L	139	108	311	138	133	
Solids, total suspended [TSS]	----	E160/TY	3.0	mg/L	<3.0	19.9	<3.0	<3.0	<3.0	
Alkalinity, total (as CaCO3)	----	E290/TY	2.0	mg/L	76.7	71.5	126	77.6	76.0	
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/TY	0.0050	mg/L	0.0112	0.0448	0.0436	0.0372	0.0150	
Ammonia, un-ionized (as N), field	7664-41-7	EC298A/TY	0.0010	mg/L	----	----	<0.0010	----	0.0010	
Bromide	24959-67-9	E235.Br/TY	0.10	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	
Chloride	16887-00-6	E235.Cl/TY	0.50	mg/L	3.43	2.33	8.28	3.24	3.38	
Cyanate	88402-73-7	E343/WT	0.20	mg/L	----	----	----	----	<0.20	
Fluoride	16984-48-8	E235.F/TY	0.020	mg/L	0.044	0.043	0.050	0.043	0.046	
Kjeldahl nitrogen, total [TKN]	----	E318/TY	0.050	mg/L	0.621	0.656	0.763	0.462	0.458	
Nitrate (as N)	14797-55-8	E235.NO3/TY	0.020	mg/L	0.610	0.301	3.86	0.561	0.499	
Nitrite (as N)	14797-65-0	E235.NO2/TY	0.010	mg/L	<0.010	<0.010	0.018	<0.010	<0.010	



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG309 HL-500-11-T	25ONG309 HL-500-11-B	25ONG309 DUP1	25ONG309 DUP2	25ONG309 HL-REF-M
					Client sampling date / time	17-Sep-2025 15:36	17-Sep-2025 15:07	18-Sep-2025 11:58	17-Sep-2025 15:07	17-Sep-2025 10:27
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510706-001	TY2510706-002	TY2510706-003	TY2510706-004	TY2510706-005
						Result	Result	Result	Result	Result
Anions and Nutrients										
Nitrogen, total	7727-37-9	EC368/TY	0.050	mg/L		1.23	0.957	4.64	1.02	0.957
Nitrogen, total organic	----	EC363/TY	0.050	mg/L		0.610	0.611	0.719	0.425	0.443
Phosphorus, total	7723-14-0	E372-U/TY	0.0020	mg/L		0.0068	0.0245	0.0086	0.0078	0.0063
Sulfate (as SO4)	14808-79-8	E235.SO4/TY	0.30	mg/L		27.1	16.1	89.1	25.5	25.4
Cyanides										
Cyanide, free	----	E339/WT	0.0020	mg/L		0.0020	0.0024	<0.0020	0.0028	<0.0020
Cyanide, strong acid dissociable (Total)	----	E333/WT	0.0020	mg/L		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cyanide, weak acid dissociable	----	E336/WT	0.0020	mg/L		0.0024	<0.0020	<0.0020	<0.0020	<0.0020
Thiocyanate	302-04-5	E344/VA	0.50	mg/L		----	----	----	----	<0.50
Organic / Inorganic Carbon										
Carbon, dissolved organic [DOC]	----	E358-L/TY	0.50	mg/L		----	----	----	----	8.38
Carbon, total organic [TOC]	----	E355-L/TY	0.50	mg/L		8.41	8.05	8.69	8.26	8.59
Total Metals										
Aluminum, total	7429-90-5	E420/TY	0.0030	mg/L		0.0118	0.325	0.0102	0.0141	0.0111
Antimony, total	7440-36-0	E420/TY	0.00010	mg/L		<0.00010	<0.00020 ^{DLM}	0.00022	<0.00010	<0.00010
Arsenic, total	7440-38-2	E420/TY	0.00010	mg/L		0.00067	0.00126	0.00072	0.00066	0.00065
Barium, total	7440-39-3	E420/TY	0.00010	mg/L		0.0154	0.0230	0.0316	0.0160	0.0151
Beryllium, total	7440-41-7	E420/TY	0.000020	mg/L		<0.000020	<0.000040 ^{DLM}	<0.000020	<0.000020	<0.000020
Bismuth, total	7440-69-9	E420/TY	0.000050	mg/L		<0.000050	<0.000100 ^{DLM}	<0.000050	<0.000050	<0.000050
Boron, total	7440-42-8	E420/TY	0.010	mg/L		0.010	<0.020 ^{DLM}	0.023	0.010	<0.010
Cadmium, total	7440-43-9	E420/TY	0.0000050	mg/L		<0.0000050	0.0000350	<0.0000050	<0.0000050	<0.0000050



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG309 HL-500-11-T	25ONG309 HL-500-11-B	25ONG309 DUP1	25ONG309 DUP2	25ONG309 HL-REF-M
					Client sampling date / time	17-Sep-2025 15:36	17-Sep-2025 15:07	18-Sep-2025 11:58	17-Sep-2025 15:07	17-Sep-2025 10:27
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510706-001	TY2510706-002	TY2510706-003	TY2510706-004	TY2510706-005
						Result	Result	Result	Result	Result
Total Metals										
Calcium, total	7440-70-2	E420/TY	0.050	mg/L		31.4	27.3	65.7	30.5	29.9
Cesium, total	7440-46-2	E420/TY	0.000010	mg/L		0.000074	0.000111	0.000174	0.000070	0.000070
Chromium, total	7440-47-3	E420/TY	0.00050	mg/L		<0.00050	<0.00100 ^{DLM}	<0.00050	<0.00050	<0.00050
Cobalt, total	7440-48-4	E420/TY	0.00010	mg/L		0.00019	0.00033	0.00055	0.00019	0.00018
Copper, total	7440-50-8	E420/TY	0.00050	mg/L		0.00095	0.00240	0.00154	0.00106	0.00090
Iron, total	7439-89-6	E420/TY	0.010	mg/L		<0.010	0.732	0.019	0.020	<0.010
Lead, total	7439-92-1	E420/TY	0.000050	mg/L		0.000984	0.00168	0.000084	0.000305	0.000216
Lithium, total	7439-93-2	E420/TY	0.0010	mg/L		<0.0010	<0.0020 ^{DLM}	<0.0010	<0.0010	<0.0010
Magnesium, total	7439-95-4	E420/TY	0.0050	mg/L		3.64	3.15	8.77	3.68	3.50
Manganese, total	7439-96-5	E420/TY	0.00010	mg/L		0.00917	0.144	0.0198	0.0151	0.00868
Mercury, total	7439-97-6	E508-L/A	0.50	ng/L		0.77	3.28	0.72	<0.50	0.58
Molybdenum, total	7439-98-7	E420/TY	0.000050	mg/L		0.000700	0.000464	0.00225	0.000691	0.000685
Nickel, total	7440-02-0	E420/TY	0.00050	mg/L		<0.00050	<0.00100 ^{DLM}	0.00051	<0.00050	<0.00050
Phosphorus, total	7723-14-0	E420/TY	0.050	mg/L		<0.050	<0.100 ^{DLM}	<0.050	<0.050	<0.050
Potassium, total	7440-09-7	E420/TY	0.050	mg/L		1.79	1.71	3.90	1.84	1.73
Rubidium, total	7440-17-7	E420/TY	0.00020	mg/L		0.00354	0.00351	0.00731	0.00362	0.00336
Selenium, total	7782-49-2	E420/TY	0.000050	mg/L		0.000087	<0.000100 ^{DLM}	0.000146	0.000106	0.000095
Silicon, total	7440-21-3	E420/TY	0.10	mg/L		1.18	2.74	1.94	1.38	1.14
Silver, total	7440-22-4	E420/TY	0.000010	mg/L		<0.000010	<0.000020 ^{DLM}	<0.000010	<0.000010	<0.000010
Sodium, total	7440-23-5	E420/TY	0.050	mg/L		5.18	3.80	13.0	5.32	4.98
Strontium, total	7440-24-6	E420/TY	0.00020	mg/L		0.156	0.154	0.251	0.157	0.159



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG309 HL-500-11-T	25ONG309 HL-500-11-B	25ONG309 DUP1	25ONG309 DUP2	25ONG309 HL-REF-M
					Client sampling date / time	17-Sep-2025 15:36	17-Sep-2025 15:07	18-Sep-2025 11:58	17-Sep-2025 15:07	17-Sep-2025 10:27
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510706-001	TY2510706-002	TY2510706-003	TY2510706-004	TY2510706-005
						Result	Result	Result	Result	Result
Total Metals										
Sulfur, total	7704-34-9	E420/TY	0.50	mg/L		9.06	5.26	30.8	8.92	8.63
Tellurium, total	13494-80-9	E420/TY	0.00020	mg/L		<0.00020	<0.00040 ^{DLM}	<0.00020	<0.00020	<0.00020
Thallium, total	7440-28-0	E420/TY	0.000010	mg/L		<0.000010	<0.000020 ^{DLM}	0.000012	<0.000010	<0.000010
Thorium, total	7440-29-1	E420/TY	0.00010	mg/L		<0.00010	<0.00020 ^{DLM}	<0.00010	<0.00010	<0.00010
Tin, total	7440-31-5	E420/TY	0.00010	mg/L		<0.00010	<0.00020 ^{DLM}	<0.00010	<0.00010	<0.00010
Titanium, total	7440-32-6	E420/TY	0.00030	mg/L		<0.00030	0.00858	<0.00030	<0.00030	<0.00030
Tungsten, total	7440-33-7	E420/TY	0.00010	mg/L		<0.00010	<0.00020 ^{DLM}	<0.00010	<0.00010	<0.00010
Uranium, total	7440-61-1	E420/TY	0.000010	mg/L		0.000283	0.000280	0.000903	0.000265	0.000272
Vanadium, total	7440-62-2	E420/TY	0.00050	mg/L		<0.00050	<0.00100 ^{DLM}	<0.00050	<0.00050	<0.00050
Zinc, total	7440-66-6	E420/TY	0.0030	mg/L		<0.0030	<0.0060 ^{DLM}	<0.0030	<0.0030	<0.0030
Zirconium, total	7440-67-7	E420/TY	0.00020	mg/L		<0.00020	<0.00040 ^{DLM}	<0.00020	<0.00020	<0.00020
Dissolved Metals										
Aluminum, dissolved	7429-90-5	E421/TY	0.0010	mg/L		----	----	----	----	0.0073
Antimony, dissolved	7440-36-0	E421/TY	0.00010	mg/L		----	----	----	----	<0.00010
Arsenic, dissolved	7440-38-2	E421/TY	0.00010	mg/L		----	----	----	----	0.00064
Barium, dissolved	7440-39-3	E421/TY	0.00010	mg/L		----	----	----	----	0.0155
Beryllium, dissolved	7440-41-7	E421/TY	0.000020	mg/L		----	----	----	----	<0.000020
Bismuth, dissolved	7440-69-9	E421/TY	0.000050	mg/L		----	----	----	----	<0.000050
Boron, dissolved	7440-42-8	E421/TY	0.010	mg/L		----	----	----	----	<0.010
Cadmium, dissolved	7440-43-9	E421/TY	0.0000050	mg/L		----	----	----	----	<0.0000050
Calcium, dissolved	7440-70-2	E421/TY	0.050	mg/L		----	----	----	----	31.6



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG309 HL-500-11-T	25ONG309 HL-500-11-B	25ONG309 DUP1	25ONG309 DUP2	25ONG309 HL-REF-M
					Client sampling date / time	17-Sep-2025 15:36	17-Sep-2025 15:07	18-Sep-2025 11:58	17-Sep-2025 15:07	17-Sep-2025 10:27
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510706-001	TY2510706-002	TY2510706-003	TY2510706-004	TY2510706-005
						Result	Result	Result	Result	Result
Dissolved Metals										
Cesium, dissolved	7440-46-2	E421/TY	0.000010	mg/L		----	----	----	----	0.000069
Chromium, dissolved	7440-47-3	E421/TY	0.00050	mg/L		----	----	----	----	<0.00050
Cobalt, dissolved	7440-48-4	E421/TY	0.00010	mg/L		----	----	----	----	0.00017
Copper, dissolved	7440-50-8	E421/TY	0.00020	mg/L		----	----	----	----	0.00071
Iron, dissolved	7439-89-6	E421/TY	0.010	mg/L		----	----	----	----	<0.010
Lead, dissolved	7439-92-1	E421/TY	0.000050	mg/L		----	----	----	----	<0.000050
Lithium, dissolved	7439-93-2	E421/TY	0.0010	mg/L		----	----	----	----	<0.0010
Magnesium, dissolved	7439-95-4	E421/TY	0.0050	mg/L		----	----	----	----	3.57
Manganese, dissolved	7439-96-5	E421/TY	0.00010	mg/L		----	----	----	----	0.00031
Mercury, dissolved	7439-97-6	E509/TY	0.0000050	mg/L		----	----	----	----	<0.0000050
Molybdenum, dissolved	7439-98-7	E421/TY	0.000050	mg/L		----	----	----	----	0.000798
Nickel, dissolved	7440-02-0	E421/TY	0.00050	mg/L		----	----	----	----	<0.00050
Phosphorus, dissolved	7723-14-0	E421/TY	0.050	mg/L		----	----	----	----	<0.050
Potassium, dissolved	7440-09-7	E421/TY	0.050	mg/L		----	----	----	----	1.82
Rubidium, dissolved	7440-17-7	E421/TY	0.00020	mg/L		----	----	----	----	0.00340
Selenium, dissolved	7782-49-2	E421/TY	0.000050	mg/L		----	----	----	----	0.000075
Silicon, dissolved	7440-21-3	E421/TY	0.050	mg/L		----	----	----	----	1.14
Silver, dissolved	7440-22-4	E421/TY	0.000010	mg/L		----	----	----	----	<0.000010
Sodium, dissolved	7440-23-5	E421/TY	0.050	mg/L		----	----	----	----	5.06
Strontium, dissolved	7440-24-6	E421/TY	0.00020	mg/L		----	----	----	----	0.158
Sulfur, dissolved	7704-34-9	E421/TY	0.50	mg/L		----	----	----	----	8.57



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG309 HL-500-11-T	25ONG309 HL-500-11-B	25ONG309 DUP1	25ONG309 DUP2	25ONG309 HL-REF-M
					Client sampling date / time	17-Sep-2025 15:36	17-Sep-2025 15:07	18-Sep-2025 11:58	17-Sep-2025 15:07	17-Sep-2025 10:27
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510706-001	TY2510706-002	TY2510706-003	TY2510706-004	TY2510706-005
						Result	Result	Result	Result	Result
Dissolved Metals										
Tellurium, dissolved	13494-80-9	E421/TY	0.00020	mg/L		----	----	----	----	<0.00020
Thallium, dissolved	7440-28-0	E421/TY	0.000010	mg/L		----	----	----	----	<0.000010
Thorium, dissolved	7440-29-1	E421/TY	0.00010	mg/L		----	----	----	----	<0.00010
Tin, dissolved	7440-31-5	E421/TY	0.00010	mg/L		----	----	----	----	<0.00010
Titanium, dissolved	7440-32-6	E421/TY	0.00030	mg/L		----	----	----	----	<0.00030
Tungsten, dissolved	7440-33-7	E421/TY	0.00010	mg/L		----	----	----	----	<0.00010
Uranium, dissolved	7440-61-1	E421/TY	0.000010	mg/L		----	----	----	----	0.000272
Vanadium, dissolved	7440-62-2	E421/TY	0.00050	mg/L		----	----	----	----	<0.00050
Zinc, dissolved	7440-66-6	E421/TY	0.0010	mg/L		----	----	----	----	0.0088 ^{DTC}
Zirconium, dissolved	7440-67-7	E421/TY	0.00030	mg/L		----	----	----	----	<0.00030
Dissolved mercury filtration location	----	EP509/TY	-	-		----	----	----	----	Field
Dissolved metals filtration location	----	EP421/TY	-	-		----	----	----	----	Laboratory
Speciated Metals										
Methylmercury (as MeHg), total	22967-92-6	E536/VA	0.000020	µg/L		----	----	----	----	0.000048
Aggregate Organics										
Biochemical oxygen demand [BOD]	----	E550/TY	2.0	mg/L		----	----	----	----	2.2
Plant Pigments										
Chlorophyll a	479-61-8	EC870A/WP	0.010	µg/L		----	----	1.50	----	----
Chlorophyll a	479-61-8	E870A/WP	0.0020	µg/sample		----	----	0.451	----	----
Radiological Parameters										
Radium-226	13982-63-3	Ra-226/2l	0.005	Bq/L		<0.005	<0.005	<0.005	<0.005	<0.005



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

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: TY2510706	Page	: 1 of 24
Client	: G3 Consulting Ltd.	Laboratory	: ALS Environmental - Thunder Bay
Contact	: Greg Thomas	Account Manager	: Colby Coutu
Address	: 206-8501 162nd St. Surrey BC Canada V4N 1B2	Address	: 1081 Barton Street Thunder Bay, Ontario Canada P7B 5N3
Telephone	: 604 598 8501	Telephone	: +1 807 623 6463
Project	: 2502	Date Samples Received	: 19-Sep-2025 16:51
PO	: 2502	Issue Date	: 18-Nov-2025 10:44
C-O-C number	: ----		
Sampler	: ----		
Site	: ----		
Quote number	: Dubreuilville Project		
No. of samples received	: 5		
No. of samples analysed	: 5		

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 Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- Method Blank value outliers occur - please see following pages for full details.
- 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.

Page : 3 of 24
Work Order : TY2510706
Client : G3 Consulting Ltd.
Project : 2502



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Water**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Method Blank (MB) Values								
Dissolved Metals	QC-2234501-001	----	Molybdenum, dissolved	7439-98-7	E421	0.000059 ^B mg/L	0.00005 mg/L	Blank result exceeds permitted value

Result Qualifiers

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.



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	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [ON MECP] 25ONG309 HL-REF-M	E550	17-Sep-2025	----	----	----		22-Sep-2025	4 days	5 days	✖ EHT
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 DUP1	E298	18-Sep-2025	23-Sep-2025	28 days	5 days	✔	25-Sep-2025	28 days	5 days	✔
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 DUP2	E298	17-Sep-2025	23-Sep-2025	28 days	6 days	✔	25-Sep-2025	28 days	6 days	✔
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-500-11-B	E298	17-Sep-2025	23-Sep-2025	28 days	6 days	✔	25-Sep-2025	28 days	6 days	✔
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-500-11-T	E298	17-Sep-2025	23-Sep-2025	28 days	6 days	✔	25-Sep-2025	28 days	6 days	✔
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-REF-M	E298	17-Sep-2025	23-Sep-2025	28 days	6 days	✔	25-Sep-2025	28 days	6 days	✔
Anions and Nutrients : Bromide in Water by IC										
HDPE [ON MECP] 25ONG309 DUP1	E235.Br	18-Sep-2025	23-Sep-2025	28 days	5 days	✔	23-Sep-2025	28 days	5 days	✔



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Bromide in Water by IC										
HDPE [ON MECP] 25ONG309 DUP2	E235.Br	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Bromide in Water by IC										
HDPE [ON MECP] 25ONG309 HL-500-11-B	E235.Br	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Bromide in Water by IC										
HDPE [ON MECP] 25ONG309 HL-500-11-T	E235.Br	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Bromide in Water by IC										
HDPE [ON MECP] 25ONG309 HL-REF-M	E235.Br	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] 25ONG309 DUP1	E235.Cl	18-Sep-2025	23-Sep-2025	28 days	5 days	✓	23-Sep-2025	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] 25ONG309 DUP2	E235.Cl	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] 25ONG309 HL-500-11-B	E235.Cl	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] 25ONG309 HL-500-11-T	E235.Cl	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] 25ONG309 HL-REF-M	E235.Cl	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Cyanate by Ion Selective Electrode										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-REF-M	E343	17-Sep-2025	----	----	----		02-Oct-2025	14 days	15 days	✖ EHT
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] 25ONG309 DUP1	E235.F	18-Sep-2025	23-Sep-2025	28 days	5 days	✔	23-Sep-2025	28 days	5 days	✔
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] 25ONG309 DUP2	E235.F	17-Sep-2025	23-Sep-2025	28 days	6 days	✔	23-Sep-2025	28 days	6 days	✔
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] 25ONG309 HL-500-11-B	E235.F	17-Sep-2025	23-Sep-2025	28 days	6 days	✔	23-Sep-2025	28 days	6 days	✔
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] 25ONG309 HL-500-11-T	E235.F	17-Sep-2025	23-Sep-2025	28 days	6 days	✔	23-Sep-2025	28 days	6 days	✔
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] 25ONG309 HL-REF-M	E235.F	17-Sep-2025	23-Sep-2025	28 days	6 days	✔	23-Sep-2025	28 days	6 days	✔
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] 25ONG309 DUP1	E235.NO3	18-Sep-2025	23-Sep-2025	7 days	5 days	✔	23-Sep-2025	7 days	5 days	✔
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] 25ONG309 DUP2	E235.NO3	17-Sep-2025	23-Sep-2025	7 days	6 days	✔	23-Sep-2025	7 days	6 days	✔
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] 25ONG309 HL-500-11-B	E235.NO3	17-Sep-2025	23-Sep-2025	7 days	6 days	✔	23-Sep-2025	7 days	6 days	✔



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis				
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Anions and Nutrients : Nitrate in Water by IC											
HDPE [ON MECP] 25ONG309 HL-500-11-T	E235.NO3	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓	
Anions and Nutrients : Nitrate in Water by IC											
HDPE [ON MECP] 25ONG309 HL-REF-M	E235.NO3	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓	
Anions and Nutrients : Nitrite in Water by IC											
HDPE [ON MECP] 25ONG309 DUP1	E235.NO2	18-Sep-2025	23-Sep-2025	7 days	5 days	✓	23-Sep-2025	7 days	5 days	✓	
Anions and Nutrients : Nitrite in Water by IC											
HDPE [ON MECP] 25ONG309 DUP2	E235.NO2	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓	
Anions and Nutrients : Nitrite in Water by IC											
HDPE [ON MECP] 25ONG309 HL-500-11-B	E235.NO2	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓	
Anions and Nutrients : Nitrite in Water by IC											
HDPE [ON MECP] 25ONG309 HL-500-11-T	E235.NO2	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓	
Anions and Nutrients : Nitrite in Water by IC											
HDPE [ON MECP] 25ONG309 HL-REF-M	E235.NO2	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓	
Anions and Nutrients : Sulfate in Water by IC											
HDPE [ON MECP] 25ONG309 DUP1	E235.SO4	18-Sep-2025	23-Sep-2025	28 days	5 days	✓	23-Sep-2025	28 days	5 days	✓	
Anions and Nutrients : Sulfate in Water by IC											
HDPE [ON MECP] 25ONG309 DUP2	E235.SO4	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓	



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] 25ONG309 HL-500-11-B	E235.SO4	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] 25ONG309 HL-500-11-T	E235.SO4	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] 25ONG309 HL-REF-M	E235.SO4	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 DUP1	E318	18-Sep-2025	23-Sep-2025	28 days	5 days	✓	23-Sep-2025	28 days	5 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 DUP2	E318	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-500-11-B	E318	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-500-11-T	E318	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-REF-M	E318	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 DUP1	E372-U	18-Sep-2025	25-Sep-2025	28 days	7 days	✓	25-Sep-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 : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 DUP2	E372-U	17-Sep-2025	25-Sep-2025	28 days	8 days	✓	25-Sep-2025	28 days	8 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-500-11-B	E372-U	17-Sep-2025	25-Sep-2025	28 days	8 days	✓	25-Sep-2025	28 days	8 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-500-11-T	E372-U	17-Sep-2025	25-Sep-2025	28 days	8 days	✓	25-Sep-2025	28 days	8 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-REF-M	E372-U	17-Sep-2025	25-Sep-2025	28 days	8 days	✓	25-Sep-2025	28 days	8 days	✓
Cyanides : Free Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 DUP1	E339	18-Sep-2025	01-Oct-2025	14 days	13 days	✓	01-Oct-2025	14 days	13 days	✓
Cyanides : Free Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 DUP2	E339	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : Free Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-500-11-B	E339	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : Free Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-500-11-T	E339	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : Free Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-REF-M	E339	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Cyanides : Thiocyanate by Colourimetry										
HDPE (nitric acid) 25ONG309 HL-REF-M	E344	17-Sep-2025	----	----	----		25-Sep-2025	14 days	8 days	✓
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 DUP1	E333	18-Sep-2025	01-Oct-2025	14 days	13 days	✓	01-Oct-2025	14 days	13 days	✓
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 DUP2	E333	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-500-11-B	E333	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-500-11-T	E333	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-REF-M	E333	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : WAD Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 DUP1	E336	18-Sep-2025	01-Oct-2025	14 days	13 days	✓	01-Oct-2025	14 days	13 days	✓
Cyanides : WAD Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 DUP2	E336	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : WAD Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-500-11-B	E336	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Cyanides : WAD Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-500-11-T	E336	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : WAD Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-REF-M	E336	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) 25ONG309 HL-REF-M	E509	17-Sep-2025	24-Sep-2025	28 days	7 days	✓	25-Sep-2025	28 days	7 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE - dissolved (lab preserved) 25ONG309 HL-REF-M	E421	17-Sep-2025	23-Sep-2025	180 days	6 days	✓	23-Sep-2025	180 days	6 days	✓
Field Tests : Field pH,EC,Salinity, TDS, Cl2,CIO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine										
HDPE total (nitric acid) 25ONG309 DUP1	EF001	18-Sep-2025	----	----	----		23-Sep-2025	----	----	
Field Tests : Field pH,EC,Salinity, TDS, Cl2,CIO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine										
Glass vial dissolved (hydrochloric acid) 25ONG309 HL-REF-M	EF001	17-Sep-2025	----	----	----		23-Sep-2025	----	----	
Field Tests : Field Volume (L)										
Opaque HDPE tube 25ONG309 DUP1	EF003	18-Sep-2025	----	----	----		26-Sep-2025	----	----	
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass - dissolved (lab preserved) [ON MECP] 25ONG309 HL-REF-M	E358-L	17-Sep-2025	22-Sep-2025	3 days	5 days	✖ EHT	22-Sep-2025	28 days	0 days	✓
Organic / Inorganic Carbon : Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 DUP1	E355-L	18-Sep-2025	23-Sep-2025	28 days	5 days	✓	23-Sep-2025	28 days	5 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Organic / Inorganic Carbon : Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 DUP2	E355-L	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Organic / Inorganic Carbon : Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-500-11-B	E355-L	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Organic / Inorganic Carbon : Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-500-11-T	E355-L	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Organic / Inorganic Carbon : Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-REF-M	E355-L	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] 25ONG309 DUP1	E290	18-Sep-2025	23-Sep-2025	14 days	5 days	✓	23-Sep-2025	14 days	5 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] 25ONG309 DUP2	E290	17-Sep-2025	23-Sep-2025	14 days	6 days	✓	23-Sep-2025	14 days	6 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] 25ONG309 HL-500-11-B	E290	17-Sep-2025	23-Sep-2025	14 days	6 days	✓	23-Sep-2025	14 days	6 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] 25ONG309 HL-500-11-T	E290	17-Sep-2025	23-Sep-2025	14 days	6 days	✓	23-Sep-2025	14 days	6 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] 25ONG309 HL-REF-M	E290	17-Sep-2025	23-Sep-2025	14 days	6 days	✓	23-Sep-2025	14 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	
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] 25ONG309 DUP1	E162	18-Sep-2025	----	----	----		23-Sep-2025	7 days	5 days	✔
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] 25ONG309 DUP2	E162	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✔
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] 25ONG309 HL-500-11-B	E162	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✔
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] 25ONG309 HL-500-11-T	E162	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✔
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] 25ONG309 HL-REF-M	E162	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✔
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP] 25ONG309 DUP1	E160	18-Sep-2025	----	----	----		23-Sep-2025	7 days	5 days	✔
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP] 25ONG309 DUP2	E160	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✔
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP] 25ONG309 HL-500-11-B	E160	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✔
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP] 25ONG309 HL-500-11-T	E160	17-Sep-2025	----	----	----		23-Sep-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		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP] 25ONG309 HL-REF-M	E160	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✓
Plant Pigments : Chlorophyll-a by Fluorometry (Field Filtered µg)										
Opaque HDPE tube 25ONG309 DUP1	E870A	18-Sep-2025	26-Sep-2025	28 days	8 days	✓	26-Sep-2025	28 days	0 days	✓
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE total (nitric acid) 25ONG309 DUP1	Ra-226	18-Sep-2025	----	----	----		15-Oct-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE total (nitric acid) 25ONG309 DUP2	Ra-226	17-Sep-2025	----	----	----		15-Oct-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE total (nitric acid) 25ONG309 HL-500-11-B	Ra-226	17-Sep-2025	----	----	----		15-Oct-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE total (nitric acid) 25ONG309 HL-500-11-T	Ra-226	17-Sep-2025	----	----	----		15-Oct-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE total (nitric acid) 25ONG309 HL-REF-M	Ra-226	17-Sep-2025	----	----	----		15-Oct-2025	----	----	
Speciated Metals : Total Methylmercury in Water by GCAFS										
Amber glass total (hydrochloric acid) 25ONG309 HL-REF-M	E536	17-Sep-2025	09-Oct-2025	180 days	22 days	✓	09-Oct-2025	180 days	22 days	✓
Total Metals : Total Mercury in Water by CVAFS (Low Level, LOR = 0.5 ppt)										
Pre-cleaned clear glass - total (lab preserved) 25ONG309 HL-500-11-B	E508-L	17-Sep-2025	29-Sep-2025	28 days	12 days	✓	29-Sep-2025	28 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		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Total Metals : Total Mercury in Water by CVAFS (Low Level, LOR = 0.5 ppt)										
Pre-cleaned clear glass - total (lab preserved) 25ONG309 HL-500-11-T	E508-L	17-Sep-2025	29-Sep-2025	28 days	12 days	✓	29-Sep-2025	28 days	12 days	✓
Total Metals : Total Mercury in Water by CVAFS (Low Level, LOR = 0.5 ppt)										
Pre-cleaned clear glass - total (lab preserved) 25ONG309 DUP1	E508-L	18-Sep-2025	01-Oct-2025	28 days	13 days	✓	01-Oct-2025	28 days	13 days	✓
Total Metals : Total Mercury in Water by CVAFS (Low Level, LOR = 0.5 ppt)										
Pre-cleaned clear glass - total (lab preserved) 25ONG309 DUP2	E508-L	17-Sep-2025	01-Oct-2025	28 days	14 days	✓	01-Oct-2025	28 days	14 days	✓
Total Metals : Total Mercury in Water by CVAFS (Low Level, LOR = 0.5 ppt)										
Pre-cleaned clear glass - total (lab preserved) 25ONG309 HL-REF-M	E508-L	17-Sep-2025	01-Oct-2025	28 days	14 days	✓	01-Oct-2025	28 days	14 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) 25ONG309 DUP1	E420	18-Sep-2025	23-Sep-2025	180 days	5 days	✓	23-Sep-2025	180 days	5 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) 25ONG309 DUP2	E420	17-Sep-2025	23-Sep-2025	180 days	6 days	✓	23-Sep-2025	180 days	6 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) 25ONG309 HL-500-11-B	E420	17-Sep-2025	23-Sep-2025	180 days	6 days	✓	23-Sep-2025	180 days	6 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) 25ONG309 HL-500-11-T	E420	17-Sep-2025	23-Sep-2025	180 days	6 days	✓	23-Sep-2025	180 days	6 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) 25ONG309 HL-REF-M	E420	17-Sep-2025	23-Sep-2025	180 days	6 days	✓	23-Sep-2025	180 days	6 days	✓

[Legend & Qualifier Definitions](#)

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Work Order : TY2510706
Client : G3 Consulting Ltd.
Project : 2502



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)							
TSS by Gravimetry	E160	2234661	1	15	6.6	5.0	✓
TDS by Gravimetry	E162	2234658	1	19	5.2	5.0	✓
Bromide in Water by IC	E235.Br	2234742	1	19	5.2	5.0	✓
Chloride in Water by IC	E235.Cl	2234746	1	20	5.0	5.0	✓
Fluoride in Water by IC	E235.F	2234743	1	19	5.2	5.0	✓
Nitrite in Water by IC	E235.NO2	2234745	1	20	5.0	5.0	✓
Nitrate in Water by IC	E235.NO3	2234744	1	20	5.0	5.0	✓
Sulfate in Water by IC	E235.SO4	2234747	1	20	5.0	5.0	✓
Alkalinity Species by Titration	E290	2234754	1	18	5.5	5.0	✓
Ammonia by Fluorescence	E298	2234831	1	20	5.0	5.0	✓
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	2234596	1	13	7.6	5.0	✓
Total Cyanide	E333	2249163	3	50	6.0	5.0	✓
WAD Cyanide	E336	2249165	3	36	8.3	5.0	✓
Free Cyanide	E339	2249164	3	37	8.1	5.0	✓
Cyanate by Ion Selective Electrode	E343	2254990	1	18	5.5	5.0	✓
Thiocyanate by Colourimetry	E344	2242070	1	18	5.5	5.0	✓
Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)	E355-L	2234828	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	2233395	1	15	6.6	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2234835	1	20	5.0	5.0	✓
Total Metals in Water by CRC ICPMS	E420	2234839	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	2234501	1	3	33.3	5.0	✓
Total Mercury in Water by CVAFS (Low Level, LOR = 0.5 ppt)	E508-L	2247921	2	39	5.1	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	2237690	1	20	5.0	5.0	✓
Total Methylmercury in Water by GCAFS	E536	2267517	1	20	5.0	5.0	✓
Biochemical Oxygen Demand - 5 day	E550	2232698	1	15	6.6	5.0	✓
Laboratory Control Samples (LCS)							
TSS by Gravimetry	E160	2234661	1	15	6.6	5.0	✓
TDS by Gravimetry	E162	2234658	1	19	5.2	5.0	✓
Bromide in Water by IC	E235.Br	2234742	1	19	5.2	5.0	✓
Chloride in Water by IC	E235.Cl	2234746	1	20	5.0	5.0	✓
Fluoride in Water by IC	E235.F	2234743	1	19	5.2	5.0	✓
Nitrite in Water by IC	E235.NO2	2234745	1	20	5.0	5.0	✓
Nitrate in Water by IC	E235.NO3	2234744	1	20	5.0	5.0	✓
Sulfate in Water by IC	E235.SO4	2234747	1	20	5.0	5.0	✓
Alkalinity Species by Titration	E290	2234754	1	18	5.5	5.0	✓
Ammonia by Fluorescence	E298	2234831	1	20	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
Laboratory Control Samples (LCS) - Continued							
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	2234596	1	13	7.6	5.0	✔
Total Cyanide	E333	2249163	3	50	6.0	5.0	✔
WAD Cyanide	E336	2249165	3	36	8.3	5.0	✔
Free Cyanide	E339	2249164	3	37	8.1	5.0	✔
Cyanate by Ion Selective Electrode	E343	2254990	1	18	5.5	5.0	✔
Thiocyanate by Colourimetry	E344	2242070	1	18	5.5	5.0	✔
Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)	E355-L	2234828	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	2233395	1	15	6.6	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2234835	1	20	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	2234839	1	20	5.0	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	2234501	1	3	33.3	5.0	✔
Total Mercury in Water by CVAFS (Low Level, LOR = 0.5 ppt)	E508-L	2247921	2	39	5.1	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	2237690	1	20	5.0	5.0	✔
Total Methylmercury in Water by GCAFS	E536	2267517	1	20	5.0	5.0	✔
Biochemical Oxygen Demand - 5 day	E550	2232698	1	15	6.6	5.0	✔
Chlorophyll-a by Fluorometry (Field Filtered µg)	E870A	2243054	1	1	100.0	5.0	✔
Method Blanks (MB)							
TSS by Gravimetry	E160	2234661	1	15	6.6	5.0	✔
TDS by Gravimetry	E162	2234658	1	19	5.2	5.0	✔
Bromide in Water by IC	E235.Br	2234742	1	19	5.2	5.0	✔
Chloride in Water by IC	E235.Cl	2234746	1	20	5.0	5.0	✔
Fluoride in Water by IC	E235.F	2234743	1	19	5.2	5.0	✔
Nitrite in Water by IC	E235.NO2	2234745	1	20	5.0	5.0	✔
Nitrate in Water by IC	E235.NO3	2234744	1	20	5.0	5.0	✔
Sulfate in Water by IC	E235.SO4	2234747	1	20	5.0	5.0	✔
Alkalinity Species by Titration	E290	2234754	1	18	5.5	5.0	✔
Ammonia by Fluorescence	E298	2234831	1	20	5.0	5.0	✔
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	2234596	1	13	7.6	5.0	✔
Total Cyanide	E333	2249163	3	50	6.0	5.0	✔
WAD Cyanide	E336	2249165	3	36	8.3	5.0	✔
Free Cyanide	E339	2249164	3	37	8.1	5.0	✔
Cyanate by Ion Selective Electrode	E343	2254990	1	18	5.5	5.0	✔
Thiocyanate by Colourimetry	E344	2242070	1	18	5.5	5.0	✔
Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)	E355-L	2234828	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	2233395	1	15	6.6	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2234835	1	20	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	2234839	1	20	5.0	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	2234501	1	3	33.3	5.0	✔
Total Mercury in Water by CVAFS (Low Level, LOR = 0.5 ppt)	E508-L	2247921	2	39	5.1	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							
Dissolved Mercury in Water by CVAAS	E509	2237690	1	20	5.0	5.0	✔
Total Methylmercury in Water by GCAFS	E536	2267517	1	20	5.0	5.0	✔
Biochemical Oxygen Demand - 5 day	E550	2232698	1	15	6.6	5.0	✔
Chlorophyll-a by Fluorometry (Field Filtered µg)	E870A	2243054	1	1	100.0	5.0	✔
Matrix Spikes (MS)							
Bromide in Water by IC	E235.Br	2234742	1	19	5.2	5.0	✔
Chloride in Water by IC	E235.Cl	2234746	1	20	5.0	5.0	✔
Fluoride in Water by IC	E235.F	2234743	1	19	5.2	5.0	✔
Nitrite in Water by IC	E235.NO2	2234745	1	20	5.0	5.0	✔
Nitrate in Water by IC	E235.NO3	2234744	1	20	5.0	5.0	✔
Sulfate in Water by IC	E235.SO4	2234747	1	20	5.0	5.0	✔
Ammonia by Fluorescence	E298	2234831	1	20	5.0	5.0	✔
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	2234596	1	13	7.6	5.0	✔
Total Cyanide	E333	2249163	3	50	6.0	5.0	✔
WAD Cyanide	E336	2249165	3	36	8.3	5.0	✔
Free Cyanide	E339	2249164	3	37	8.1	5.0	✔
Cyanate by Ion Selective Electrode	E343	2254990	1	18	5.5	5.0	✔
Thiocyanate by Colourimetry	E344	2242070	1	18	5.5	5.0	✔
Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)	E355-L	2234828	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	2233395	1	15	6.6	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2234835	1	20	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	2234839	1	20	5.0	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	2234501	1	3	33.3	5.0	✔
Total Mercury in Water by CVAFS (Low Level, LOR = 0.5 ppt)	E508-L	2247921	2	39	5.1	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	2237690	1	20	5.0	5.0	✔
Total Methylmercury in Water by GCAFS	E536	2267517	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
TSS by Gravimetry	E160 ALS Environmental - Thunder Bay	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 $104 \pm 1^\circ\text{C}$, 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 - Thunder Bay	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 $180 \pm 2^\circ\text{C}$ for 16 hours or to constant weight, with gravimetric measurement of the residue.
Bromide in Water by IC	E235.Br ALS Environmental - Thunder Bay	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Chloride in Water by IC	E235.Cl ALS Environmental - Thunder Bay	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 - Thunder Bay	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 - Thunder Bay	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 - Thunder Bay	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 - Thunder Bay	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Alkalinity Species by Titration	E290 ALS Environmental - Thunder Bay	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.



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Ammonia by Fluorescence	E298 ALS Environmental - Thunder Bay	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 Kjeldahl Nitrogen by Fluorescence (Low Level)	E318 ALS Environmental - Thunder Bay	Water	Method Fialab 100, 2018	TKN 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 Cyanide	E333 ALS Environmental - Waterloo	Water	ISO 14403 (mod)	Total or Strong Acid Dissociable (SAD) Cyanide is determined by Continuous Flow Analyzer (CFA) with in-line UV digestion followed by colourmetric analysis. Method Limitation: High levels of thiocyanate (SCN) may cause positive interference (up to 0.5% of SCN concentration).
WAD Cyanide	E336 ALS Environmental - Waterloo	Water	APHA 4500-CN I (mod)	Weak Acid Dissociable (WAD) cyanide is determined by Continuous Flow Analyzer (CFA) with in-line distillation followed by colourmetric analysis.
Free Cyanide	E339 ALS Environmental - Waterloo	Water	ASTM D7237 (mod)	Free Cyanide is determined by Continuous Flow Analyzer (CFA) with in-line gas diffusion followed by colourmetric analysis.
Cyanate by Ion Selective Electrode	E343 ALS Environmental - Waterloo	Water	APHA 4500-CN L (mod)	This analysis is carried out using procedures adapted from APHA method 4500-CN "Cyanide". Cyanate is determined by the Cyanate hydrolysis method using an ammonia selective electrode
Thiocyanate by Colourimetry	E344 ALS Environmental - Vancouver	Water	APHA 4500-CN M (mod)	Thiocyanate is determined by the ferric nitrate colourimetric method. Water samples containing high levels of hexavalent chromium, cyanide (together with sulfide), reducing agents, or hydrocarbons may cause negative or positive interferences with this method.
Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)	E355-L ALS Environmental - Thunder Bay	Water	APHA 5310 B (mod)	Total Organic Carbon (Non-Purgeable), also known as NPOC (total), is a direct measurement of TOC after an acidified sample has been purged to remove carbonate-based Inorganic Carbon (IC). Analysis is by high temperature combustion with infrared detection of CO ₂ . Forms of carbon associated with inorganic or organic molecules (e.g. SCN and CN) are included in NPOC if they are not removed by purging under acidic conditions. Notably, NPOC excludes most volatile organic compounds and free cyanide. For samples where the majority of Total Carbon is inorganic, this method provides greater accuracy and reliability versus the TOC by subtraction method (TC minus TIC).



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Dissolved Organic Carbon by Combustion (Low Level)	E358-L ALS Environmental - Thunder Bay	Water	APHA 5310 B (mod)	Dissolved Organic Carbon (Non-Purgeable), also known as NPOC (dissolved), is a direct measurement of DOC after a filtered (0.45 micron) sample has been acidified and purged to remove inorganic carbon (IC). Analysis is by high temperature combustion with infrared detection of CO ₂ . NPOC does not include volatile organic species that are purged off with IC. For samples where the majority of DC (dissolved carbon) is comprised of IC (which is common), this method is more accurate and more reliable than the DOC by subtraction method (i.e. DC minus DIC).
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U ALS Environmental - Thunder Bay	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 - Thunder Bay	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 - Thunder Bay	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 CVAFS (Low Level, LOR = 0.5 ppt)	E508-L ALS Environmental - Vancouver	Water	EPA 1631E (mod)	Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAFS.
Dissolved Mercury in Water by CVAAS	E509 ALS Environmental - Thunder Bay	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.
Total Methylmercury in Water by GCAFS	E536 ALS Environmental - Vancouver	Water	EPA 1630 (mod)	This method follows Method 1630 of the US EPA. Samples are distilled under an inert gas flow to isolate methylmercury and minimize matrix interferences. The distillate is analyzed by aqueous phase ethylation, purge and trap, desorption and GC separation. The separated species are then pyrolyzed to elemental Hg and quantified by cold vapour atomic fluorescence spectroscopy. Results are reported "as MeHg".
Biochemical Oxygen Demand - 5 day	E550 ALS Environmental - Thunder Bay	Water	APHA 5210 B (mod)	Samples are diluted and incubated for a specified time period, after which the oxygen depletion is measured using a dissolved oxygen meter. Free chlorine is a negative interference in the BOD method; please advise ALS when free chlorine is present in samples.
Chlorophyll-a by Fluorometry (Field Filtered µg)	E870A ALS Environmental - Winnipeg	Water	EPA 445.0 (mod)	Chlorophyll-a is determined by solvent extraction followed with analysis by fluorometry using the non-acidification procedure. Sampling volume not provided by client.



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Dissolved Hardness (Calculated)	EC100 ALS Environmental - Thunder Bay	Water	APHA 2340B	"Hardness (as CaCO ₃), dissolved" is calculated from the sum of dissolved Calcium and Magnesium concentrations, expressed in CaCO ₃ 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.
Hardness (Calculated) from Total Ca/Mg	EC100A ALS Environmental - Thunder Bay	Water	APHA 2340B	"Hardness (as CaCO ₃), from total Ca/Mg" is calculated from the sum of total Calcium and Magnesium concentrations, expressed as CaCO ₃ 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 hardness is a property of water due to dissolved divalent cations. In non-turbid waters, Hardness from total Ca/Mg is normally comparable to Dissolved Hardness, but may be biased high if particulate forms of Ca or Mg are present.
Un-ionized and Ionized Ammonia (Calculation) (Field Temperature and pH)	EC298A ALS Environmental - Thunder Bay	Water	CCME CWQG Ammonia	Un-ionized ammonia is calculated from test results for total ammonia, field temperature and pH, and is expressed in units of mg/L "as N".
Total Organic Nitrogen (Calculation)	EC363 ALS Environmental - Thunder Bay	Water	APHA 4500-NORG (TKN)/NH ₃ -NITROGEN (NH ₃)	Total Organic Nitrogen is a calculated parameter. Total Organic Nitrogen = Total Kjeldahl Nitrogen - Ammonia.
Total Nitrogen (calculation)	EC368 ALS Environmental - Thunder Bay	Water	BC MOE LABORATORY MANUAL (2005)	Total Nitrogen is a calculated parameter. Total Nitrogen = Total Kjeldahl Nitrogen + [Nitrate and Nitrite (as N)].
Chlorophyll-a by Fluorometry (Field Filtered µg/L)	EC870A ALS Environmental - Winnipeg	Water	CALC	Convert results to sample concentration based on field information.
Field pH,EC,Salinity, TDS, Cl ₂ ,ClO ₂ ,ORP,DO, Turbidity,T,T-P,o-PO ₄ ,NH ₃ ,Chloramine	EF001 ALS Environmental - Thunder Bay	Water	Field Measurement (Client Supplied)	Field pH,EC,Salinity, TDS, Cl ₂ ,ClO ₂ ,ORP,DO, Turbidity,T,T-P,o-PO ₄ ,NH ₃ or Chloramine measurements provided by client and recorded on ALS report may affect the validity of results.
Field Volume (L)	EF003 ALS Environmental - Winnipeg	Water		Field measurement of sampling volume provided by client and recorded on ALS report may affect the validity of results.
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 - Thunder Bay	Water		Sample preparation for Preserved Nutrients Water Quality Analysis.
Digestion for TKN in water	EP318 ALS Environmental - Thunder Bay	Water	APHA 4500-Norg D (mod)	Samples are digested at high temperature using Sulfuric Acid with Copper catalyst, which converts organic nitrogen sources to Ammonia, which is then quantified by the analytical method as TKN. This method is unsuitable for samples containing high levels of nitrate. If nitrate exceeds TKN concentration by ten times or more, results may be biased low.
Preparation for Total Organic Carbon by Combustion	EP355 ALS Environmental - Thunder Bay	Water		Preparation for Total Organic Carbon by Combustion
Preparation for Dissolved Organic Carbon for Combustion	EP358 ALS Environmental - Thunder Bay	Water	APHA 5310 B (mod)	Preparation for Dissolved Organic Carbon
Digestion for Total Phosphorus in water	EP372 ALS Environmental - Thunder Bay	Water	APHA 4500-P E (mod).	Samples are heated with a persulfate digestion reagent.
Dissolved Metals Water Filtration	EP421 ALS Environmental - Thunder Bay	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO ₃ .
Dissolved Mercury Water Filtration	EP509 ALS Environmental - Thunder Bay	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HCl.
Total Methylmercury Water Preparation	EP536 ALS Environmental - Vancouver	Water	EPA 1630	This method follows Method 1630 of the US EPA. Samples are distilled under an inert gas flow to isolate methylmercury and minimize matrix interferences. The distillate is analyzed by aqueous phase ethylation, purge and trap, desorption and GC separation. The separated species are then pyrolyzed to elemental Hg and quantified by cold vapour atomic fluorescence spectroscopy. Results are reported "as MeHg".
Chlorophyll-a Extraction (Field Filtered)	EP870A ALS Environmental - Winnipeg	Water	EPA 445.0 (mod)	Chlorophyll-a solvent extraction.



COC Number: 22 -

Page 2 of 6

Canada Toll Free: 1 800 668 9878

~~Environmental Division~~
Thunder Bay
Work Order Reference
TY2510706

Report To		Contact and company name below will appear on the final report		Reports / Recipients		Turnaround Time (TAT) Required	
Company:	G3 Consulting Ltd.	Select Report Format:	☒ PDF ☒ EXCEL ☐ EDD (DIGITAL)			☒ Routine [R] If received by 3pm M-F - no surcharges apply ☐ 1 day [P1] If received by 3pm M-F - 25% rush surcharge ml ☐ 3 day [P3] If received by 3pm M-F - 25% rush surcharge ml ☐ 2 day [P2] If received by 3pm M-F - 50% rush surcharge ml ☐ 1 day [E] If received by 3pm M-F - 100% rush surcharge ml ☐ Same day [E2] If received by 10am M-S - 200% rush surcharge ml	
Contact:	Greg Thomas	Merge QC/QCI Reports with COA	☒ YES ☐ NO ☐ N/A			Additional fees may apply to rush requests on week	
Phone:	604-598-8501	☒ Compare Results to Criteria on Report - provide details below if box checked				Date and Time Required for all E&P TATs:	
Company address below will appear on the final report		Select Distribution:	☒ EMAIL ☐ MAIL ☐ FAX			For all tests with rush TATs requested, please	
Street:	208-8501 162 St	Email 1 or Fax	kallison@g3consulting.com; cwlson@g3consulting.com			Analysis Request	
City/Province:	Surrey, BC	Email 2	equarehie@g3consulting.com; rfarrel@g3consulting.com			Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below	
Postal Code:	V4N 1B2	Email 3	gthomas@g3consulting.com; mlyto@g3consulting.com			NUMBER OF CONTAINERS	
Invoice To	Same as Report To ☐ YES ☒ NO	Invoice Recipients				Hardness (CPI) & m-volatility	
Copy of Invoice with Report	☐ YES ☒ NO	Select Invoice Distribution:	☒ EMAIL ☐ MAIL ☐ FAX			Total Suspended Solids & Total Dissolved Solids	
Company:	G3 Consulting Ltd.	Email 1 or Fax	sjohnson@g3consulting.com			Total Organic Carbon & Total Phosphorus	
Contact:		Email 2	info@g3consulting.com			Total & Unleached Aromatics & THW & TN	
Project Information		Oil and Gas Required Fields (client use)				Major Anions (Br, Cl, F, NO2, NO3, SO4)	
ALS Account # / Quote #:	G3CO100 / WT2025G3CO1000001	A/E/Cost Center:	PO#			Total & free cyanide (incl. WAO cyanide)	
Job #:	2502	Major/Minor Code:	Routing Code:			Radium-226	
PO / A/E:	2502	Requisitioner:				Total Metals	
LSD:		Location:				Total Mercury (Ultra-trace)	
ALS Lab Work Order # (ALS use only): 1425		ALS Contact:	Sampler:			DOC & BOD5	
ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)			Date (dd-mm-yy)	Time (hh:mm)	Sample Type	Dissolved Metals & Dissolved Mercury
1	25ONG309 HL-500-11-T	17	-Sept-2025	15:36	Water	R	Total and dissolved Methmercury (ultra trace)
2	25ONG309 HL-500-11-B	17	-Sept-2025	15:07	Water	R	Thiocyanate & Cyanate
3	25ONG309 DUP1	18	-Sept-2025	11:58	Water	R	Chlorophyll-a
4	25ONG309 DUP2	17	-Sept-2025	15:07	Water	R	SAMPLES ON HOLD
	25ONG309 HL-REF-M		-Sept-2025		Water	R	EXTENDED STORAGE REQUIRED
	25ONG309 HL-REF-B		-Sept-2025		Water	R	SUSPECTED HAZARD (see notes)
	25ONG309 HL-REF-W		-Sept-2025		Water	R	
	25ONG309 HL-REF-H		-Sept-2025		Water	R	
5	25ONG309 HL-REF-M	17	-Sept-2025	10:27	Water	R	
	25ONG309 HL-REF-B		-Sept-2025		Water	R	
	25ONG309 HL-REF-W		-Sept-2025		Water	R	
	25ONG309 HL-REF-H		-Sept-2025		Water	R	
	25ONG309 HL-REF-M		-Sept-2025		Water	R	
	25ONG309 HL-REF-B		-Sept-2025		Water	R	
	25ONG309 HL-REF-W		-Sept-2025		Water	R	
	25ONG309 HL-REF-H		-Sept-2025		Water	R	
Drinking Water (DW) Samples ¹ (client use)		Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)		SAMPLE RECEIPT DETAILS (ALS use only)			
Are samples taken from a Regulated DW System? ☐ YES ☐ NO		[Combined] - Ontario PWQO+CCME-FAL-WATER Federal Metal Mining Effluent Regulation (JUN, 2002)		Cooling Method: ☐ NONE ☒ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED			
Are samples for human consumption/use? ☐ YES ☐ NO				Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO			
				Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A			
				INITIAL COOLER TEMPERATURES °C FINAL COOLER TEMPERATURES °C			
				14.0 0.9 1.2 1.2 C.I. 2.2 1.7 2.8			
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (ALS use only)		FINAL SHIPMENT RECEPTION (ALS use only)			
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white-report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

9/8 x drop

Intake and Login Verification Form

SAMPLE INTAKE			
Priority/Emergency Service Requested	YES	NO	
Time Sensitive Hold Time	YES	NO	
Client:			
SAMPLE RECEIPT INFORMATION			
Mode of Delivery:	Courier	Drop Off	
Courier			
Waybill Number			
Temperature	Cooler Count		
Cooling Method	None	Ice	Ice Packs
SAMPLE MATRIX/BOTTLE INFORMATION			
Matrix:	Water	Soil	Air
		Biota	Other
DW Schedule 24 Bottles Correct?	Yes	No	
DW Metals pH Check <2	Yes	No	
Regulation Circled, Works # present	Yes	No Reject?	
# of Bottles:	15	Sample Count	5
Green/white	2x5 W		
Purple/white	3N 1DOC		
Warm red/white	SM 1DM 5Rad 1thioy		
Yellow/black	5thg 1Dthg 1tot. meththg. 1DM		
Light blue/white			
Orange/black			
Others (detail)	1 ultra trace thg. 1 chlomophyll. 2 cyanate. 5 cm.		
Comments on Samples and Bottles: missing Col pg 5-6. didn't ensure DW quantities. Thiocyanate for trac. 5 (DEF-M) would empty. Please see attached.			
Samples Requiring Preservation or Filtering:			
Layout Staff Initials	mfg 9-22-25		
Date and Time of Layout			

ACCOUNT INFO VERIFICATION		
Priority/Emergency Service Requested	YES	NO
Confirmed all as accurate as per COC, Sample Remarks or PM		
Client	Work Contact	Quote
RECEIPT DETAIL		
Project	PO	Site/LSD
Overall Description Entered	Yes	NA
Received date/time as per COC		
Recipients match CoC or Sample Remarks	Yes	No
Billing Instruction added to remarks	Yes	NA
Sample Remarks/Specification Doc checked	Yes	NA
Submission Issues communicated	Yes	NA
Sample Info communicated via Remarks	Yes	NA
VERIFICATION CHECKLIST		
Planned Event Submission	Yes	No
Sample Name entered as per CoC		
Sampling Date and time entered as per CoC		
Containers selected in layout order		
Sales items entered from QUOTE ONLY (and/or verified as correct)		
Field Data/EC298A removed if not on COC	Yes	NA
Bottle Allocation Verified		
Guideline added or auto-allocated		
Due dates updated		
VALIDATION		
Validation errors resolved?	Yes	No
Internal Sublet CoC created	Yes	NA
Login Comments:		
pou off for less met 4 thioyanate for Fr-5-		
Login Staff Initials:		

less metals
- 40ml
+ 40ml

10:43 am

Please see back →

CERTIFICATE OF ANALYSIS

Work Order	: TY2510716		
Client	: G3 Consulting Ltd.	Laboratory	: ALS Environmental - Thunder Bay
Contact	: Greg Thomas	Account Manager	: Colby Coutu
Address	: 206-8501 162nd St. Surrey British Columbia Canada V4N 1B2	Address	: 1081 Barton Street Thunder Bay ON Canada P7B 5N3
Telephone	: 604 598 8501	E-mail	: colby.coutu@alsglobal.com
Project	: 2502	Telephone	: +1 807 623 6463
PO	: 2502	Date Samples Received	: 19-Sep-2025 16:51
C-O-C number	: ----	Date Analysis Commenced	: 22-Sep-2025
Sampler	: ----	Issue Date	: 18-Nov-2025 10:51
Site	: ----		
Quote number	: Dubreuilville Project		
No. of samples received	: 12		
No. of samples analysed	: 12		

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.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Cassandra Grzelewski	Team Leader - Inorganics	Inorganics, Thunder Bay, Ontario
Cassandra Grzelewski	Team Leader - Inorganics	Metals, Thunder Bay, Ontario
Julie Ruoho	Teamleader Wet Chem	Metals, Thunder Bay, Ontario
Julie Ruoho	Teamleader Wet Chem	Inorganics, Thunder Bay, Ontario
Julie Ruoho	Account Manager	External Subcontracting, Saskatoon, Saskatchewan
Kevin Baxter	Supervisor - Inorganic	Inorganics, Winnipeg, Manitoba
Kevin Baxter	Supervisor - Inorganic	Administration, Winnipeg, Manitoba
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Metals, Burnaby, British Columbia
Madison Mancusa	Laboratory Analyst	Inorganics, Thunder Bay, Ontario
Monica Ko	Supervisor - Inorganic	Inorganics, Burnaby, British Columbia
Nik Perkio	Senior Analyst	Inorganics, Waterloo, Ontario
Rhiannon Scheffee	Project Manager	Metals, Thunder Bay, Ontario
Shannon Veltri	Supervisor - Water Chemistry	Metals, Thunder Bay, Ontario
Shannon Veltri	Supervisor - Water Chemistry	Inorganics, Thunder Bay, Ontario
Viola Grebowicz	Laboratory Analyst	Inorganics, Thunder Bay, Ontario

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).

Unit	Description
-	no units
Bq/L	becquerels per litre
L	litres
mg/L	milligrams per litre
ng/L	nanograms per litre
µg/L	micrograms per litre
µg/sample	micrograms per sample

<: less than.

>: greater than.

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.

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
M	Peak has been manually integrated.



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG309 OL-100 ----	25ONG309 OL-250 ----	25ONG309 HL-B ----	25ONG309 HL-REF ----	25ONG309 HL-280-07-M ----
Client sampling date / time						18-Sep-2025 11:58	17-Sep-2025 17:10	17-Sep-2025 13:00	17-Sep-2025 10:27	17-Sep-2025 16:38
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510716-001	TY2510716-002	TY2510716-003	TY2510716-004	TY2510716-005
						Result	Result	Result	Result	Result
Field Tests										
Sampling volume, field	----	EF003/WP	0.010	L		0.350	0.550	1.00	0.500	----
Physical Tests										
Hardness (as CaCO ₃), from total Ca/Mg	----	EC100A/TY	0.50	mg/L		----	----	----	----	78.8
Solids, total dissolved [TDS]	----	E162/TY	10	mg/L		----	----	----	----	110
Solids, total suspended [TSS]	----	E160/TY	3.0	mg/L		----	----	----	----	<3.0
Alkalinity, total (as CaCO ₃)	----	E290/TY	2.0	mg/L		----	----	----	----	73.2
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/TY	0.0050	mg/L		----	----	----	----	0.0059
Bromide	24959-67-9	E235.Br/TY	0.10	mg/L		----	----	----	----	<0.10
Chloride	16887-00-6	E235.Cl/TY	0.50	mg/L		----	----	----	----	2.10
Fluoride	16984-48-8	E235.F/TY	0.020	mg/L		----	----	----	----	0.044
Kjeldahl nitrogen, total [TKN]	----	E318/TY	0.050	mg/L		----	----	----	----	0.294
Nitrate (as N)	14797-55-8	E235.NO3/TY	0.020	mg/L		----	----	----	----	0.322
Nitrite (as N)	14797-65-0	E235.NO2/TY	0.010	mg/L		----	----	----	----	<0.010
Nitrogen, total	7727-37-9	EC368/TY	0.050	mg/L		----	----	----	----	0.616
Nitrogen, total organic	----	EC363/TY	0.050	mg/L		----	----	----	----	0.288
Phosphorus, total	7723-14-0	E372-U/TY	0.0020	mg/L		----	----	----	----	0.0064
Sulfate (as SO ₄)	14808-79-8	E235.SO4/TY	0.30	mg/L		----	----	----	----	14.2
Cyanides										
Cyanide, free	----	E339/WT	0.0020	mg/L		----	----	----	----	0.0031
Cyanide, strong acid dissociable (Total)	----	E333/WT	0.0020	mg/L		----	----	----	----	<0.0020



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG309 OL-100 ----	25ONG309 OL-250 ----	25ONG309 HL-B ----	25ONG309 HL-REF ----	25ONG309 HL-280-07-M ----
Client sampling date / time						18-Sep-2025 11:58	17-Sep-2025 17:10	17-Sep-2025 13:00	17-Sep-2025 10:27	17-Sep-2025 16:38
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510716-001	TY2510716-002	TY2510716-003	TY2510716-004	TY2510716-005
						Result	Result	Result	Result	Result
Cyanides										
Cyanide, weak acid dissociable	----	E336/WT	0.0020	mg/L		----	----	----	----	<0.0020
Organic / Inorganic Carbon										
Carbon, total organic [TOC]	----	E355-L/TY	0.50	mg/L		----	----	----	----	6.50
Total Metals										
Aluminum, total	7429-90-5	E420/TY	0.0030	mg/L		----	----	----	----	0.0037
Antimony, total	7440-36-0	E420/TY	0.00010	mg/L		----	----	----	----	<0.00010
Arsenic, total	7440-38-2	E420/TY	0.00010	mg/L		----	----	----	----	0.00057
Barium, total	7440-39-3	E420/TY	0.00010	mg/L		----	----	----	----	0.0156
Beryllium, total	7440-41-7	E420/TY	0.000020	mg/L		----	----	----	----	<0.000020
Bismuth, total	7440-69-9	E420/TY	0.000050	mg/L		----	----	----	----	<0.000050
Boron, total	7440-42-8	E420/TY	0.010	mg/L		----	----	----	----	<0.010
Cadmium, total	7440-43-9	E420/TY	0.0000050	mg/L		----	----	----	----	<0.0000050
Calcium, total	7440-70-2	E420/TY	0.050	mg/L		----	----	----	----	26.7
Cesium, total	7440-46-2	E420/TY	0.000010	mg/L		----	----	----	----	0.000051
Chromium, total	7440-47-3	E420/TY	0.00050	mg/L		----	----	----	----	<0.00050
Cobalt, total	7440-48-4	E420/TY	0.00010	mg/L		----	----	----	----	0.00013
Copper, total	7440-50-8	E420/TY	0.00050	mg/L		----	----	----	----	0.00053
Iron, total	7439-89-6	E420/TY	0.010	mg/L		----	----	----	----	0.060
Lead, total	7439-92-1	E420/TY	0.000050	mg/L		----	----	----	----	<0.000050
Lithium, total	7439-93-2	E420/TY	0.0010	mg/L		----	----	----	----	<0.0010
Magnesium, total	7439-95-4	E420/TY	0.0050	mg/L		----	----	----	----	2.94



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG309 OL-100 ----	25ONG309 OL-250 ----	25ONG309 HL-B ----	25ONG309 HL-REF ----	25ONG309 HL-280-07-M ----
Client sampling date / time						18-Sep-2025 11:58	17-Sep-2025 17:10	17-Sep-2025 13:00	17-Sep-2025 10:27	17-Sep-2025 16:38
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510716-001	TY2510716-002	TY2510716-003	TY2510716-004	TY2510716-005
						Result	Result	Result	Result	Result
Total Metals										
Manganese, total	7439-96-5	E420/TY	0.00010	mg/L		----	----	----	----	0.0677
Mercury, total	7439-97-6	E508-LVA	0.50	ng/L		----	----	----	----	<0.50
Molybdenum, total	7439-98-7	E420/TY	0.000050	mg/L		----	----	----	----	0.000402
Nickel, total	7440-02-0	E420/TY	0.00050	mg/L		----	----	----	----	<0.00050
Phosphorus, total	7723-14-0	E420/TY	0.050	mg/L		----	----	----	----	<0.050
Potassium, total	7440-09-7	E420/TY	0.050	mg/L		----	----	----	----	1.62
Rubidium, total	7440-17-7	E420/TY	0.00020	mg/L		----	----	----	----	0.00330
Selenium, total	7782-49-2	E420/TY	0.000050	mg/L		----	----	----	----	0.000076
Silicon, total	7440-21-3	E420/TY	0.10	mg/L		----	----	----	----	2.41
Silver, total	7440-22-4	E420/TY	0.000010	mg/L		----	----	----	----	<0.000010
Sodium, total	7440-23-5	E420/TY	0.050	mg/L		----	----	----	----	3.72
Strontium, total	7440-24-6	E420/TY	0.00020	mg/L		----	----	----	----	0.144
Sulfur, total	7704-34-9	E420/TY	0.50	mg/L		----	----	----	----	4.72
Tellurium, total	13494-80-9	E420/TY	0.00020	mg/L		----	----	----	----	<0.00020
Thallium, total	7440-28-0	E420/TY	0.000010	mg/L		----	----	----	----	<0.000010
Thorium, total	7440-29-1	E420/TY	0.00010	mg/L		----	----	----	----	<0.00010
Tin, total	7440-31-5	E420/TY	0.00010	mg/L		----	----	----	----	<0.00010
Titanium, total	7440-32-6	E420/TY	0.00030	mg/L		----	----	----	----	<0.00030
Tungsten, total	7440-33-7	E420/TY	0.00010	mg/L		----	----	----	----	<0.00010
Uranium, total	7440-61-1	E420/TY	0.000010	mg/L		----	----	----	----	0.000182
Vanadium, total	7440-62-2	E420/TY	0.00050	mg/L		----	----	----	----	<0.00050



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG309 OL-100 ----	25ONG309 OL-250 ----	25ONG309 HL-B ----	25ONG309 HL-REF ----	25ONG309 HL-280-07-M ----
Client sampling date / time						18-Sep-2025 11:58	17-Sep-2025 17:10	17-Sep-2025 13:00	17-Sep-2025 10:27	17-Sep-2025 16:38
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510716-001	TY2510716-002	TY2510716-003	TY2510716-004	TY2510716-005
						Result	Result	Result	Result	Result
Total Metals										
Zinc, total	7440-66-6	E420/TY	0.0030	mg/L		----	----	----	----	<0.0030
Zirconium, total	7440-67-7	E420/TY	0.00020	mg/L		----	----	----	----	<0.00020
Plant Pigments										
Chlorophyll a	479-61-8	EC870A/WP	0.010	µg/L		1.55	2.04	1.13	2.46	----
Chlorophyll a	479-61-8	E870A/WP	0.0020	µg/sample		0.543	1.12	1.13	1.23	----
Radiological Parameters										
Radium-226	13982-63-3	Ra-226/2I	0.005	Bq/L		----	----	----	----	<0.005

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

Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG309 HL-280-09-M ----	25ONG309 HL-280-11-M ----	25ONG309 HL-500-07-M ----	25ONG309 HL-500-11-M ----	25ONG309 HL-250-07-T ----
Client sampling date / time						17-Sep-2025 16:05	17-Sep-2025 15:24	17-Sep-2025 12:32	17-Sep-2025 15:24	17-Sep-2025 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510716-006	TY2510716-007	TY2510716-008	TY2510716-009	TY2510716-010
						Result	Result	Result	Result	Result
Physical Tests										
Hardness (as CaCO ₃), from total Ca/Mg	----	EC100A/TY	0.50	mg/L		75.0	94.7	80.3	88.4	95.4
Solids, total dissolved [TDS]	----	E162/TY	10	mg/L		106	146	118	133	134
Solids, total suspended [TSS]	----	E160/TY	3.0	mg/L		<3.0	<3.0	<3.0	<3.0	<3.0
Alkalinity, total (as CaCO ₃)	----	E290/TY	2.0	mg/L		70.5	75.8	73.2	75.9	76.9
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/TY	0.0050	mg/L		<0.0050	0.0157	0.0431	0.0114	0.0180
Bromide	24959-67-9	E235.Br/TY	0.10	mg/L		<0.10	<0.10	<0.10	<0.10	<0.10



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG309 HL-280-09-M	25ONG309 HL-280-11-M	25ONG309 HL-500-07-M	25ONG309 HL-500-11-M	25ONG309 HL-250-07-T
					Client sampling date / time	17-Sep-2025 16:05	17-Sep-2025 15:24	17-Sep-2025 12:32	17-Sep-2025 15:24	17-Sep-2025 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510716-006	TY2510716-007	TY2510716-008	TY2510716-009	TY2510716-010
						Result	Result	Result	Result	Result
Anions and Nutrients										
Chloride	16887-00-6	E235.Cl/TY	0.50	mg/L		2.13	3.42	2.49	3.41	3.48
Fluoride	16984-48-8	E235.F/TY	0.020	mg/L		0.043	0.048	0.044	0.050	0.055
Kjeldahl nitrogen, total [TKN]	----	E318/TY	0.050	mg/L		0.386	0.426	0.393	0.439	0.458
Nitrate (as N)	14797-55-8	E235.NO3/TY	0.020	mg/L		0.296	0.598	0.331	0.508	0.580
Nitrite (as N)	14797-65-0	E235.NO2/TY	0.010	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010
Nitrogen, total	7727-37-9	EC368/TY	0.050	mg/L		0.682	1.02	0.724	0.947	1.04
Nitrogen, total organic	----	EC363/TY	0.050	mg/L		0.386	0.410	0.350	0.428	0.440
Phosphorus, total	7723-14-0	E372-U/TY	0.0020	mg/L		0.0057	0.0062	0.0062	0.0063	0.0065
Sulfate (as SO4)	14808-79-8	E235.SO4/TY	0.30	mg/L		14.0	27.4	17.6	25.4	26.9
Cyanides										
Cyanide, free	----	E339/WT	0.0020	mg/L		0.0034	0.0040	<0.0020	<0.0020	<0.0020
Cyanide, strong acid dissociable (Total)	----	E333/WT	0.0020	mg/L		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cyanide, weak acid dissociable	----	E336/WT	0.0020	mg/L		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Organic / Inorganic Carbon										
Carbon, total organic [TOC]	----	E355-L/TY	0.50	mg/L		7.54	8.70	7.06	8.35	8.30
Total Metals										
Aluminum, total	7429-90-5	E420/TY	0.0030	mg/L		0.0053	0.0114	0.0063	0.0123	0.0111
Antimony, total	7440-36-0	E420/TY	0.00010	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Arsenic, total	7440-38-2	E420/TY	0.00010	mg/L		0.00070	0.00066	0.00064	0.00064	0.00066
Barium, total	7440-39-3	E420/TY	0.00010	mg/L		0.0152	0.0164	0.0151	0.0151	0.0161
Beryllium, total	7440-41-7	E420/TY	0.000020	mg/L		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG309 HL-280-09-M	25ONG309 HL-280-11-M	25ONG309 HL-500-07-M	25ONG309 HL-500-11-M	25ONG309 HL-250-07-T
					Client sampling date / time	17-Sep-2025 16:05	17-Sep-2025 15:24	17-Sep-2025 12:32	17-Sep-2025 15:24	17-Sep-2025 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510716-006	TY2510716-007	TY2510716-008	TY2510716-009	TY2510716-010
						Result	Result	Result	Result	Result
Total Metals										
Bismuth, total	7440-69-9	E420/TY	0.000050	mg/L		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Boron, total	7440-42-8	E420/TY	0.010	mg/L		<0.010	0.012	<0.010	0.016	0.013
Cadmium, total	7440-43-9	E420/TY	0.0000050	mg/L		0.0000146	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Calcium, total	7440-70-2	E420/TY	0.050	mg/L		25.4	31.8	27.1	29.6	32.1
Cesium, total	7440-46-2	E420/TY	0.000010	mg/L		0.000050	0.000074	0.000058	0.000073	0.000074
Chromium, total	7440-47-3	E420/TY	0.00050	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt, total	7440-48-4	E420/TY	0.00010	mg/L		0.00024	0.00019	0.00015	0.00018	0.00019
Copper, total	7440-50-8	E420/TY	0.00050	mg/L		0.00259	0.00088	0.00072	0.00092	0.00094
Iron, total	7439-89-6	E420/TY	0.010	mg/L		0.040	<0.010	0.021	<0.010	<0.010
Lead, total	7439-92-1	E420/TY	0.000050	mg/L		<0.000050	0.000092	<0.000050	0.000118	0.000057
Lithium, total	7439-93-2	E420/TY	0.0010	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Magnesium, total	7439-95-4	E420/TY	0.0050	mg/L		2.80	3.71	3.07	3.53	3.71
Manganese, total	7439-96-5	E420/TY	0.00010	mg/L		0.0584	0.00898	0.0319	0.00938	0.00966
Mercury, total	7439-97-6	E508-L/VA	0.50	ng/L		<0.50	0.61	<0.50	0.61	0.63
Molybdenum, total	7439-98-7	E420/TY	0.000050	mg/L		0.000437	0.000720	0.000537	0.000724	0.000727
Nickel, total	7440-02-0	E420/TY	0.00050	mg/L		0.00077	<0.00050	<0.00050	<0.00050	<0.00050
Phosphorus, total	7723-14-0	E420/TY	0.050	mg/L		<0.050	<0.050	<0.050	<0.050	<0.050
Potassium, total	7440-09-7	E420/TY	0.050	mg/L		1.54	1.85	1.66	1.77	1.84
Rubidium, total	7440-17-7	E420/TY	0.00020	mg/L		0.00305	0.00349	0.00351	0.00374	0.00358
Selenium, total	7782-49-2	E420/TY	0.000050	mg/L		0.000079	0.000100	0.000117	0.000070	0.000098
Silicon, total	7440-21-3	E420/TY	0.10	mg/L		2.10	1.15	1.68	1.11	1.13



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG309 HL-280-09-M	25ONG309 HL-280-11-M	25ONG309 HL-500-07-M	25ONG309 HL-500-11-M	25ONG309 HL-250-07-T
					Client sampling date / time	17-Sep-2025 16:05	17-Sep-2025 15:24	17-Sep-2025 12:32	17-Sep-2025 15:24	17-Sep-2025 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510716-006	TY2510716-007	TY2510716-008	TY2510716-009	TY2510716-010
						Result	Result	Result	Result	Result
Total Metals										
Silver, total	7440-22-4	E420/TY	0.000010	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Sodium, total	7440-23-5	E420/TY	0.050	mg/L		3.64	5.38	4.14	5.11	5.30
Strontium, total	7440-24-6	E420/TY	0.00020	mg/L		0.146	0.165	0.148	0.160	0.165
Sulfur, total	7704-34-9	E420/TY	0.50	mg/L		4.91	9.42	5.91	8.59	9.60
Tellurium, total	13494-80-9	E420/TY	0.00020	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Thallium, total	7440-28-0	E420/TY	0.000010	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Thorium, total	7440-29-1	E420/TY	0.00010	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Tin, total	7440-31-5	E420/TY	0.00010	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Titanium, total	7440-32-6	E420/TY	0.00030	mg/L		<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Tungsten, total	7440-33-7	E420/TY	0.00010	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Uranium, total	7440-61-1	E420/TY	0.000010	mg/L		0.000163	0.000290	0.000188	0.000274	0.000301
Vanadium, total	7440-62-2	E420/TY	0.00050	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Zinc, total	7440-66-6	E420/TY	0.0030	mg/L		<0.0030	<0.0030	0.0068	<0.0030	<0.0030
Zirconium, total	7440-67-7	E420/TY	0.00020	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Radiological Parameters										
Radium-226	13982-63-3	Ra-226/2l	0.005	Bq/L		<0.005	<0.005	<0.005	<0.005	<0.005

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



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					25ONG309 HL-250-07-B	Trip Blank	----	----	----
Client sampling date / time					17-Sep-2025 12:00	17-Sep-2025 12:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510716-011	TY2510716-012	----	----	----
					Result	Result	----	----	----
Sample Preparation									
Dissolved carbon filtration location	----	EP358/TY	-	-	----	field	----	----	----
Physical Tests									
Hardness (as CaCO ₃), dissolved	----	EC100/TY	0.50	mg/L	----	<0.50	----	----	----
Hardness (as CaCO ₃), from total Ca/Mg	----	EC100A/TY	0.50	mg/L	77.9	<0.50	----	----	----
Solids, total dissolved [TDS]	----	E162/TY	10	mg/L	113	<10	----	----	----
Solids, total suspended [TSS]	----	E160/TY	3.0	mg/L	<3.0	<3.0	----	----	----
Alkalinity, total (as CaCO ₃)	----	E290/TY	2.0	mg/L	72.3	<2.0	----	----	----
Anions and Nutrients									
Ammonia, total (as N)	7664-41-7	E298/TY	0.0050	mg/L	0.0071	<0.0050	----	----	----
Bromide	24959-67-9	E235.Br/TY	0.10	mg/L	<0.10	<0.10	----	----	----
Chloride	16887-00-6	E235.Cl/TY	0.50	mg/L	2.22	<0.50	----	----	----
Cyanate	88402-73-7	E343/WT	0.20	mg/L	----	<0.20	----	----	----
Fluoride	16984-48-8	E235.F/TY	0.020	mg/L	0.049	<0.020	----	----	----
Kjeldahl nitrogen, total [TKN]	----	E318/TY	0.050	mg/L	0.307	<0.050	----	----	----
Nitrate (as N)	14797-55-8	E235.NO ₃ /TY	0.020	mg/L	0.336	<0.020	----	----	----
Nitrite (as N)	14797-65-0	E235.NO ₂ /TY	0.010	mg/L	<0.010	<0.010	----	----	----
Nitrogen, total	7727-37-9	EC368/TY	0.050	mg/L	0.643	<0.055	----	----	----
Nitrogen, total organic	----	EC363/TY	0.050	mg/L	0.300	<0.051	----	----	----
Phosphorus, total	7723-14-0	E372-U/TY	0.0020	mg/L	0.0073	<0.0020	----	----	----
Sulfate (as SO ₄)	14808-79-8	E235.SO ₄ /TY	0.30	mg/L	14.3	<0.30	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					25ONG309 HL-250-07-B	Trip Blank	----	----	----
Client sampling date / time					17-Sep-2025 12:00	17-Sep-2025 12:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510716-011	TY2510716-012	----	----	----
					Result	Result	----	----	----
Cyanides									
Cyanide, free	----	E339/WT	0.0020	mg/L	<0.0020	<0.0020	----	----	----
Cyanide, strong acid dissociable (Total)	----	E333/WT	0.0020	mg/L	<0.0020	<0.0020	----	----	----
Cyanide, weak acid dissociable	----	E336/WT	0.0020	mg/L	<0.0020	<0.0020	----	----	----
Thiocyanate	302-04-5	E344/VA	0.50	mg/L	----	<0.50	----	----	----
Organic / Inorganic Carbon									
Carbon, dissolved organic [DOC]	----	E358-L/TY	0.50	mg/L	----	<0.50	----	----	----
Carbon, total organic [TOC]	----	E355-L/TY	0.50	mg/L	6.59	<0.50	----	----	----
Total Metals									
Aluminum, total	7429-90-5	E420/TY	0.0030	mg/L	0.0046	<0.0030	----	----	----
Antimony, total	7440-36-0	E420/TY	0.00010	mg/L	<0.00010	<0.00010	----	----	----
Arsenic, total	7440-38-2	E420/TY	0.00010	mg/L	0.00059	<0.00010	----	----	----
Barium, total	7440-39-3	E420/TY	0.00010	mg/L	0.0153	<0.00010	----	----	----
Beryllium, total	7440-41-7	E420/TY	0.000020	mg/L	<0.000020	<0.000020	----	----	----
Bismuth, total	7440-69-9	E420/TY	0.000050	mg/L	<0.000050	<0.000050	----	----	----
Boron, total	7440-42-8	E420/TY	0.010	mg/L	0.010	<0.010	----	----	----
Cadmium, total	7440-43-9	E420/TY	0.0000050	mg/L	<0.0000050	<0.0000050	----	----	----
Calcium, total	7440-70-2	E420/TY	0.050	mg/L	26.4	<0.050	----	----	----
Cesium, total	7440-46-2	E420/TY	0.000010	mg/L	0.000053	<0.000010	----	----	----
Chromium, total	7440-47-3	E420/TY	0.00050	mg/L	<0.00050	<0.00050	----	----	----
Cobalt, total	7440-48-4	E420/TY	0.00010	mg/L	0.00014	<0.00010	----	----	----
Copper, total	7440-50-8	E420/TY	0.00050	mg/L	0.00072	<0.00050	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG309 HL-250-07-B	Trip Blank	----	----	----
					Client sampling date / time	17-Sep-2025 12:00	17-Sep-2025 12:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510716-011	TY2510716-012	----	----	----	----
					Result	Result	----	----	----	----
Total Metals										
Iron, total	7439-89-6	E420/TY	0.010	mg/L	0.068	<0.010	----	----	----	----
Lead, total	7439-92-1	E420/TY	0.000050	mg/L	0.000766	<0.000050	----	----	----	----
Lithium, total	7439-93-2	E420/TY	0.0010	mg/L	<0.0010	<0.0010	----	----	----	----
Magnesium, total	7439-95-4	E420/TY	0.0050	mg/L	2.92	<0.0050	----	----	----	----
Manganese, total	7439-96-5	E420/TY	0.00010	mg/L	0.0797	<0.00010	----	----	----	----
Mercury, total	7439-97-6	E508-L/A	0.50	ng/L	0.57	<0.50	----	----	----	----
Molybdenum, total	7439-98-7	E420/TY	0.000050	mg/L	0.000393	<0.000050	----	----	----	----
Nickel, total	7440-02-0	E420/TY	0.00050	mg/L	<0.00050	<0.00050	----	----	----	----
Phosphorus, total	7723-14-0	E420/TY	0.050	mg/L	<0.050	<0.050	----	----	----	----
Potassium, total	7440-09-7	E420/TY	0.050	mg/L	1.63	<0.050	----	----	----	----
Rubidium, total	7440-17-7	E420/TY	0.00020	mg/L	0.00322	<0.00020	----	----	----	----
Selenium, total	7782-49-2	E420/TY	0.000050	mg/L	0.000086	<0.000050	----	----	----	----
Silicon, total	7440-21-3	E420/TY	0.10	mg/L	2.43	<0.10	----	----	----	----
Silver, total	7440-22-4	E420/TY	0.000010	mg/L	<0.000010	<0.000010	----	----	----	----
Sodium, total	7440-23-5	E420/TY	0.050	mg/L	3.76	<0.050	----	----	----	----
Strontium, total	7440-24-6	E420/TY	0.00020	mg/L	0.145	<0.00020	----	----	----	----
Sulfur, total	7704-34-9	E420/TY	0.50	mg/L	4.84	<0.50	----	----	----	----
Tellurium, total	13494-80-9	E420/TY	0.00020	mg/L	<0.00020	<0.00020	----	----	----	----
Thallium, total	7440-28-0	E420/TY	0.000010	mg/L	<0.000010	<0.000010	----	----	----	----
Thorium, total	7440-29-1	E420/TY	0.00010	mg/L	<0.00010	<0.00010	----	----	----	----
Tin, total	7440-31-5	E420/TY	0.00010	mg/L	<0.00010	<0.00010	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG309 HL- 250-07-B ----	Trip Blank ----	----	----	----
Client sampling date / time						17-Sep-2025 12:00	17-Sep-2025 12:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510716-011	TY2510716-012	----	----	----
						Result	Result	----	----	----
Total Metals										
Titanium, total	7440-32-6	E420/TY	0.00030	mg/L		<0.00030	<0.00030	----	----	----
Tungsten, total	7440-33-7	E420/TY	0.00010	mg/L		<0.00010	<0.00010	----	----	----
Uranium, total	7440-61-1	E420/TY	0.000010	mg/L		0.000183	<0.000010	----	----	----
Vanadium, total	7440-62-2	E420/TY	0.00050	mg/L		<0.00050	<0.00050	----	----	----
Zinc, total	7440-66-6	E420/TY	0.0030	mg/L		0.0052	<0.0030	----	----	----
Zirconium, total	7440-67-7	E420/TY	0.00020	mg/L		<0.00020	<0.00020	----	----	----
Dissolved Metals										
Aluminum, dissolved	7429-90-5	E421/TY	0.0010	mg/L		----	<0.0010	----	----	----
Antimony, dissolved	7440-36-0	E421/TY	0.00010	mg/L		----	<0.00010	----	----	----
Arsenic, dissolved	7440-38-2	E421/TY	0.00010	mg/L		----	<0.00010	----	----	----
Barium, dissolved	7440-39-3	E421/TY	0.00010	mg/L		----	<0.00010	----	----	----
Beryllium, dissolved	7440-41-7	E421/TY	0.000020	mg/L		----	<0.000020	----	----	----
Bismuth, dissolved	7440-69-9	E421/TY	0.000050	mg/L		----	<0.000050	----	----	----
Boron, dissolved	7440-42-8	E421/TY	0.010	mg/L		----	<0.010	----	----	----
Cadmium, dissolved	7440-43-9	E421/TY	0.0000050	mg/L		----	<0.0000050	----	----	----
Calcium, dissolved	7440-70-2	E421/TY	0.050	mg/L		----	<0.050	----	----	----
Cesium, dissolved	7440-46-2	E421/TY	0.000010	mg/L		----	<0.000010	----	----	----
Chromium, dissolved	7440-47-3	E421/TY	0.00050	mg/L		----	<0.00050	----	----	----
Cobalt, dissolved	7440-48-4	E421/TY	0.00010	mg/L		----	<0.00010	----	----	----
Copper, dissolved	7440-50-8	E421/TY	0.00020	mg/L		----	<0.00020	----	----	----
Iron, dissolved	7439-89-6	E421/TY	0.010	mg/L		----	<0.010	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG309 HL- 250-07-B ----	Trip Blank ----	----	----	----
					Client sampling date / time	17-Sep-2025 12:00	17-Sep-2025 12:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510716-011	TY2510716-012	----	----	----	----
					Result	Result	----	----	----	----
Dissolved Metals										
Lead, dissolved	7439-92-1	E421/TY	0.000050	mg/L	----	<0.000050	----	----	----	----
Lithium, dissolved	7439-93-2	E421/TY	0.0010	mg/L	----	<0.0010	----	----	----	----
Magnesium, dissolved	7439-95-4	E421/TY	0.0050	mg/L	----	<0.0050	----	----	----	----
Manganese, dissolved	7439-96-5	E421/TY	0.00010	mg/L	----	<0.00010	----	----	----	----
Mercury, dissolved	7439-97-6	E509/TY	0.0000050	mg/L	----	<0.0000050	----	----	----	----
Molybdenum, dissolved	7439-98-7	E421/TY	0.000050	mg/L	----	<0.000050	----	----	----	----
Nickel, dissolved	7440-02-0	E421/TY	0.00050	mg/L	----	<0.00050	----	----	----	----
Phosphorus, dissolved	7723-14-0	E421/TY	0.050	mg/L	----	<0.050	----	----	----	----
Potassium, dissolved	7440-09-7	E421/TY	0.050	mg/L	----	<0.050	----	----	----	----
Rubidium, dissolved	7440-17-7	E421/TY	0.00020	mg/L	----	<0.00020	----	----	----	----
Selenium, dissolved	7782-49-2	E421/TY	0.000050	mg/L	----	<0.000050	----	----	----	----
Silicon, dissolved	7440-21-3	E421/TY	0.050	mg/L	----	<0.050	----	----	----	----
Silver, dissolved	7440-22-4	E421/TY	0.000010	mg/L	----	<0.000010	----	----	----	----
Sodium, dissolved	7440-23-5	E421/TY	0.050	mg/L	----	<0.050	----	----	----	----
Strontium, dissolved	7440-24-6	E421/TY	0.00020	mg/L	----	<0.00020	----	----	----	----
Sulfur, dissolved	7704-34-9	E421/TY	0.50	mg/L	----	<0.50	----	----	----	----
Tellurium, dissolved	13494-80-9	E421/TY	0.00020	mg/L	----	<0.00020	----	----	----	----
Thallium, dissolved	7440-28-0	E421/TY	0.000010	mg/L	----	<0.000010	----	----	----	----
Thorium, dissolved	7440-29-1	E421/TY	0.00010	mg/L	----	<0.00010	----	----	----	----
Tin, dissolved	7440-31-5	E421/TY	0.00010	mg/L	----	<0.00010	----	----	----	----
Titanium, dissolved	7440-32-6	E421/TY	0.00030	mg/L	----	<0.00030	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	25ONG309 HL- 250-07-B ----	Trip Blank ----	----	----	----
					Client sampling date / time	17-Sep-2025 12:00	17-Sep-2025 12:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510716-011	TY2510716-012	----	----	----	----
					Result	Result	----	----	----	----
Dissolved Metals										
Tungsten, dissolved	7440-33-7	E421/TY	0.00010	mg/L	----	<0.00010	----	----	----	----
Uranium, dissolved	7440-61-1	E421/TY	0.000010	mg/L	----	<0.000010	----	----	----	----
Vanadium, dissolved	7440-62-2	E421/TY	0.00050	mg/L	----	<0.00050	----	----	----	----
Zinc, dissolved	7440-66-6	E421/TY	0.0010	mg/L	----	<0.0010	----	----	----	----
Zirconium, dissolved	7440-67-7	E421/TY	0.00030	mg/L	----	<0.00030	----	----	----	----
Dissolved MeHg filtration location	----	EP537/VA	-	-	----	Field	----	----	----	----
Dissolved mercury filtration location	----	EP509/TY	-	-	----	Field	----	----	----	----
Dissolved metals filtration location	----	EP421/TY	-	-	----	Field	----	----	----	----
Speciated Metals										
Methylmercury (as MeHg), total	22967-92-6	E536/VA	0.000020	µg/L	----	<0.000020	----	----	----	----
Methylmercury (as MeHg), dissolved	22967-92-6	E537/VA	0.000020	µg/L	----	<0.000020 ^M	----	----	----	----
Aggregate Organics										
Biochemical oxygen demand [BOD]	----	E550/TY	2.0	mg/L	----	<2.0	----	----	----	----
Radiological Parameters										
Radium-226	13982-63-3	Ra-226/2l	0.005	Bq/L	<0.005	<0.005	----	----	----	----

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

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: TY2510716	Page	: 1 of 30
Client	: G3 Consulting Ltd.	Laboratory	: ALS Environmental - Thunder Bay
Contact	: Greg Thomas	Account Manager	: Colby Coutu
Address	: 206-8501 162nd St. Surrey BC Canada V4N 1B2	Address	: 1081 Barton Street Thunder Bay, Ontario Canada P7B 5N3
Telephone	: 604 598 8501	Telephone	: +1 807 623 6463
Project	: 2502	Date Samples Received	: 19-Sep-2025 16:51
PO	: 2502	Issue Date	: 18-Nov-2025 10:44
C-O-C number	: ----		
Sampler	: ----		
Site	: ----		
Quote number	: Dubreuilville Project		
No. of samples received	: 12		
No. of samples analysed	: 12		

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 Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- Method Blank value outliers occur - please see following pages for full details.
- 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.

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Client : G3 Consulting Ltd.
Project : 2502



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Water**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Method Blank (MB) Values								
Dissolved Metals	QC-2234501-001	----	Molybdenum, dissolved	7439-98-7	E421	0.000059 ^B mg/L	0.00005 mg/L	Blank result exceeds permitted value

Result Qualifiers

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.



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	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT-4d] Trip Blank	E550	17-Sep-2025	----	----	----		22-Sep-2025	4 days	5 days	✖ EHT
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-250-07-B	E298	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	26-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-250-07-T	E298	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	26-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-280-07-M	E298	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	25-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-280-09-M	E298	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	25-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-280-11-M	E298	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	26-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-500-07-M	E298	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	26-Sep-2025	28 days	6 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			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) [ON MECP] 25ONG309 HL-500-11-M	E298	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	26-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] Trip Blank	E298	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	26-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Bromide in Water by IC										
HDPE [ON MECP] 25ONG309 HL-250-07-B	E235.Br	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Bromide in Water by IC										
HDPE [ON MECP] 25ONG309 HL-250-07-T	E235.Br	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Bromide in Water by IC										
HDPE [ON MECP] 25ONG309 HL-280-07-M	E235.Br	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Bromide in Water by IC										
HDPE [ON MECP] 25ONG309 HL-280-09-M	E235.Br	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Bromide in Water by IC										
HDPE [ON MECP] 25ONG309 HL-280-11-M	E235.Br	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Bromide in Water by IC										
HDPE [ON MECP] 25ONG309 HL-500-07-M	E235.Br	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Bromide in Water by IC										
HDPE [ON MECP] 25ONG309 HL-500-11-M	E235.Br	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Bromide in Water by IC										
HDPE [ON MECP] Trip Blank	E235.Br	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] 25ONG309 HL-250-07-B	E235.Cl	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] 25ONG309 HL-250-07-T	E235.Cl	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] 25ONG309 HL-280-07-M	E235.Cl	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] 25ONG309 HL-280-09-M	E235.Cl	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] 25ONG309 HL-280-11-M	E235.Cl	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] 25ONG309 HL-500-07-M	E235.Cl	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] 25ONG309 HL-500-11-M	E235.Cl	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] Trip Blank	E235.Cl	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-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		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Cyanate by Ion Selective Electrode										
Opaque HDPE - total (sodium hydroxide) Trip Blank	E343	17-Sep-2025	----	----	----		02-Oct-2025	14 days	15 days	✖ EHT
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] 25ONG309 HL-250-07-B	E235.F	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] 25ONG309 HL-250-07-T	E235.F	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] 25ONG309 HL-280-07-M	E235.F	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] 25ONG309 HL-280-09-M	E235.F	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] 25ONG309 HL-280-11-M	E235.F	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] 25ONG309 HL-500-07-M	E235.F	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] 25ONG309 HL-500-11-M	E235.F	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] Trip Blank	E235.F	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-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		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] 25ONG309 HL-250-07-B	E235.NO3	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] 25ONG309 HL-250-07-T	E235.NO3	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] 25ONG309 HL-280-07-M	E235.NO3	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] 25ONG309 HL-280-09-M	E235.NO3	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] 25ONG309 HL-280-11-M	E235.NO3	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] 25ONG309 HL-500-07-M	E235.NO3	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] 25ONG309 HL-500-11-M	E235.NO3	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] Trip Blank	E235.NO3	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] 25ONG309 HL-250-07-B	E235.NO2	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis				
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Anions and Nutrients : Nitrite in Water by IC											
HDPE [ON MECP] 25ONG309 HL-250-07-T	E235.NO2	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓	
Anions and Nutrients : Nitrite in Water by IC											
HDPE [ON MECP] 25ONG309 HL-280-07-M	E235.NO2	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓	
Anions and Nutrients : Nitrite in Water by IC											
HDPE [ON MECP] 25ONG309 HL-280-09-M	E235.NO2	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓	
Anions and Nutrients : Nitrite in Water by IC											
HDPE [ON MECP] 25ONG309 HL-280-11-M	E235.NO2	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓	
Anions and Nutrients : Nitrite in Water by IC											
HDPE [ON MECP] 25ONG309 HL-500-07-M	E235.NO2	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓	
Anions and Nutrients : Nitrite in Water by IC											
HDPE [ON MECP] 25ONG309 HL-500-11-M	E235.NO2	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓	
Anions and Nutrients : Nitrite in Water by IC											
HDPE [ON MECP] Trip Blank	E235.NO2	17-Sep-2025	23-Sep-2025	7 days	6 days	✓	23-Sep-2025	7 days	6 days	✓	
Anions and Nutrients : Sulfate in Water by IC											
HDPE [ON MECP] 25ONG309 HL-250-07-B	E235.SO4	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓	
Anions and Nutrients : Sulfate in Water by IC											
HDPE [ON MECP] 25ONG309 HL-250-07-T	E235.SO4	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓	



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] 25ONG309 HL-280-07-M	E235.SO4	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] 25ONG309 HL-280-09-M	E235.SO4	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] 25ONG309 HL-280-11-M	E235.SO4	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] 25ONG309 HL-500-07-M	E235.SO4	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] 25ONG309 HL-500-11-M	E235.SO4	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] Trip Blank	E235.SO4	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-250-07-B	E318	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-250-07-T	E318	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-280-07-M	E318	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓

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 Work Order : TY2510716
 Client : G3 Consulting Ltd.
 Project : 2502



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-280-09-M	E318	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-280-11-M	E318	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-500-07-M	E318	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-500-11-M	E318	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] Trip Blank	E318	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-250-07-B	E372-U	17-Sep-2025	25-Sep-2025	28 days	8 days	✓	25-Sep-2025	28 days	8 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-250-07-T	E372-U	17-Sep-2025	25-Sep-2025	28 days	8 days	✓	25-Sep-2025	28 days	8 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-280-07-M	E372-U	17-Sep-2025	25-Sep-2025	28 days	8 days	✓	25-Sep-2025	28 days	8 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-280-09-M	E372-U	17-Sep-2025	25-Sep-2025	28 days	8 days	✓	25-Sep-2025	28 days	8 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			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) [ON MECP] 25ONG309 HL-280-11-M	E372-U	17-Sep-2025	25-Sep-2025	28 days	8 days	✓	25-Sep-2025	28 days	8 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-500-07-M	E372-U	17-Sep-2025	25-Sep-2025	28 days	8 days	✓	25-Sep-2025	28 days	8 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-500-11-M	E372-U	17-Sep-2025	25-Sep-2025	28 days	8 days	✓	25-Sep-2025	28 days	8 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) [ON MECP] Trip Blank	E372-U	17-Sep-2025	25-Sep-2025	28 days	8 days	✓	25-Sep-2025	28 days	8 days	✓
Cyanides : Free Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-250-07-B	E339	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : Free Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-250-07-T	E339	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : Free Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-280-07-M	E339	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : Free Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-280-09-M	E339	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : Free Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-280-11-M	E339	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Cyanides : Free Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-500-07-M	E339	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : Free Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-500-11-M	E339	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : Free Cyanide										
Opaque HDPE - total (sodium hydroxide) Trip Blank	E339	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : Thiocyanate by Colourimetry										
HDPE (nitric acid) Trip Blank	E344	17-Sep-2025	----	----	----		25-Sep-2025	14 days	8 days	✓
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-250-07-B	E333	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-250-07-T	E333	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-280-07-M	E333	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-280-09-M	E333	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-280-11-M	E333	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 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	
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-500-07-M	E333	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-500-11-M	E333	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide) Trip Blank	E333	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : WAD Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-250-07-B	E336	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : WAD Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-250-07-T	E336	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : WAD Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-280-07-M	E336	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : WAD Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-280-09-M	E336	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : WAD Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-280-11-M	E336	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : WAD Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-500-07-M	E336	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 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	
Cyanides : WAD Cyanide										
Opaque HDPE - total (sodium hydroxide) 25ONG309 HL-500-11-M	E336	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Cyanides : WAD Cyanide										
Opaque HDPE - total (sodium hydroxide) Trip Blank	E336	17-Sep-2025	30-Sep-2025	14 days	13 days	✓	30-Sep-2025	14 days	13 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) Trip Blank	E509	17-Sep-2025	24-Sep-2025	28 days	7 days	✓	25-Sep-2025	28 days	7 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) Trip Blank	E421	17-Sep-2025	23-Sep-2025	180 days	6 days	✓	23-Sep-2025	180 days	6 days	✓
Field Tests : Field Volume (L)										
Opaque HDPE tube 25ONG309 HL-B	EF003	17-Sep-2025	----	----	----		26-Sep-2025	----	----	
Field Tests : Field Volume (L)										
Opaque HDPE tube 25ONG309 HL-REF	EF003	17-Sep-2025	----	----	----		26-Sep-2025	----	----	
Field Tests : Field Volume (L)										
Opaque HDPE tube 25ONG309 OL-100	EF003	18-Sep-2025	----	----	----		26-Sep-2025	----	----	
Field Tests : Field Volume (L)										
Opaque HDPE tube 25ONG309 OL-250	EF003	17-Sep-2025	----	----	----		26-Sep-2025	----	----	
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) [ON MECP] Trip Blank	E358-L	17-Sep-2025	24-Sep-2025	28 days	7 days	✓	24-Sep-2025	28 days	7 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Organic / Inorganic Carbon : Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-250-07-B	E355-L	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	24-Sep-2025	28 days	6 days	✓
Organic / Inorganic Carbon : Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-250-07-T	E355-L	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	24-Sep-2025	28 days	6 days	✓
Organic / Inorganic Carbon : Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-280-07-M	E355-L	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Organic / Inorganic Carbon : Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-280-09-M	E355-L	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Organic / Inorganic Carbon : Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-280-11-M	E355-L	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Organic / Inorganic Carbon : Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-500-07-M	E355-L	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	23-Sep-2025	28 days	6 days	✓
Organic / Inorganic Carbon : Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] 25ONG309 HL-500-11-M	E355-L	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	24-Sep-2025	28 days	6 days	✓
Organic / Inorganic Carbon : Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] Trip Blank	E355-L	17-Sep-2025	23-Sep-2025	28 days	6 days	✓	24-Sep-2025	28 days	6 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] 25ONG309 HL-250-07-B	E290	17-Sep-2025	23-Sep-2025	14 days	6 days	✓	23-Sep-2025	14 days	6 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] 25ONG309 HL-250-07-T	E290	17-Sep-2025	23-Sep-2025	14 days	6 days	✓	23-Sep-2025	14 days	6 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] 25ONG309 HL-280-07-M	E290	17-Sep-2025	23-Sep-2025	14 days	6 days	✓	23-Sep-2025	14 days	6 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] 25ONG309 HL-280-09-M	E290	17-Sep-2025	23-Sep-2025	14 days	6 days	✓	23-Sep-2025	14 days	6 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] 25ONG309 HL-280-11-M	E290	17-Sep-2025	23-Sep-2025	14 days	6 days	✓	23-Sep-2025	14 days	6 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] 25ONG309 HL-500-07-M	E290	17-Sep-2025	23-Sep-2025	14 days	6 days	✓	23-Sep-2025	14 days	6 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] 25ONG309 HL-500-11-M	E290	17-Sep-2025	23-Sep-2025	14 days	6 days	✓	23-Sep-2025	14 days	6 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] Trip Blank	E290	17-Sep-2025	23-Sep-2025	14 days	6 days	✓	23-Sep-2025	14 days	6 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] 25ONG309 HL-250-07-B	E162	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] 25ONG309 HL-250-07-T	E162	17-Sep-2025	----	----	----		23-Sep-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		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] 25ONG309 HL-280-07-M	E162	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✔
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] 25ONG309 HL-280-09-M	E162	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✔
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] 25ONG309 HL-280-11-M	E162	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✔
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] 25ONG309 HL-500-07-M	E162	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✔
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] 25ONG309 HL-500-11-M	E162	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✔
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] Trip Blank	E162	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✔
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP] 25ONG309 HL-250-07-B	E160	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✔
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP] 25ONG309 HL-250-07-T	E160	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✔
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP] 25ONG309 HL-280-07-M	E160	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✔



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP] 25ONG309 HL-280-09-M	E160	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✓
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP] 25ONG309 HL-280-11-M	E160	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✓
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP] 25ONG309 HL-500-07-M	E160	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✓
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP] 25ONG309 HL-500-11-M	E160	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✓
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP] Trip Blank	E160	17-Sep-2025	----	----	----		23-Sep-2025	7 days	6 days	✓
Plant Pigments : Chlorophyll-a by Fluorometry (Field Filtered µg)										
Opaque HDPE tube 25ONG309 OL-100	E870A	18-Sep-2025	26-Sep-2025	28 days	8 days	✓	26-Sep-2025	28 days	0 days	✓
Plant Pigments : Chlorophyll-a by Fluorometry (Field Filtered µg)										
Opaque HDPE tube 25ONG309 HL-B	E870A	17-Sep-2025	26-Sep-2025	28 days	9 days	✓	26-Sep-2025	28 days	0 days	✓
Plant Pigments : Chlorophyll-a by Fluorometry (Field Filtered µg)										
Opaque HDPE tube 25ONG309 HL-REF	E870A	17-Sep-2025	26-Sep-2025	28 days	9 days	✓	26-Sep-2025	28 days	0 days	✓
Plant Pigments : Chlorophyll-a by Fluorometry (Field Filtered µg)										
Opaque HDPE tube 25ONG309 OL-250	E870A	17-Sep-2025	26-Sep-2025	28 days	9 days	✓	26-Sep-2025	28 days	0 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	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE total (nitric acid) 25ONG309 HL-250-07-B	Ra-226	17-Sep-2025	----	----	----		15-Oct-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE total (nitric acid) 25ONG309 HL-250-07-T	Ra-226	17-Sep-2025	----	----	----		15-Oct-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE total (nitric acid) 25ONG309 HL-280-07-M	Ra-226	17-Sep-2025	----	----	----		15-Oct-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE total (nitric acid) 25ONG309 HL-280-09-M	Ra-226	17-Sep-2025	----	----	----		15-Oct-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE total (nitric acid) 25ONG309 HL-280-11-M	Ra-226	17-Sep-2025	----	----	----		15-Oct-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE total (nitric acid) 25ONG309 HL-500-07-M	Ra-226	17-Sep-2025	----	----	----		15-Oct-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE total (nitric acid) 25ONG309 HL-500-11-M	Ra-226	17-Sep-2025	----	----	----		15-Oct-2025	----	----	
Radiological Parameters : Radium 226 in Water by Alpha Spectrometry (0.005 Bq/L)										
HDPE total (nitric acid) Trip Blank	Ra-226	17-Sep-2025	----	----	----		15-Oct-2025	----	----	
Speciated Metals : Dissolved Methylmercury in Water by GCAFS										
Amber glass dissolved (field filtered/lab preserved) Trip Blank	E537	17-Sep-2025	14-Oct-2025	180 days	27 days	✓	15-Oct-2025	180 days	27 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Speciated Metals : Total Methylmercury in Water by GCAFS										
Amber glass total (hydrochloric acid) Trip Blank	E536	17-Sep-2025	09-Oct-2025	180 days	22 days	✓	09-Oct-2025	180 days	22 days	✓
Total Metals : Total Mercury in Water by CVAFS (Low Level, LOR = 0.5 ppt)										
Pre-cleaned clear glass - total (lab preserved) 25ONG309 HL-250-07-B	E508-L	17-Sep-2025	27-Sep-2025	28 days	10 days	✓	27-Sep-2025	28 days	10 days	✓
Total Metals : Total Mercury in Water by CVAFS (Low Level, LOR = 0.5 ppt)										
Pre-cleaned clear glass - total (lab preserved) 25ONG309 HL-250-07-T	E508-L	17-Sep-2025	27-Sep-2025	28 days	10 days	✓	27-Sep-2025	28 days	10 days	✓
Total Metals : Total Mercury in Water by CVAFS (Low Level, LOR = 0.5 ppt)										
Pre-cleaned clear glass - total (lab preserved) 25ONG309 HL-280-07-M	E508-L	17-Sep-2025	27-Sep-2025	28 days	10 days	✓	27-Sep-2025	28 days	10 days	✓
Total Metals : Total Mercury in Water by CVAFS (Low Level, LOR = 0.5 ppt)										
Pre-cleaned clear glass - total (lab preserved) 25ONG309 HL-280-09-M	E508-L	17-Sep-2025	27-Sep-2025	28 days	10 days	✓	27-Sep-2025	28 days	10 days	✓
Total Metals : Total Mercury in Water by CVAFS (Low Level, LOR = 0.5 ppt)										
Pre-cleaned clear glass - total (lab preserved) 25ONG309 HL-280-11-M	E508-L	17-Sep-2025	27-Sep-2025	28 days	10 days	✓	27-Sep-2025	28 days	10 days	✓
Total Metals : Total Mercury in Water by CVAFS (Low Level, LOR = 0.5 ppt)										
Pre-cleaned clear glass - total (lab preserved) 25ONG309 HL-500-07-M	E508-L	17-Sep-2025	27-Sep-2025	28 days	10 days	✓	27-Sep-2025	28 days	10 days	✓
Total Metals : Total Mercury in Water by CVAFS (Low Level, LOR = 0.5 ppt)										
Pre-cleaned clear glass - total (lab preserved) 25ONG309 HL-500-11-M	E508-L	17-Sep-2025	27-Sep-2025	28 days	10 days	✓	27-Sep-2025	28 days	10 days	✓
Total Metals : Total Mercury in Water by CVAFS (Low Level, LOR = 0.5 ppt)										
Pre-cleaned clear glass - total (lab preserved) Trip Blank	E508-L	17-Sep-2025	27-Sep-2025	28 days	10 days	✓	27-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		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) 25ONG309 HL-250-07-B	E420	17-Sep-2025	23-Sep-2025	180 days	6 days	✓	23-Sep-2025	180 days	6 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) 25ONG309 HL-250-07-T	E420	17-Sep-2025	23-Sep-2025	180 days	6 days	✓	23-Sep-2025	180 days	6 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) 25ONG309 HL-280-07-M	E420	17-Sep-2025	23-Sep-2025	180 days	6 days	✓	23-Sep-2025	180 days	6 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) 25ONG309 HL-280-09-M	E420	17-Sep-2025	23-Sep-2025	180 days	6 days	✓	23-Sep-2025	180 days	6 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) 25ONG309 HL-280-11-M	E420	17-Sep-2025	23-Sep-2025	180 days	6 days	✓	23-Sep-2025	180 days	6 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) 25ONG309 HL-500-07-M	E420	17-Sep-2025	23-Sep-2025	180 days	6 days	✓	23-Sep-2025	180 days	6 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) 25ONG309 HL-500-11-M	E420	17-Sep-2025	23-Sep-2025	180 days	6 days	✓	23-Sep-2025	180 days	6 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) Trip Blank	E420	17-Sep-2025	23-Sep-2025	180 days	6 days	✓	23-Sep-2025	180 days	6 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	Method	QC Lot #	Count		Frequency (%)		
Analytical Methods			QC	Regular	Actual	Expected	Evaluation
Laboratory Duplicates (DUP)							
TSS by Gravimetry	E160	2234661	1	15	6.6	5.0	✓
TDS by Gravimetry	E162	2234658	1	19	5.2	5.0	✓
Bromide in Water by IC	E235.Br	2234742	2	22	9.0	5.0	✓
Chloride in Water by IC	E235.Cl	2234746	2	23	8.7	5.0	✓
Fluoride in Water by IC	E235.F	2234743	2	31	6.4	5.0	✓
Nitrite in Water by IC	E235.NO2	2234745	2	34	5.8	5.0	✓
Nitrate in Water by IC	E235.NO3	2234744	2	34	5.8	5.0	✓
Sulfate in Water by IC	E235.SO4	2234747	2	34	5.8	5.0	✓
Alkalinity Species by Titration	E290	2234754	2	32	6.2	5.0	✓
Ammonia by Fluorescence	E298	2234831	2	40	5.0	5.0	✓
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	2234596	1	13	7.6	5.0	✓
Total Cyanide	E333	2249163	2	30	6.6	5.0	✓
WAD Cyanide	E336	2249165	2	24	8.3	5.0	✓
Free Cyanide	E339	2249164	2	24	8.3	5.0	✓
Cyanate by Ion Selective Electrode	E343	2254990	1	18	5.5	5.0	✓
Thiocyanate by Colourimetry	E344	2242070	1	18	5.5	5.0	✓
Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)	E355-L	2234828	2	39	5.1	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	2237858	1	16	6.2	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2234835	2	40	5.0	5.0	✓
Total Metals in Water by CRC ICPMS	E420	2234839	2	28	7.1	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	2234501	1	3	33.3	5.0	✓
Total Mercury in Water by CVAFS (Low Level, LOR = 0.5 ppt)	E508-L	2245888	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	2237690	1	20	5.0	5.0	✓
Total Methylmercury in Water by GCAFS	E536	2267517	1	20	5.0	5.0	✓
Dissolved Methylmercury in Water by GCAFS	E537	2275346	1	20	5.0	5.0	✓
Biochemical Oxygen Demand - 5 day	E550	2232698	1	15	6.6	5.0	✓
Laboratory Control Samples (LCS)							
TSS by Gravimetry	E160	2234661	1	15	6.6	5.0	✓
TDS by Gravimetry	E162	2234658	1	19	5.2	5.0	✓
Bromide in Water by IC	E235.Br	2234742	2	22	9.0	5.0	✓
Chloride in Water by IC	E235.Cl	2234746	2	23	8.7	5.0	✓
Fluoride in Water by IC	E235.F	2234743	2	31	6.4	5.0	✓
Nitrite in Water by IC	E235.NO2	2234745	2	34	5.8	5.0	✓
Nitrate in Water by IC	E235.NO3	2234744	2	34	5.8	5.0	✓
Sulfate in Water by IC	E235.SO4	2234747	2	34	5.8	5.0	✓
Alkalinity Species by Titration	E290	2234754	2	32	6.2	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
Laboratory Control Samples (LCS) - Continued							
Ammonia by Fluorescence	E298	2234831	2	40	5.0	5.0	✔
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	2234596	1	13	7.6	5.0	✔
Total Cyanide	E333	2249163	2	30	6.6	5.0	✔
WAD Cyanide	E336	2249165	2	24	8.3	5.0	✔
Free Cyanide	E339	2249164	2	24	8.3	5.0	✔
Cyanate by Ion Selective Electrode	E343	2254990	1	18	5.5	5.0	✔
Thiocyanate by Colourimetry	E344	2242070	1	18	5.5	5.0	✔
Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)	E355-L	2234828	2	39	5.1	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	2237858	1	16	6.2	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2234835	2	40	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	2234839	2	28	7.1	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	2234501	1	3	33.3	5.0	✔
Total Mercury in Water by CVAFS (Low Level, LOR = 0.5 ppt)	E508-L	2245888	1	20	5.0	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	2237690	1	20	5.0	5.0	✔
Total Methylmercury in Water by GCAFS	E536	2267517	1	20	5.0	5.0	✔
Dissolved Methylmercury in Water by GCAFS	E537	2275346	1	20	5.0	5.0	✔
Biochemical Oxygen Demand - 5 day	E550	2232698	1	15	6.6	5.0	✔
Chlorophyll-a by Fluorometry (Field Filtered µg)	E870A	2243057	1	4	25.0	5.0	✔
Method Blanks (MB)							
TSS by Gravimetry	E160	2234661	1	15	6.6	5.0	✔
TDS by Gravimetry	E162	2234658	1	19	5.2	5.0	✔
Bromide in Water by IC	E235.Br	2234742	2	22	9.0	5.0	✔
Chloride in Water by IC	E235.Cl	2234746	2	23	8.7	5.0	✔
Fluoride in Water by IC	E235.F	2234743	2	31	6.4	5.0	✔
Nitrite in Water by IC	E235.NO2	2234745	2	34	5.8	5.0	✔
Nitrate in Water by IC	E235.NO3	2234744	2	34	5.8	5.0	✔
Sulfate in Water by IC	E235.SO4	2234747	2	34	5.8	5.0	✔
Alkalinity Species by Titration	E290	2234754	2	32	6.2	5.0	✔
Ammonia by Fluorescence	E298	2234831	2	40	5.0	5.0	✔
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	2234596	1	13	7.6	5.0	✔
Total Cyanide	E333	2249163	2	30	6.6	5.0	✔
WAD Cyanide	E336	2249165	2	24	8.3	5.0	✔
Free Cyanide	E339	2249164	2	24	8.3	5.0	✔
Cyanate by Ion Selective Electrode	E343	2254990	1	18	5.5	5.0	✔
Thiocyanate by Colourimetry	E344	2242070	1	18	5.5	5.0	✔
Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)	E355-L	2234828	2	39	5.1	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	2237858	1	16	6.2	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2234835	2	40	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	2234839	2	28	7.1	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							
Dissolved Metals in Water by CRC ICPMS	E421	2234501	1	3	33.3	5.0	✔
Total Mercury in Water by CVAFS (Low Level, LOR = 0.5 ppt)	E508-L	2245888	1	20	5.0	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	2237690	1	20	5.0	5.0	✔
Total Methylmercury in Water by GCAFS	E536	2267517	1	20	5.0	5.0	✔
Dissolved Methylmercury in Water by GCAFS	E537	2275346	2	20	10.0	5.0	✔
Biochemical Oxygen Demand - 5 day	E550	2232698	1	15	6.6	5.0	✔
Chlorophyll-a by Fluorometry (Field Filtered µg)	E870A	2243057	1	4	25.0	5.0	✔
Matrix Spikes (MS)							
Bromide in Water by IC	E235.Br	2234742	2	22	9.0	5.0	✔
Chloride in Water by IC	E235.Cl	2234746	2	23	8.7	5.0	✔
Fluoride in Water by IC	E235.F	2234743	2	31	6.4	5.0	✔
Nitrite in Water by IC	E235.NO2	2234745	2	34	5.8	5.0	✔
Nitrate in Water by IC	E235.NO3	2234744	2	34	5.8	5.0	✔
Sulfate in Water by IC	E235.SO4	2234747	2	34	5.8	5.0	✔
Ammonia by Fluorescence	E298	2234831	2	40	5.0	5.0	✔
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	2234596	1	13	7.6	5.0	✔
Total Cyanide	E333	2249163	2	30	6.6	5.0	✔
WAD Cyanide	E336	2249165	2	24	8.3	5.0	✔
Free Cyanide	E339	2249164	2	24	8.3	5.0	✔
Cyanate by Ion Selective Electrode	E343	2254990	1	18	5.5	5.0	✔
Thiocyanate by Colourimetry	E344	2242070	1	18	5.5	5.0	✔
Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)	E355-L	2234828	2	39	5.1	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	2237858	1	16	6.2	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2234835	2	40	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	2234839	2	28	7.1	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	2234501	1	3	33.3	5.0	✔
Total Mercury in Water by CVAFS (Low Level, LOR = 0.5 ppt)	E508-L	2245888	1	20	5.0	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	2237690	1	20	5.0	5.0	✔
Total Methylmercury in Water by GCAFS	E536	2267517	1	20	5.0	5.0	✔
Dissolved Methylmercury in Water by GCAFS	E537	2275346	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
TSS by Gravimetry	E160 ALS Environmental - Thunder Bay	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 $104 \pm 1^\circ\text{C}$, 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 - Thunder Bay	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 $180 \pm 2^\circ\text{C}$ for 16 hours or to constant weight, with gravimetric measurement of the residue.
Bromide in Water by IC	E235.Br ALS Environmental - Thunder Bay	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Chloride in Water by IC	E235.Cl ALS Environmental - Thunder Bay	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 - Thunder Bay	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 - Thunder Bay	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 - Thunder Bay	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 - Thunder Bay	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Alkalinity Species by Titration	E290 ALS Environmental - Thunder Bay	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.



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Ammonia by Fluorescence	E298 ALS Environmental - Thunder Bay	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 Kjeldahl Nitrogen by Fluorescence (Low Level)	E318 ALS Environmental - Thunder Bay	Water	Method Fialab 100, 2018	TKN 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 Cyanide	E333 ALS Environmental - Waterloo	Water	ISO 14403 (mod)	Total or Strong Acid Dissociable (SAD) Cyanide is determined by Continuous Flow Analyzer (CFA) with in-line UV digestion followed by colourmetric analysis. Method Limitation: High levels of thiocyanate (SCN) may cause positive interference (up to 0.5% of SCN concentration).
WAD Cyanide	E336 ALS Environmental - Waterloo	Water	APHA 4500-CN I (mod)	Weak Acid Dissociable (WAD) cyanide is determined by Continuous Flow Analyzer (CFA) with in-line distillation followed by colourmetric analysis.
Free Cyanide	E339 ALS Environmental - Waterloo	Water	ASTM D7237 (mod)	Free Cyanide is determined by Continuous Flow Analyzer (CFA) with in-line gas diffusion followed by colourmetric analysis.
Cyanate by Ion Selective Electrode	E343 ALS Environmental - Waterloo	Water	APHA 4500-CN L (mod)	This analysis is carried out using procedures adapted from APHA method 4500-CN "Cyanide". Cyanate is determined by the Cyanate hydrolysis method using an ammonia selective electrode
Thiocyanate by Colourimetry	E344 ALS Environmental - Vancouver	Water	APHA 4500-CN M (mod)	Thiocyanate is determined by the ferric nitrate colourimetric method. Water samples containing high levels of hexavalent chromium, cyanide (together with sulfide), reducing agents, or hydrocarbons may cause negative or positive interferences with this method.
Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)	E355-L ALS Environmental - Thunder Bay	Water	APHA 5310 B (mod)	Total Organic Carbon (Non-Purgeable), also known as NPOC (total), is a direct measurement of TOC after an acidified sample has been purged to remove carbonate-based Inorganic Carbon (IC). Analysis is by high temperature combustion with infrared detection of CO ₂ . Forms of carbon associated with inorganic or organic molecules (e.g. SCN and CN) are included in NPOC if they are not removed by purging under acidic conditions. Notably, NPOC excludes most volatile organic compounds and free cyanide. For samples where the majority of Total Carbon is inorganic, this method provides greater accuracy and reliability versus the TOC by subtraction method (TC minus TIC).



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Dissolved Organic Carbon by Combustion (Low Level)	E358-L ALS Environmental - Thunder Bay	Water	APHA 5310 B (mod)	Dissolved Organic Carbon (Non-Purgeable), also known as NPOC (dissolved), is a direct measurement of DOC after a filtered (0.45 micron) sample has been acidified and purged to remove inorganic carbon (IC). Analysis is by high temperature combustion with infrared detection of CO ₂ . NPOC does not include volatile organic species that are purged off with IC. For samples where the majority of DC (dissolved carbon) is comprised of IC (which is common), this method is more accurate and more reliable than the DOC by subtraction method (i.e. DC minus DIC).
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U ALS Environmental - Thunder Bay	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 - Thunder Bay	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 - Thunder Bay	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 CVAFS (Low Level, LOR = 0.5 ppt)	E508-L ALS Environmental - Vancouver	Water	EPA 1631E (mod)	Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAFS.
Dissolved Mercury in Water by CVAAS	E509 ALS Environmental - Thunder Bay	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.
Total Methylmercury in Water by GCAFS	E536 ALS Environmental - Vancouver	Water	EPA 1630 (mod)	This method follows Method 1630 of the US EPA. Samples are distilled under an inert gas flow to isolate methylmercury and minimize matrix interferences. The distillate is analyzed by aqueous phase ethylation, purge and trap, desorption and GC separation. The separated species are then pyrolyzed to elemental Hg and quantified by cold vapour atomic fluorescence spectroscopy. Results are reported "as MeHg".
Dissolved Methylmercury in Water by GCAFS	E537 ALS Environmental - Vancouver	Water	EPA 1630 (mod)	This method follows Method 1630 of the US EPA. Samples are distilled under an inert gas flow to isolate methylmercury and minimize matrix interferences. The distillate is analyzed by aqueous phase ethylation, purge and trap, desorption and GC separation. The separated species are then pyrolyzed to elemental Hg and quantified by cold vapour atomic fluorescence spectroscopy. Results are reported "as MeHg".
Biochemical Oxygen Demand - 5 day	E550 ALS Environmental - Thunder Bay	Water	APHA 5210 B (mod)	Samples are diluted and incubated for a specified time period, after which the oxygen depletion is measured using a dissolved oxygen meter. Free chlorine is a negative interference in the BOD method; please advise ALS when free chlorine is present in samples.



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Chlorophyll-a by Fluorometry (Field Filtered µg)	E870A ALS Environmental - Winnipeg	Water	EPA 445.0 (mod)	Chlorophyll-a is determined by solvent extraction followed with analysis by fluorometry using the non-acidification procedure. Sampling volume not provided by client.
Dissolved Hardness (Calculated)	EC100 ALS Environmental - Thunder Bay	Water	APHA 2340B	"Hardness (as CaCO ₃), dissolved" is calculated from the sum of dissolved Calcium and Magnesium concentrations, expressed in CaCO ₃ 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.
Hardness (Calculated) from Total Ca/Mg	EC100A ALS Environmental - Thunder Bay	Water	APHA 2340B	"Hardness (as CaCO ₃), from total Ca/Mg" is calculated from the sum of total Calcium and Magnesium concentrations, expressed as CaCO ₃ 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 hardness is a property of water due to dissolved divalent cations. In non-turbid waters, Hardness from total Ca/Mg is normally comparable to Dissolved Hardness, but may be biased high if particulate forms of Ca or Mg are present.
Total Organic Nitrogen (Calculation)	EC363 ALS Environmental - Thunder Bay	Water	APHA 4500-NORG (TKN)/NH ₃ -NITROGEN (NH ₃)	Total Organic Nitrogen is a calculated parameter. Total Organic Nitrogen = Total Kjeldahl Nitrogen - Ammonia.
Total Nitrogen (calculation)	EC368 ALS Environmental - Thunder Bay	Water	BC MOE LABORATORY MANUAL (2005)	Total Nitrogen is a calculated parameter. Total Nitrogen = Total Kjeldahl Nitrogen + [Nitrate and Nitrite (as N)].
Chlorophyll-a by Fluorometry (Field Filtered µg/L)	EC870A ALS Environmental - Winnipeg	Water	CALC	Convert results to sample concentration based on field information.
Field Volume (L)	EF003 ALS Environmental - Winnipeg	Water		Field measurement of sampling volume provided by client and recorded on ALS report may affect the validity of results.
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	Water		Sample preparation for Preserved Nutrients Water Quality Analysis.



Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
	ALS Environmental - Thunder Bay			
Digestion for TKN in water	EP318 ALS Environmental - Thunder Bay	Water	APHA 4500-Norg D (mod)	Samples are digested at high temperature using Sulfuric Acid with Copper catalyst, which converts organic nitrogen sources to Ammonia, which is then quantified by the analytical method as TKN. This method is unsuitable for samples containing high levels of nitrate. If nitrate exceeds TKN concentration by ten times or more, results may be biased low.
Preparation for Total Organic Carbon by Combustion	EP355 ALS Environmental - Thunder Bay	Water		Preparation for Total Organic Carbon by Combustion
Preparation for Dissolved Organic Carbon for Combustion	EP358 ALS Environmental - Thunder Bay	Water	APHA 5310 B (mod)	Preparation for Dissolved Organic Carbon
Digestion for Total Phosphorus in water	EP372 ALS Environmental - Thunder Bay	Water	APHA 4500-P E (mod).	Samples are heated with a persulfate digestion reagent.
Dissolved Metals Water Filtration	EP421 ALS Environmental - Thunder Bay	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO ₃ .
Dissolved Mercury Water Filtration	EP509 ALS Environmental - Thunder Bay	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HCl.
Total Methylmercury Water Preparation	EP536 ALS Environmental - Vancouver	Water	EPA 1630	This method follows Method 1630 of the US EPA. Samples are distilled under an inert gas flow to isolate methylmercury and minimize matrix interferences. The distillate is analyzed by aqueous phase ethylation, purge and trap, desorption and GC separation. The separated species are then pyrolyzed to elemental Hg and quantified by cold vapour atomic fluorescence spectroscopy. Results are reported "as MeHg".
Dissolved Methylmercury Water Preparation	EP537 ALS Environmental - Vancouver	Water	EPA 1630	This method follows Method 1630 of the US EPA. Samples are distilled under an inert gas flow to isolate methylmercury and minimize matrix interferences. The distillate is analyzed by aqueous phase ethylation, purge and trap, desorption and GC separation. The separated species are then pyrolyzed to elemental Hg and quantified by cold vapour atomic fluorescence spectroscopy. Results are reported "as MeHg".
Chlorophyll-a Extraction (Field Filtered)	EP870A ALS Environmental - Winnipeg	Water	EPA 445.0 (mod)	Chlorophyll-a solvent extraction.

Intake and Login Verification Form

SAMPLE INTAKE				ACCOUNT INFO VERIFICATION			
Priority/Emergency Service Requested	YES	NO		Priority/Emergency Service Requested	YES	NO	
Time Sensitive Hold Time	YES	NO		Confirmed all as accurate as per COC, Sample Remarks or PM			
Client:				Client	Work Contact	Quote	
SAMPLE RECEIPT INFORMATION				RECEIPT DETAIL			
Mode of Delivery:	Courier	Drop Off		Project	PO	Site/LSD	
Courier				Overall Description Entered	Yes	NA	
Waybill Number				Received date/time as per COC			
Temperature			Cooler Count	Recipients match CoC or Sample Remarks	Yes	No	
Cooling Method	None	Ice	Ice Packs	Billing Instruction added to remarks	Yes	NA	
SAMPLE MATRIX/BOTTLE INFORMATION				Sample Remarks/Specification Doc checked			
Matrix:	Water	Soil	Air	Biota	Other		
DW Schedule 24 Bottles Correct?			Yes	No			
DW Metals pH Check <2			Yes	No			
Regulation Circled, Works # present	Yes	No - Reject?		VERIFICATION CHECKLIST			
# of Bottles:	16	Sample Count	12	Planned Event Submission	Yes	No	
Green/white	250000 15W 1BOD			Sample Name entered as per CoC			
Purple/white	8N 1DOC			Sampling Date and time entered as per CoC			
Warm red/white	8M 1DM 8pad 1thioch.			Containers selected in layout order			
Yellow/black	8Hq 1Dtg 1totmethHq 1DmethHq			Sales items entered from QUOTE ONLY (and/or verified as correct)			
Light blue/white				Field Data/EC298A removed if not on COC	Yes	NA	
Orange/black				Bottle Allocation Verified			
Others (detail)	4 chlorophyll. 8 ultra trace Hq. 8 cn.			Guideline added or auto-allocated			
Comments on Samples and Bottles: DW questions not answered. missing CoC pg. 5-6. Received 3 extra Fracturing: 10, 11 & 12.				Due dates updated			
Samples Requiring Preservation or Filtering:				VALIDATION			
Layout Staff Initials	ufg 9-22-25 12:02pm			Validation errors resolved?	Yes	No	
Date and Time of Layout				Internal Sublet CoC created	Yes	NA	
				Login Comments:			
				Login Staff Initials:	K		

Algae Taxon Composition in June and September 2025

STATION	SEASON	PHYLUM	CLASS	ORDER	FAMILY	GENUS	SPECIES	COUNT PER TAXA	DENSITY (#/ML)	DENSITY (%)	BIOVOLUME (UM ³ /ML)	BIOVOLUME (%)
OL-B	June	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella	kutzingiana	291650	307	39.2	35297	10.7
OL-B	June	Bacillariophyta	Fragilariophyceae	Fragilariales	Fragilariaceae	Synedra	radians	89300	94	12.0	33825	10.2
OL-B	June	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella	stelligera	53200	56	7.2	3101	0.9
OL-B	June	Bacillariophyta	Bacillariophyceae	Fragilariales	Fragilariaceae	Diatoma	tenue elongatum comta	41800	44	5.6	75768	22.9
OL-B	June	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella		36100	38	4.8	85314	25.8
OL-B	June	Bacillariophyta	Bacillariophyceae	Achnanthales	Achnanthaceae	Achnanthes	minutissima	29450	31	4.0	15662	0.5
OL-B	June	Cryptophyta	Cryptophyceae	Cryptomonadales	Cryptomonadaceae	Cryptomonas	erosa	23750	25	3.2	13029	3.9
OL-B	June	Bacillariophyta	Bacillariophyceae	Fragilariales	Fragilariaceae	Asterionella	formosa	18050	19	2.4	9509	2.9
OL-B	June	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Kephyrion	obliquum	18050	19	2.4	2725	0.8
OL-B	June	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Kephyrion	spirale	12350	13	1.6	789	0.2
OL-B	June	Bacillariophyta	Bacillariophyceae	Achnanthales	Achnanthaceae	Achnanthes	linearis	12350	13	1.6	1654	0.5
OL-B	June	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Kephyrion	littorale	12350	13	1.6	1190	0.4
OL-B	June	Bacillariophyta	Bacillariophyceae	Naviculales	Naviculaceae	Navicula	cryptocephala	12350	13	1.6	2318	0.7
OL-B	June	Bacillariophyta	Bacillariophyceae	Naviculales	Naviculaceae	Navicula	pupula	12350	13	1.6	3383	1.0
OL-B	June	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Dinobryon	sertularia	12350	13	1.6	2255	0.7
OL-B	June	Cyanobacteria	Cyanophyceae	Chroococcales	Chroococcaceae	Chroococcus	minimus	5700	6	0.8	702	0.2
OL-B	June	Bacillariophyta	Bacillariophyceae	Fragilariales	Fragilariaceae	Fragilaria	construens	5700	6	0.8	5612	1.7
OL-B	June	Bacillariophyta	Bacillariophyceae	Thalassiophysales	Catenulaceae	Amphora	coffeaeformis	5700	6	0.8	595	0.2
OL-B	June	Bacillariophyta	Bacillariophyceae	Rhopalodiales	Rhopalodiaceae	Epithemia	turgida	5700	6	0.8	26622	8.0
OL-B	June	Bacillariophyta	Bacillariophyceae	Achnanthales	Achnanthaceae	Achnanthes	exigua	5700	6	0.8	702	0.2
OL-B	June	Bacillariophyta	Bacillariophyceae	Tabellariales	Tabellariaceae	Tabellaria	flocculosa	5700	6	0.8	3696	1.1
OL-B	June	Bacillariophyta	Bacillariophyceae	Achnanthales	Achnanthaceae	Achnanthes	lanceolata	5700	6	0.8	1128	0.3
OL-B	June	Bacillariophyta	Bacillariophyceae	Eunotiales	Eunotiaceae	Eunotia	pectinalis	5700	6	0.8	4510	1.4
OL-B	June	Chlorophyta	Chlorophyceae	Sphaeropleales	Hydrodictyceae	Pediastrum	boryanum	5700	6	0.8	5011	1.5
OL-B	June	Bacillariophyta	Bacillariophyceae	Fragilariales	Fragilariaceae	Fragilaria	capucina mesolepta ambigua	5700	6	0.8	3195	1.0
OL-B	June	Bacillariophyta	Bacillariophyceae	Melosirales	Melosiraceae	Melosira		5700	6	0.8	7379	2.2
OL-B	June	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Kephyrion	sp.	5700	6	0.8	395	0.1
OL-F	June	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella	kutzingiana	295483	311	26.3	35769	14.6

OL-F	June	Bacillariophyta	Fragilariophyceae	Fragilariales	Fragilariaceae	Synedra	radians	177290	187	15.8	67183	27.5
OL-F	June	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella	stelligera	147741	156	13.2	8553	3.5
OL-F	June	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Dinobryon	sertularia	88645	93	7.9	22395	9.2
OL-F	June	Cryptophyta	Cryptophyceae	Cryptomonadales	Cryptomonadaceae	Cryptomonas	erosa	73871	78	6.6	40435	16.5
OL-F	June	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Kephyrion	littorale	44322	47	4.0	4432	1.8
OL-F	June	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Kephyrion	spirale	29548	31	2.6	1960	0.8
OL-F	June	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Kephyrion	sp.	29548	31	2.6	1960	0.8
OL-F	June	Cryptophyta	Cryptophyceae	Pyrenomonadales	Pyrenomonadaceae	Rhodomonas	minuta	29548	31	2.6	622	0.3
OL-F	June	Chlorophyta	Chlorophyceae	Sphaeropleales	Selenastraceae	Ankistrodesmus	falcatus	29548	31	2.6	778	0.3
OL-F	June	Bacillariophyta	Bacillariophyceae	Achnanthales	Achnanthaceae	Achnanthes	minutissima	29548	31	2.6	1555	0.6
OL-F	June	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Kephyrion	obliquum	29548	31	2.6	4510	1.8
OL-F	June	Bacillariophyta	Fragilariophyceae	Fragilariales	Fragilariaceae	Synedra	rumpens	14774	16	1.3	2177	0.9
OL-F	June	Bacillariophyta	Fragilariophyceae	Fragilariales	Fragilariaceae	Synedra	ulna	14774	16	1.3	30948	12.6
OL-F	June	Cyanobacteria	Cyanophyceae	Chroococcales	Chroococcaceae	Chroococcus	minimus	14774	16	1.3	871	0.4
OL-F	June	Bacillariophyta	Bacillariophyceae	Cymbellales	Gomphonemataceae	Gomphonema	gracile	14774	16	1.3	3810	1.6
OL-F	June	Bacillariophyta	Bacillariophyceae	Fragilariales	Fragilariaceae	Fragilaria	construens venter	14774	16	1.3	747	0.3
OL-F	June	Bacillariophyta	Bacillariophyceae	Achnanthales	Achnanthaceae	Achnanthes	linearis	14774	16	1.3	2053	0.8
OL-F	June	Bacillariophyta	Bacillariophyceae	Cymbellales	Gomphonemataceae	Gomphonema	angustatum	14774	16	1.3	2799	1.1
OL-F	June	Bacillariophyta	Bacillariophyceae	Fragilariales	Fragilariaceae	Diatoma	tenue elongatum kutzingiana	14774	16	1.3	11197	4.6
OL-100	June	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella		282939	298	22.6	34250	5.3
OL-100	June	Bacillariophyta	Fragilariophyceae	Fragilariales	Fragilariaceae	Synedra	radians	215572	227	17.2	81691	12.8
OL-100	June	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella	stelligera	202099	213	16.1	11700	1.8
OL-100	June	Cryptophyta	Cryptophyceae	Cryptomonadales	Cryptomonadaceae	Cryptomonas	erosa	107786	113	8.6	58999	9.2
OL-100	June	Dinozoa	Dinophyceae	Peridinales	Peridiniaceae	Glenodinium	sp.	80840	85	6.5	59566	9.3
OL-100	June	Bacillariophyta	Bacillariophyceae	Achnanthales	Achnanthaceae	Achnanthes	minutissima	67366	71	5.4	3546	0.6
OL-100	June	Bacillariophyta	Bacillariophyceae	Fragilariales	Fragilariaceae	Diatoma	tenue elongatum littorale	53893	57	4.3	122536	19.1
OL-100	June	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Kephyrion		26947	28	2.2	2695	0.4
OL-100	June	Bacillariophyta	Bacillariophyceae	Fragilariales	Fragilariaceae	Fragilaria	crotonensis	26947	28	2.2	190611	29.7
OL-100	June	Bacillariophyta	Fragilariophyceae	Fragilariales	Fragilariaceae	Synedra	rumpens	26947	28	2.2	3971	0.6
OL-100	June	Bacillariophyta	Bacillariophyceae	Bacillariales	Bacillariaceae	Nitzschia	linearis	13473	14	1	21614	3.4

OL-100	June	Bacillariophyta	Bacillariophyceae	Fragilariales	Fragilariaceae	Fragilaria	leptostauron	13473	14	1.1	2610	0.4
OL-100	June	Bacillariophyta	Bacillariophyceae	Fragilariales	Fragilariaceae	Fragilaria	construens venter	13473	14	1.1	681	0.1
OL-100	June	Chlorophyta	Trebouxiophyceae	Chlorellales	Oocystaceae	Oocystis	pusilla	13473	14	1.1	3063	0.5
OL-100	June	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Dinobryon	sertularia	13473	14	1.1	6808	1.1
OL-100	June	Bacillariophyta	Fragilariophyceae	Fragilariales	Fragilariaceae	Synedra	ulna	13473	14	1.1	28223	4.4
OL-100	June	Chlorophyta	Chlorophyceae	Sphaeropleales	Selenastraceae	Selenastrum	minutum	13473	14	1.1	284	0.04
OL-100	June	Bacillariophyta	Bacillariophyceae	Naviculales	Naviculaceae	Navicula	cryptocephala	13473	14	1.1	2624	0.4
OL-100	June	Chlorophyta	Chlorophyceae	Sphaeropleales	Selenastraceae	Ankistrodesmus	falcatus	13473	14	1.1	355	0.06
OL-100	June	Cryptophyta	Cryptophyceae	Pyrenomonadales	Pyrenomonadaceae	Rhodomonas	minuta	13473	14	1.1	284	0.04
OL-100	June	Chlorophyceae	Chlorophyceae	Sphaeropleales	Scenedesmaceae	Scenedesmus	quadricauda	13473	14	1.1	3687	0.6
OL-100	June	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Kephyrion	sp.	13473	14	1.1	893	0.1
OL-250	June	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella	kutzingiana	293794	309	28.8	35565	12.6
OL-250	June	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella	stelligera	195863	206	19.2	11339	4.0
OL-250	June	Bacillariophyta	Fragilariophyceae	Fragilariales	Fragilariaceae	Synedra	radians	65288	69	6.4	24741	8.7
OL-250	June	Bacillariophyta	Bacillariophyceae	Fragilariales	Fragilariaceae	Diatoma	tenue elongatum obliquum	48966	52	4.8	63088	22.3
OL-250	June	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Kephyrion		40805	43	4.0	6228	2.2
OL-250	June	Ochrophyta	Chrysophyceae	Ochromonadales	Ochromonadaceae	Ochromonas	sp.	40805	43	4.0	3651	1.3
OL-250	June	Bacillariophyta	Bacillariophyceae	Achnanthales	Achnanthaceae	Achnanthes	minutissima	40805	43	4.0	2148	0.8
OL-250	June	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Kephyrion	littorale	40805	43	4.0	4080	1.4
OL-250	June	Cryptophyta	Cryptophyceae	Cryptomonadales	Cryptomonadaceae	Cryptomonas	erosa	32644	34	3.2	17868	6.3
OL-250	June	Bacillariophyta	Fragilariophyceae	Fragilariales	Fragilariaceae	Synedra	ulna	24483	26	2.4	51285	18.1
OL-250	June	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Dinobryon	sertularia	24483	26	2.4	7113	2.5
OL-250	June	Cyanobacteria	Cyanophyceae	Nostocales	Nostocaceae	Anabaena	flos-aquae	24483	26	2.4	20720	7.3
OL-250	June	Bacillariophyta	Bacillariophyceae	Cymbellales	Gomphonemataceae	Gomphonema	angustatum	16322	17	1.6	3093	1.1
OL-250	June	Bacillariophyta	Bacillariophyceae	Naviculales	Naviculaceae	Navicula	minima	16322	17	1.6	756	0.3
OL-250	June	Bacillariophyta	Bacillariophyceae	Fragilariales	Fragilariaceae	Fragilaria	construens venter	16322	17	1.6	1649	0.6
OL-250	June	Bacillariophyta	Bacillariophyceae	Naviculales	Naviculaceae	Navicula	cryptocephala	16322	17	1.6	3178	1.1
OL-250	June	Ochrophyta	Chrysophyceae	Chromulinales	Chrysococcaceae	Chrysococcus	rufescens	16322	17	1.6	1460	0.5
OL-250	June	Cryptophyta	Cryptophyceae	Pyrenomonadales	Pyrenomonadaceae	Rhodomonas	minuta	8161	9	0.8	172	0.1
OL-250	June	Bacillariophyta	Bacillariophyceae	Achnanthales	Cocconeidaceae	Cocconeis	disculus	8161	9	0.8	644	0.3

OL-250	June	Chlorophyta	Trebouxiophyceae	Chlorellales	Oocystaceae	Oocystis	pusilla	8161	9	0.8	928	0.3
OL-250	June	Bacillariophyta	Bacillariophyceae	Melosirales	Melosiraceae	Melosira	ambigua	8161	9	0.8	15179	5.4
OL-250	June	Bacillariophyta	Bacillariophyceae	Cymbellales	Gomphonemataceae	Gomphonema	tenellum	8161	9	0.8	1804	0.6
OL-250	June	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Kephyrion	sp.	8161	9	0.8	541	0.2
OL-250	June	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Kephyrion	spirale	8161	9	0.8	541	0.2
OL-250	June	Bacillariophyta	Bacillariophyceae	Cymbellales	Gomphonemataceae	Gomphonema	subclavatum	8161	9	0.8	5154	1.8
HL-B	June	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella	kutzingiana	148633	156	22.8	17992	1.8
HL-B	June	Cryptophyta	Cryptophyceae	Cryptomonadales	Cryptomonadaceae	Cryptomonas	erosa	96934	102	14.9	53059	5.4
HL-B	June	Bacillariophyta	Fragilariophyceae	Fragilariales	Fragilariaceae	Synedra	radians	71085	75	10.9	26938	2.7
HL-B	June	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella	comta	51698	541	7.9	123532	12.5
HL-B	June	Cryptophyta	Cryptophyceae	Pyrenomonadales	Pyrenomonadaceae	Rhodomonas	minuta	38774	41	5.9	816	0.1
HL-B	June	Bacillariophyta	Bacillariophyceae	Naviculales	Naviculaceae	Navicula	cryptocephala	32311	34	5.0	6292	0.6
HL-B	June	Chlorophyta	Chlorophyceae	Chlamydomonadales	Sphaerocystidaceae	Sphaerocystis	schroeteri	25849	27	4.0	13333	1.4
HL-B	June	Bacillariophyta	Bacillariophyceae	Fragilariales	Fragilariaceae	Fragilaria	crotonensis	25849	27	4.0	571403	58.0
HL-B	June	Chlorophyta	Chlorophyceae	Sphaeropleales	Selenastraceae	Ankistrodesmus	falcatus	19387	20	3.0	867	0.1
HL-B	June	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella	stelligera	19387	20	3.0	1122	0.1
HL-B	June	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Dinobryon	sertularia	19387	20	3.0	4898	0.5
HL-B	June	Bacillariophyta	Bacillariophyceae	Achnanthales	Achnanthaceae	Achnanthes	minutissima	19387	14	2.0	1020	0.1
HL-B	June	Chlorophyta	Trebouxiophyceae	Chlorellales	Oocystaceae	Oocystis	pusilla	19387	14	2.0	2939	0.3
HL-B	June	Bacillariophyta	Bacillariophyceae	Fragilariales	Fragilariaceae	Asterionella	formosa	19387	14	2.0	14965	1.5
HL-B	June	Bacillariophyta	Bacillariophyceae	Tabellariales	Tabellariaceae	Tabellaria	fenestrata	6462	7	1.0	48977	5.0
HL-B	June	Bacillariophyta	Fragilariophyceae	Fragilariales	Fragilariaceae	Synedra	delicatissima	6462	7	1.0	4490	0.5
HL-B	June	Bacillariophyta	Bacillariophyceae	Cymbellales	Cymbellaceae	Cymbella	microcephala	6462	7	1.0	361	0.04
HL-B	June	Bacillariophyta	Bacillariophyceae	Bacillariales	Bacillariaceae	Nitzschia	paleacea	6462	7	1.0	667	0.1
HL-B	June	Chlorophyceae	Chlorophyceae	Sphaeropleales	Scenedesmaceae	Scenedesmus	quadricauda	6462	7	1.0	1326	0.1
HL-B	June	Bacillariophyta	Bacillariophyceae	Bacillariales	Bacillariaceae	Nitzschia	linearis	6462	7	1.0	10367	1.1
HL-B	June	Dinozoa	Dinophyceae	Gonyaulacales	Ceratiaceae	Ceratium	hirundinella	6462	7	1.0	66664	6.8
HL-B	June	Bacillariophyta	Bacillariophyceae	Cymbellales	Cymbellaceae	Cymbella	lunata	6462	7	1.0	5850	0.6
HL-B	June	Cyanobacteria	Cyanophyceae	Nostocales	Aphanizomenonaceae	Aphanizomenon	flos-aquae	6462	7	1.0	4286	0.4
HL-B	June	Bacillariophyta	Bacillariophyceae	Bacillariales	Bacillariaceae	Nitzschia	capitellata	6462	7	1.0	2449	0.2
HL-B-IN	June	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella	kutzingiana	191066	201	26.8	231295	2.5

HL-B-IN	June	Bacillariophyta	Fragilariophyceae	Fragilariales	Fragilariaceae	Synedra	radians	121587	128	17.1	46075	4.9
HL-B-IN	June	Cryptophyta	Cryptophyceae	Cryptomonadales	Cryptomonadaceae	Cryptomonas	erosa	75268	79	10.6	41199	4.4
HL-B-IN	June	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella	comta	52109	55	7.3	124513	13.3
HL-B-IN	June	Bacillariophyta	Bacillariophyceae	Fragilariales	Fragilariaceae	Fragilaria	crotonensis	46319	49	6.5	655291	70.2
HL-B-IN	June	Cryptophyta	Cryptophyceae	Pyrenomonadales	Pyrenomonadaceae	Rhodomonas	minuta	46319	49	6.5	975	0.1
HL-B-IN	June	Chlorophyta	Chlorophyceae	Chlamydomonadales	Sphaerocystidaceae	Sphaerocystis	schroeteri	40529	43	5.7	11050	1.2
HL-B-IN	June	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Dinobryon	sertularia	23159	24	3.3	4388	0.5
HL-B-IN	June	Chlorophyta	Chlorophyceae	Sphaeropleales	Selenastraceae	Ankistrodesmus	falcatus	23159	24	3.3	1097	0.1
HL-B-IN	June	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella	stelligera	17370	18	2.4	1006	0.1
HL-B-IN	June	Dinozoa	Dinophyceae	Peridinales	Peridiniaceae	Glenodinium	sp.	11580	12	1.6	8532	0.9
HL-B-IN	June	Bacillariophyta	Bacillariophyceae	Achnanthes	Achnantheaceae	Achnanthes	minutissima	11580	12	1.6	609	0.1
HL-B-IN	June	Chlorophyta	Trebouxiophyceae	Chlorellales	Oocystaceae	Oocystis	pusilla	11580	12	1.6	3949	0.4
HL-B-IN	June	Chlorophyceae	Chlorophyceae	Sphaeropleales	Scenedesmaceae	Scenedesmus	quadricauda	11580	12	1.6	3169	0.3
HL-B-IN	June	Bacillariophyta	Bacillariophyceae	Naviculales	Naviculaceae	Navicula	sp.	5790	6	0.8	914	0.1
HL-B-IN	June	Bacillariophyta	Bacillariophyceae	Fragilariales	Fragilariaceae	Fragilaria	construens	5790	6	0.8	683	0.1
HL-B-IN	June	Bacillariophyta	Bacillariophyceae	Naviculales	Naviculaceae	Navicula	cryptocephala	5790	6	0.8	1128	0.1
HL-B-IN	June	Bacillariophyta	Bacillariophyceae	Cymbellales	Cymbellaceae	Cymbella	lunata	5790	6	0.8	5241	0.6
HL-B-IN	June	Bacillariophyta	Fragilariophyceae	Fragilariales	Fragilariaceae	Synedra	rumpens	5790	6	0.8	853	0.1
HL-REF	June	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella	kutzingiana	220717	232	35.4	26718	5.3
HL-REF	June	Cryptophyta	Cryptophyceae	Cryptomonadales	Cryptomonadaceae	Cryptomonas	erosa	77900	82	12.5	42640	8.4
HL-REF	June	Cryptophyta	Cryptophyceae	Pyrenomonadales	Pyrenomonadaceae	Rhodomonas	minuta	71408	75	11.5	1503	0.3
HL-REF	June	Bacillariophyta	Fragilariophyceae	Fragilariales	Fragilariaceae	Synedra	radians	51933	55	8.3	19680	3.9
HL-REF	June	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella	comta	45442	48	7.3	108582	21.3
HL-REF	June	Chlorophyta	Chlorophyceae	Chlamydomonadales	Sphaerocystidaceae	Sphaerocystis	schroeteri	38950	41	6.3	17220	3.4
HL-REF	June	Bacillariophyta	Bacillariophyceae	Tabellariales	Tabellariaceae	Tabellaria	fenestrata	19475	21	3.1	196800	38.7
HL-REF	June	Bacillariophyta	Bacillariophyceae	Fragilariales	Fragilariaceae	Asterionella	formosa	12983	14	2.1	9020	1.8
HL-REF	June	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella	stelligera	12983	14	2.1	752	0.1
HL-REF	June	Chlorophyta	Chlorophyceae	Sphaeropleales	Selenastraceae	Ankistrodesmus	falcatus	12983	14	2.1	342	0.1
HL-REF	June	Bacillariophyta	Bacillariophyceae	Fragilariales	Fragilariaceae	Fragilaria	construens	12983	14	2.1	3827	0.8
HL-REF	June	Bacillariophyta	Fragilariophyceae	Fragilariales	Fragilariaceae	Synedra	delicatissima	6492	7	1.0	4510	0.9
HL-REF	June	Bacillariophyta	Bacillariophyceae	Cymbellales	Anomoeoneidaceae	Anomoeoneis	vitrea	6492	7	1.0	820	0.2

HL-REF	June	Bacillariophyta	Bacillariophyceae	Fragilariales	Fragilariaceae	Fragilaria	crotonensis	6492	7	1.0	68880	13.5
HL-REF	June	Bacillariophyta	Bacillariophyceae	Achnanthales	Achnanthaceae	Achnanthes	clevei	6492	7	1.0	1025	0.2
HL-REF	June	Bacillariophyta	Bacillariophyceae	Achnanthales	Achnanthaceae	Achnanthes	minutissima	6492	7	1.0	342	0.1
HL-REF	June	Dinozoa	Dinophyceae	Peridinales	Peridiniaceae	Glenodinium	sp.	6492	7	1.0	4783	0.9
HL-REF	June	Cyanobacteria	Cyanophyceae	Chroococcales	Aphanothecaceae	Aphanothece	sp.	6492	7	1.0	1230	0.2
OL-250	Sept	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Kephyrion	littorale	109177	199	38.5	18858	24.7
OL-250	Sept	Cryptophyta	Cryptophyceae	Cryptomonadales	Cryptomonadaceae	Cryptomonas	erosa	29114	53	10.3	27526	36.0
OL-250	Sept	Cryptophyta	Cryptophyceae	Pyrenomonadales	Pyrenomonadaceae	Rhodomonas	minuta	25475	46	9.0	926	1.2
OL-250	Sept	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella	ocellata	25475	46	9.0	5790	7.6
OL-250	Sept	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Kephyrion	sp.	18196	33	6.4	2084	2.7
OL-250	Sept	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Kephyrion	spirale	14557	26	5.1	1667	2.2
OL-250	Sept	Bacillariophyta	Bacillariophyceae	Achnanthales	Achnanthaceae	Achnanthes	minutissima	10918	20	3.8	993	1.3
OL-250	Sept	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Dinobryon	sertularia	7278	13	2.6	2382	3.1
OL-250	Sept	Bacillariophyta	Fragilariophyceae	Fragilariales	Fragilariaceae	Synedra	radians	7278	13	2.6	4764	6.2
OL-250	Sept	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella	kutzingiana	7278	13	2.6	1522	2.0
OL-250	Sept	Bacillariophyta	Bacillariophyceae	Naviculales	Naviculaceae	Navicula	cryptocephala	3639	7	1.3	1224	1.6
OL-250	Sept	Bacillariophyta	Bacillariophyceae	Achnanthales	Cocconeidaceae	Cocconeis	placentula	3639	7	1.3	3044	4.0
OL-250	Sept	Bacillariophyta	Bacillariophyceae	Thalassiosirales	Stephanodiscaceae	Stephanodiscus	hantzschii	3639	7	1.3	794	1.0
OL-250	Sept	Ochrophyta	Chrysophyceae	Chromulinales	Chrysococcaceae	Chrysococcus	rufescens	3639	7	1.3	562	0.7
OL-250	Sept	Chlorophyceae	Chlorophyceae	Sphaeropleales	Scenedesmaceae	Scenedesmus	quadricauda	3639	7	1.3	1720	2.3
OL-250	Sept	Bacillariophyta	Bacillariophyceae	Naviculales	Naviculaceae	Navicula	sp.	3639	7	1.3	993	1.3
OL-250	Sept	Chlorophyta	Chlorophyceae	Sphaeropleales	Selenastraceae	Ankistrodesmus	falcatus	3639	7	1.3	165	0.2
OL-250	Sept	Chlorophyta	Trebouxiophyceae	Chlorellales	Oocystaceae	Oocystis	pusilla	3639	7	1.3	1429	1.9
HL-100-09	Sept	Cryptophyta	Cryptophyceae	Pyrenomonadales	Pyrenomonadaceae	Rhodomonas	minuta	50180	167	25.0	3345	2.1
HL-100-09	Sept	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella	ocellata	39029	130	19.4	16262	10.0
HL-100-09	Sept	Cryptophyta	Cryptophyceae	Cryptomonadales	Cryptomonadaceae	Cryptomonas	erosa	27878	93	13.9	48321	29.8
HL-100-09	Sept	Cyanobacteria	Cyanophyceae	Chroococcales	Aphanothecaceae	Aphanothece	sp.	20444	68	10.2	8791	5.4
HL-100-09	Sept	Cyanobacteria	Cyanophyceae	Chroococcales	Chroococcaceae	Chroococcus	minimus	18585	62	9.3	2602	1.6
HL-100-09	Sept	Chlorophyceae	Chlorophyceae	Sphaeropleales	Scenedesmaceae	Scenedesmus	quadricauda	11151	37	5.6	9664	6.0
HL-100-09	Sept	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella	comta	7434	25	3.7	56251	34.6
HL-100-09	Sept	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Kephyrion	littorale	3717	12	1.9	1177	0.7

HL-100-09	Sept	Chlorophyta	Chlorophyceae	Sphaeropleales	Hydrodictyceae	Tetraedron	minimum	3717	12	1.9	558	0.3
HL-100-09	Sept	Chlorophyta	Trebouxiophyceae	Chlorellales	Oocystaceae	Oocystis	pusilla	3717	12	1.9	2007	1.2
HL-100-09	Sept	Chlorophyta	Chlorophyceae	Sphaeropleales	Selenastraceae	Quadrigula	closterioides	3717	12	1.9	1189	0.7
HL-100-09	Sept	Cyanobacteria	Cyanophyceae	Chroococcales	Microcystaceae	Microcystis	aeruginosa	1859	6	0.9	3965	2.4
HL-100-09	Sept	Dinozoa	Dinophyceae	Peridinales	Peridiniaceae	Glenodinium	sp.	1859	6	0.9	4337	2.7
HL-100-09	Sept	Chlorophyta	Chlorophyceae	Chlamydomonadales	Sphaerocystidaceae	Sphaerocystis	schroeteri	1859	6	0.9	1735	1.1
HL-100-09	Sept	Chlorophyta	Chlorophyceae	Sphaeropleales	Scenedesmaceae	Crucigenia	quadrata	1859	6	0.9	527	0.3
HL-100-09	Sept	Chlorophyta	Chlorophyceae	Sphaeropleales	Selenastraceae	Ankistrodesmus	falcatus	1859	6	0.9	155	0.1
HL-100-09	Sept	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Dinobryon	sertularia	1859	6	0.9	1487	0.9
HL-REF	Sept	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella	ocellata	159803	320	30.7	39951	7.3
HL-REF	Sept	Cryptophyta	Cryptophyceae	Cryptomonadales	Cryptomonadaceae	Cryptomonas	erosa	100617	201	19.3	104641	19.2
HL-REF	Sept	Cyanobacteria	Cyanophyceae	Chroococcales	Aphanothecaceae	Aphanothece	sp.	71024	142	13.7	13210	2.4
HL-REF	Sept	Cyanobacteria	Cyanophyceae	Chroococcales	Chroococcaceae	Chroococcus	minimus	53268	107	10.2	2536	0.5
HL-REF	Sept	Cryptophyta	Cryptophyceae	Pyrenomonadales	Pyrenomonadaceae	Rhodomonas	minuta	41430	83	8.0	1657	0.3
HL-REF	Sept	Cyanobacteria	Cyanophyceae	Nostocales	Aphanizomenonaceae	Aphanizomenon	flos-aquae	17756	36	3.4	29084	5.3
HL-REF	Sept	Chlorophyceae	Chlorophyceae	Sphaeropleales	Scenedesmaceae	Scenedesmus	quadricauda	17756	36	3.4	9233	1.7
HL-REF	Sept	Chlorophyta	Chlorophyceae	Chlamydomonadales	Sphaerocystidaceae	Sphaerocystis	schroeteri	11837	24	2.3	8286	1.5
HL-REF	Sept	Bacillariophyta	Bacillariophyceae	Fragilariales	Fragilariaceae	Fragilaria	crotonensis	11837	24	2.3	278413	51.2
HL-REF	Sept	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella	kutzingiana	11837	24	2.3	2723	0.5
HL-REF	Sept	Chlorophyta	Ulvophyceae	Ulotrichales	Ulotrichaceae	Ulothrix	sp.	5919	12	1.1	7576	1.4
HL-REF	Sept	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella	comta	5919	12	1.1	26871	5.0
HL-REF	Sept	Bacillariophyta	Fragilariophyceae	Fragilariales	Fragilariaceae	Synedra	radians	5919	12	1.1	4261	0.8
HL-REF	Sept	Bacillariophyta	Bacillariophyceae	Fragilariales	Fragilariaceae	Asterionella	formosa	5919	12	1.1	15625	2.9
HL-B	Sept	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella	ocellata	307659	308	37.3	38457	15.0
HL-B	Sept	Cryptophyta	Cryptophyceae	Cryptomonadales	Cryptomonadaceae	Cryptomonas	erosa	132853	133	16.1	69083	27.0
HL-B	Sept	Cyanobacteria	Cyanophyceae	Chroococcales	Aphanothecaceae	Aphanothece	sp.	83907	84	10.2	10824	4.2
HL-B	Sept	Cyanobacteria	Cyanophyceae	Chroococcales	Chroococcaceae	Chroococcus	minimus	62930	63	7.7	2643	1.0
HL-B	Sept	Cryptophyta	Cryptophyceae	Pyrenomonadales	Pyrenomonadaceae	Rhodomonas	minuta	34961	35	4.2	699	0.3
HL-B	Sept	Chlorophyceae	Chlorophyceae	Sphaeropleales	Scenedesmaceae	Scenedesmus	quadricauda	27969	28	3.4	7272	2.8
HL-B	Sept	Chlorophyta	Chlorophyceae	Sphaeropleales	Selenastraceae	Ankistrodesmus	falcatus	20977	21	2.5	524	0.2
HL-B	Sept	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella	kutzingiana	20977	21	2.5	3136	1.2

HL-B	Sept	Chlorophyta	Trebouxiophyceae	Chlorellales	Oocystaceae	Oocystis	pusilla	20977	21	2.5	3738	1.5
HL-B	Sept	Cyanobacteria	Cyanophyceae	Nostocales	Aphanizomenonaceae	Aphanizomenon	flos-aquae	20977	21	2.5	26431	10.3
HL-B	Sept	Chlorophyta	Chlorophyceae	Chlamydomonadales	Sphaerocystidaceae	Sphaerocystis	schroeteri	13985	14	1.7	1958	0.8
HL-B	Sept	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Kephyrion	littorale	13985	14	1.7	1329	0.5
HL-B	Sept	Chlorophyta	Trebouxiophyceae	Trebouxiales	Botryococcaceae	Botryococcus	braunii	13985	14	1.7	15103	5.9
HL-B	Sept	Ochrophyta	Chrysophyceae	Ochromonadales	Ochromonadaceae	Ochromonas	sp.	6992	7	0.8	594	0.2
HL-B	Sept	Bacillariophyta	Bacillariophyceae	Naviculales	Naviculaceae	Navicula	pupula	6992	7	0.8	1888	0.7
HL-B	Sept	Bacillariophyta	Bacillariophyceae	Fragilariales	Fragilariaceae	Asterionella	formosa	6992	7	0.8	18460	7.2
HL-B	Sept	Bacillariophyta	Bacillariophyceae	Fragilariales	Fragilariaceae	Fragilaria	crotonensis	6992	7	0.8	17620	6.9
HL-B	Sept	Bacillariophyta	Bacillariophyceae	Tabellariales	Tabellariaceae	Tabellaria	fenestrata	6992	7	0.8	33563	13.1
HL-B	Sept	Bacillariophyta	Bacillariophyceae	Achnanthales	Achnanthaceae	Achnanthes	minutissima	6992	7	0.8	350	0.1
HL-B	Sept	Bacillariophyta	Fragilariophyceae	Fragilariales	Fragilariaceae	Synedra	radians	6992	7	0.8	2517	1.0
OL-100	Sept	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Kephyrion	littorale	36149	103	29.0	9812	11.6
OL-100	Sept	Cryptophyta	Cryptophyceae	Pyrenomonadales	Pyrenomonadaceae	Rhodomonas	minuta	20083	57	16.1	1148	1.4
OL-100	Sept	Cryptophyta	Cryptophyceae	Cryptomonadales	Cryptomonadaceae	Cryptomonas	erosa	10711	31	8.6	15913	18.8
OL-100	Sept	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella	ocellata	9372	27	7.5	3347	3.9
OL-100	Sept	Bacillariophyta	Fragilariophyceae	Fragilariales	Fragilariaceae	Synedra	radians	8033	23	6.5	8263	9.7
OL-100	Sept	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Kephyrion	sp.	5355	15	4.3	964	1.1
OL-100	Sept	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella	kutzingiana	4017	11	3.2	1320	1.6
OL-100	Sept	Chlorophyta	Chlorophyceae	Chlamydomonadales	Chlamydomonadaceae	Chlamydomonas	sp.	4017	11	3.2	3730	4.4
OL-100	Sept	Bacillariophyta	Bacillariophyceae	Fragilariales	Fragilariaceae	Fragilaria	crotonensis	4017	11	3.2	22171	26.2
OL-100	Sept	Bacillariophyta	Bacillariophyceae	Cymbellales	Gomphonemataceae	Gomphonema	angustatum	2678	8	2.2	2066	2.4
OL-100	Sept	Chlorophyceae	Chlorophyceae	Sphaeropleales	Scenedesmaceae	Scenedesmus	quadricauda	2678	8	2.2	1989	2.3
OL-100	Sept	Bacillariophyta	Fragilariophyceae	Fragilariales	Fragilariaceae	Synedra	rumpens	2678	8	2.2	1071	1.3
OL-100	Sept	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Dinobryon	sertularia	2678	8	2.2	1836	2.2
OL-100	Sept	Bacillariophyta	Bacillariophyceae	Cymbellales	Cymbellaceae	Cymbella	microcephala	1339	4	1.1	203	0.2
OL-100	Sept	Chlorophyta	Trebouxiophyceae	Chlorellales	Oocystaceae	Oocystis	lacustris	1339	4	1.1	1193	1.4
OL-100	Sept	Chlorophyta	Chlorophyceae	Sphaeropleales	Scenedesmaceae	Crucigenia	quadrata	1339	4	1.1	1301	1.5
OL-100	Sept	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Kephyrion	spirale	1339	4	1.1	241	0.3
OL-100	Sept	Ochrophyta	Chrysophyceae	Chromulinales	Chrysococcaceae	Chrysococcus	rufescens	1339	4	1.1	325	0.4
OL-100	Sept	Bacillariophyta	Bacillariophyceae	Fragilariales	Fragilariaceae	Fragilaria	construens	1339	4	1.1	4284	5.1

OL-100	Sept	Chlorophyta	Trebouxiophyceae	Chlorellales	Oocystaceae	Oocystis	pusilla	1339	4	1.1	826	1.0
OL-100	Sept	Chlorophyta	Chlorophyceae	Chlamydomonadales	Sphaerocystidaceae	Sphaerocystis	schroeteri	1339	4	1.1	1071	1.3
OL-100	Sept	Bacillariophyta	Bacillariophyceae	Fragilariales	Fragilariaceae	Asterionella	formosa	1339	4	1.1	1683	2.0
DUP 1	Sept	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Kephyrion	littorale	46979	157	41.7	14877	17.4
DUP 1	Sept	Cryptophyta	Cryptophyceae	Cryptomonadales	Cryptomonadaceae	Cryptomonas	erosa	12813	43	11.4	22208	25.9
DUP 1	Sept	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Dinobryon	sertularia	6833	23	6.1	7653	8.9
DUP 1	Sept	Cryptophyta	Cryptophyceae	Pyrenomonadales	Pyrenomonadaceae	Rhodomonas	minuta	6833	23	6.1	456	0.5
DUP 1	Sept	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella	ocellata	6833	23	6.1	3132	3.7
DUP 1	Sept	Bacillariophyta	Fragilariophyceae	Fragilariales	Fragilariaceae	Synedra	radians	5125	17	4.5	6150	7.2
DUP 1	Sept	Bacillariophyta	Thalassiosirophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella	kutzingiana	3417	11	3.0	1310	1.5
DUP 1	Sept	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Kephyrion	spirale	3417	11	3.0	718	0.8
DUP 1	Sept	Ochrophyta	Chrysophyceae	Chromulinales	Dinobryaceae	Kephyrion	sp.	2563	9	2.3	538	0.6
DUP 1	Sept	Chlorophyta	Chlorophyceae	Chlamydomonadales	Chlamydomonadaceae	Chlamydomonas	sp.	2563	9	2.3	2776	3.2
DUP 1	Sept	Bacillariophyta	Bacillariophyceae	Achnanthales	Achnanthaceae	Achnanthes	minutissima	1708	6	1.5	285	0.3
DUP 1	Sept	Chlorophyceae	Chlorophyceae	Sphaeropleales	Scenedesmaceae	Scenedesmus	quadricauda	854	3	0.8	740	0.9
DUP 1	Sept	Bacillariophyta	Bacillariophyceae	Achnanthales	Achnanthaceae	Achnanthes	linearis	854	3	0.8	376	0.4
DUP 1	Sept	Bacillariophyta	Bacillariophyceae	Achnanthales	Achnanthaceae	Achnanthes	sp.	854	3	0.8	342	0.4
DUP 1	Sept	Bacillariophyta	Bacillariophyceae	Cymbellales	Gomphonemataceae	Gomphonema	angustatum	854	3	0.8	513	0.6
DUP 1	Sept	Bacillariophyta	Bacillariophyceae	Fragilariales	Fragilariaceae	Fragilaria	construens	854	3	0.8	1276	1.5
DUP 1	Sept	Ochrophyta	Chrysophyceae	Chromulinales	Chrysococcaceae	Chrysococcus	rufescens	854	3	0.8	242	0.3
DUP 1	Sept	Bacillariophyta	Fragilariophyceae	Fragilariales	Fragilariaceae	Synedra	rumpens	854	3	0.8	399	0.5
DUP 1	Sept	Chlorophyta	Trebouxiophyceae	Chlorellales	Oocystaceae	Oocystis	lacustris	854	3	0.8	444	0.5
DUP 1	Sept	Bacillariophyta	Bacillariophyceae	Bacillariales	Bacillariaceae	Nitzschia	paleacea	854	3	0.8	279	0.3
DUP 1	Sept	Bacillariophyta	Bacillariophyceae	Cymbellales	Gomphonemataceae	Gomphonema	gracile	854	3	0.8	698	0.8
DUP 1	Sept	Chlorophyta	Chlorophyceae	Sphaeropleales	Scenedesmaceae	Crucigenia	quadrata	854	3	0.8	242	0.3
DUP 1	Sept	Bacillariophyta	Bacillariophyceae	Melosirales	Melosiraceae	Melosira	italica	854	3	0.8	10728	12.5
DUP 1	Sept	Chlorophyta	Chlorophyceae	Chlamydomonadales	Sphaerocystidaceae	Sphaerocystis	schroeteri	854	3	0.8	1594	1.9
DUP 1	Sept	Bacillariophyta	Bacillariophyceae	Fragilariales	Fragilariaceae	Fragilaria	construens venter	854	3	0.8	547	0.6
DUP 1	Sept	Euglenozoa	Euglenophyceae	Euglenales	Euglenaceae	Trachelomonas	volvocina	854	3	0.8	5367	6.3
DUP 1	Sept	Bacillariophyta	Bacillariophyceae	Cymbellales	Gomphonemataceae	Gomphonema	subclavatum	854	3	0.8	1708	2.0

[APPENDIX 5

Fish Tissue Lab Data

Appendix 5

Fish Tissue Lab Data

CERTIFICATE OF ANALYSIS

Work Order	: TY2510917		
Client	: G3 Consulting Ltd.	Laboratory	: ALS Environmental - Thunder Bay
Contact	: Greg Thomas	Account Manager	: Colby Coutu
Address	: 206-8501 162nd St. Surrey British Columbia Canada V4N 1B2	Address	: 1081 Barton Street Thunder Bay ON Canada P7B 5N3
Telephone	: 604 598 8501	E-mail	: colby.coutu@alsglobal.com
Project	: 2502	Telephone	: +1 807 623 6463
PO	: 2502	Date Samples Received	: 19-Sep-2025 16:54
C-O-C number	: ----	Date Analysis Commenced	: 19-Nov-2025
Sampler	: ----	Issue Date	: 07-Jan-2026 13:46
Site	: ----		
Quote number	: Dubreuilville Project		
No. of samples received	: 28		
No. of samples analysed	: 28		

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.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Brieanna Allen	Production/Validation Manager	Organics, Burnaby, British Columbia
Dan Gebert	Supervisor - Metals Mercury & Speciation	Metals, Burnaby, British Columbia
Hamidreza Hamidzadeh	Lab Assistant	Metals, Burnaby, British Columbia
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Metals, Burnaby, British Columbia
Salimah Khimani	Lab Assistant	Metals, Burnaby, British Columbia
Shahrazad Firoozbakht	Lab Assistant	Metals, Burnaby, British Columbia



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).

Unit	Description
%	percent
% wwt	% wet weight
mg/kg	milligrams per kilogram
mg/kg wwt	milligrams per kilogram wet weight
µg/kg	micrograms per kilogram

<: less than.

>: greater than.

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.

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
DLIS	Detection Limit Adjusted due to insufficient sample.



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLLWS1	25ONG309 FT OLLWS2	25ONG309 FT OLLWS3	25ONG309 FT OLLWS4	25ONG309 FT OLLWS5
Client sampling date / time						09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510917-001	TY2510917-002	TY2510917-003	TY2510917-004	TY2510917-005
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.50	%		78.3	76.4	78.9	75.9	77.8
Moisture	----	E144A/VA	2.0	%		78.3	76.4	78.9	75.9	77.8
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg		39.3	10.1	<5.0	<5.0	<5.0
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt		8.5	2.4	<1.0	<1.0	<1.0
Antimony	7440-36-0	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Arsenic	7440-38-2	E475/VA	0.050	mg/kg		0.275	0.367	0.435	0.257	0.846
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt		0.060	0.086	0.092	0.062	0.188
Barium	7440-39-3	E475/VA	0.050	mg/kg		0.285	0.106	<0.050	<0.050	0.329
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt		0.062	0.025	0.010	<0.010	0.073
Beryllium	7440-41-7	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	7440-69-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	7440-42-8	E475/VA	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt		<0.22 ^{DLIS}	<0.22 ^{DLIS}	<0.21 ^{DLIS}	<0.22 ^{DLIS}	<0.20
Cadmium	7440-43-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	7440-70-2	E475/VA	20	mg/kg		796	622	633	403	10800



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLLWS1	25ONG309 FT OLLWS2	25ONG309 FT OLLWS3	25ONG309 FT OLLWS4	25ONG309 FT OLLWS5
					Client sampling date / time	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510917-001	TY2510917-002	TY2510917-003	TY2510917-004	TY2510917-005
						Result	Result	Result	Result	Result
Metals										
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt		172	147	133	97.3	2410
Cesium	7440-46-2	E475/VA	0.0050	mg/kg		1.00	0.930	0.949	0.810	1.35
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt		0.216	0.219	0.200	0.196	0.299
Chromium	7440-47-3	E475/VA	0.20	mg/kg		0.27	<0.20	<0.20	0.46	<0.20
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt		0.059	<0.040	<0.040	0.111	<0.040
Cobalt	7440-48-4	E475/VA	0.020	mg/kg		0.042	<0.020	<0.020	<0.020	<0.020
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt		0.0091	<0.0040	<0.0040	<0.0040	<0.0040
Copper	7440-50-8	E475/VA	0.20	mg/kg		1.09	0.63	0.52	1.00	0.37
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt		0.235	0.148	0.109	0.241	0.082
Iron	7439-89-6	E475/VA	5.0	mg/kg		82.3	27.9	12.2	15.6	10.1
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt		17.8	6.6	2.6	3.8	2.3
Lead	7439-92-1	E475/VA	0.050	mg/kg		<0.050	0.073	<0.050	<0.050	<0.050
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt		0.010	0.017	<0.010	<0.010	<0.010
Lithium	7439-93-2	E475/VA	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt		<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	7439-95-4	E475/VA	2.0	mg/kg		1160	1180	1340	1150	1500
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt		250	279	283	278	332
Manganese	7439-96-5	E475/VA	0.050	mg/kg		1.51	1.34	0.562	0.601	1.71
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt		0.326	0.315	0.118	0.145	0.379
Mercury	7439-97-6	E512/VA	0.010	mg/kg		0.361	0.532	0.377	0.350	0.451



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLLWS1	25ONG309 FT OLLWS2	25ONG309 FT OLLWS3	25ONG309 FT OLLWS4	25ONG309 FT OLLWS5
					Client sampling date / time	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510917-001	TY2510917-002	TY2510917-003	TY2510917-004	TY2510917-005
						Result	Result	Result	Result	Result
Metals										
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt		0.0781	0.125	0.0793	0.0845	0.100
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg		<0.040	<0.040	<0.040	<0.040	<0.040
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel	7440-02-0	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	0.74	0.65
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	0.178	0.145
Phosphorus	7723-14-0	E475/VA	20	mg/kg		9920	9930	11400	9210	15800
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt		2150	2340	2400	2220	3510
Potassium	7440-09-7	E475/VA	20	mg/kg		19200	19800	22000	16500	19500
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt		4160	4670	4630	3990	4340
Rubidium	7440-17-7	E475/VA	0.050	mg/kg		42.2	41.3	43.8	36.3	45.3
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt		9.13	9.73	9.22	8.78	10.1
Selenium	7782-49-2	E475/VA	0.10	mg/kg		1.43	1.08	1.30	1.17	1.28
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt		0.310	0.255	0.273	0.284	0.285
Sodium	7440-23-5	E475/VA	20	mg/kg		2210	1430	1200	2220	1920
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt		479	336	252	536	427
Strontium	7440-24-6	E475/VA	0.10	mg/kg		1.32	1.14	1.02	0.60	34.7
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt		0.286	0.270	0.214	0.144	7.70
Tellurium	13494-80-9	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	7440-28-0	E475/VA	0.0020	mg/kg		0.0117	0.0102	0.0096	0.0097	0.0135



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLLWS1	25ONG309 FT OLLWS2	25ONG309 FT OLLWS3	25ONG309 FT OLLWS4	25ONG309 FT OLLWS5
					Client sampling date / time	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510917-001	TY2510917-002	TY2510917-003	TY2510917-004	TY2510917-005
						Result	Result	Result	Result	Result
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt		0.00254	0.00239	0.00203	0.00234	0.00301
Tin	7440-31-5	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Uranium	7440-61-1	E475/VA	0.0020	mg/kg		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Vanadium	7440-62-2	E475/VA	0.10	mg/kg		0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt		0.022	<0.020	<0.020	<0.020	<0.020
Zinc	7440-66-6	E475/VA	1.0	mg/kg		16.9	17.6	15.0	15.0	20.3
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt		3.65	4.15	3.15	3.62	4.52
Zirconium	7440-67-7	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg		459	384	495	368	550
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt		1.09	1.36	0.55	1.30	<0.50

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



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLLWS6	25ONG309 FT OLLWS7	25ONG309 FT OLLWS8	25ONG309 FT OLLWS9	25ONG309 FT OLLWS10
Client sampling date / time						09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510917-006	TY2510917-007	TY2510917-008	TY2510917-009	TY2510917-010
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.50	%		75.3	80.4	78.5	78.8	78.4
Moisture	----	E144A/VA	2.0	%		75.3	80.4	78.5	78.8	78.4
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	5.2
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt		<1.0	<1.0	<1.0	<1.0	1.1
Antimony	7440-36-0	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Arsenic	7440-38-2	E475/VA	0.050	mg/kg		0.302	0.475	0.495	0.354	0.315
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt		0.075	0.093	0.106	0.075	0.068
Barium	7440-39-3	E475/VA	0.050	mg/kg		<0.050	0.132	0.198	<0.050	0.098
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt		<0.010	0.026	0.043	<0.010	0.021
Beryllium	7440-41-7	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	7440-69-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	7440-42-8	E475/VA	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt		<0.20	<0.20	<0.21 ^{DLIS}	<0.21 ^{DLIS}	<0.22 ^{DLIS}
Cadmium	7440-43-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	7440-70-2	E475/VA	20	mg/kg		452	1040	723	521	684



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLLWS6	25ONG309 FT OLLWS7	25ONG309 FT OLLWS8	25ONG309 FT OLLWS9	25ONG309 FT OLLWS10
					Client sampling date / time	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510917-006	TY2510917-007	TY2510917-008	TY2510917-009	TY2510917-010
						Result	Result	Result	Result	Result
Metals										
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt		112	204	155	110	148
Cesium	7440-46-2	E475/VA	0.0050	mg/kg		0.607	0.517	1.12	0.998	0.755
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt		0.150	0.101	0.242	0.212	0.163
Chromium	7440-47-3	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Cobalt	7440-48-4	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Copper	7440-50-8	E475/VA	0.20	mg/kg		0.77	1.01	0.96	0.67	0.68
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt		0.189	0.197	0.207	0.142	0.148
Iron	7439-89-6	E475/VA	5.0	mg/kg		15.0	17.6	20.9	27.1	19.0
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt		3.7	3.4	4.5	5.8	4.1
Lead	7439-92-1	E475/VA	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt		<0.010	<0.010	<0.010	<0.010	<0.010
Lithium	7439-93-2	E475/VA	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt		<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	7439-95-4	E475/VA	2.0	mg/kg		1110	1160	1430	1320	1460
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt		274	228	308	280	316
Manganese	7439-96-5	E475/VA	0.050	mg/kg		0.425	1.15	0.703	0.538	0.543
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt		0.105	0.224	0.151	0.114	0.117
Mercury	7439-97-6	E512/VA	0.010	mg/kg		0.341	0.478	0.574	0.298	0.367



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLLWS6	25ONG309 FT OLLWS7	25ONG309 FT OLLWS8	25ONG309 FT OLLWS9	25ONG309 FT OLLWS10
					Client sampling date / time	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510917-006	TY2510917-007	TY2510917-008	TY2510917-009	TY2510917-010
						Result	Result	Result	Result	Result
Metals										
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt		0.0844	0.0936	0.123	0.0632	0.0794
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg		<0.040	<0.040	<0.040	<0.040	<0.040
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel	7440-02-0	E475/VA	0.20	mg/kg		<0.20	0.50	<0.20	<0.20	<0.20
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt		<0.040	0.099	<0.040	<0.040	<0.040
Phosphorus	7723-14-0	E475/VA	20	mg/kg		9100	9350	11500	11000	10200
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt		2250	1830	2480	2330	2210
Potassium	7440-09-7	E475/VA	20	mg/kg		16900	16900	22200	21100	18000
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt		4170	3300	4770	4470	3890
Rubidium	7440-17-7	E475/VA	0.050	mg/kg		25.8	32.0	40.7	49.2	39.4
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt		6.38	6.26	8.74	10.4	8.52
Selenium	7782-49-2	E475/VA	0.10	mg/kg		1.65	1.03	1.53	1.22	1.15
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt		0.408	0.202	0.329	0.259	0.249
Sodium	7440-23-5	E475/VA	20	mg/kg		1730	2230	2130	1010	1840
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt		427	437	458	215	397
Strontium	7440-24-6	E475/VA	0.10	mg/kg		0.59	1.87	1.34	0.78	1.21
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt		0.146	0.365	0.288	0.165	0.261
Tellurium	13494-80-9	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	7440-28-0	E475/VA	0.0020	mg/kg		0.0039	0.0087	0.0106	0.0099	0.0083



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLLWS6	25ONG309 FT OLLWS7	25ONG309 FT OLLWS8	25ONG309 FT OLLWS9	25ONG309 FT OLLWS10
					Client sampling date / time	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510917-006	TY2510917-007	TY2510917-008	TY2510917-009	TY2510917-010
						Result	Result	Result	Result	Result
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt		0.00095	0.00170	0.00227	0.00210	0.00179
Tin	7440-31-5	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Uranium	7440-61-1	E475/VA	0.0020	mg/kg		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Vanadium	7440-62-2	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Zinc	7440-66-6	E475/VA	1.0	mg/kg		12.4	16.6	15.7	14.9	15.9
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt		3.07	3.24	3.38	3.16	3.44
Zirconium	7440-67-7	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	0.041	<0.040
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg		449	684	615	394	426
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt		0.83	<0.50	2.44	0.50	0.58

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



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLLWS11	25ONG309 FT OLLWS12	25ONG309 FT OLLWS13	25ONG309 FT OLLWS14	25ONG309 FT OLLWS15
					Client sampling date / time	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510917-011	TY2510917-012	TY2510917-013	TY2510917-014	TY2510917-015
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.50	%		77.7	79.2	79.3	79.5	77.3
Moisture	----	E144A/VA	2.0	%		77.7	79.2	79.3	79.5	77.3
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt		<1.0	<1.0	<1.0	<1.0	<1.0
Antimony	7440-36-0	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Arsenic	7440-38-2	E475/VA	0.050	mg/kg		0.278	0.469	0.394	0.229	0.451
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt		0.062	0.098	0.082	0.047	0.102
Barium	7440-39-3	E475/VA	0.050	mg/kg		0.078	<0.050	<0.050	<0.050	0.052
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt		0.017	<0.010	<0.010	<0.010	0.012
Beryllium	7440-41-7	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	7440-69-9	E475/VA	0.010	mg/kg		0.016	<0.010	<0.010	<0.010	<0.010
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt		0.0035	<0.0020	<0.0020	<0.0020	<0.0020
Boron	7440-42-8	E475/VA	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt		<0.20	<0.20	<0.21 ^{DLIS}	<0.20	<0.22 ^{DLIS}
Cadmium	7440-43-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	7440-70-2	E475/VA	20	mg/kg		684	460	601	396	712



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLLWS11	25ONG309 FT OLLWS12	25ONG309 FT OLLWS13	25ONG309 FT OLLWS14	25ONG309 FT OLLWS15
					Client sampling date / time	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510917-011	TY2510917-012	TY2510917-013	TY2510917-014	TY2510917-015
						Result	Result	Result	Result	Result
Metals										
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt		153	95.8	124	81.1	161
Cesium	7440-46-2	E475/VA	0.0050	mg/kg		0.510	0.692	0.988	0.691	0.590
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt		0.114	0.144	0.205	0.141	0.134
Chromium	7440-47-3	E475/VA	0.20	mg/kg		<0.20	<0.20	0.23	<0.20	<0.20
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	0.047	<0.040	<0.040
Cobalt	7440-48-4	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Copper	7440-50-8	E475/VA	0.20	mg/kg		0.67	0.76	0.55	0.73	0.61
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt		0.149	0.157	0.114	0.149	0.139
Iron	7439-89-6	E475/VA	5.0	mg/kg		16.2	10.9	13.4	12.1	14.0
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt		3.6	2.3	2.8	2.5	3.2
Lead	7439-92-1	E475/VA	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt		<0.010	<0.010	<0.010	<0.010	<0.010
Lithium	7439-93-2	E475/VA	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt		<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	7439-95-4	E475/VA	2.0	mg/kg		1400	1370	1450	1260	1270
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt		312	284	299	257	287
Manganese	7439-96-5	E475/VA	0.050	mg/kg		0.985	0.608	0.720	0.485	0.418
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt		0.220	0.127	0.149	0.099	0.095
Mercury	7439-97-6	E512/VA	0.010	mg/kg		0.373	0.387	0.403	0.386	0.416



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLLWS11 ----	25ONG309 FT OLLWS12 ----	25ONG309 FT OLLWS13 ----	25ONG309 FT OLLWS14 ----	25ONG309 FT OLLWS15 ----
Client sampling date / time						09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510917-011	TY2510917-012	TY2510917-013	TY2510917-014	TY2510917-015
						Result	Result	Result	Result	Result
Metals										
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt		0.0832	0.0805	0.0836	0.0790	0.0943
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg		<0.040	<0.040	<0.040	<0.040	<0.040
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel	7440-02-0	E475/VA	0.20	mg/kg		<0.20	1.53	<0.20	<0.20	<0.20
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt		<0.040	0.319	<0.040	<0.040	<0.040
Phosphorus	7723-14-0	E475/VA	20	mg/kg		9660	11300	11400	10100	9850
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt		2160	2360	2350	2060	2230
Potassium	7440-09-7	E475/VA	20	mg/kg		17400	21700	21200	18300	17300
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt		3880	4520	4390	3740	3930
Rubidium	7440-17-7	E475/VA	0.050	mg/kg		30.6	36.8	40.5	31.8	34.6
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt		6.83	7.66	8.40	6.51	7.85
Selenium	7782-49-2	E475/VA	0.10	mg/kg		0.97	1.10	1.17	1.36	0.95
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt		0.217	0.229	0.243	0.278	0.216
Sodium	7440-23-5	E475/VA	20	mg/kg		2000	1760	2060	1630	2060
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt		446	367	426	334	468
Strontium	7440-24-6	E475/VA	0.10	mg/kg		1.32	0.59	0.75	0.62	1.33
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt		0.294	0.123	0.155	0.126	0.301
Tellurium	13494-80-9	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	7440-28-0	E475/VA	0.0020	mg/kg		0.0102	0.0097	0.0085	0.0032	0.0084



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLLWS11 ----	25ONG309 FT OLLWS12 ----	25ONG309 FT OLLWS13 ----	25ONG309 FT OLLWS14 ----	25ONG309 FT OLLWS15 ----
Client sampling date / time						09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510917-011	TY2510917-012	TY2510917-013	TY2510917-014	TY2510917-015
						Result	Result	Result	Result	Result
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt		0.00228	0.00202	0.00175	0.00065	0.00191
Tin	7440-31-5	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Uranium	7440-61-1	E475/VA	0.0020	mg/kg		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Vanadium	7440-62-2	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Zinc	7440-66-6	E475/VA	1.0	mg/kg		15.8	17.5	13.5	12.7	16.5
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt		3.51	3.65	2.80	2.60	3.75
Zirconium	7440-67-7	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg		439	476	505	539	472
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt		0.77	0.83	<0.50	3.59	0.53

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



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLLWS16 ----	25ONG309 FT OLLWS17 ----	25ONG309 FT OLLWS18 ----	25ONG309 FT OLLWS19 ----	25ONG309 FT OLLWS20 ----
Client sampling date / time						09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510917-016	TY2510917-017	TY2510917-018	TY2510917-019	TY2510917-020
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.50	%		76.4	79.0	77.6	80.4	76.7
Moisture	----	E144A/VA	2.0	%		76.4	79.0	77.6	80.4	76.7
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt		<1.0	<1.0	<1.0	<1.0	<1.0
Antimony	7440-36-0	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Arsenic	7440-38-2	E475/VA	0.050	mg/kg		0.315	0.379	0.301	0.587	0.143
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt		0.074	0.079	0.067	0.115	0.033
Barium	7440-39-3	E475/VA	0.050	mg/kg		0.061	<0.050	0.091	<0.050	<0.050
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt		0.014	<0.010	0.020	<0.010	0.011
Beryllium	7440-41-7	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	7440-69-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	7440-42-8	E475/VA	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt		<0.24 ^{DLIS}	<0.20	<0.22 ^{DLIS}	<0.20	<0.22 ^{DLIS}
Cadmium	7440-43-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	7440-70-2	E475/VA	20	mg/kg		548	548	489	378	547



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLLWS16 ----	25ONG309 FT OLLWS17 ----	25ONG309 FT OLLWS18 ----	25ONG309 FT OLLWS19 ----	25ONG309 FT OLLWS20 ----
Client sampling date / time						09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510917-016	TY2510917-017	TY2510917-018	TY2510917-019	TY2510917-020
						Result	Result	Result	Result	Result
Metals										
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt		129	115	110	74.2	128
Cesium	7440-46-2	E475/VA	0.0050	mg/kg		0.718	0.794	0.567	1.43	1.70
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt		0.169	0.167	0.127	0.281	0.398
Chromium	7440-47-3	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Cobalt	7440-48-4	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Copper	7440-50-8	E475/VA	0.20	mg/kg		0.56	0.64	0.56	0.57	0.79
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt		0.131	0.134	0.125	0.113	0.184
Iron	7439-89-6	E475/VA	5.0	mg/kg		15.5	16.3	12.5	11.4	32.1
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt		3.6	3.4	2.8	2.2	7.5
Lead	7439-92-1	E475/VA	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt		<0.010	<0.010	<0.010	<0.010	<0.010
Lithium	7439-93-2	E475/VA	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt		<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	7439-95-4	E475/VA	2.0	mg/kg		1070	1200	1490	1620	1380
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt		252	252	333	317	321
Manganese	7439-96-5	E475/VA	0.050	mg/kg		0.362	0.459	0.594	0.641	0.523
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt		0.085	0.096	0.133	0.126	0.122
Mercury	7439-97-6	E512/VA	0.010	mg/kg		0.345	0.421	0.388	0.541	2.25



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLLWS16 ----	25ONG309 FT OLLWS17 ----	25ONG309 FT OLLWS18 ----	25ONG309 FT OLLWS19 ----	25ONG309 FT OLLWS20 ----
Client sampling date / time						09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510917-016	TY2510917-017	TY2510917-018	TY2510917-019	TY2510917-020
						Result	Result	Result	Result	Result
Metals										
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt		0.0812	0.0885	0.0869	0.106	0.526
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg		<0.040	<0.040	<0.040	<0.040	0.083
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt		<0.0080	<0.0080	<0.0080	<0.0080	0.0194
Nickel	7440-02-0	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Phosphorus	7723-14-0	E475/VA	20	mg/kg		8960	10100	9330	11300	9620
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt		2110	2130	2090	2220	2240
Potassium	7440-09-7	E475/VA	20	mg/kg		16600	18800	16900	21200	18300
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt		3910	3950	3790	4160	4260
Rubidium	7440-17-7	E475/VA	0.050	mg/kg		32.9	29.6	33.9	48.1	87.7
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt		7.76	6.22	7.61	9.43	20.5
Selenium	7782-49-2	E475/VA	0.10	mg/kg		1.29	1.40	1.05	1.30	0.84
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt		0.304	0.294	0.235	0.255	0.195
Sodium	7440-23-5	E475/VA	20	mg/kg		2140	2260	1910	1250	2120
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt		504	475	429	246	494
Strontium	7440-24-6	E475/VA	0.10	mg/kg		0.74	0.97	0.73	0.51	0.27
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt		0.174	0.204	0.164	0.100	0.064
Tellurium	13494-80-9	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	7440-28-0	E475/VA	0.0020	mg/kg		0.0043	0.0039	0.0108	0.0139	0.0304



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLLWS16 ----	25ONG309 FT OLLWS17 ----	25ONG309 FT OLLWS18 ----	25ONG309 FT OLLWS19 ----	25ONG309 FT OLLWS20 ----
Client sampling date / time						09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510917-016	TY2510917-017	TY2510917-018	TY2510917-019	TY2510917-020
						Result	Result	Result	Result	Result
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt		0.00102	0.00082	0.00241	0.00273	0.00709
Tin	7440-31-5	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Uranium	7440-61-1	E475/VA	0.0020	mg/kg		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Vanadium	7440-62-2	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Zinc	7440-66-6	E475/VA	1.0	mg/kg		13.9	13.6	14.9	12.9	16.5
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt		3.28	2.85	3.35	2.54	3.85
Zirconium	7440-67-7	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg		371	321	295	441	2690
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt		<0.50	<0.50	<0.50	<0.50	0.59

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



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLWYS21 ----	25ONG309 FT OLLWS22 ----	25ONG309 FT OLWYS23 ----	25ONG309 FT OLWSS24 ----	25ONG309 FT OLWYS28 ----
Client sampling date / time						09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510917-021	TY2510917-022	TY2510917-023	TY2510917-024	TY2510917-025
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.50	%		83.0	73.6	76.0	82.6	78.1
Moisture	----	E144A/VA	2.0	%		83.0	73.6	76.0	82.6	78.1
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt		<1.0	<1.0	<1.0	<1.0	<1.0
Antimony	7440-36-0	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Arsenic	7440-38-2	E475/VA	0.050	mg/kg		0.163	0.218	0.125	0.101	0.174
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt		0.028	0.058	0.030	0.018	0.038
Barium	7440-39-3	E475/VA	0.050	mg/kg		0.075	<0.050	<0.050	0.153	<0.050
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt		0.013	<0.010	<0.010	0.027	<0.010
Beryllium	7440-41-7	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	7440-69-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	7440-42-8	E475/VA	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt		<0.20	<0.20	<0.20	<0.20	<0.20
Cadmium	7440-43-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	7440-70-2	E475/VA	20	mg/kg		718	326	480	461	470



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLWYS21 ----	25ONG309 FT OLLWS22 ----	25ONG309 FT OLWYS23 ----	25ONG309 FT OLWSS24 ----	25ONG309 FT OLWYS28 ----
Client sampling date / time						09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510917-021	TY2510917-022	TY2510917-023	TY2510917-024	TY2510917-025
						Result	Result	Result	Result	Result
Metals										
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt		122	86.2	115	80.3	103
Cesium	7440-46-2	E475/VA	0.0050	mg/kg		2.14	0.679	1.14	0.398	1.39
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt		0.364	0.179	0.273	0.0695	0.305
Chromium	7440-47-3	E475/VA	0.20	mg/kg		0.36	<0.20	<0.20	<0.20	<0.20
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt		0.061	<0.040	<0.040	<0.040	<0.040
Cobalt	7440-48-4	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Copper	7440-50-8	E475/VA	0.20	mg/kg		0.78	2.05	0.42	1.11	0.60
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt		0.133	0.541	0.100	0.193	0.131
Iron	7439-89-6	E475/VA	5.0	mg/kg		12.4	22.5	7.7	21.5	7.4
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt		2.1	6.0	1.8	3.8	1.6
Lead	7439-92-1	E475/VA	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt		<0.010	<0.010	<0.010	<0.010	<0.010
Lithium	7439-93-2	E475/VA	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt		<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	7439-95-4	E475/VA	2.0	mg/kg		2220	1060	1090	1750	1480
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt		377	281	262	305	325
Manganese	7439-96-5	E475/VA	0.050	mg/kg		0.770	0.685	0.428	1.49	0.492
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt		0.131	0.181	0.103	0.260	0.108
Mercury	7439-97-6	E512/VA	0.010	mg/kg		2.92	0.204	1.82	0.442	1.84



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLWYS21 ----	25ONG309 FT OLLWS22 ----	25ONG309 FT OLWYS23 ----	25ONG309 FT OLWSS24 ----	25ONG309 FT OLWYS28 ----
Client sampling date / time						09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510917-021	TY2510917-022	TY2510917-023	TY2510917-024	TY2510917-025
						Result	Result	Result	Result	Result
Metals										
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt		0.495	0.0538	0.437	0.0770	0.402
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg		<0.040	<0.040	<0.040	<0.040	<0.040
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel	7440-02-0	E475/VA	0.20	mg/kg		0.27	<0.20	<0.20	<0.20	<0.20
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt		0.046	<0.040	<0.040	<0.040	<0.040
Phosphorus	7723-14-0	E475/VA	20	mg/kg		16500	7970	8030	10800	11600
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt		2790	2110	1930	1880	2540
Potassium	7440-09-7	E475/VA	20	mg/kg		30200	12700	15900	20900	23100
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt		5120	3360	3820	3640	5050
Rubidium	7440-17-7	E475/VA	0.050	mg/kg		131	25.2	69.4	27.1	81.3
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt		22.3	6.67	16.7	4.73	17.8
Selenium	7782-49-2	E475/VA	0.10	mg/kg		1.39	1.05	0.87	1.01	1.08
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt		0.236	0.277	0.210	0.177	0.237
Sodium	7440-23-5	E475/VA	20	mg/kg		3050	1240	2080	2220	1680
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt		518	328	499	388	368
Strontium	7440-24-6	E475/VA	0.10	mg/kg		0.36	0.51	0.22	0.24	0.18
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt		0.062	0.136	0.053	0.042	0.039
Tellurium	13494-80-9	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	7440-28-0	E475/VA	0.0020	mg/kg		0.0525	0.0072	0.0172	0.0024	0.0253



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLWYS21 ----	25ONG309 FT OLLWS22 ----	25ONG309 FT OLWYS23 ----	25ONG309 FT OLWSS24 ----	25ONG309 FT OLWYS28 ----
Client sampling date / time						09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510917-021	TY2510917-022	TY2510917-023	TY2510917-024	TY2510917-025
						Result	Result	Result	Result	Result
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt		0.00891	0.00190	0.00413	0.00042	0.00554
Tin	7440-31-5	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Uranium	7440-61-1	E475/VA	0.0020	mg/kg		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Vanadium	7440-62-2	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Zinc	7440-66-6	E475/VA	1.0	mg/kg		21.8	11.0	12.2	19.6	18.5
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt		3.69	2.91	2.92	3.42	4.05
Zirconium	7440-67-7	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg		2230	231	2160	602	2230
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt		<0.50	<0.50	<0.50	<0.50	<0.50

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



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLLWS29 ----	25ONG309 FT OLWYS30 ----	25ONG309 FT OLLWS31 ----	----	----
Client sampling date / time						09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510917-026	TY2510917-027	TY2510917-028	----	----
						Result	Result	Result	----	----
Physical Tests										
Moisture	----	E144/VA	0.50	%		78.7	79.4	78.1	----	----
Moisture	----	E144A/VA	2.0	%		78.7	79.4	78.1	----	----
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg		<5.0	<5.0	<5.0	----	----
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt		<1.0	<1.0	<1.0	----	----
Antimony	7440-36-0	E475/VA	0.020	mg/kg		<0.020	0.022	<0.020	----	----
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt		<0.0040	0.0045	<0.0040	----	----
Arsenic	7440-38-2	E475/VA	0.050	mg/kg		0.313	0.149	0.233	----	----
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt		0.067	0.031	0.051	----	----
Barium	7440-39-3	E475/VA	0.050	mg/kg		<0.050	0.088	<0.050	----	----
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt		<0.010	0.018	<0.010	----	----
Beryllium	7440-41-7	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	----	----
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	----	----
Bismuth	7440-69-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	----	----
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	----	----
Boron	7440-42-8	E475/VA	1.0	mg/kg		<1.0	<1.0	<1.0	----	----
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt		<0.20	<0.20	<0.20	----	----
Cadmium	7440-43-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	----	----
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	----	----
Calcium	7440-70-2	E475/VA	20	mg/kg		388	372	541	----	----



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

Client sample ID					25ONG309 FT OLLWS29 ----	25ONG309 FT OLWYS30 ----	25ONG309 FT OLLWS31 ----	----	----
Client sampling date / time					09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510917-026	TY2510917-027	TY2510917-028	----	----
					Result	Result	Result	----	----
Metals									
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt	82.6	76.4	118	----	----
Cesium	7440-46-2	E475/VA	0.0050	mg/kg	0.655	1.33	0.736	----	----
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt	0.140	0.274	0.161	----	----
Chromium	7440-47-3	E475/VA	0.20	mg/kg	<0.20	<0.20	<0.20	----	----
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt	<0.040	<0.040	<0.040	----	----
Cobalt	7440-48-4	E475/VA	0.020	mg/kg	<0.020	<0.020	<0.020	----	----
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt	<0.0040	<0.0040	<0.0040	----	----
Copper	7440-50-8	E475/VA	0.20	mg/kg	0.68	0.52	0.72	----	----
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt	0.144	0.107	0.158	----	----
Iron	7439-89-6	E475/VA	5.0	mg/kg	10.7	7.0	11.2	----	----
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt	2.3	1.4	2.4	----	----
Lead	7439-92-1	E475/VA	0.050	mg/kg	<0.050	<0.050	<0.050	----	----
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt	<0.010	<0.010	<0.010	----	----
Lithium	7439-93-2	E475/VA	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt	<0.10	<0.10	<0.10	----	----
Magnesium	7439-95-4	E475/VA	2.0	mg/kg	1610	1190	1200	----	----
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt	343	246	262	----	----
Manganese	7439-96-5	E475/VA	0.050	mg/kg	0.830	0.422	0.542	----	----
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt	0.177	0.087	0.119	----	----
Mercury	7439-97-6	E512/VA	0.010	mg/kg	0.376	2.12	0.474	----	----



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

Client sample ID					25ONG309 FT OLLWS29 ----	25ONG309 FT OLWYS30 ----	25ONG309 FT OLLWS31 ----	----	----
Client sampling date / time					09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510917-026	TY2510917-027	TY2510917-028	----	----
					Result	Result	Result	----	----
Metals									
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt	0.0800	0.435	0.104	----	----
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg	<0.040	<0.040	<0.040	----	----
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt	<0.0080	<0.0080	<0.0080	----	----
Nickel	7440-02-0	E475/VA	0.20	mg/kg	<0.20	<0.20	<0.20	----	----
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt	<0.040	<0.040	<0.040	----	----
Phosphorus	7723-14-0	E475/VA	20	mg/kg	10800	10900	10300	----	----
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt	2300	2250	2250	----	----
Potassium	7440-09-7	E475/VA	20	mg/kg	20900	21400	19400	----	----
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt	4460	4410	4260	----	----
Rubidium	7440-17-7	E475/VA	0.050	mg/kg	42.5	85.3	37.6	----	----
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt	9.05	17.5	8.22	----	----
Selenium	7782-49-2	E475/VA	0.10	mg/kg	1.06	1.01	1.52	----	----
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt	0.225	0.207	0.332	----	----
Sodium	7440-23-5	E475/VA	20	mg/kg	1480	1520	1870	----	----
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt	314	313	409	----	----
Strontium	7440-24-6	E475/VA	0.10	mg/kg	0.50	0.14	0.91	----	----
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt	0.105	0.029	0.199	----	----
Tellurium	13494-80-9	E475/VA	0.020	mg/kg	<0.020	<0.020	<0.020	----	----
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt	<0.0040	<0.0040	<0.0040	----	----
Thallium	7440-28-0	E475/VA	0.0020	mg/kg	0.0121	0.0245	0.0074	----	----



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

Client sample ID					25ONG309 FT OLLWS29 ----	25ONG309 FT OLWYS30 ----	25ONG309 FT OLLWS31 ----	----	----
Client sampling date / time					09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510917-026	TY2510917-027	TY2510917-028	----	----
					Result	Result	Result	----	----
Metals									
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt	0.00258	0.00503	0.00161	----	----
Tin	7440-31-5	E475/VA	0.10	mg/kg	<0.10	<0.10	<0.10	----	----
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt	<0.020	<0.020	<0.020	----	----
Uranium	7440-61-1	E475/VA	0.0020	mg/kg	<0.0020	<0.0020	<0.0020	----	----
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt	<0.00040	<0.00040	<0.00040	----	----
Vanadium	7440-62-2	E475/VA	0.10	mg/kg	<0.10	<0.10	<0.10	----	----
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt	<0.020	<0.020	<0.020	----	----
Zinc	7440-66-6	E475/VA	1.0	mg/kg	14.8	15.8	15.3	----	----
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt	3.15	3.26	3.36	----	----
Zirconium	7440-67-7	E475/VA	0.20	mg/kg	<0.20	<0.20	<0.20	----	----
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt	<0.040	<0.040	<0.040	----	----
Speciated Metals									
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg	468	2860	620	----	----
Aggregate Organics									
Lipid content	----	E564B/VA	0.50	% wwt	0.69	0.86	1.75	----	----

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

Quality Control Interpretive Report

Work Order : TY2510917

Client : G3 Consulting Ltd.
 Contact : Greg Thomas
 Address : 206-8501 162nd St.
 Surrey BC Canada V4N 1B2
 Telephone : 604 598 8501
 Project : 2502
 PO : 2502
 C-O-C number : ----
 Sampler : ----
 Site : ----
 Quote number : Dubreuilville Project
 No. of samples received : 28
 No. of samples analysed : 28

Laboratory : ALS Environmental - Thunder Bay
 Account Manager : Colby Coutu
 Address : 1081 Barton Street
 Thunder Bay ON Canada P7B 5N3
 Telephone : +1 807 623 6463
 Date Samples Received : 19-Sep-2025 16:54
 Issue Date : 07-Jan-2026 13:46

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 Services 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 Laboratory Control Sample Duplicate (LCSD) outliers occur
- No Matrix Spike outliers occur.
- No Matrix Spike Duplicate (MSD) 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)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- Quality Control Sample Frequency Outliers occur - please see following pages for full details.



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: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method					Extraction / Preparation				Analysis			
Container						Holding Times				Holding Times		
Client sample ID						Rec	Actual			Rec	Actual	
	ALS Sample ID	QC Lot	Method	Sampling Date	Preparation Date	Rec	Actual	Eval	Analysis Date	Rec	Actual	Eval
Aggregate Organics : Lipids by Gravimetry												
LDPE bag												
25ONG309 FT OLLWS1	001	2344520	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✔	21-Nov-2025	365 days	73 days	✔
25ONG309 FT OLLWS2	002	2344520	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✔	21-Nov-2025	365 days	73 days	✔
25ONG309 FT OLLWS3	003	2344520	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✔	21-Nov-2025	365 days	73 days	✔
25ONG309 FT OLLWS4	004	2344520	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✔	21-Nov-2025	365 days	73 days	✔
25ONG309 FT OLLWS5	005	2344520	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✔	21-Nov-2025	365 days	73 days	✔
25ONG309 FT OLLWS6	006	2344520	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✔	21-Nov-2025	365 days	73 days	✔
25ONG309 FT OLLWS7	007	2344520	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✔	21-Nov-2025	365 days	73 days	✔
25ONG309 FT OLLWS8	008	2344520	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✔	21-Nov-2025	365 days	73 days	✔
25ONG309 FT OLLWS9	009	2344520	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✔	21-Nov-2025	365 days	73 days	✔
25ONG309 FT OLLWS10	010	2344520	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✔	21-Nov-2025	365 days	73 days	✔
25ONG309 FT OLLWS11	011	2344520	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✔	21-Nov-2025	365 days	73 days	✔
25ONG309 FT OLLWS12	012	2344520	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✔	21-Nov-2025	365 days	73 days	✔
25ONG309 FT OLLWS13	013	2344520	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✔	21-Nov-2025	365 days	73 days	✔



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Aggregate Organics : Lipids by Gravimetry												
LDPE bag												
25ONG309 FT OLLWS14	014	2344520	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	21-Nov-2025	365 days	73 days	✓
25ONG309 FT OLLWS15	015	2344520	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	21-Nov-2025	365 days	73 days	✓
25ONG309 FT OLLWS16	016	2344520	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	21-Nov-2025	365 days	73 days	✓
25ONG309 FT OLLWS17	017	2344520	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	21-Nov-2025	365 days	73 days	✓
25ONG309 FT OLLWS18	018	2344520	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	21-Nov-2025	365 days	73 days	✓
25ONG309 FT OLLWS19	019	2344520	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	21-Nov-2025	365 days	73 days	✓
25ONG309 FT OLWYS20	020	2344520	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	21-Nov-2025	365 days	73 days	✓
25ONG309 FT OLWYS21	021	2344814	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	21-Nov-2025	365 days	73 days	✓
25ONG309 FT OLLWS22	022	2344814	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	21-Nov-2025	365 days	73 days	✓
25ONG309 FT OLWYS23	023	2344814	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	21-Nov-2025	365 days	73 days	✓
25ONG309 FT OLWSS24	024	2344814	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	21-Nov-2025	365 days	73 days	✓
25ONG309 FT OLWYS28	025	2344814	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	21-Nov-2025	365 days	73 days	✓
25ONG309 FT OLLWS29	026	2344814	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	21-Nov-2025	365 days	73 days	✓
25ONG309 FT OLWYS30	027	2344814	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	21-Nov-2025	365 days	73 days	✓
25ONG309 FT OLLWS31	028	2344814	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	21-Nov-2025	365 days	73 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)												
LDPE bag												
25ONG309 FT OLLWS1	001	2363277	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	04-Dec-2025	365 days	86 days	✓



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)												
LDPE bag												
25ONG309 FT OLLWS2	002	2363277	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS3	003	2363277	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS4	004	2363277	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS5	005	2363277	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS6	006	2363277	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS7	007	2363277	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS8	008	2363277	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS9	009	2363277	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS10	010	2363277	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS11	011	2363277	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS12	012	2363277	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS13	013	2363277	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS14	014	2363277	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS15	015	2363277	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS16	016	2363277	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS17	017	2363277	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS18	018	2363277	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS19	019	2363277	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)												
LDPE bag												
25ONG309 FT OLWYS20	020	2363277	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	04-Dec-2025	365 days	86 days	✓
25ONG309 FT OLWYS21	021	2363282	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	02-Dec-2025	365 days	84 days	✓
25ONG309 FT OLLWS22	022	2363282	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	02-Dec-2025	365 days	84 days	✓
25ONG309 FT OLWYS23	023	2363282	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	02-Dec-2025	365 days	84 days	✓
25ONG309 FT OLWSS24	024	2363282	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	02-Dec-2025	365 days	84 days	✓
25ONG309 FT OLWYS28	025	2363282	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	02-Dec-2025	365 days	84 days	✓
25ONG309 FT OLLWS29	026	2363282	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	02-Dec-2025	365 days	84 days	✓
25ONG309 FT OLWYS30	027	2363282	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	02-Dec-2025	365 days	84 days	✓
25ONG309 FT OLLWS31	028	2363282	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	02-Dec-2025	365 days	84 days	✓
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)												
LDPE bag												
25ONG309 FT OLLWS1	001	2363274	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	04-Dec-2025	365 days	86 days	✓
25ONG309 FT OLLWS2	002	2363274	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	04-Dec-2025	365 days	86 days	✓
25ONG309 FT OLLWS3	003	2363274	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	04-Dec-2025	365 days	86 days	✓
25ONG309 FT OLLWS4	004	2363274	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	04-Dec-2025	365 days	86 days	✓
25ONG309 FT OLLWS5	005	2363274	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	04-Dec-2025	365 days	86 days	✓
25ONG309 FT OLLWS6	006	2363274	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	04-Dec-2025	365 days	86 days	✓
25ONG309 FT OLLWS7	007	2363274	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	04-Dec-2025	365 days	86 days	✓



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)												
LDPE bag												
25ONG309 FT OLLWS8	008	2363274	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS9	009	2363274	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS10	010	2363274	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS11	011	2363274	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS12	012	2363274	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS13	013	2363274	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS14	014	2363274	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS15	015	2363274	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS16	016	2363274	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS17	017	2363274	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS18	018	2363274	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS19	019	2363274	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLWYS20	020	2363274	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLWYS21	021	2363279	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	02-Dec-2025	365 days	84 days	✔
25ONG309 FT OLLWS22	022	2363279	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	02-Dec-2025	365 days	84 days	✔
25ONG309 FT OLWYS23	023	2363279	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	02-Dec-2025	365 days	84 days	✔
25ONG309 FT OLWSS24	024	2363279	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	02-Dec-2025	365 days	84 days	✔
25ONG309 FT OLWYS28	025	2363279	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	02-Dec-2025	365 days	84 days	✔



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)												
LDPE bag												
25ONG309 FT OLLWS29	026	2363279	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	02-Dec-2025	365 days	84 days	✔
25ONG309 FT OLWYS30	027	2363279	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	02-Dec-2025	365 days	84 days	✔
25ONG309 FT OLLWS31	028	2363279	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	02-Dec-2025	365 days	84 days	✔
Metals : Metals by CRC ICPMS (DRY units, Biopsy)												
LDPE bag												
25ONG309 FT OLLWS1	001	2363276	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS2	002	2363276	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS3	003	2363276	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS4	004	2363276	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS5	005	2363276	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS6	006	2363276	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS7	007	2363276	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS8	008	2363276	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS9	009	2363276	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS10	010	2363276	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS11	011	2363276	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS12	012	2363276	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS13	013	2363276	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Metals : Metals by CRC ICPMS (DRY units, Biopsy)												
LDPE bag												
25ONG309 FT OLLWS14	014	2363276	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS15	015	2363276	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS16	016	2363276	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS17	017	2363276	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS18	018	2363276	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS19	019	2363276	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLWYS20	020	2363276	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLWYS21	021	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLWYS21	021	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS22	022	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS22	022	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLWYS23	023	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLWYS23	023	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLWSS24	024	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLWSS24	024	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLWYS28	025	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLWYS28	025	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS29	026	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Metals : Metals by CRC ICPMS (DRY units, Biopsy)												
LDPE bag												
25ONG309 FT OLLWS29	026	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLWYS30	027	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLWYS30	027	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS31	028	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS31	028	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)												
LDPE bag												
25ONG309 FT OLLWS1	001	2363275	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS2	002	2363275	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS3	003	2363275	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS4	004	2363275	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS5	005	2363275	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS6	006	2363275	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS7	007	2363275	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS8	008	2363275	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS9	009	2363275	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS10	010	2363275	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS11	011	2363275	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)												
LDPE bag												
25ONG309 FT OLLWS12	012	2363275	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS13	013	2363275	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS14	014	2363275	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS15	015	2363275	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS16	016	2363275	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS17	017	2363275	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS18	018	2363275	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS19	019	2363275	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLWYS20	020	2363275	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLWYS21	021	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLWYS21	021	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS22	022	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS22	022	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLWYS23	023	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLWYS23	023	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLWSS24	024	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLWSS24	024	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLWYS28	025	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method					Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
Client sample ID						Rec	Actual			Rec	Actual	
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)												
LDPE bag												
25ONG309 FT OLWYS28	025	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS29	026	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS29	026	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLWYS30	027	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLWYS30	027	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS31	028	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS31	028	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
Physical Tests : Moisture Content by Gravimetry												
LDPE bag												
25ONG309 FT OLLWS1	001	2364121	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLLWS2	002	2364121	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLLWS3	003	2364121	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLLWS4	004	2364121	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLLWS5	005	2364121	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLLWS6	006	2364121	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLLWS7	007	2364121	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLLWS8	008	2364121	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLLWS9	009	2364121	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLLWS10	010	2364121	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method					Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
Client sample ID						Rec	Actual			Rec	Actual	
Physical Tests : Moisture Content by Gravimetry												
LDPE bag												
25ONG309 FT OLLWS11	011	2364121	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLLWS12	012	2364121	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLLWS13	013	2364121	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLLWS14	014	2364121	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLLWS15	015	2364121	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLLWS16	016	2364121	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLLWS17	017	2364121	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLLWS18	018	2364121	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLLWS19	019	2364121	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLWYS20	020	2364121	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLWYS21	021	2364125	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLLWS22	022	2364125	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLWYS23	023	2364125	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLWSS24	024	2364125	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLWYS28	025	2364125	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLLWS29	026	2364125	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLWYS30	027	2364125	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLLWS31	028	2364125	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Physical Tests : Moisture Content by Gravimetry (Biopsy)												
LDPE bag												
25ONG309 FT OLLWS1	001	2344616	E144A	09-Sep-2025	----	----	----		19-Nov-2025	----	----	
25ONG309 FT OLLWS2	002	2344616	E144A	09-Sep-2025	----	----	----		19-Nov-2025	----	----	
25ONG309 FT OLLWS3	003	2344616	E144A	09-Sep-2025	----	----	----		19-Nov-2025	----	----	
25ONG309 FT OLLWS4	004	2344616	E144A	09-Sep-2025	----	----	----		19-Nov-2025	----	----	
25ONG309 FT OLLWS5	005	2344616	E144A	09-Sep-2025	----	----	----		19-Nov-2025	----	----	
25ONG309 FT OLLWS6	006	2344616	E144A	09-Sep-2025	----	----	----		19-Nov-2025	----	----	
25ONG309 FT OLLWS7	007	2344616	E144A	09-Sep-2025	----	----	----		19-Nov-2025	----	----	
25ONG309 FT OLLWS8	008	2344616	E144A	09-Sep-2025	----	----	----		19-Nov-2025	----	----	
25ONG309 FT OLLWS9	009	2344616	E144A	09-Sep-2025	----	----	----		19-Nov-2025	----	----	
25ONG309 FT OLLWS10	010	2344616	E144A	09-Sep-2025	----	----	----		19-Nov-2025	----	----	
25ONG309 FT OLLWS11	011	2344616	E144A	09-Sep-2025	----	----	----		19-Nov-2025	----	----	
25ONG309 FT OLLWS12	012	2344616	E144A	09-Sep-2025	----	----	----		19-Nov-2025	----	----	
25ONG309 FT OLLWS13	013	2344616	E144A	09-Sep-2025	----	----	----		19-Nov-2025	----	----	
25ONG309 FT OLLWS14	014	2344616	E144A	09-Sep-2025	----	----	----		19-Nov-2025	----	----	
25ONG309 FT OLLWS15	015	2344616	E144A	09-Sep-2025	----	----	----		19-Nov-2025	----	----	
25ONG309 FT OLLWS16	016	2344616	E144A	09-Sep-2025	----	----	----		19-Nov-2025	----	----	
25ONG309 FT OLLWS17	017	2344616	E144A	09-Sep-2025	----	----	----		19-Nov-2025	----	----	
25ONG309 FT OLLWS18	018	2344616	E144A	09-Sep-2025	----	----	----		19-Nov-2025	----	----	
25ONG309 FT OLLWS19	019	2344616	E144A	09-Sep-2025	----	----	----		19-Nov-2025	----	----	



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method					Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times			Analysis Date	Holding Times		
Client sample ID						Rec	Actual			Rec	Actual	
Physical Tests : Moisture Content by Gravimetry (Biopsy)												
LDPE bag												
25ONG309 FT OLWYS20	020	2344616	E144A	09-Sep-2025	----	----	----		19-Nov-2025	----	----	
25ONG309 FT OLWYS21	021	2353334	E144A	09-Sep-2025	----	----	----		24-Nov-2025	----	----	
25ONG309 FT OLLWS22	022	2353334	E144A	09-Sep-2025	----	----	----		24-Nov-2025	----	----	
25ONG309 FT OLWYS23	023	2353334	E144A	09-Sep-2025	----	----	----		24-Nov-2025	----	----	
25ONG309 FT OLWSS24	024	2353334	E144A	09-Sep-2025	----	----	----		24-Nov-2025	----	----	
25ONG309 FT OLWYS28	025	2353334	E144A	09-Sep-2025	----	----	----		24-Nov-2025	----	----	
25ONG309 FT OLLWS29	026	2353334	E144A	09-Sep-2025	----	----	----		24-Nov-2025	----	----	
25ONG309 FT OLWYS30	027	2353334	E144A	09-Sep-2025	----	----	----		24-Nov-2025	----	----	
25ONG309 FT OLLWS31	028	2353334	E144A	09-Sep-2025	----	----	----		24-Nov-2025	----	----	
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)												
LDPE bag												
25ONG309 FT OLLWS1	001	2346106	E538	09-Sep-2025	22-Nov-2025	365 days	74 days	✓	22-Nov-2025	365 days	0 days	✓
25ONG309 FT OLLWS2	002	2396508	E538	09-Sep-2025	22-Nov-2025	365 days	74 days	✓	22-Nov-2025	365 days	0 days	✓
25ONG309 FT OLLWS3	003	2346106	E538	09-Sep-2025	22-Nov-2025	365 days	74 days	✓	22-Nov-2025	365 days	0 days	✓
25ONG309 FT OLLWS4	004	2346106	E538	09-Sep-2025	22-Nov-2025	365 days	74 days	✓	22-Nov-2025	365 days	0 days	✓
25ONG309 FT OLLWS5	005	2346106	E538	09-Sep-2025	22-Nov-2025	365 days	74 days	✓	22-Nov-2025	365 days	0 days	✓
25ONG309 FT OLLWS6	006	2346106	E538	09-Sep-2025	22-Nov-2025	365 days	74 days	✓	22-Nov-2025	365 days	0 days	✓
25ONG309 FT OLLWS7	007	2346106	E538	09-Sep-2025	22-Nov-2025	365 days	74 days	✓	22-Nov-2025	365 days	0 days	✓
25ONG309 FT OLLWS8	008	2346106	E538	09-Sep-2025	22-Nov-2025	365 days	74 days	✓	22-Nov-2025	365 days	0 days	✓



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method					Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
Client sample ID						Rec	Actual			Rec	Actual	
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)												
LDPE bag												
25ONG309 FT OLLWS9	009	2346106	E538	09-Sep-2025	22-Nov-2025	365 days	74 days	✔	22-Nov-2025	365 days	0 days	✔
25ONG309 FT OLLWS10	010	2346106	E538	09-Sep-2025	22-Nov-2025	365 days	74 days	✔	22-Nov-2025	365 days	0 days	✔
25ONG309 FT OLLWS11	011	2346106	E538	09-Sep-2025	22-Nov-2025	365 days	74 days	✔	22-Nov-2025	365 days	0 days	✔
25ONG309 FT OLLWS12	012	2346106	E538	09-Sep-2025	22-Nov-2025	365 days	74 days	✔	22-Nov-2025	365 days	0 days	✔
25ONG309 FT OLLWS13	013	2346106	E538	09-Sep-2025	22-Nov-2025	365 days	74 days	✔	22-Nov-2025	365 days	0 days	✔
25ONG309 FT OLLWS14	014	2346106	E538	09-Sep-2025	22-Nov-2025	365 days	74 days	✔	22-Nov-2025	365 days	0 days	✔
25ONG309 FT OLLWS15	015	2346107	E538	09-Sep-2025	22-Nov-2025	365 days	74 days	✔	22-Nov-2025	365 days	0 days	✔
25ONG309 FT OLLWS16	016	2346107	E538	09-Sep-2025	22-Nov-2025	365 days	74 days	✔	22-Nov-2025	365 days	0 days	✔
25ONG309 FT OLLWS17	017	2346107	E538	09-Sep-2025	22-Nov-2025	365 days	74 days	✔	22-Nov-2025	365 days	0 days	✔
25ONG309 FT OLLWS18	018	2346107	E538	09-Sep-2025	22-Nov-2025	365 days	74 days	✔	22-Nov-2025	365 days	0 days	✔
25ONG309 FT OLLWS19	019	2346107	E538	09-Sep-2025	22-Nov-2025	365 days	74 days	✔	22-Nov-2025	365 days	0 days	✔
25ONG309 FT OLWYS20	020	2346107	E538	09-Sep-2025	22-Nov-2025	365 days	74 days	✔	22-Nov-2025	365 days	0 days	✔
25ONG309 FT OLWYS21	021	2346107	E538	09-Sep-2025	22-Nov-2025	365 days	74 days	✔	22-Nov-2025	365 days	0 days	✔
25ONG309 FT OLLWS22	022	2346107	E538	09-Sep-2025	22-Nov-2025	365 days	74 days	✔	22-Nov-2025	365 days	0 days	✔
25ONG309 FT OLWYS23	023	2346107	E538	09-Sep-2025	22-Nov-2025	365 days	74 days	✔	22-Nov-2025	365 days	0 days	✔
25ONG309 FT OLWSS24	024	2346107	E538	09-Sep-2025	22-Nov-2025	365 days	74 days	✔	22-Nov-2025	365 days	0 days	✔
25ONG309 FT OLWYS28	025	2346107	E538	09-Sep-2025	22-Nov-2025	365 days	74 days	✔	22-Nov-2025	365 days	0 days	✔
25ONG309 FT OLLWS29	026	2346107	E538	09-Sep-2025	22-Nov-2025	365 days	74 days	✔	22-Nov-2025	365 days	0 days	✔



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
Client sample ID						Rec	Actual			Rec	Actual	
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)												
LDPE bag												
25ONG309 FT OLWYS30	027	2346107	E538	09-Sep-2025	22-Nov-2025	365 days	74 days	✓	22-Nov-2025	365 days	0 days	✓
25ONG309 FT OLLWS31	028	2346107	E538	09-Sep-2025	22-Nov-2025	365 days	74 days	✓	22-Nov-2025	365 days	0 days	✓

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: Biota

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)							
Moisture Content by Gravimetry	E144	2364121	0	40	0.0	5.0	✖
Methylmercury in Biota by GCAFS (DRY units, Routine)	E538	2346106	3	47	6.4	5.0	✔
Lipids by Gravimetry	E564B	2344520	2	40	5.0	5.0	✔
Laboratory Control Samples (LCS)							
Moisture Content by Gravimetry	E144	2364121	2	40	5.0	5.0	✔
Moisture Content by Gravimetry (Biopsy)	E144A	2344616	2	40	5.0	5.0	✔
Metals by CRC ICPMS (DRY units, Biopsy)	E475	2363276	4	40	10.0	10.0	✔
Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)	E475A	2363275	4	40	10.0	10.0	✔
Mercury in Biota by CVAAS (DRY units, Biopsy)	E512	2363277	4	40	10.0	10.0	✔
Mercury in Biota by CVAAS (Wet Weight, Biopsy)	E512A	2363274	4	40	10.0	10.0	✔
Methylmercury in Biota by GCAFS (DRY units, Routine)	E538	2346106	6	47	12.8	10.0	✔
Lipids by Gravimetry	E564B	2344520	2	40	5.0	5.0	✔
Method Blanks (MB)							
Moisture Content by Gravimetry	E144	2364121	2	40	5.0	5.0	✔
Moisture Content by Gravimetry (Biopsy)	E144A	2344616	2	40	5.0	5.0	✔
Metals by CRC ICPMS (DRY units, Biopsy)	E475	2363276	2	40	5.0	5.0	✔
Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)	E475A	2363275	2	40	5.0	5.0	✔
Mercury in Biota by CVAAS (DRY units, Biopsy)	E512	2363277	2	40	5.0	5.0	✔
Mercury in Biota by CVAAS (Wet Weight, Biopsy)	E512A	2363274	2	40	5.0	5.0	✔
Methylmercury in Biota by GCAFS (DRY units, Routine)	E538	2346106	3	47	6.4	5.0	✔
Lipids by Gravimetry	E564B	2344520	2	40	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
Lipids by Gravimetry	E564B ALS Environmental - Thunder Bay	Biota	EPA 8290A (mod)	Lipids are extracted from the sample, after which the extract is evaporated in a pre-weighed container and the mass of the residue is determined gravimetrically.
Mercury in Biota by CVAAS (DRY units, Biopsy)	E512 ALS Environmental - Thunder Bay	Biota	EPA 200.3/1631 Appendix (mod)	Samples are digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Analysis is by CVAAS.
Mercury in Biota by CVAAS (Wet Weight, Biopsy)	E512A ALS Environmental - Thunder Bay	Biota	EPA 200.3/1631 Appendix (mod)	Samples are homogenized digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Analysis is by CVAAS.
Metals by CRC ICPMS (DRY units, Biopsy)	E475 ALS Environmental - Thunder Bay	Biota	EPA 200.3/6020B (mod)	Samples are digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Analysis is by Collision/Reaction Cell ICPMS: This method employs a strong acid/peroxide digestion, and is intended to provide a conservative estimate of bio-available metals. Near complete recoveries are achieved for most toxicologically important metals, but elements associated with recalcitrant minerals may be only partially recovered.
Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)	E475A ALS Environmental - Thunder Bay	Biota	EPA 200.3/6020B (mod)	Samples are digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Analysis is by Collision/Reaction Cell ICPMS. Method Limitation: This method employs a strong acid/peroxide digestion, and is intended to provide a conservative estimate of bio-available metals. Near complete recoveries are achieved for most toxicologically important metals, but elements associated with recalcitrant minerals may be only partially recovered.
Methylmercury in Biota by GCAFS (DRY units, Routine)	E538 ALS Environmental - Thunder Bay	Biota	Liang et al. (1994)/EPA 1630 (mod)	This method follows the procedures published by Liang, Bloom and Horvat in Clinical Chemistry (Vol 40, No 4, 1994). Samples are homogenized and then digested in a methanolic potassium hydroxide solution. An aliquot of the digestate is analyzed by aqueous phase ethylation, purge and trap, desorption and GC separation. The separated species are then pyrolyzed to elemental Hg and quantified by cold vapour atomic fluorescence spectroscopy. Results are reported "as MeHg".
Moisture Content by Gravimetry	E144 ALS Environmental - Thunder Bay	Biota	ASTM Method D4638-16 (mod)	Moisture is measured gravimetrically by drying the sample at 105°C. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
Moisture Content by Gravimetry (Biopsy)	E144A ALS Environmental - Thunder Bay	Biota	ASTM Method D4638-16 (mod)	Moisture is measured gravimetrically by drying the sample at <60°C for a minimum of 3 days to constant weight. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Lipids Extraction by Tumbler	EP564 ALS Environmental - Thunder Bay	Biota	EPA 3570 (mod)	A homogenized biota sample is extracted with dichloromethane by a rotary extractor to yield sample's lipid content.
Metals and Mercury Biota Digestion (Biopsy)	EP475 ALS Environmental - Thunder Bay	Biota	EPA 200.3/200.8 (mod)	Samples are digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Method Limitation: This method employs a strong acid/peroxide digestion, and is intended to provide a conservative estimate of bio-available metals. Near complete recoveries are achieved for most toxicologically important metals, but elements associated with recalcitrant minerals may be only partially recovered.
Methylmercury Biota Preparation	EP538 ALS Environmental - Thunder Bay	Biota	Liang et al. (1994)	This method follows the procedures published by Liang, Bloom and Horvat in Clinical Chemistry (Vol 40, No 4, 1994). Samples are homogenized and then digested in a methanolic potassium hydroxide solution.

QUALITY CONTROL REPORT

Work Order	: TY2510917	Page	: 1 of 15
Client	: G3 Consulting Ltd.	Laboratory	: ALS Environmental - Thunder Bay
Contact	: Greg Thomas	Account Manager	: Colby Coutu
Address	: 206-8501 162nd St. Surrey BC Canada V4N 1B2	Address	: 1081 Barton Street Thunder Bay, Ontario Canada P7B 5N3
Telephone	: 604 598 8501	Telephone	: +1 807 623 6463
Project	: 2502	Date Samples Received	: 19-Sep-2025 16:54
PO	: 2502	Date Analysis Commenced	: 19-Nov-2025
C-O-C number	: ----	Issue Date	: 07-Jan-2026 13:46
Sampler	: ----		
Site	: ----		
Quote number	: Dubreuilville Project		
No. of samples received	: 28		
No. of samples analysed	: 28		

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
- Reference Material (RM) 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.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Brianna Allen	Production/Validation Manager	Vancouver Organics, Burnaby, British Columbia
Dan Gebert	Supervisor - Metals Mercury & Speciation	Vancouver Metals, Burnaby, British Columbia
Hamidreza Hamidzadeh	Lab Assistant	Vancouver Metals, Burnaby, British Columbia
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Vancouver Metals, Burnaby, British Columbia
Salimah Khimani	Lab Assistant	Vancouver Metals, Burnaby, British Columbia
Shahrzad Firoozbakht	Lab Assistant	Vancouver Metals, Burnaby, British Columbia



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: Biota					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
Speciated Metals (QC Lot: 2346106)											
TY2510917-001	25ONG309 FT OLLWS1	Methylmercury (as MeHg)	22967-92-6	E538	5.0	µg/kg	459	468	1.97%	30%	----
Speciated Metals (QC Lot: 2346107)											
TY2510917-015	25ONG309 FT OLLWS15	Methylmercury (as MeHg)	22967-92-6	E538	5.0	µg/kg	472	492	4.14%	30%	----
Speciated Metals (QC Lot: 2396508)											
TY2510952-001	Anonymous	Methylmercury (as MeHg)	22967-92-6	E538	5.0	µg/kg	961	922	4.18%	30%	----
Aggregate Organics (QC Lot: 2344520)											
TY2510917-006	25ONG309 FT OLLWS6	Lipid content	----	E564B	0.50	% wwt	0.83	0.74	0.10	Diff <2x LOR	----
Aggregate Organics (QC Lot: 2344814)											
TY2510927-001	Anonymous	Lipid content	----	E564B	0.50	% wwt	0.87	0.62	0.25	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: Biota

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 2344616)						
Moisture	----	E144A	2	%	<2.0	----
Physical Tests (QCLot: 2353334)						
Moisture	----	E144A	2	%	<2.0	----
Physical Tests (QCLot: 2364121)						
Moisture	----	E144	0.5	%	<0.50	----
Physical Tests (QCLot: 2364125)						
Moisture	----	E144	0.5	%	<0.50	----
Metals (QCLot: 2363274)						
Mercury	7439-97-6	E512A	0.002	mg/kg wwt	<0.0020	----
Metals (QCLot: 2363275)						
Aluminum	7429-90-5	E475A	1	mg/kg wwt	<1.0	----
Antimony	7440-36-0	E475A	0.004	mg/kg wwt	<0.0040	----
Arsenic	7440-38-2	E475A	0.01	mg/kg wwt	<0.010	----
Barium	7440-39-3	E475A	0.01	mg/kg wwt	<0.010	----
Beryllium	7440-41-7	E475A	0.002	mg/kg wwt	<0.0020	----
Bismuth	7440-69-9	E475A	0.002	mg/kg wwt	<0.0020	----
Boron	7440-42-8	E475A	0.2	mg/kg wwt	<0.20	----
Cadmium	7440-43-9	E475A	0.002	mg/kg wwt	<0.0020	----
Calcium	7440-70-2	E475A	4	mg/kg wwt	<4.0	----
Cesium	7440-46-2	E475A	0.001	mg/kg wwt	<0.0010	----
Chromium	7440-47-3	E475A	0.04	mg/kg wwt	<0.040	----
Cobalt	7440-48-4	E475A	0.004	mg/kg wwt	<0.0040	----
Copper	7440-50-8	E475A	0.04	mg/kg wwt	<0.040	----
Iron	7439-89-6	E475A	1	mg/kg wwt	<1.0	----
Lead	7439-92-1	E475A	0.01	mg/kg wwt	<0.010	----
Lithium	7439-93-2	E475A	0.1	mg/kg wwt	<0.10	----
Magnesium	7439-95-4	E475A	0.4	mg/kg wwt	<0.40	----
Manganese	7439-96-5	E475A	0.01	mg/kg wwt	<0.010	----
Molybdenum	7439-98-7	E475A	0.008	mg/kg wwt	<0.0080	----
Nickel	7440-02-0	E475A	0.04	mg/kg wwt	<0.040	----
Phosphorus	7723-14-0	E475A	4	mg/kg wwt	<4.0	----



Sub-Matrix: Biota

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 2363275) - continued						
Potassium	7440-09-7	E475A	4	mg/kg ww	<4.0	----
Rubidium	7440-17-7	E475A	0.01	mg/kg ww	<0.010	----
Selenium	7782-49-2	E475A	0.02	mg/kg ww	<0.020	----
Sodium	7440-23-5	E475A	4	mg/kg ww	<4.0	----
Strontium	7440-24-6	E475A	0.02	mg/kg ww	<0.020	----
Tellurium	13494-80-9	E475A	0.004	mg/kg ww	<0.0040	----
Thallium	7440-28-0	E475A	0.0004	mg/kg ww	<0.00040	----
Tin	7440-31-5	E475A	0.02	mg/kg ww	<0.020	----
Uranium	7440-61-1	E475A	0.0004	mg/kg ww	<0.00040	----
Vanadium	7440-62-2	E475A	0.02	mg/kg ww	<0.020	----
Zinc	7440-66-6	E475A	0.2	mg/kg ww	<0.20	----
Zirconium	7440-67-7	E475A	0.04	mg/kg ww	<0.040	----
Metals (QCLot: 2363276)						
Aluminum	7429-90-5	E475	5	mg/kg	<5.0	----
Antimony	7440-36-0	E475	0.02	mg/kg	<0.020	----
Arsenic	7440-38-2	E475	0.05	mg/kg	<0.050	----
Barium	7440-39-3	E475	0.05	mg/kg	<0.050	----
Beryllium	7440-41-7	E475	0.01	mg/kg	<0.010	----
Bismuth	7440-69-9	E475	0.01	mg/kg	<0.010	----
Boron	7440-42-8	E475	1	mg/kg	<1.0	----
Cadmium	7440-43-9	E475	0.01	mg/kg	<0.010	----
Calcium	7440-70-2	E475	20	mg/kg	<20	----
Cesium	7440-46-2	E475	0.005	mg/kg	<0.0050	----
Chromium	7440-47-3	E475	0.2	mg/kg	<0.20	----
Cobalt	7440-48-4	E475	0.02	mg/kg	<0.020	----
Copper	7440-50-8	E475	0.2	mg/kg	<0.20	----
Iron	7439-89-6	E475	5	mg/kg	<5.0	----
Lead	7439-92-1	E475	0.05	mg/kg	<0.050	----
Lithium	7439-93-2	E475	0.5	mg/kg	<0.50	----
Magnesium	7439-95-4	E475	2	mg/kg	<2.0	----
Manganese	7439-96-5	E475	0.05	mg/kg	<0.050	----
Molybdenum	7439-98-7	E475	0.04	mg/kg	<0.040	----
Nickel	7440-02-0	E475	0.2	mg/kg	<0.20	----
Phosphorus	7723-14-0	E475	20	mg/kg	<20	----
Potassium	7440-09-7	E475	20	mg/kg	<20	----



Sub-Matrix: Biota

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 2363276) - continued						
Rubidium	7440-17-7	E475	0.05	mg/kg	<0.050	----
Selenium	7782-49-2	E475	0.1	mg/kg	<0.10	----
Sodium	7440-23-5	E475	20	mg/kg	<20	----
Strontium	7440-24-6	E475	0.1	mg/kg	<0.10	----
Tellurium	13494-80-9	E475	0.02	mg/kg	<0.020	----
Thallium	7440-28-0	E475	0.002	mg/kg	<0.0020	----
Tin	7440-31-5	E475	0.1	mg/kg	<0.10	----
Uranium	7440-61-1	E475	0.002	mg/kg	<0.0020	----
Vanadium	7440-62-2	E475	0.1	mg/kg	<0.10	----
Zinc	7440-66-6	E475	1	mg/kg	<1.0	----
Zirconium	7440-67-7	E475	0.2	mg/kg	<0.20	----
Metals (QCLot: 2363277)						
Mercury	7439-97-6	E512	0.01	mg/kg	<0.010	----
Metals (QCLot: 2363279)						
Mercury	7439-97-6	E512A	0.002	mg/kg wwt	<0.0020	----
Metals (QCLot: 2363280)						
Aluminum	7429-90-5	E475A	1	mg/kg wwt	<1.0	----
Antimony	7440-36-0	E475A	0.004	mg/kg wwt	<0.0040	----
Arsenic	7440-38-2	E475A	0.01	mg/kg wwt	<0.010	----
Barium	7440-39-3	E475A	0.01	mg/kg wwt	<0.010	----
Beryllium	7440-41-7	E475A	0.002	mg/kg wwt	<0.0020	----
Bismuth	7440-69-9	E475A	0.002	mg/kg wwt	<0.0020	----
Boron	7440-42-8	E475A	0.2	mg/kg wwt	<0.20	----
Cadmium	7440-43-9	E475A	0.002	mg/kg wwt	<0.0020	----
Calcium	7440-70-2	E475A	4	mg/kg wwt	<4.0	----
Cesium	7440-46-2	E475A	0.001	mg/kg wwt	<0.0010	----
Chromium	7440-47-3	E475A	0.04	mg/kg wwt	<0.040	----
Cobalt	7440-48-4	E475A	0.004	mg/kg wwt	<0.0040	----
Copper	7440-50-8	E475A	0.04	mg/kg wwt	<0.040	----
Iron	7439-89-6	E475A	1	mg/kg wwt	<1.0	----
Lead	7439-92-1	E475A	0.01	mg/kg wwt	<0.010	----
Lithium	7439-93-2	E475A	0.1	mg/kg wwt	<0.10	----
Magnesium	7439-95-4	E475A	0.4	mg/kg wwt	<0.40	----
Manganese	7439-96-5	E475A	0.01	mg/kg wwt	<0.010	----
Molybdenum	7439-98-7	E475A	0.008	mg/kg wwt	<0.0080	----



Sub-Matrix: Biota

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 2363280) - continued						
Nickel	7440-02-0	E475A	0.04	mg/kg ww	<0.040	----
Phosphorus	7723-14-0	E475A	4	mg/kg ww	<4.0	----
Potassium	7440-09-7	E475A	4	mg/kg ww	<4.0	----
Rubidium	7440-17-7	E475A	0.01	mg/kg ww	<0.010	----
Selenium	7782-49-2	E475A	0.02	mg/kg ww	<0.020	----
Sodium	7440-23-5	E475A	4	mg/kg ww	<4.0	----
Strontium	7440-24-6	E475A	0.02	mg/kg ww	<0.020	----
Tellurium	13494-80-9	E475A	0.004	mg/kg ww	<0.0040	----
Thallium	7440-28-0	E475A	0.0004	mg/kg ww	<0.00040	----
Tin	7440-31-5	E475A	0.02	mg/kg ww	<0.020	----
Uranium	7440-61-1	E475A	0.0004	mg/kg ww	<0.00040	----
Vanadium	7440-62-2	E475A	0.02	mg/kg ww	<0.020	----
Zinc	7440-66-6	E475A	0.2	mg/kg ww	<0.20	----
Zirconium	7440-67-7	E475A	0.04	mg/kg ww	<0.040	----
Metals (QCLot: 2363281)						
Aluminum	7429-90-5	E475	5	mg/kg	<5.0	----
Antimony	7440-36-0	E475	0.02	mg/kg	<0.020	----
Arsenic	7440-38-2	E475	0.05	mg/kg	<0.050	----
Barium	7440-39-3	E475	0.05	mg/kg	<0.050	----
Beryllium	7440-41-7	E475	0.01	mg/kg	<0.010	----
Bismuth	7440-69-9	E475	0.01	mg/kg	<0.010	----
Boron	7440-42-8	E475	1	mg/kg	<1.0	----
Cadmium	7440-43-9	E475	0.01	mg/kg	<0.010	----
Calcium	7440-70-2	E475	20	mg/kg	<20	----
Cesium	7440-46-2	E475	0.005	mg/kg	<0.0050	----
Chromium	7440-47-3	E475	0.2	mg/kg	<0.20	----
Cobalt	7440-48-4	E475	0.02	mg/kg	<0.020	----
Copper	7440-50-8	E475	0.2	mg/kg	<0.20	----
Iron	7439-89-6	E475	5	mg/kg	<5.0	----
Lead	7439-92-1	E475	0.05	mg/kg	<0.050	----
Lithium	7439-93-2	E475	0.5	mg/kg	<0.50	----
Magnesium	7439-95-4	E475	2	mg/kg	<2.0	----
Manganese	7439-96-5	E475	0.05	mg/kg	<0.050	----
Molybdenum	7439-98-7	E475	0.04	mg/kg	<0.040	----
Nickel	7440-02-0	E475	0.2	mg/kg	<0.20	----



Sub-Matrix: Biota

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 2363281) - continued						
Phosphorus	7723-14-0	E475	20	mg/kg	<20	----
Potassium	7440-09-7	E475	20	mg/kg	<20	----
Rubidium	7440-17-7	E475	0.05	mg/kg	<0.050	----
Selenium	7782-49-2	E475	0.1	mg/kg	<0.10	----
Sodium	7440-23-5	E475	20	mg/kg	<20	----
Strontium	7440-24-6	E475	0.1	mg/kg	<0.10	----
Tellurium	13494-80-9	E475	0.02	mg/kg	<0.020	----
Thallium	7440-28-0	E475	0.002	mg/kg	<0.0020	----
Tin	7440-31-5	E475	0.1	mg/kg	<0.10	----
Uranium	7440-61-1	E475	0.002	mg/kg	<0.0020	----
Vanadium	7440-62-2	E475	0.1	mg/kg	<0.10	----
Zinc	7440-66-6	E475	1	mg/kg	<1.0	----
Zirconium	7440-67-7	E475	0.2	mg/kg	<0.20	----
Metals (QCLot: 2363282)						
Mercury	7439-97-6	E512	0.01	mg/kg	<0.010	----
Speciated Metals (QCLot: 2346106)						
Methylmercury (as MeHg)	22967-92-6	E538	5	µg/kg	<5.0	M
Speciated Metals (QCLot: 2346107)						
Methylmercury (as MeHg)	22967-92-6	E538	5	µg/kg	<5.0	----
Speciated Metals (QCLot: 2396508)						
Methylmercury (as MeHg)	22967-92-6	E538	5	µg/kg	<5.0	----
Aggregate Organics (QCLot: 2344520)						
Lipid content	----	E564B	0.5	% wwt	<0.50	----
Aggregate Organics (QCLot: 2344814)						
Lipid content	----	E564B	0.5	% wwt	<0.50	----

Qualifiers

Qualifier	Description
M	Peak has been manually integrated.



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: Biota

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 2344616)									
Moisture	----	E144A	2	%	100 %	100	90.0	110	----
Physical Tests (QCLot: 2353334)									
Moisture	----	E144A	2	%	100 %	100	90.0	110	----
Physical Tests (QCLot: 2364121)									
Moisture	----	E144	0.5	%	100 %	100	90.0	110	----
Physical Tests (QCLot: 2364125)									
Moisture	----	E144	0.5	%	100 %	100	90.0	110	----
Metals (QCLot: 2363274)									
Mercury	7439-97-6	E512A	0.002	mg/kg wwt	0.05 mg/kg wwt	95.8	80.0	120	----
Metals (QCLot: 2363275)									
Aluminum	7429-90-5	E475A	1	mg/kg wwt	50 mg/kg wwt	99.8	80.0	120	----
Antimony	7440-36-0	E475A	0.004	mg/kg wwt	25 mg/kg wwt	95.9	80.0	120	----
Arsenic	7440-38-2	E475A	0.01	mg/kg wwt	25 mg/kg wwt	97.7	80.0	120	----
Barium	7440-39-3	E475A	0.01	mg/kg wwt	6.25 mg/kg wwt	97.7	80.0	120	----
Beryllium	7440-41-7	E475A	0.002	mg/kg wwt	2.5 mg/kg wwt	95.5	80.0	120	----
Bismuth	7440-69-9	E475A	0.002	mg/kg wwt	25 mg/kg wwt	93.6	80.0	120	----
Boron	7440-42-8	E475A	0.2	mg/kg wwt	25 mg/kg wwt	96.3	80.0	120	----
Cadmium	7440-43-9	E475A	0.002	mg/kg wwt	2.5 mg/kg wwt	94.2	80.0	120	----
Calcium	7440-70-2	E475A	4	mg/kg wwt	1250 mg/kg wwt	94.4	80.0	120	----
Cesium	7440-46-2	E475A	0.001	mg/kg wwt	1.25 mg/kg wwt	95.0	80.0	120	----
Chromium	7440-47-3	E475A	0.04	mg/kg wwt	6.25 mg/kg wwt	96.7	80.0	120	----
Cobalt	7440-48-4	E475A	0.004	mg/kg wwt	6.25 mg/kg wwt	96.6	80.0	120	----
Copper	7440-50-8	E475A	0.04	mg/kg wwt	6.25 mg/kg wwt	92.3	80.0	120	----
Iron	7439-89-6	E475A	1	mg/kg wwt	25 mg/kg wwt	100	80.0	120	----
Lead	7439-92-1	E475A	0.01	mg/kg wwt	12.5 mg/kg wwt	92.2	80.0	120	----
Lithium	7439-93-2	E475A	0.1	mg/kg wwt	6.25 mg/kg wwt	95.7	80.0	120	----
Magnesium	7439-95-4	E475A	0.4	mg/kg wwt	1250 mg/kg wwt	96.3	80.0	120	----
Manganese	7439-96-5	E475A	0.01	mg/kg wwt	6.25 mg/kg wwt	96.5	80.0	120	----
Molybdenum	7439-98-7	E475A	0.008	mg/kg wwt	6.25 mg/kg wwt	99.6	80.0	120	----
Nickel	7440-02-0	E475A	0.04	mg/kg wwt	12.5 mg/kg wwt	93.7	80.0	120	----
Phosphorus	7723-14-0	E475A	4	mg/kg wwt	250 mg/kg wwt	102	80.0	120	----



Sub-Matrix: Biota

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 2363275) - continued									
Potassium	7440-09-7	E475A	4	mg/kg wwt	1250 mg/kg wwt	96.1	80.0	120	----
Rubidium	7440-17-7	E475A	0.01	mg/kg wwt	2.5 mg/kg wwt	98.5	80.0	120	----
Selenium	7782-49-2	E475A	0.02	mg/kg wwt	25 mg/kg wwt	94.5	80.0	120	----
Sodium	7440-23-5	E475A	4	mg/kg wwt	1250 mg/kg wwt	98.9	80.0	120	----
Strontium	7440-24-6	E475A	0.02	mg/kg wwt	6.25 mg/kg wwt	95.8	80.0	120	----
Tellurium	13494-80-9	E475A	0.004	mg/kg wwt	2.5 mg/kg wwt	92.3	80.0	120	----
Thallium	7440-28-0	E475A	0.0004	mg/kg wwt	25 mg/kg wwt	91.4	80.0	120	----
Tin	7440-31-5	E475A	0.02	mg/kg wwt	12.5 mg/kg wwt	96.6	80.0	120	----
Uranium	7440-61-1	E475A	0.0004	mg/kg wwt	0.125 mg/kg wwt	95.9	80.0	120	----
Vanadium	7440-62-2	E475A	0.02	mg/kg wwt	12.5 mg/kg wwt	99.6	80.0	120	----
Zinc	7440-66-6	E475A	0.2	mg/kg wwt	12.5 mg/kg wwt	91.5	80.0	120	----
Zirconium	7440-67-7	E475A	0.04	mg/kg wwt	2.5 mg/kg wwt	96.0	80.0	120	----
Metals (QCLot: 2363276)									
Aluminum	7429-90-5	E475	5	mg/kg	50 mg/kg	99.8	80.0	120	----
Antimony	7440-36-0	E475	0.02	mg/kg	25 mg/kg	95.9	80.0	120	----
Arsenic	7440-38-2	E475	0.05	mg/kg	25 mg/kg	97.7	80.0	120	----
Barium	7440-39-3	E475	0.05	mg/kg	6.25 mg/kg	97.7	80.0	120	----
Beryllium	7440-41-7	E475	0.01	mg/kg	2.5 mg/kg	95.5	80.0	120	----
Bismuth	7440-69-9	E475	0.01	mg/kg	25 mg/kg	93.6	80.0	120	----
Boron	7440-42-8	E475	1	mg/kg	25 mg/kg	96.3	80.0	120	----
Cadmium	7440-43-9	E475	0.01	mg/kg	2.5 mg/kg	94.2	80.0	120	----
Calcium	7440-70-2	E475	20	mg/kg	1250 mg/kg	94.4	80.0	120	----
Cesium	7440-46-2	E475	0.005	mg/kg	1.25 mg/kg	95.0	80.0	120	----
Chromium	7440-47-3	E475	0.2	mg/kg	6.25 mg/kg	96.7	80.0	120	----
Cobalt	7440-48-4	E475	0.02	mg/kg	6.25 mg/kg	96.6	80.0	120	----
Copper	7440-50-8	E475	0.2	mg/kg	6.25 mg/kg	92.3	80.0	120	----
Iron	7439-89-6	E475	5	mg/kg	25 mg/kg	100	80.0	120	----
Lead	7439-92-1	E475	0.05	mg/kg	12.5 mg/kg	92.2	80.0	120	----
Lithium	7439-93-2	E475	0.5	mg/kg	6.25 mg/kg	95.7	80.0	120	----
Magnesium	7439-95-4	E475	2	mg/kg	1250 mg/kg	96.3	80.0	120	----
Manganese	7439-96-5	E475	0.05	mg/kg	6.25 mg/kg	96.5	80.0	120	----
Molybdenum	7439-98-7	E475	0.04	mg/kg	6.25 mg/kg	99.6	80.0	120	----
Nickel	7440-02-0	E475	0.2	mg/kg	12.5 mg/kg	93.7	80.0	120	----
Phosphorus	7723-14-0	E475	20	mg/kg	250 mg/kg	102	80.0	120	----
Potassium	7440-09-7	E475	20	mg/kg	1250 mg/kg	96.1	80.0	120	----
Rubidium	7440-17-7	E475	0.05	mg/kg	2.5 mg/kg	98.5	80.0	120	----



Sub-Matrix: Biota

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 2363276) - continued									
Selenium	7782-49-2	E475	0.1	mg/kg	25 mg/kg	94.5	80.0	120	----
Sodium	7440-23-5	E475	20	mg/kg	1250 mg/kg	98.9	80.0	120	----
Strontium	7440-24-6	E475	0.1	mg/kg	6.25 mg/kg	95.8	80.0	120	----
Tellurium	13494-80-9	E475	0.02	mg/kg	2.5 mg/kg	92.3	80.0	120	----
Thallium	7440-28-0	E475	0.002	mg/kg	25 mg/kg	91.4	80.0	120	----
Tin	7440-31-5	E475	0.1	mg/kg	12.5 mg/kg	96.6	80.0	120	----
Uranium	7440-61-1	E475	0.002	mg/kg	0.125 mg/kg	95.9	80.0	120	----
Vanadium	7440-62-2	E475	0.1	mg/kg	12.5 mg/kg	99.6	80.0	120	----
Zinc	7440-66-6	E475	1	mg/kg	12.5 mg/kg	91.5	80.0	120	----
Zirconium	7440-67-7	E475	0.2	mg/kg	2.5 mg/kg	96.0	80.0	120	----
Metals (QCLot: 2363277)									
Mercury	7439-97-6	E512	0.01	mg/kg	0.05 mg/kg	95.8	80.0	120	----
Metals (QCLot: 2363279)									
Mercury	7439-97-6	E512A	0.002	mg/kg wwt	0.05 mg/kg wwt	90.2	80.0	120	----
Metals (QCLot: 2363280)									
Aluminum	7429-90-5	E475A	1	mg/kg wwt	50 mg/kg wwt	97.6	80.0	120	----
Antimony	7440-36-0	E475A	0.004	mg/kg wwt	25 mg/kg wwt	94.0	80.0	120	----
Arsenic	7440-38-2	E475A	0.01	mg/kg wwt	25 mg/kg wwt	92.7	80.0	120	----
Barium	7440-39-3	E475A	0.01	mg/kg wwt	6.25 mg/kg wwt	96.8	80.0	120	----
Beryllium	7440-41-7	E475A	0.002	mg/kg wwt	2.5 mg/kg wwt	91.9	80.0	120	----
Bismuth	7440-69-9	E475A	0.002	mg/kg wwt	25 mg/kg wwt	94.2	80.0	120	----
Boron	7440-42-8	E475A	0.2	mg/kg wwt	25 mg/kg wwt	92.5	80.0	120	----
Cadmium	7440-43-9	E475A	0.002	mg/kg wwt	2.5 mg/kg wwt	90.6	80.0	120	----
Calcium	7440-70-2	E475A	4	mg/kg wwt	1250 mg/kg wwt	91.9	80.0	120	----
Cesium	7440-46-2	E475A	0.001	mg/kg wwt	1.25 mg/kg wwt	96.4	80.0	120	----
Chromium	7440-47-3	E475A	0.04	mg/kg wwt	6.25 mg/kg wwt	96.3	80.0	120	----
Cobalt	7440-48-4	E475A	0.004	mg/kg wwt	6.25 mg/kg wwt	94.8	80.0	120	----
Copper	7440-50-8	E475A	0.04	mg/kg wwt	6.25 mg/kg wwt	91.6	80.0	120	----
Iron	7439-89-6	E475A	1	mg/kg wwt	25 mg/kg wwt	95.3	80.0	120	----
Lead	7439-92-1	E475A	0.01	mg/kg wwt	12.5 mg/kg wwt	92.1	80.0	120	----
Lithium	7439-93-2	E475A	0.1	mg/kg wwt	6.25 mg/kg wwt	92.5	80.0	120	----
Magnesium	7439-95-4	E475A	0.4	mg/kg wwt	1250 mg/kg wwt	92.8	80.0	120	----
Manganese	7439-96-5	E475A	0.01	mg/kg wwt	6.25 mg/kg wwt	95.8	80.0	120	----
Molybdenum	7439-98-7	E475A	0.008	mg/kg wwt	6.25 mg/kg wwt	97.7	80.0	120	----
Nickel	7440-02-0	E475A	0.04	mg/kg wwt	12.5 mg/kg wwt	92.9	80.0	120	----
Phosphorus	7723-14-0	E475A	4	mg/kg wwt	250 mg/kg wwt	97.6	80.0	120	----



Sub-Matrix: Biota

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 2363280) - continued									
Potassium	7440-09-7	E475A	4	mg/kg wwt	1250 mg/kg wwt	95.7	80.0	120	----
Rubidium	7440-17-7	E475A	0.01	mg/kg wwt	2.5 mg/kg wwt	97.3	80.0	120	----
Selenium	7782-49-2	E475A	0.02	mg/kg wwt	25 mg/kg wwt	89.4	80.0	120	----
Sodium	7440-23-5	E475A	4	mg/kg wwt	1250 mg/kg wwt	97.0	80.0	120	----
Strontium	7440-24-6	E475A	0.02	mg/kg wwt	6.25 mg/kg wwt	101	80.0	120	----
Tellurium	13494-80-9	E475A	0.004	mg/kg wwt	2.5 mg/kg wwt	90.2	80.0	120	----
Thallium	7440-28-0	E475A	0.0004	mg/kg wwt	25 mg/kg wwt	93.1	80.0	120	----
Tin	7440-31-5	E475A	0.02	mg/kg wwt	12.5 mg/kg wwt	90.3	80.0	120	----
Uranium	7440-61-1	E475A	0.0004	mg/kg wwt	0.125 mg/kg wwt	93.1	80.0	120	----
Vanadium	7440-62-2	E475A	0.02	mg/kg wwt	12.5 mg/kg wwt	99.1	80.0	120	----
Zinc	7440-66-6	E475A	0.2	mg/kg wwt	12.5 mg/kg wwt	91.2	80.0	120	----
Zirconium	7440-67-7	E475A	0.04	mg/kg wwt	2.5 mg/kg wwt	96.2	80.0	120	----
Metals (QCLot: 2363281)									
Aluminum	7429-90-5	E475	5	mg/kg	50 mg/kg	97.6	80.0	120	----
Antimony	7440-36-0	E475	0.02	mg/kg	25 mg/kg	94.0	80.0	120	----
Arsenic	7440-38-2	E475	0.05	mg/kg	25 mg/kg	92.7	80.0	120	----
Barium	7440-39-3	E475	0.05	mg/kg	6.25 mg/kg	96.8	80.0	120	----
Beryllium	7440-41-7	E475	0.01	mg/kg	2.5 mg/kg	91.9	80.0	120	----
Bismuth	7440-69-9	E475	0.01	mg/kg	25 mg/kg	94.2	80.0	120	----
Boron	7440-42-8	E475	1	mg/kg	25 mg/kg	92.5	80.0	120	----
Cadmium	7440-43-9	E475	0.01	mg/kg	2.5 mg/kg	90.6	80.0	120	----
Calcium	7440-70-2	E475	20	mg/kg	1250 mg/kg	91.9	80.0	120	----
Cesium	7440-46-2	E475	0.005	mg/kg	1.25 mg/kg	96.4	80.0	120	----
Chromium	7440-47-3	E475	0.2	mg/kg	6.25 mg/kg	96.3	80.0	120	----
Cobalt	7440-48-4	E475	0.02	mg/kg	6.25 mg/kg	94.8	80.0	120	----
Copper	7440-50-8	E475	0.2	mg/kg	6.25 mg/kg	91.6	80.0	120	----
Iron	7439-89-6	E475	5	mg/kg	25 mg/kg	95.3	80.0	120	----
Lead	7439-92-1	E475	0.05	mg/kg	12.5 mg/kg	92.1	80.0	120	----
Lithium	7439-93-2	E475	0.5	mg/kg	6.25 mg/kg	92.5	80.0	120	----
Magnesium	7439-95-4	E475	2	mg/kg	1250 mg/kg	92.8	80.0	120	----
Manganese	7439-96-5	E475	0.05	mg/kg	6.25 mg/kg	95.8	80.0	120	----
Molybdenum	7439-98-7	E475	0.04	mg/kg	6.25 mg/kg	97.7	80.0	120	----
Nickel	7440-02-0	E475	0.2	mg/kg	12.5 mg/kg	92.9	80.0	120	----
Phosphorus	7723-14-0	E475	20	mg/kg	250 mg/kg	97.6	80.0	120	----
Potassium	7440-09-7	E475	20	mg/kg	1250 mg/kg	95.7	80.0	120	----
Rubidium	7440-17-7	E475	0.05	mg/kg	2.5 mg/kg	97.3	80.0	120	----



Sub-Matrix: Biota					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
					Target Concentration	LCS	Low	High	Qualifier
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 2363281) - continued									
Selenium	7782-49-2	E475	0.1	mg/kg	25 mg/kg	89.4	80.0	120	----
Sodium	7440-23-5	E475	20	mg/kg	1250 mg/kg	97.0	80.0	120	----
Strontium	7440-24-6	E475	0.1	mg/kg	6.25 mg/kg	101	80.0	120	----
Tellurium	13494-80-9	E475	0.02	mg/kg	2.5 mg/kg	90.2	80.0	120	----
Thallium	7440-28-0	E475	0.002	mg/kg	25 mg/kg	93.1	80.0	120	----
Tin	7440-31-5	E475	0.1	mg/kg	12.5 mg/kg	90.3	80.0	120	----
Uranium	7440-61-1	E475	0.002	mg/kg	0.125 mg/kg	93.1	80.0	120	----
Vanadium	7440-62-2	E475	0.1	mg/kg	12.5 mg/kg	99.1	80.0	120	----
Zinc	7440-66-6	E475	1	mg/kg	12.5 mg/kg	91.2	80.0	120	----
Zirconium	7440-67-7	E475	0.2	mg/kg	2.5 mg/kg	96.2	80.0	120	----
Metals (QCLot: 2363282)									
Mercury	7439-97-6	E512	0.01	mg/kg	0.05 mg/kg	90.2	80.0	120	----
Speciated Metals (QCLot: 2346106)									
Methylmercury (as MeHg)	22967-92-6	E538	5	µg/kg	100 µg/kg	80.6	70.0	130	----
Speciated Metals (QCLot: 2346107)									
Methylmercury (as MeHg)	22967-92-6	E538	5	µg/kg	100 µg/kg	98.5	70.0	130	----
Speciated Metals (QCLot: 2396508)									
Methylmercury (as MeHg)	22967-92-6	E538	5	µg/kg	100 µg/kg	100.0	70.0	130	----
Aggregate Organics (QCLot: 2344520)									
Lipid content	----	E564B	0.5	% wwt	98 % wwt	103	70.0	130	----
Aggregate Organics (QCLot: 2344814)									
Lipid content	----	E564B	0.5	% wwt	99 % wwt	103	70.0	130	----



Reference Material (RM) Report

A Reference Material (RM) is a homogenous material with known and well-established analyte concentrations. RMs are processed in an identical manner to test samples, and are used to monitor and control the accuracy and precision of a test method for a typical sample matrix. RM results are expressed as percent recovery of the target analyte concentration. RM targets may be certified target concentrations provided by the RM supplier, or may be ALS long-term mean values (for empirical test methods).

Sub-Matrix:

Sub-Matrix:					Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method					
Metals (QCLot: 2363274)									
QC-2363274-003	RM	Mercury	7439-97-6	E512A	0.281 mg/kg wwt	99.9	70.0	130	----
Metals (QCLot: 2363275)									
QC-2363275-003	RM	Aluminum	7429-90-5	E475A	147 mg/kg wwt	86.7	70.0	130	----
QC-2363275-003	RM	Arsenic	7440-38-2	E475A	14.5 mg/kg wwt	92.1	70.0	130	----
QC-2363275-003	RM	Barium	7440-39-3	E475A	0.352 mg/kg wwt	91.9	70.0	130	----
QC-2363275-003	RM	Boron	7440-42-8	E475A	3.47 mg/kg wwt	99.2	70.0	130	----
QC-2363275-003	RM	Cadmium	7440-43-9	E475A	0.153 mg/kg wwt	94.6	70.0	130	----
QC-2363275-003	RM	Calcium	7440-70-2	E475A	2010 mg/kg wwt	91.9	70.0	130	----
QC-2363275-003	RM	Cesium	7440-46-2	E475A	0.089 mg/kg wwt	91.5	70.0	130	----
QC-2363275-003	RM	Copper	7440-50-8	E475A	3.3 mg/kg wwt	89.8	70.0	130	----
QC-2363275-003	RM	Iron	7439-89-6	E475A	102 mg/kg wwt	90.5	70.0	130	----
QC-2363275-003	RM	Lead	7439-92-1	E475A	0.058 mg/kg wwt	91.2	15.0	185	----
QC-2363275-003	RM	Magnesium	7439-95-4	E475A	899 mg/kg wwt	89.5	70.0	130	----
QC-2363275-003	RM	Manganese	7439-96-5	E475A	0.948 mg/kg wwt	91.7	70.0	130	----
QC-2363275-003	RM	Molybdenum	7439-98-7	E475A	0.134 mg/kg wwt	98.6	70.0	130	----
QC-2363275-003	RM	Phosphorus	7723-14-0	E475A	6700 mg/kg wwt	96.1	70.0	130	----
QC-2363275-003	RM	Potassium	7440-09-7	E475A	11600 mg/kg wwt	96.2	70.0	130	----
QC-2363275-003	RM	Rubidium	7440-17-7	E475A	2.53 mg/kg wwt	94.5	70.0	130	----
QC-2363275-003	RM	Selenium	7782-49-2	E475A	2.48 mg/kg wwt	99.1	70.0	130	----
QC-2363275-003	RM	Sodium	7440-23-5	E475A	9620 mg/kg wwt	92.8	70.0	130	----
QC-2363275-003	RM	Strontium	7440-24-6	E475A	10.6 mg/kg wwt	93.7	70.0	130	----
QC-2363275-003	RM	Vanadium	7440-62-2	E475A	0.269 mg/kg wwt	89.5	70.0	130	----
QC-2363275-003	RM	Zinc	7440-66-6	E475A	28.7 mg/kg wwt	94.0	70.0	130	----
Metals (QCLot: 2363276)									
QC-2363276-003	RM	Aluminum	7429-90-5	E475	147 mg/kg	86.7	70.0	130	----
QC-2363276-003	RM	Arsenic	7440-38-2	E475	14.5 mg/kg	92.1	70.0	130	----
QC-2363276-003	RM	Barium	7440-39-3	E475	0.352 mg/kg	91.9	70.0	130	----
QC-2363276-003	RM	Boron	7440-42-8	E475	3.47 mg/kg	99.2	70.0	130	----
QC-2363276-003	RM	Cadmium	7440-43-9	E475	0.153 mg/kg	94.6	70.0	130	----
QC-2363276-003	RM	Calcium	7440-70-2	E475	2010 mg/kg	91.9	70.0	130	----
QC-2363276-003	RM	Cesium	7440-46-2	E475	0.089 mg/kg	91.5	70.0	130	----
QC-2363276-003	RM	Copper	7440-50-8	E475	3.3 mg/kg	89.8	70.0	130	----
QC-2363276-003	RM	Iron	7439-89-6	E475	102 mg/kg	90.5	70.0	130	----



Sub-Matrix:					Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method					
Metals (QCLot: 2363276) - continued									
QC-2363276-003	RM	Lead	7439-92-1	E475	0.058 mg/kg	91.2	15.0	185	----
QC-2363276-003	RM	Magnesium	7439-95-4	E475	899 mg/kg	89.5	70.0	130	----
QC-2363276-003	RM	Manganese	7439-96-5	E475	0.948 mg/kg	91.7	70.0	130	----
QC-2363276-003	RM	Molybdenum	7439-98-7	E475	0.134 mg/kg	98.6	70.0	130	----
QC-2363276-003	RM	Phosphorus	7723-14-0	E475	6700 mg/kg	96.1	70.0	130	----
QC-2363276-003	RM	Potassium	7440-09-7	E475	11600 mg/kg	96.2	70.0	130	----
QC-2363276-003	RM	Rubidium	7440-17-7	E475	2.53 mg/kg	94.5	70.0	130	----
QC-2363276-003	RM	Selenium	7782-49-2	E475	2.48 mg/kg	99.1	70.0	130	----
QC-2363276-003	RM	Sodium	7440-23-5	E475	9620 mg/kg	92.8	70.0	130	----
QC-2363276-003	RM	Strontium	7440-24-6	E475	10.6 mg/kg	93.7	70.0	130	----
QC-2363276-003	RM	Vanadium	7440-62-2	E475	0.269 mg/kg	89.5	70.0	130	----
QC-2363276-003	RM	Zinc	7440-66-6	E475	28.7 mg/kg	94.0	70.0	130	----
Metals (QCLot: 2363277)									
QC-2363277-003	RM	Mercury	7439-97-6	E512	0.281 mg/kg	99.9	70.0	130	----
Metals (QCLot: 2363279)									
QC-2363279-003	RM	Mercury	7439-97-6	E512A	0.281 mg/kg wwt	86.4	70.0	130	----
Metals (QCLot: 2363280)									
QC-2363280-003	RM	Aluminum	7429-90-5	E475A	147 mg/kg wwt	91.3	70.0	130	----
QC-2363280-003	RM	Arsenic	7440-38-2	E475A	14.5 mg/kg wwt	95.4	70.0	130	----
QC-2363280-003	RM	Barium	7440-39-3	E475A	0.352 mg/kg wwt	89.5	70.0	130	----
QC-2363280-003	RM	Boron	7440-42-8	E475A	3.47 mg/kg wwt	97.1	70.0	130	----
QC-2363280-003	RM	Cadmium	7440-43-9	E475A	0.153 mg/kg wwt	94.4	70.0	130	----
QC-2363280-003	RM	Calcium	7440-70-2	E475A	2010 mg/kg wwt	91.0	70.0	130	----
QC-2363280-003	RM	Cesium	7440-46-2	E475A	0.089 mg/kg wwt	91.7	70.0	130	----
QC-2363280-003	RM	Copper	7440-50-8	E475A	3.3 mg/kg wwt	91.6	70.0	130	----
QC-2363280-003	RM	Iron	7439-89-6	E475A	102 mg/kg wwt	89.8	70.0	130	----
QC-2363280-003	RM	Lead	7439-92-1	E475A	0.058 mg/kg wwt	88.3	15.0	185	----
QC-2363280-003	RM	Magnesium	7439-95-4	E475A	899 mg/kg wwt	91.8	70.0	130	----
QC-2363280-003	RM	Manganese	7439-96-5	E475A	0.948 mg/kg wwt	89.7	70.0	130	----
QC-2363280-003	RM	Molybdenum	7439-98-7	E475A	0.134 mg/kg wwt	98.7	70.0	130	----
QC-2363280-003	RM	Phosphorus	7723-14-0	E475A	6700 mg/kg wwt	97.8	70.0	130	----
QC-2363280-003	RM	Potassium	7440-09-7	E475A	11600 mg/kg wwt	95.3	70.0	130	----
QC-2363280-003	RM	Rubidium	7440-17-7	E475A	2.53 mg/kg wwt	92.7	70.0	130	----
QC-2363280-003	RM	Selenium	7782-49-2	E475A	2.48 mg/kg wwt	99.7	70.0	130	----
QC-2363280-003	RM	Sodium	7440-23-5	E475A	9620 mg/kg wwt	95.3	70.0	130	----
QC-2363280-003	RM	Strontium	7440-24-6	E475A	10.6 mg/kg wwt	90.5	70.0	130	----
QC-2363280-003	RM	Vanadium	7440-62-2	E475A	0.269 mg/kg wwt	93.7	70.0	130	----



Sub-Matrix:					Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method					
Metals (QCLot: 2363280) - continued									
QC-2363280-003	RM	Zinc	7440-66-6	E475A	28.7 mg/kg ww	94.8	70.0	130	----
Metals (QCLot: 2363281)									
QC-2363281-003	RM	Aluminum	7429-90-5	E475	147 mg/kg	91.3	70.0	130	----
QC-2363281-003	RM	Arsenic	7440-38-2	E475	14.5 mg/kg	95.4	70.0	130	----
QC-2363281-003	RM	Barium	7440-39-3	E475	0.352 mg/kg	89.5	70.0	130	----
QC-2363281-003	RM	Boron	7440-42-8	E475	3.47 mg/kg	97.1	70.0	130	----
QC-2363281-003	RM	Cadmium	7440-43-9	E475	0.153 mg/kg	94.4	70.0	130	----
QC-2363281-003	RM	Calcium	7440-70-2	E475	2010 mg/kg	91.0	70.0	130	----
QC-2363281-003	RM	Cesium	7440-46-2	E475	0.089 mg/kg	91.7	70.0	130	----
QC-2363281-003	RM	Copper	7440-50-8	E475	3.3 mg/kg	91.6	70.0	130	----
QC-2363281-003	RM	Iron	7439-89-6	E475	102 mg/kg	89.8	70.0	130	----
QC-2363281-003	RM	Lead	7439-92-1	E475	0.058 mg/kg	88.3	15.0	185	----
QC-2363281-003	RM	Magnesium	7439-95-4	E475	899 mg/kg	91.8	70.0	130	----
QC-2363281-003	RM	Manganese	7439-96-5	E475	0.948 mg/kg	89.7	70.0	130	----
QC-2363281-003	RM	Molybdenum	7439-98-7	E475	0.134 mg/kg	98.7	70.0	130	----
QC-2363281-003	RM	Phosphorus	7723-14-0	E475	6700 mg/kg	97.8	70.0	130	----
QC-2363281-003	RM	Potassium	7440-09-7	E475	11600 mg/kg	95.3	70.0	130	----
QC-2363281-003	RM	Rubidium	7440-17-7	E475	2.53 mg/kg	92.7	70.0	130	----
QC-2363281-003	RM	Selenium	7782-49-2	E475	2.48 mg/kg	99.7	70.0	130	----
QC-2363281-003	RM	Sodium	7440-23-5	E475	9620 mg/kg	95.3	70.0	130	----
QC-2363281-003	RM	Strontium	7440-24-6	E475	10.6 mg/kg	90.5	70.0	130	----
QC-2363281-003	RM	Vanadium	7440-62-2	E475	0.269 mg/kg	93.7	70.0	130	----
QC-2363281-003	RM	Zinc	7440-66-6	E475	28.7 mg/kg	94.8	70.0	130	----
Metals (QCLot: 2363282)									
QC-2363282-003	RM	Mercury	7439-97-6	E512	0.281 mg/kg	86.4	70.0	130	----
Speciated Metals (QCLot: 2346106)									
QC-2346106-003	RM	Methylmercury (as MeHg)	22967-92-6	E538	266 µg/kg	109	70.0	130	----
Speciated Metals (QCLot: 2346107)									
QC-2346107-003	RM	Methylmercury (as MeHg)	22967-92-6	E538	266 µg/kg	103	70.0	130	----
Speciated Metals (QCLot: 2396508)									
QC-2396508-003	RM	Methylmercury (as MeHg)	22967-92-6	E538	266 µg/kg	94.3	70.0	130	----



COC Number: 22 -

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Canada Toll Free: 1 800 668 9878

Environmental Division
Thunder Bay
Work Order Reference
TY2510917



Telephone : +1 807 623 6463

Report To Contact and company name below will appear on the final report		Reports / Recipients		Turnaround Time (TAT) Requested	
Company: G3 Consulting Ltd.		Select Report Format: ☒ PDF ☒ EXCEL ☐ EDD (DIGITAL)		☒ Routine [R] If received by 3pm M-F - no surcharges apply	
Contact: Greg Thomas		Merge QC/QCI Reports with COA ☒ YES ☐ NO ☐ N/A		☐ 1 day [P4] If received by 3pm M-F - 20% rush surcharge mini	
Phone: 604-598-8501		☒ Compare Results to Criteria on Report - provide details below if box checked		☐ 3 day [P3] If received by 3pm M-F - 25% rush surcharge mini	
Company address below will appear on the final report		Select Distribution: ☒ EMAIL ☐ MAIL ☐ FAX		☐ 2 day [P2] If received by 3pm M-F - 50% rush surcharge mini	
Street: 206-8501 162 St		Email 1 or Fax: kalfonso@g3consulting.com, cwilson@g3consulting.com		☐ 1 day [E] If received by 3pm M-F - 100% rush surcharge mini	
City/Province: Surrey, BC		Email 2: squarehole@g3consulting.com, rtarrel@g3consulting.com		☐ Same day [E2] If received by 10am M-S - 200% rush surcharge	
Postal Code: V4N 1B2		Email 3: gthomas@g3consulting.com, mtyto@g3consulting.com		Additional fees may apply to rush requests on weekends	
Invoice To: Same as Report To ☐ YES ☒ NO		Invoice Recipients		Date and Time Required for all E&P TATs: _____	
Copy of Invoice with Report: ☐ YES ☒ NO		Select Invoice Distribution: ☒ EMAIL ☐ MAIL ☐ FAX		For all tests with rush TATs requested, please call _____	
Company: G3 Consulting Ltd.		Email 1 or Fax: sjohnson@g3consulting.com		Analysis Request	
Contact:		Email 2: info@g3consulting.com		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (FP) below	
Project Information		Oil and Gas Required Fields (client use)		NUMBER OF CONTAINERS	
ALS Account # / Quote #: G3CO100 / WT2025G3CO1000001		AFE/Cost Center:		PO#	
Job #: 2502		Major/Minor Code:		Routing Code:	
PO / AFE: 2502		Requisitioner:		Location:	
LSD:		ALS Lab Work Order # (ALS use only): T42510917		ALS Contact:	
ALS Sample # (ALS use only)		Sample Identification and/or Coordinates (This description will appear on the report)		Date (dd-mm-yy)	
Time (hh:mm)		Sample Type		NUMBER OF CONTAINERS	
1 25ONG309 FT OLLWS1		4 -Sept-2025 8:20 Biota/Tissue		R R R R R	
2 25ONG309 FT OLLWS2		-Sept-2025 Biota/Tissue		R R	
3 25ONG309 FT OLLWS3		-Sept-2025 Biota/Tissue		R R	
4 25ONG309 FT OLLWS4		-Sept-2025 Biota/Tissue		R R	
5 25ONG309 FT OLLWS5		-Sept-2025 Biota/Tissue		R R	
6 25ONG309 FT OLLWS6		-Sept-2025 Biota/Tissue		R R	
7 25ONG309 FT OLLWS7		-Sept-2025 Biota/Tissue		R R	
8 25ONG309 FT OLLWS8		-Sept-2025 Biota/Tissue		R R	
9 25ONG309 FT OLLWS9		-Sept-2025 Biota/Tissue		R R	
10 25ONG309 FT OLLWS10		-Sept-2025 Biota/Tissue		R R	
11 25ONG309 FT OLLWS11		-Sept-2025 Biota/Tissue		R R	
12 25ONG309 FT OLLWS12		-Sept-2025 Biota/Tissue		R R	
13 25ONG309 FT OLLWS13		-Sept-2025 Biota/Tissue		R R	
14 25ONG309 FT OLLWS14		-Sept-2025 Biota/Tissue		R R	
Drinking Water (DW) Samples (client use)		Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)		SAMPLE RECEIPT DETAILS (ALS use only)	
Are samples taken from a Regulated DW System? ☐ YES ☐ NO		Are samples for human consumption/ use? ☐ YES ☐ NO		Cooling Method: ☐ NONE ☒ ICE ☒ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED	
Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO		Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A		INITIAL COOLER TEMPERATURES °C 42 -2.9-7.6 13.4 FINAL COOLER TEMPERATURES °C	
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (ALS use only)		FINAL SHIPMENT RECEPTION (ALS use only)	
Released by: 1/1		Date: 9/19/25 Time: 11:32		Date: Time:	

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

JAN 2023 COI

AC
19-Sep-25 | 4:54
3x deep 11



www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

COC Number: 22 -

Page 2 of 6

Report To Contact and company name below will appear on the final report.		Reports / Recipients		Turnaround Time (TAT) Requested		AFFIX ALS BARCODE LABEL HERE (ALS use only)
Company: G3 Consulting Ltd.		Select Report Format: ☒ PDF ☒ EXCEL ☐ EDD (DIGITAL)		☒ Routine (R) if received by 3pm M-F - no surcharges apply		
Contact: Greg Thomas		Merge COC/CI Reports with COA: ☒ YES ☐ NO ☐ N/A		☐ 4 day (P4) if received by 3pm M-F - 20% rush surcharge minimum		
Phone: 604-598-8501		☒ Compare Results to Criteria on Report - provide details below if box checked		☐ 3 day (P3) if received by 3pm M-F - 25% rush surcharge minimum		
Company address below will appear on the final report		Select Distribution: ☒ EMAIL ☐ MAIL ☐ FAX		☐ 2 day (P2) if received by 3pm M-F - 50% rush surcharge minimum		
Street: 206-8501 162 St		Email 1 or Fax: karfons@g3consulting.com; cwilson@g3consulting.com		☐ 1 day (E) if received by 3pm M-F - 100% rush surcharge minimum		
City/Province: Surrey, BC		Email 2: aquarehie@g3consulting.com; rfarrell@g3consulting.com		☐ Same day (E2) if received by 10am M-S - 200% rush surcharge		
Postal Code: V4N 1B2		Email 3: gthomas@g3consulting.com; mtylo@g3consulting.com				
Invoice To: Same as Report To ☐ YES ☒ NO		Invoice Recipients		Additional fees may apply to rush requests on weekends, statutory holidays and for non-routine tests.		
Copy of Invoice with Report ☐ YES ☒ NO		Select Invoice Distribution: ☒ EMAIL ☐ MAIL ☐ FAX		Date and Time Required for all E&P TATs: _____ dd-mm-yy hh:mm am/pm		
Company: G3 Consulting Ltd.		Email 1 or Fax: sjohnson@g3consulting.com		For all tests with rush TATs requested, please contact your AM to confirm availability.		
Contact: _____		Email 2: info@g3consulting.com		Analysis Request		
Project Information		Oil and Gas Required Fields (client use)		NUMBER OF CONTAINERS		SAMPLES ON HOLD EXTENDED STORAGE REQUIRED SUSPECTED HAZARD (see notes)
ALS Account # / Quote #: G3CO100 / WT2025G3CO1000001		AFE/Coet Center: _____ PO#: _____		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below		
Job #: 2502		Major/Minor Code: _____ Routing Code: _____		Metals w/ Selenium		
PO / AFE: 2502		Requisitioner: _____		Total Mercury		
LSD: _____		Location: _____		Methylmercury		
ALS Lab Work Order # (ALS use only): _____		ALS Contact: _____		Methane		
ALS Sample # (ALS use only): _____		Sampler: _____		Lipids		
Sample Identification and/or Coordinates (This description will appear on the report)		Date (dd-mm-yy)		Time (hh:mm)		
Sample Type						
15	25ONG309 FT OLLWS13	9	-Sept-2025	8:20	Biota/Tissue	
16	25ONG309 FT OLLWS16		-Sept-2025		Biota/Tissue	
17	25ONG309 FT OLLWS17		-Sept-2025		Biota/Tissue	
18	25ONG309 FT OLLWS18		-Sept-2025		Biota/Tissue	
19	25ONG309 FT OLLWS19		-Sept-2025		Biota/Tissue	
20	25ONG309 FT OLLWS20		-Sept-2025		Biota/Tissue	
21	25ONG309 FT OLLWS21		-Sept-2025		Biota/Tissue	
22	25ONG309 FT OLLWS22		-Sept-2025		Biota/Tissue	
23	25ONG309 FT OLLWS23		-Sept-2025		Biota/Tissue	
24	25ONG309 FT OLLWS24		-Sept-2025		Biota/Tissue	
25	25ONG309 FT OLLWS25		-Sept-2025		Biota/Tissue	
26	25ONG309 FT OLLWS26		-Sept-2025		Biota/Tissue	
27	25ONG309 FT OLLWS27		-Sept-2025		Biota/Tissue	
28	25ONG309 FT OLLWS28		-Sept-2025		Biota/Tissue	
29	25ONG309 FT OLLWS29		-Sept-2025		Biota/Tissue	
30	25ONG309 FT OLLWS30		-Sept-2025		Biota/Tissue	
31	25ONG309 FT OLLWS31		-Sept-2025		Biota/Tissue	
Drinking Water (DW) Samples (client use)		Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)		SAMPLE RECEIPT DETAILS (ALS use only)		
Are samples taken from a Regulated DW System? ☐ YES ☐ NO				Cooling Method: ☐ NONE ☐ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED		
Are samples for human consumption/ use? ☐ YES ☐ NO				Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO		
				Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A		
				INITIAL COOLER TEMPERATURES °C		
				FINAL COOLER TEMPERATURES °C		
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (ALS use only)		FINAL SHIPMENT RECEPTION (ALS use only)		
Released by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____	

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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JAN 2025 (1/2025)

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Intake and Login Verification Form

SAMPLE INTAKE				ACCOUNT INFO VERIFICATION			
Priority/Emergency Service Requested		YES	NO	Priority/Emergency Service Requested		YES	NO
Time Sensitive Hold Time		YES	NO	Confirmed all as accurate as per COC, Sample Remarks or PM			
Client:				Client		Work Contact	Quote
SAMPLE RECEIPT INFORMATION				RECEIPT DETAIL			
Mode of Delivery:		Courier	Drop Off	Project		PO	Site/LSD
Courier				Overall Description Entered		Yes	NA
Waybill Number				Received date/time as per COC			
Temperature		Cooler Count		Recipients match CoC or Sample Remarks		Yes	No
Cooling Method		None	Ice	Billing Instruction added to remarks		Yes	NA
		Ice Packs		Sample Remarks/Specification Doc checked			
SAMPLE MATRIX/BOTTLE INFORMATION				VERIFICATION CHECKLIST			
Matrix:	Water	Soil	Air	Biota	Other		
DW Schedule 24 Bottles Correct?				Yes	No		
DW Metals pH Check <2				Yes	No		
Regulation Circled, Works # present		Yes	No - Reject?	Planned Event Submission		Yes	No
# of Bottles:	Sample Count		28	Sample Name entered as per CoC			
Green/white				Sampling Date and time entered as per CoC			
Purple/white				Containers selected in layout order			
Warm red/white				Sales items entered from QUOTE ONLY (and/or verified as correct)			
Yellow/black				Field Data/EC298A removed if not on COC		Yes	NA
Light blue/white				Bottle Allocation Verified			
Orange/black				Guideline added or auto-allocated			
Others (detail)		28 Ash		Due dates updated			
Comments on Samples and Bottles:				VALIDATION			
28				Validation errors resolved?		Yes	No
Samples Requiring Preservation or Filtering:				Internal Sublet CoC created		Yes	NA
Layout Staff Initials		AC		Login Comments:			
Date and Time of Layout		25 - Sep - 25 / 8:53		Login Staff Initials:			

CERTIFICATE OF ANALYSIS

Work Order	: TY2510927		
Client	: G3 Consulting Ltd.	Laboratory	: ALS Environmental - Thunder Bay
Contact	: Greg Thomas	Account Manager	: Christine Paradis
Address	: 206-8501 162nd St. Surrey British Columbia Canada V4N 1B2	Address	: 1081 Barton Street Thunder Bay ON Canada P7B 5N3
Telephone	: 604 598 8501	E-mail	: Christine.Paradis@ALSGlobal.com
Project	: 2502	Telephone	: +1 807 623 6463
PO	: 2502	Date Samples Received	: 19-Sep-2025 16:54
C-O-C number	: ----	Date Analysis Commenced	: 19-Nov-2025
Sampler	: ----	Issue Date	: 07-Jan-2026 13:48
Site	: ----		
Quote number	: Dubreuilville Project		
No. of samples received	: 28		
No. of samples analysed	: 28		

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.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Bitu Emamgholi	Lab Assistant	Metals, Burnaby, British Columbia
Brieanna Allen	Production/Validation Manager	Organics, Burnaby, British Columbia
Dan Gebert	Supervisor - Metals Mercury & Speciation	Metals, Burnaby, British Columbia
Hamidreza Hamidzadeh	Lab Assistant	Metals, Burnaby, British Columbia
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Metals, Burnaby, British Columbia
Robin Weeks	Supervisor - Organics Extractions	Organics, Burnaby, British Columbia
Shahrzad Firoozbakht	Lab Assistant	Metals, Burnaby, British Columbia



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).

Unit	Description
%	percent
% wwt	% wet weight
mg/kg	milligrams per kilogram
mg/kg wwt	milligrams per kilogram wet weight
µg/kg	micrograms per kilogram

<: less than.

>: greater than.

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.

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
DLA	Detection Limit adjusted for required dilution.



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLWSS32 ----	25ONG309 FT OLLWS33 ----	25ONG309 FT OLWSS34 ----	25ONG309 FT OLWYS35 ----	25ONG309 FT OLLWS36 ----
Client sampling date / time						09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510927-001	TY2510927-002	TY2510927-003	TY2510927-004	TY2510927-005
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.50	%		78.4	79.1	84.9	83.7	80.6
Moisture	----	E144A/VA	2.0	%		78.4	79.1	84.9	83.7	80.6
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg		<5.0	6.7	6.6	<5.0	<5.0
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt		<1.0	1.4	<1.0	<1.0	<1.0
Antimony	7440-36-0	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Arsenic	7440-38-2	E475/VA	0.050	mg/kg		0.204	0.307	0.330	0.218	0.436
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt		0.044	0.064	0.050	0.036	0.085
Barium	7440-39-3	E475/VA	0.050	mg/kg		0.140	0.379	0.388	0.085	<0.050
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt		0.030	0.079	0.059	0.014	<0.010
Beryllium	7440-41-7	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	7440-69-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	7440-42-8	E475/VA	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt		<0.20	<0.20	<0.20	<0.20	<0.20
Cadmium	7440-43-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	7440-70-2	E475/VA	20	mg/kg		448	838	870	655	478



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLWSS32 ----	25ONG309 FT OLLWS33 ----	25ONG309 FT OLWSS34 ----	25ONG309 FT OLWYS35 ----	25ONG309 FT OLLWS36 ----
Client sampling date / time						09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510927-001	TY2510927-002	TY2510927-003	TY2510927-004	TY2510927-005
						Result	Result	Result	Result	Result
Metals										
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt		96.7	175	132	107	92.7
Cesium	7440-46-2	E475/VA	0.0050	mg/kg		0.450	0.922	0.543	1.94	0.834
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt		0.0972	0.193	0.0821	0.316	0.162
Chromium	7440-47-3	E475/VA	0.20	mg/kg		<0.20	<0.20	0.31	<0.20	<0.20
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	0.046	<0.040	<0.040
Cobalt	7440-48-4	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Copper	7440-50-8	E475/VA	0.20	mg/kg		0.95	0.82	1.18	0.73	0.57
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt		0.206	0.170	0.178	0.119	0.110
Iron	7439-89-6	E475/VA	5.0	mg/kg		10.1	19.7	22.7	7.9	9.8
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt		2.2	4.1	3.4	1.3	1.9
Lead	7439-92-1	E475/VA	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt		<0.010	<0.010	<0.010	<0.010	<0.010
Lithium	7439-93-2	E475/VA	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt		<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	7439-95-4	E475/VA	2.0	mg/kg		1460	1470	2100	2020	1100
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt		315	306	317	329	214
Manganese	7439-96-5	E475/VA	0.050	mg/kg		0.723	0.683	1.07	0.568	0.466
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt		0.156	0.143	0.162	0.092	0.090
Mercury	7439-97-6	E512/VA	0.010	mg/kg		0.250	0.391	0.601	2.88	0.440



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLWSS32	25ONG309 FT OLLWS33	25ONG309 FT OLWSS34	25ONG309 FT OLWYS35	25ONG309 FT OLLWS36
					Client sampling date / time	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510927-001	TY2510927-002	TY2510927-003	TY2510927-004	TY2510927-005
						Result	Result	Result	Result	Result
Metals										
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt		0.0540	0.0817	0.0908	0.469	0.0852
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg		<0.040	<0.040	<0.040	<0.040	<0.040
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel	7440-02-0	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Phosphorus	7723-14-0	E475/VA	20	mg/kg		11300	12300	15500	15100	11700
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt		2440	2560	2340	2460	2260
Potassium	7440-09-7	E475/VA	20	mg/kg		20500	21400	30000	30000	23900
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt		4440	4460	4530	4880	4640
Rubidium	7440-17-7	E475/VA	0.050	mg/kg		27.2	40.9	24.7	121	39.5
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt		5.88	8.54	3.73	19.7	7.66
Selenium	7782-49-2	E475/VA	0.10	mg/kg		1.07	1.81	1.72	1.35	1.51
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt		0.231	0.377	0.260	0.220	0.294
Sodium	7440-23-5	E475/VA	20	mg/kg		1300	1960	3120	2870	1450
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt		282	408	472	468	282
Strontium	7440-24-6	E475/VA	0.10	mg/kg		0.29	1.45	0.83	0.25	0.62
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt		0.063	0.303	0.125	0.041	0.121
Tellurium	13494-80-9	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	7440-28-0	E475/VA	0.0020	mg/kg		0.0042	0.0086	0.0026	0.0353	0.0077



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLWSS32 ----	25ONG309 FT OLLWS33 ----	25ONG309 FT OLWSS34 ----	25ONG309 FT OLWYS35 ----	25ONG309 FT OLLWS36 ----
Client sampling date / time						09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510927-001	TY2510927-002	TY2510927-003	TY2510927-004	TY2510927-005
						Result	Result	Result	Result	Result
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt		0.00091	0.00179	<0.00040	0.00574	0.00150
Tin	7440-31-5	E475/VA	0.10	mg/kg		0.11	<0.10	0.13	<0.10	<0.10
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt		0.023	<0.020	<0.020	<0.020	<0.020
Uranium	7440-61-1	E475/VA	0.0020	mg/kg		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Vanadium	7440-62-2	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Zinc	7440-66-6	E475/VA	1.0	mg/kg		20.2	15.8	19.1	21.8	12.6
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt		4.36	3.31	2.89	3.54	2.45
Zirconium	7440-67-7	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg		258	318	694	2520	416
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt		0.87	1.42	0.70	<0.50	<0.50

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



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLLWS37	25ONG309 FT OLLWS38	25ONG309 FT OLLWS39	25ONG309 FT OLNPS40	25ONG309 FT OLLWS41
					Client sampling date / time	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510927-006	TY2510927-007	TY2510927-008	TY2510927-009	TY2510927-010
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.50	%		80.2	77.0	78.5	77.4	77.8
Moisture	----	E144A/VA	2.0	%		80.2	77.0	78.5	77.4	77.8
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt		<1.0	<1.0	<1.0	<1.0	<1.0
Antimony	7440-36-0	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Arsenic	7440-38-2	E475/VA	0.050	mg/kg		0.467	0.361	0.417	0.104	0.621
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt		0.092	0.083	0.090	0.023	0.138
Barium	7440-39-3	E475/VA	0.050	mg/kg		0.088	0.058	<0.050	<0.050	0.051
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt		0.017	0.013	<0.010	<0.010	0.011
Beryllium	7440-41-7	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	7440-69-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	7440-42-8	E475/VA	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt		<0.20	<0.20	<0.20	<0.20	<0.20
Cadmium	7440-43-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	7440-70-2	E475/VA	20	mg/kg		615	670	430	533	732



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLLWS37 ----	25ONG309 FT OLLWS38 ----	25ONG309 FT OLLWS39 ----	25ONG309 FT OLNPS40 ----	25ONG309 FT OLLWS41 ----
Client sampling date / time						09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510927-006	TY2510927-007	TY2510927-008	TY2510927-009	TY2510927-010
						Result	Result	Result	Result	Result
Metals										
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt		122	154	92.5	121	162
Cesium	7440-46-2	E475/VA	0.0050	mg/kg		0.854	0.734	0.860	1.09	0.958
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt		0.169	0.169	0.185	0.246	0.213
Chromium	7440-47-3	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Cobalt	7440-48-4	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Copper	7440-50-8	E475/VA	0.20	mg/kg		0.80	0.74	0.61	0.50	0.57
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt		0.159	0.172	0.132	0.113	0.126
Iron	7439-89-6	E475/VA	5.0	mg/kg		10.8	12.8	9.8	6.7	11.8
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt		2.1	3.0	2.1	1.5	2.6
Lead	7439-92-1	E475/VA	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt		<0.010	<0.010	<0.010	<0.010	<0.010
Lithium	7439-93-2	E475/VA	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt		<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	7439-95-4	E475/VA	2.0	mg/kg		1580	1290	1290	1440	1290
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt		313	298	277	325	287
Manganese	7439-96-5	E475/VA	0.050	mg/kg		0.715	0.787	0.503	0.563	0.402
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt		0.141	0.181	0.108	0.127	0.089
Mercury	7439-97-6	E512/VA	0.010	mg/kg		0.320	0.398	0.418	2.31	0.366



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLLWS37	25ONG309 FT OLLWS38	25ONG309 FT OLLWS39	25ONG309 FT OLNPS40	25ONG309 FT OLLWS41
					Client sampling date / time	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510927-006	TY2510927-007	TY2510927-008	TY2510927-009	TY2510927-010
						Result	Result	Result	Result	Result
Metals										
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt		0.0632	0.0917	0.0900	0.521	0.0813
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg		<0.040	<0.040	<0.040	<0.040	<0.040
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel	7440-02-0	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Phosphorus	7723-14-0	E475/VA	20	mg/kg		11600	9840	10600	9940	10900
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt		2290	2270	2270	2250	2430
Potassium	7440-09-7	E475/VA	20	mg/kg		19700	17100	19900	17500	19700
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt		3900	3930	4280	3960	4380
Rubidium	7440-17-7	E475/VA	0.050	mg/kg		42.4	35.3	39.9	47.3	40.9
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt		8.38	8.14	8.60	10.7	9.08
Selenium	7782-49-2	E475/VA	0.10	mg/kg		1.13	1.18	1.34	0.83	1.25
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt		0.223	0.271	0.288	0.187	0.278
Sodium	7440-23-5	E475/VA	20	mg/kg		2490	1710	1350	1730	1760
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt		492	393	291	392	391
Strontium	7440-24-6	E475/VA	0.10	mg/kg		0.93	1.28	0.69	0.27	1.37
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt		0.184	0.295	0.148	0.060	0.304
Tellurium	13494-80-9	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	7440-28-0	E475/VA	0.0020	mg/kg		0.0085	0.0059	0.0089	0.0166	0.0111



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLLWS37 ----	25ONG309 FT OLLWS38 ----	25ONG309 FT OLLWS39 ----	25ONG309 FT OLNPS40 ----	25ONG309 FT OLLWS41 ----
Client sampling date / time						09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510927-006	TY2510927-007	TY2510927-008	TY2510927-009	TY2510927-010
						Result	Result	Result	Result	Result
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt		0.00168	0.00137	0.00192	0.00376	0.00246
Tin	7440-31-5	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Uranium	7440-61-1	E475/VA	0.0020	mg/kg		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Vanadium	7440-62-2	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Zinc	7440-66-6	E475/VA	1.0	mg/kg		14.5	16.6	11.7	16.7	13.2
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt		2.87	3.83	2.52	3.76	2.93
Zirconium	7440-67-7	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg		418	433	460	2340	459
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt		0.88	0.90	3.81	<0.50	1.09

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



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLWSS42	25ONG309 FT OLWSS43	25ONG309 FT OLWSS44	25ONG309 FT OLLWS45	25ONG309 FT OLLWS46
					Client sampling date / time	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510927-011	TY2510927-012	TY2510927-013	TY2510927-014	TY2510927-015
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.50	%		79.2	79.1	82.0	80.2	80.0
Moisture	----	E144A/VA	2.0	%		79.2	79.1	82.0	80.2	80.0
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt		<1.0	<1.0	<1.0	<1.0	<1.0
Antimony	7440-36-0	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Arsenic	7440-38-2	E475/VA	0.050	mg/kg		0.253	0.190	0.177	0.495	0.387
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt		0.053	0.040	0.032	0.098	0.077
Barium	7440-39-3	E475/VA	0.050	mg/kg		0.238	<0.050	0.105	<0.050	0.062
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt		0.049	<0.010	0.019	<0.010	0.012
Beryllium	7440-41-7	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	7440-69-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	7440-42-8	E475/VA	1.0	mg/kg		<1.0	<1.0	<1.0	<1.1 ^{DLA}	<1.0
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt		<0.20	<0.20	<0.20	<0.23 ^{DLA}	<0.21 ^{DLA}
Cadmium	7440-43-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	7440-70-2	E475/VA	20	mg/kg		579	350	453	363	750



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLWSS42 ----	25ONG309 FT OLWSS43 ----	25ONG309 FT OLWSS44 ----	25ONG309 FT OLLWS45 ----	25ONG309 FT OLLWS46 ----
Client sampling date / time						09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510927-011	TY2510927-012	TY2510927-013	TY2510927-014	TY2510927-015
						Result	Result	Result	Result	Result
Metals										
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt		120	73.4	81.8	72.0	150
Cesium	7440-46-2	E475/VA	0.0050	mg/kg		0.351	0.528	0.712	0.936	0.486
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt		0.0730	0.110	0.128	0.186	0.0974
Chromium	7440-47-3	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Cobalt	7440-48-4	E475/VA	0.020	mg/kg		<0.020	<0.020	0.021	<0.020	<0.020
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Copper	7440-50-8	E475/VA	0.20	mg/kg		0.79	0.43	1.68	0.67	1.09
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt		0.164	0.090	0.302	0.133	0.219
Iron	7439-89-6	E475/VA	5.0	mg/kg		8.9	8.5	26.3	9.7	11.8
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt		1.9	1.8	4.7	1.9	2.4
Lead	7439-92-1	E475/VA	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt		<0.010	<0.010	<0.010	<0.010	<0.010
Lithium	7439-93-2	E475/VA	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt		<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	7439-95-4	E475/VA	2.0	mg/kg		1420	1190	1500	1300	1290
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt		295	250	271	259	258
Manganese	7439-96-5	E475/VA	0.050	mg/kg		0.825	0.517	1.10	0.586	0.418
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt		0.172	0.108	0.199	0.116	0.084
Mercury	7439-97-6	E512/VA	0.010	mg/kg		0.229	0.663	0.617	0.391	0.402



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLWSS42 ----	25ONG309 FT OLWSS43 ----	25ONG309 FT OLWSS44 ----	25ONG309 FT OLLWS45 ----	25ONG309 FT OLLWS46 ----
Client sampling date / time						09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510927-011	TY2510927-012	TY2510927-013	TY2510927-014	TY2510927-015
						Result	Result	Result	Result	Result
Metals										
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt		0.0477	0.139	0.111	0.0776	0.0805
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg		<0.040	<0.040	<0.040	<0.040	<0.040
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel	7440-02-0	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Phosphorus	7723-14-0	E475/VA	20	mg/kg		10800	8710	11300	12000	11300
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt		2260	1820	2050	2380	2270
Potassium	7440-09-7	E475/VA	20	mg/kg		20600	15700	21400	21900	21200
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt		4290	3290	3870	4340	4240
Rubidium	7440-17-7	E475/VA	0.050	mg/kg		24.2	25.3	29.4	47.8	36.8
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt		5.03	5.29	5.30	9.48	7.37
Selenium	7782-49-2	E475/VA	0.10	mg/kg		1.11	1.50	1.08	1.12	0.95
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt		0.230	0.314	0.194	0.223	0.190
Sodium	7440-23-5	E475/VA	20	mg/kg		1620	963	1910	1370	1760
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt		336	202	345	271	353
Strontium	7440-24-6	E475/VA	0.10	mg/kg		0.48	0.42	0.30	0.41	1.22
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt		0.099	0.088	0.054	0.082	0.244
Tellurium	13494-80-9	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	7440-28-0	E475/VA	0.0020	mg/kg		0.0067	0.0041	0.0038	0.0082	0.0126



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLWSS42 ----	25ONG309 FT OLWSS43 ----	25ONG309 FT OLWSS44 ----	25ONG309 FT OLLWS45 ----	25ONG309 FT OLLWS46 ----
Client sampling date / time						09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510927-011	TY2510927-012	TY2510927-013	TY2510927-014	TY2510927-015
						Result	Result	Result	Result	Result
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt		0.00140	0.00085	0.00069	0.00162	0.00252
Tin	7440-31-5	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Uranium	7440-61-1	E475/VA	0.0020	mg/kg		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Vanadium	7440-62-2	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Zinc	7440-66-6	E475/VA	1.0	mg/kg		17.3	11.3	16.9	13.3	14.3
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt		3.60	2.37	3.05	2.63	2.87
Zirconium	7440-67-7	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg		271	704	681	433	433
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt		0.65	2.45	0.54	0.55	0.80

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



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLLWS47	25ONG309 FT OLLWS48	25ONG309 FT OLLWS49	25ONG309 FT OLLWS50	25ONG309 FT OLLWS51
					Client sampling date / time	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510927-016	TY2510927-017	TY2510927-018	TY2510927-019	TY2510927-020
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.50	%		77.8	81.2	77.0	79.6	79.8
Moisture	----	E144A/VA	2.0	%		77.8	81.2	77.0	79.6	79.8
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt		<1.0	<1.0	<1.0	<1.0	<1.0
Antimony	7440-36-0	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Arsenic	7440-38-2	E475/VA	0.050	mg/kg		0.493	0.272	0.333	0.412	0.324
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt		0.109	0.051	0.077	0.084	0.065
Barium	7440-39-3	E475/VA	0.050	mg/kg		<0.050	0.052	0.517	<0.050	<0.050
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt		<0.010	<0.010	0.119	<0.010	<0.010
Beryllium	7440-41-7	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	7440-69-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	7440-42-8	E475/VA	1.0	mg/kg		<1.0	<1.1 ^{DLA}	<1.0	<1.0	<1.1 ^{DLA}
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt		<0.23 ^{DLA}	<0.22 ^{DLA}	<0.23 ^{DLA}	<0.20	<0.22 ^{DLA}
Cadmium	7440-43-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	7440-70-2	E475/VA	20	mg/kg		585	493	15500	629	490



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLLWS47 ----	25ONG309 FT OLLWS48 ----	25ONG309 FT OLLWS49 ----	25ONG309 FT OLLWS50 ----	25ONG309 FT OLLWS51 ----
Client sampling date / time						09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510927-016	TY2510927-017	TY2510927-018	TY2510927-019	TY2510927-020
						Result	Result	Result	Result	Result
Metals										
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt		130	92.7	3570	128	98.9
Cesium	7440-46-2	E475/VA	0.0050	mg/kg		1.28	0.452	0.848	0.635	0.869
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt		0.285	0.0850	0.195	0.129	0.176
Chromium	7440-47-3	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Cobalt	7440-48-4	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Copper	7440-50-8	E475/VA	0.20	mg/kg		0.41	0.43	0.36	0.73	0.60
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt		0.091	0.082	0.084	0.150	0.120
Iron	7439-89-6	E475/VA	5.0	mg/kg		9.8	7.8	11.5	10.0	9.8
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt		2.2	1.5	2.6	2.0	2.0
Lead	7439-92-1	E475/VA	0.050	mg/kg		<0.050	<0.050	0.083	<0.050	<0.050
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt		<0.010	<0.010	0.019	<0.010	<0.010
Lithium	7439-93-2	E475/VA	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt		<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	7439-95-4	E475/VA	2.0	mg/kg		1160	1150	1410	1270	1270
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt		257	216	325	260	256
Manganese	7439-96-5	E475/VA	0.050	mg/kg		0.415	0.514	3.52	0.420	0.608
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt		0.092	0.097	0.810	0.086	0.123
Mercury	7439-97-6	E512/VA	0.010	mg/kg		0.478	0.587	0.311	0.316	0.377



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLLWS47	25ONG309 FT OLLWS48	25ONG309 FT OLLWS49	25ONG309 FT OLLWS50	25ONG309 FT OLLWS51
					Client sampling date / time	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510927-016	TY2510927-017	TY2510927-018	TY2510927-019	TY2510927-020
						Result	Result	Result	Result	Result
Metals										
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt		0.106	0.110	0.0715	0.0644	0.0762
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg		<0.040	<0.040	<0.040	<0.040	<0.040
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel	7440-02-0	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	0.28
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	0.056
Phosphorus	7723-14-0	E475/VA	20	mg/kg		9950	9460	17100	9850	10900
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt		2210	1780	3930	2010	2200
Potassium	7440-09-7	E475/VA	20	mg/kg		18200	18000	16900	18100	19100
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt		4040	3390	3880	3690	3870
Rubidium	7440-17-7	E475/VA	0.050	mg/kg		45.4	30.6	33.2	39.0	38.1
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt		10.1	5.76	7.65	7.95	7.70
Selenium	7782-49-2	E475/VA	0.10	mg/kg		1.33	0.89	1.19	1.09	1.49
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt		0.295	0.168	0.275	0.222	0.301
Sodium	7440-23-5	E475/VA	20	mg/kg		2200	2280	2590	2270	1120
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt		487	428	597	463	227
Strontium	7440-24-6	E475/VA	0.10	mg/kg		1.03	0.82	43.8	1.17	0.92
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt		0.228	0.155	10.1	0.239	0.185
Tellurium	13494-80-9	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	7440-28-0	E475/VA	0.0020	mg/kg		0.0121	0.0095	0.0097	0.0090	0.0082



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLLWS47 ----	25ONG309 FT OLLWS48 ----	25ONG309 FT OLLWS49 ----	25ONG309 FT OLLWS50 ----	25ONG309 FT OLLWS51 ----
Client sampling date / time						09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510927-016	TY2510927-017	TY2510927-018	TY2510927-019	TY2510927-020
						Result	Result	Result	Result	Result
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt		0.00269	0.00178	0.00223	0.00184	0.00165
Tin	7440-31-5	E475/VA	0.10	mg/kg		0.11	<0.10	<0.10	<0.10	<0.10
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt		0.025	<0.020	<0.020	<0.020	<0.020
Uranium	7440-61-1	E475/VA	0.0020	mg/kg		<0.0020	<0.0020	0.0023	<0.0020	<0.0020
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt		<0.00040	<0.00040	0.00053	<0.00040	<0.00040
Vanadium	7440-62-2	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Zinc	7440-66-6	E475/VA	1.0	mg/kg		17.9	16.1	21.4	14.0	12.1
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt		3.96	3.03	4.92	2.86	2.45
Zirconium	7440-67-7	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg		421	563	349	343	490
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt		0.53	<0.50	<0.50	0.60	0.56

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



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLNPS52	25ONG309 FT OLWSS53	25ONG309 FT OLWYS54	25ONG309 FT OLWLS55	25ONG309 FT OLWYS56
					Client sampling date / time	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510927-021	TY2510927-022	TY2510927-023	TY2510927-024	TY2510927-025
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.50	%		79.1	79.1	78.5	79.2	78.8
Moisture	----	E144A/VA	2.0	%		79.1	79.1	78.5	79.2	78.8
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt		<1.0	<1.0	<1.0	<1.0	<1.0
Antimony	7440-36-0	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Arsenic	7440-38-2	E475/VA	0.050	mg/kg		0.321	0.180	0.134	0.369	0.151
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt		0.067	0.038	0.029	0.077	0.032
Barium	7440-39-3	E475/VA	0.050	mg/kg		<0.050	0.154	0.099	<0.050	0.110
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt		<0.010	0.032	0.021	<0.010	0.023
Beryllium	7440-41-7	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	7440-69-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	7440-42-8	E475/VA	1.0	mg/kg		<1.0	<1.1 ^{DLA}	<1.0	<1.0	<1.1 ^{DLA}
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt		<0.21 ^{DLA}	<0.22 ^{DLA}	<0.22 ^{DLA}	<0.21 ^{DLA}	<0.23 ^{DLA}
Cadmium	7440-43-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	7440-70-2	E475/VA	20	mg/kg		563	431	449	419	541



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLNPS52	25ONG309 FT OLWSS53	25ONG309 FT OLWYS54	25ONG309 FT OLWLS55	25ONG309 FT OLWYS56
					Client sampling date / time	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510927-021	TY2510927-022	TY2510927-023	TY2510927-024	TY2510927-025
						Result	Result	Result	Result	Result
Metals										
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt		118	90.3	96.6	87.3	115
Cesium	7440-46-2	E475/VA	0.0050	mg/kg		1.35	0.475	1.77	0.761	1.45
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt		0.283	0.0994	0.381	0.159	0.308
Chromium	7440-47-3	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	0.21
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	0.045
Cobalt	7440-48-4	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Copper	7440-50-8	E475/VA	0.20	mg/kg		1.78	0.96	0.44	0.53	0.64
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt		0.372	0.201	0.095	0.110	0.136
Iron	7439-89-6	E475/VA	5.0	mg/kg		9.1	13.6	10.7	8.0	11.0
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt		1.9	2.8	2.3	1.7	2.3
Lead	7439-92-1	E475/VA	0.050	mg/kg		0.075	<0.050	<0.050	<0.050	<0.050
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt		0.016	<0.010	<0.010	<0.010	<0.010
Lithium	7439-93-2	E475/VA	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt		<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	7439-95-4	E475/VA	2.0	mg/kg		1300	1340	1550	1470	1310
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt		270	281	334	307	277
Manganese	7439-96-5	E475/VA	0.050	mg/kg		0.461	0.555	0.572	0.494	0.455
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt		0.096	0.116	0.123	0.103	0.097
Mercury	7439-97-6	E512/VA	0.010	mg/kg		5.29	0.399	1.66	0.653	1.84



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLNPS52	25ONG309 FT OLWSS53	25ONG309 FT OLWYS54	25ONG309 FT OLWLS55	25ONG309 FT OLWYS56
					Client sampling date / time	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510927-021	TY2510927-022	TY2510927-023	TY2510927-024	TY2510927-025
						Result	Result	Result	Result	Result
Metals										
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt		1.10	0.0834	0.358	0.136	0.390
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg		<0.040	<0.040	<0.040	<0.040	<0.040
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel	7440-02-0	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	0.49
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	0.104
Phosphorus	7723-14-0	E475/VA	20	mg/kg		9880	10600	11200	9900	9980
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt		2060	2220	2420	2060	2120
Potassium	7440-09-7	E475/VA	20	mg/kg		15400	21200	22800	19000	19600
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt		3210	4430	4900	3950	4150
Rubidium	7440-17-7	E475/VA	0.050	mg/kg		29.1	27.0	95.9	36.1	82.5
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt		6.08	5.66	20.6	7.52	17.5
Selenium	7782-49-2	E475/VA	0.10	mg/kg		1.01	1.15	1.01	1.16	0.94
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt		0.211	0.240	0.218	0.241	0.199
Sodium	7440-23-5	E475/VA	20	mg/kg		1930	1490	1670	1090	2140
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt		403	312	359	228	454
Strontium	7440-24-6	E475/VA	0.10	mg/kg		0.56	0.25	0.20	0.59	0.30
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt		0.117	0.053	0.042	0.123	0.064
Tellurium	13494-80-9	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	7440-28-0	E475/VA	0.0020	mg/kg		0.0074	0.0034	0.0188	0.0131	0.0201



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLNPS52	25ONG309 FT OLWSS53	25ONG309 FT OLWYS54	25ONG309 FT OLWLS55	25ONG309 FT OLWYS56
					Client sampling date / time	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510927-021	TY2510927-022	TY2510927-023	TY2510927-024	TY2510927-025
						Result	Result	Result	Result	Result
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt		0.00154	0.00071	0.00405	0.00273	0.00427
Tin	7440-31-5	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Uranium	7440-61-1	E475/VA	0.0020	mg/kg		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Vanadium	7440-62-2	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Zinc	7440-66-6	E475/VA	1.0	mg/kg		16.1	16.4	13.7	13.7	14.4
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt		3.36	3.44	2.95	2.85	3.05
Zirconium	7440-67-7	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg		7380	397	1590	695	1830
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt		<0.50	<0.50	<0.50	<0.50	1.54

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



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

Sub-Matrix: Tissue (Matrix: Biota)					Client sample ID	25ONG309 FT OLWLS57 ----	25ONG309 FT OLWSS58 ----	25ONG309 FT OLWLS59 ----	----	----
Client sampling date / time					09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	----	----	
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510927-026	TY2510927-027	TY2510927-028	----	----	
					Result	Result	Result	----	----	
Physical Tests										
Moisture	----	E144/VA	0.50	%	80.1	78.1	77.6	----	----	
Moisture	----	E144A/VA	2.0	%	80.1	78.1	77.6	----	----	
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg	<5.0	<5.0	<5.0	----	----	
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt	<1.0	<1.0	<1.0	----	----	
Antimony	7440-36-0	E475/VA	0.020	mg/kg	<0.020	<0.020	<0.020	----	----	
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt	<0.0040	<0.0040	<0.0040	----	----	
Arsenic	7440-38-2	E475/VA	0.050	mg/kg	0.357	0.246	0.311	----	----	
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt	0.071	0.054	0.070	----	----	
Barium	7440-39-3	E475/VA	0.050	mg/kg	<0.050	0.078	<0.050	----	----	
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt	<0.010	0.017	<0.010	----	----	
Beryllium	7440-41-7	E475/VA	0.010	mg/kg	<0.010	<0.010	<0.010	----	----	
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt	<0.0020	<0.0020	<0.0020	----	----	
Bismuth	7440-69-9	E475/VA	0.010	mg/kg	<0.010	<0.010	<0.010	----	----	
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt	<0.0020	<0.0020	<0.0020	----	----	
Boron	7440-42-8	E475/VA	1.0	mg/kg	<1.0	<1.0	<1.0	----	----	
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt	<0.20	<0.20	<0.20	----	----	
Cadmium	7440-43-9	E475/VA	0.010	mg/kg	<0.010	<0.010	<0.010	----	----	
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt	<0.0020	<0.0020	<0.0020	----	----	
Calcium	7440-70-2	E475/VA	20	mg/kg	410	598	490	----	----	



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

Sub-Matrix: Tissue (Matrix: Biota)					Client sample ID	25ONG309 FT OLWLS57 ----	25ONG309 FT OLWSS58 ----	25ONG309 FT OLWLS59 ----	----	----
Client sampling date / time					09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	----	----	
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510927-026	TY2510927-027	TY2510927-028	----	----	
					Result	Result	Result	----	----	
Metals										
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt	81.8	131	110	----	----	
Cesium	7440-46-2	E475/VA	0.0050	mg/kg	0.910	0.266	0.755	----	----	
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt	0.181	0.0583	0.169	----	----	
Chromium	7440-47-3	E475/VA	0.20	mg/kg	<0.20	<0.20	<0.20	----	----	
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt	<0.040	<0.040	<0.040	----	----	
Cobalt	7440-48-4	E475/VA	0.020	mg/kg	<0.020	<0.020	<0.020	----	----	
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt	<0.0040	<0.0040	<0.0040	----	----	
Copper	7440-50-8	E475/VA	0.20	mg/kg	0.61	0.96	0.70	----	----	
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt	0.122	0.211	0.156	----	----	
Iron	7439-89-6	E475/VA	5.0	mg/kg	14.9	10.5	15.1	----	----	
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt	3.0	2.3	3.4	----	----	
Lead	7439-92-1	E475/VA	0.050	mg/kg	<0.050	0.051	<0.050	----	----	
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt	<0.010	0.011	<0.010	----	----	
Lithium	7439-93-2	E475/VA	0.50	mg/kg	<0.50	<0.50	<0.50	----	----	
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt	<0.10	<0.10	<0.10	----	----	
Magnesium	7439-95-4	E475/VA	2.0	mg/kg	1210	1410	1250	----	----	
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt	241	309	281	----	----	
Manganese	7439-96-5	E475/VA	0.050	mg/kg	0.675	0.666	0.641	----	----	
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt	0.135	0.146	0.144	----	----	
Mercury	7439-97-6	E512/VA	0.010	mg/kg	0.767	0.256	0.490	----	----	



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

Client sample ID					25ONG309 FT OLWLS57	25ONG309 FT OLWSS58	25ONG309 FT OLWLS59	----	----
Client sampling date / time					09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510927-026	TY2510927-027	TY2510927-028	----	----
					Result	Result	Result	----	----
Metals									
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt	0.153	0.0562	0.110	----	----
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg	<0.040	<0.040	<0.040	----	----
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt	<0.0080	<0.0080	<0.0080	----	----
Nickel	7440-02-0	E475/VA	0.20	mg/kg	<0.20	<0.20	<0.20	----	----
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt	<0.040	<0.040	<0.040	----	----
Phosphorus	7723-14-0	E475/VA	20	mg/kg	10800	9820	10200	----	----
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt	2150	2160	2300	----	----
Potassium	7440-09-7	E475/VA	20	mg/kg	20500	18200	19100	----	----
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt	4090	4000	4270	----	----
Rubidium	7440-17-7	E475/VA	0.050	mg/kg	37.9	17.0	33.2	----	----
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt	7.56	3.73	7.44	----	----
Selenium	7782-49-2	E475/VA	0.10	mg/kg	1.34	0.98	1.40	----	----
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt	0.268	0.214	0.315	----	----
Sodium	7440-23-5	E475/VA	20	mg/kg	2130	1320	2110	----	----
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt	425	291	474	----	----
Strontium	7440-24-6	E475/VA	0.10	mg/kg	0.48	0.40	0.70	----	----
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt	0.095	0.087	0.156	----	----
Tellurium	13494-80-9	E475/VA	0.020	mg/kg	<0.020	<0.020	<0.020	----	----
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt	<0.0040	<0.0040	<0.0040	----	----
Thallium	7440-28-0	E475/VA	0.0020	mg/kg	0.0102	0.0023	0.0067	----	----



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

Sub-Matrix: Tissue (Matrix: Biota)					Client sample ID	25ONG309 FT OLWLS57 ----	25ONG309 FT OLWSS58 ----	25ONG309 FT OLWLS59 ----	----	----
Client sampling date / time					09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	----	----	
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510927-026	TY2510927-027	TY2510927-028	----	----	
					Result	Result	Result	----	----	
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt	0.00203	0.00051	0.00150	----	----	
Tin	7440-31-5	E475/VA	0.10	mg/kg	<0.10	<0.10	<0.10	----	----	
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt	<0.020	<0.020	<0.020	----	----	
Uranium	7440-61-1	E475/VA	0.0020	mg/kg	<0.0020	<0.0020	<0.0020	----	----	
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt	<0.00040	<0.00040	<0.00040	----	----	
Vanadium	7440-62-2	E475/VA	0.10	mg/kg	<0.10	<0.10	<0.10	----	----	
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt	<0.020	<0.020	<0.020	----	----	
Zinc	7440-66-6	E475/VA	1.0	mg/kg	14.6	14.6	13.1	----	----	
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt	2.91	3.20	2.94	----	----	
Zirconium	7440-67-7	E475/VA	0.20	mg/kg	<0.20	<0.20	<0.20	----	----	
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt	<0.040	<0.040	<0.040	----	----	
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg	919	303	498	----	----	
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt	<0.50	<0.50	0.85	----	----	

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

Quality Control Interpretive Report

Work Order : TY2510927

Client : G3 Consulting Ltd.
 Contact : Greg Thomas
 Address : 206-8501 162nd St.
 Surrey BC Canada V4N 1B2
 Telephone : 604 598 8501
 Project : 2502
 PO : 2502
 C-O-C number : ----
 Sampler : ----
 Site : ----
 Quote number : Dubreuilville Project
 No. of samples received : 28
 No. of samples analysed : 28

Laboratory : ALS Environmental - Thunder Bay
 Account Manager : Christine Paradis
 Address : 1081 Barton Street
 Thunder Bay ON Canada P7B 5N3
 Telephone : +1 807 623 6463
 Date Samples Received : 19-Sep-2025 16:54
 Issue Date : 07-Jan-2026 13:48

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 Services 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 Laboratory Control Sample Duplicate (LCSD) outliers occur
- No Matrix Spike outliers occur.
- No Matrix Spike Duplicate (MSD) 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)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- Quality Control Sample Frequency Outliers occur - please see following pages for full details.



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: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Aggregate Organics : Lipids by Gravimetry												
LDPE bag												
25ONG309 FT OLWSS32	001	2344814	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✔	21-Nov-2025	365 days	73 days	✔
25ONG309 FT OLLWS33	002	2344814	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✔	21-Nov-2025	365 days	73 days	✔
25ONG309 FT OLWSS34	003	2344814	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✔	21-Nov-2025	365 days	73 days	✔
25ONG309 FT OLWYS35	004	2344814	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✔	21-Nov-2025	365 days	73 days	✔
25ONG309 FT OLLWS36	005	2344814	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✔	21-Nov-2025	365 days	73 days	✔
25ONG309 FT OLLWS37	006	2344814	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✔	21-Nov-2025	365 days	73 days	✔
25ONG309 FT OLLWS38	007	2344814	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✔	21-Nov-2025	365 days	73 days	✔
25ONG309 FT OLLWS39	008	2344814	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✔	21-Nov-2025	365 days	73 days	✔
25ONG309 FT OLNPS40	009	2344814	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✔	21-Nov-2025	365 days	73 days	✔
25ONG309 FT OLLWS41	010	2344814	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✔	21-Nov-2025	365 days	73 days	✔
25ONG309 FT OLWSS42	011	2344814	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✔	21-Nov-2025	365 days	73 days	✔
25ONG309 FT OLWSS43	012	2344814	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✔	21-Nov-2025	365 days	73 days	✔
25ONG309 FT OLWSS44	013	2346372	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✔	22-Nov-2025	365 days	74 days	✔



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Aggregate Organics : Lipids by Gravimetry												
LDPE bag												
25ONG309 FT OLLWS45	014	2346372	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	74 days	✓
25ONG309 FT OLLWS46	015	2346372	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	74 days	✓
25ONG309 FT OLLWS47	016	2346372	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	74 days	✓
25ONG309 FT OLLWS48	017	2346372	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	74 days	✓
25ONG309 FT OLLWS49	018	2346372	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	74 days	✓
25ONG309 FT OLLWS50	019	2346372	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	74 days	✓
25ONG309 FT OLLWS51	020	2346372	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	74 days	✓
25ONG309 FT OLNPS52	021	2346372	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	74 days	✓
25ONG309 FT OLWSS53	022	2346372	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	74 days	✓
25ONG309 FT OLWYS54	023	2346372	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	74 days	✓
25ONG309 FT OLWLS55	024	2346372	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	74 days	✓
25ONG309 FT OLWYS56	025	2346372	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	74 days	✓
25ONG309 FT OLWLS57	026	2346372	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	74 days	✓
25ONG309 FT OLWSS58	027	2346372	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	74 days	✓
25ONG309 FT OLWLS59	028	2346372	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	74 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)												
LDPE bag												
25ONG309 FT OLWSS32	001	2363282	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	02-Dec-2025	365 days	84 days	✓



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)												
LDPE bag												
25ONG309 FT OLLWS33	002	2363282	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	02-Dec-2025	365 days	84 days	✔
25ONG309 FT OLWSS34	003	2363282	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	02-Dec-2025	365 days	84 days	✔
25ONG309 FT OLWYS35	004	2363282	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	02-Dec-2025	365 days	84 days	✔
25ONG309 FT OLLWS36	005	2363282	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	02-Dec-2025	365 days	84 days	✔
25ONG309 FT OLLWS37	006	2363282	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	02-Dec-2025	365 days	84 days	✔
25ONG309 FT OLLWS38	007	2363282	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	02-Dec-2025	365 days	84 days	✔
25ONG309 FT OLLWS39	008	2363282	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	02-Dec-2025	365 days	84 days	✔
25ONG309 FT OLNPS40	009	2363282	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	02-Dec-2025	365 days	84 days	✔
25ONG309 FT OLLWS41	010	2363282	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	02-Dec-2025	365 days	84 days	✔
25ONG309 FT OLWSS42	011	2363282	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	02-Dec-2025	365 days	84 days	✔
25ONG309 FT OLWSS43	012	2363282	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	02-Dec-2025	365 days	84 days	✔
25ONG309 FT OLWSS44	013	2364091	E512	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS45	014	2364091	E512	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS46	015	2364091	E512	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS47	016	2364091	E512	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS48	017	2364091	E512	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS49	018	2364091	E512	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS50	019	2364091	E512	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	04-Dec-2025	365 days	86 days	✔



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method		ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation			Analysis				
Container						Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
Client sample ID							Rec	Actual			Rec	Actual	
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)													
LDPE bag													
25ONG309 FT OLLWS51	020	2364091	E512	09-Sep-2025	02-Dec-2025	365 days	84 days	✓	04-Dec-2025	365 days	86 days	✓	
25ONG309 FT OLNPS52	021	2364091	E512	09-Sep-2025	02-Dec-2025	365 days	84 days	✓	04-Dec-2025	365 days	86 days	✓	
25ONG309 FT OLWSS53	022	2364091	E512	09-Sep-2025	02-Dec-2025	365 days	84 days	✓	04-Dec-2025	365 days	86 days	✓	
25ONG309 FT OLWYS54	023	2364091	E512	09-Sep-2025	02-Dec-2025	365 days	84 days	✓	04-Dec-2025	365 days	86 days	✓	
25ONG309 FT OLWLS55	024	2364091	E512	09-Sep-2025	02-Dec-2025	365 days	84 days	✓	04-Dec-2025	365 days	86 days	✓	
25ONG309 FT OLWYS56	025	2364091	E512	09-Sep-2025	02-Dec-2025	365 days	84 days	✓	04-Dec-2025	365 days	86 days	✓	
25ONG309 FT OLWLS57	026	2364091	E512	09-Sep-2025	02-Dec-2025	365 days	84 days	✓	04-Dec-2025	365 days	86 days	✓	
25ONG309 FT OLWSS58	027	2364091	E512	09-Sep-2025	02-Dec-2025	365 days	84 days	✓	04-Dec-2025	365 days	86 days	✓	
25ONG309 FT OLWLS59	028	2364091	E512	09-Sep-2025	02-Dec-2025	365 days	84 days	✓	04-Dec-2025	365 days	86 days	✓	
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)													
LDPE bag													
25ONG309 FT OLWSS32	001	2363279	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	02-Dec-2025	365 days	84 days	✓	
25ONG309 FT OLLWS33	002	2363279	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	02-Dec-2025	365 days	84 days	✓	
25ONG309 FT OLWSS34	003	2363279	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	02-Dec-2025	365 days	84 days	✓	
25ONG309 FT OLWYS35	004	2363279	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	02-Dec-2025	365 days	84 days	✓	
25ONG309 FT OLLWS36	005	2363279	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	02-Dec-2025	365 days	84 days	✓	
25ONG309 FT OLLWS37	006	2363279	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	02-Dec-2025	365 days	84 days	✓	
25ONG309 FT OLLWS38	007	2363279	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	02-Dec-2025	365 days	84 days	✓	



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)												
LDPE bag												
25ONG309 FT OLLWS39	008	2363279	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	02-Dec-2025	365 days	84 days	✔
25ONG309 FT OLNPS40	009	2363279	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	02-Dec-2025	365 days	84 days	✔
25ONG309 FT OLLWS41	010	2363279	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	02-Dec-2025	365 days	84 days	✔
25ONG309 FT OLWSS42	011	2363279	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	02-Dec-2025	365 days	84 days	✔
25ONG309 FT OLWSS43	012	2363279	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✔	02-Dec-2025	365 days	84 days	✔
25ONG309 FT OLWSS44	013	2364088	E512A	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS45	014	2364088	E512A	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS46	015	2364088	E512A	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS47	016	2364088	E512A	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS48	017	2364088	E512A	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS49	018	2364088	E512A	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS50	019	2364088	E512A	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLLWS51	020	2364088	E512A	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLNPS52	021	2364088	E512A	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLWSS53	022	2364088	E512A	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLWYS54	023	2364088	E512A	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLWLS55	024	2364088	E512A	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	04-Dec-2025	365 days	86 days	✔
25ONG309 FT OLWYS56	025	2364088	E512A	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	04-Dec-2025	365 days	86 days	✔



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)												
LDPE bag												
25ONG309 FT OLWLS57	026	2364088	E512A	09-Sep-2025	02-Dec-2025	365 days	84 days	✓	04-Dec-2025	365 days	86 days	✓
25ONG309 FT OLWSS58	027	2364088	E512A	09-Sep-2025	02-Dec-2025	365 days	84 days	✓	04-Dec-2025	365 days	86 days	✓
25ONG309 FT OLWLS59	028	2364088	E512A	09-Sep-2025	02-Dec-2025	365 days	84 days	✓	04-Dec-2025	365 days	86 days	✓
Metals : Metals by CRC ICPMS (DRY units, Biopsy)												
LDPE bag												
25ONG309 FT OLWSS32	001	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLWSS32	001	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS33	002	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS33	002	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLWSS34	003	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLWSS34	003	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLWYS35	004	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLWYS35	004	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS36	005	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS36	005	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS37	006	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS37	006	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS38	007	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method		ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation			Analysis				
Container						Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
							Rec	Actual			Rec	Actual	
Client sample ID													
Metals : Metals by CRC ICPMS (DRY units, Biopsy)													
LDPE bag													
25ONG309 FT OLLWS38	007	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔	
25ONG309 FT OLLWS39	008	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔	
25ONG309 FT OLLWS39	008	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔	
25ONG309 FT OLNPS40	009	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔	
25ONG309 FT OLNPS40	009	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔	
25ONG309 FT OLLWS41	010	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔	
25ONG309 FT OLLWS41	010	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔	
25ONG309 FT OLWSS42	011	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔	
25ONG309 FT OLWSS42	011	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔	
25ONG309 FT OLWSS43	012	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔	
25ONG309 FT OLWSS43	012	2363281	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✔	02-Dec-2025	730 days	84 days	✔	
25ONG309 FT OLWSS44	013	2364090	E475	09-Sep-2025	02-Dec-2025	730 days	84 days	✔	02-Dec-2025	730 days	84 days	✔	
25ONG309 FT OLLWS45	014	2364090	E475	09-Sep-2025	02-Dec-2025	730 days	84 days	✔	02-Dec-2025	730 days	84 days	✔	
25ONG309 FT OLLWS46	015	2364090	E475	09-Sep-2025	02-Dec-2025	730 days	84 days	✔	02-Dec-2025	730 days	84 days	✔	
25ONG309 FT OLLWS47	016	2364090	E475	09-Sep-2025	02-Dec-2025	730 days	84 days	✔	02-Dec-2025	730 days	84 days	✔	
25ONG309 FT OLLWS48	017	2364090	E475	09-Sep-2025	02-Dec-2025	730 days	84 days	✔	02-Dec-2025	730 days	84 days	✔	
25ONG309 FT OLLWS49	018	2364090	E475	09-Sep-2025	02-Dec-2025	730 days	84 days	✔	02-Dec-2025	730 days	84 days	✔	
25ONG309 FT OLLWS50	019	2364090	E475	09-Sep-2025	02-Dec-2025	730 days	84 days	✔	02-Dec-2025	730 days	84 days	✔	



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Metals : Metals by CRC ICPMS (DRY units, Biopsy)												
LDPE bag												
25ONG309 FT OLLWS51	020	2364090	E475	09-Sep-2025	02-Dec-2025	730 days	84 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLNPS52	021	2364090	E475	09-Sep-2025	02-Dec-2025	730 days	84 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLWSS53	022	2364090	E475	09-Sep-2025	02-Dec-2025	730 days	84 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLWYS54	023	2364090	E475	09-Sep-2025	02-Dec-2025	730 days	84 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLWLS55	024	2364090	E475	09-Sep-2025	02-Dec-2025	730 days	84 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLWYS56	025	2364090	E475	09-Sep-2025	02-Dec-2025	730 days	84 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLWLS57	026	2364090	E475	09-Sep-2025	02-Dec-2025	730 days	84 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLWSS58	027	2364090	E475	09-Sep-2025	02-Dec-2025	730 days	84 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLWLS59	028	2364090	E475	09-Sep-2025	02-Dec-2025	730 days	84 days	✓	02-Dec-2025	730 days	84 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)												
LDPE bag												
25ONG309 FT OLWSS32	001	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLWSS32	001	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS33	002	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS33	002	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLWSS34	003	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLWSS34	003	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLWYS35	004	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method		QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID	ALS Sample ID											
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)												
LDPE bag												
25ONG309 FT OLWYS35	004	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS36	005	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS36	005	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS37	006	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS37	006	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS38	007	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS38	007	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS39	008	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS39	008	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLNPS40	009	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLNPS40	009	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS41	010	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLLWS41	010	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLWSS42	011	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLWSS42	011	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLWSS43	012	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLWSS43	012	2363280	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	84 days	✓
25ONG309 FT OLWSS44	013	2364089	E475A	09-Sep-2025	02-Dec-2025	730 days	84 days	✓	02-Dec-2025	730 days	84 days	✓



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)												
LDPE bag												
25ONG309 FT OLLWS45	014	2364089	E475A	09-Sep-2025	02-Dec-2025	730 days	84 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS46	015	2364089	E475A	09-Sep-2025	02-Dec-2025	730 days	84 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS47	016	2364089	E475A	09-Sep-2025	02-Dec-2025	730 days	84 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS48	017	2364089	E475A	09-Sep-2025	02-Dec-2025	730 days	84 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS49	018	2364089	E475A	09-Sep-2025	02-Dec-2025	730 days	84 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS50	019	2364089	E475A	09-Sep-2025	02-Dec-2025	730 days	84 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLLWS51	020	2364089	E475A	09-Sep-2025	02-Dec-2025	730 days	84 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLNPS52	021	2364089	E475A	09-Sep-2025	02-Dec-2025	730 days	84 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLWSS53	022	2364089	E475A	09-Sep-2025	02-Dec-2025	730 days	84 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLWYS54	023	2364089	E475A	09-Sep-2025	02-Dec-2025	730 days	84 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLWLS55	024	2364089	E475A	09-Sep-2025	02-Dec-2025	730 days	84 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLWYS56	025	2364089	E475A	09-Sep-2025	02-Dec-2025	730 days	84 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLWLS57	026	2364089	E475A	09-Sep-2025	02-Dec-2025	730 days	84 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLWSS58	027	2364089	E475A	09-Sep-2025	02-Dec-2025	730 days	84 days	✔	02-Dec-2025	730 days	84 days	✔
25ONG309 FT OLWLS59	028	2364089	E475A	09-Sep-2025	02-Dec-2025	730 days	84 days	✔	02-Dec-2025	730 days	84 days	✔
Physical Tests : Moisture Content by Gravimetry												
LDPE bag												
25ONG309 FT OLWSS32	001	2364125	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Physical Tests : Moisture Content by Gravimetry												
LDPE bag												
25ONG309 FT OLLWS33	002	2364125	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLWSS34	003	2364125	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLWYS35	004	2364125	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLLWS36	005	2364125	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLLWS37	006	2364125	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLLWS38	007	2364125	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLLWS39	008	2364125	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLNPS40	009	2364125	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLLWS41	010	2364125	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLWSS42	011	2364125	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLWSS43	012	2364125	E144	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT OLWSS44	013	2365371	E144	09-Sep-2025	----	----	----		02-Dec-2025	----	----	
25ONG309 FT OLLWS45	014	2365371	E144	09-Sep-2025	----	----	----		02-Dec-2025	----	----	
25ONG309 FT OLLWS46	015	2365371	E144	09-Sep-2025	----	----	----		02-Dec-2025	----	----	
25ONG309 FT OLLWS47	016	2365371	E144	09-Sep-2025	----	----	----		02-Dec-2025	----	----	
25ONG309 FT OLLWS48	017	2365371	E144	09-Sep-2025	----	----	----		02-Dec-2025	----	----	
25ONG309 FT OLLWS49	018	2365371	E144	09-Sep-2025	----	----	----		02-Dec-2025	----	----	
25ONG309 FT OLLWS50	019	2365371	E144	09-Sep-2025	----	----	----		02-Dec-2025	----	----	
25ONG309 FT OLLWS51	020	2365371	E144	09-Sep-2025	----	----	----		02-Dec-2025	----	----	



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Physical Tests : Moisture Content by Gravimetry												
LDPE bag												
25ONG309 FT OLNPS52	021	2365371	E144	09-Sep-2025	----	----	----		02-Dec-2025	----	----	
25ONG309 FT OLWSS53	022	2365371	E144	09-Sep-2025	----	----	----		02-Dec-2025	----	----	
25ONG309 FT OLWYS54	023	2365371	E144	09-Sep-2025	----	----	----		02-Dec-2025	----	----	
25ONG309 FT OLWLS55	024	2365371	E144	09-Sep-2025	----	----	----		02-Dec-2025	----	----	
25ONG309 FT OLWYS56	025	2365371	E144	09-Sep-2025	----	----	----		02-Dec-2025	----	----	
25ONG309 FT OLWLS57	026	2365371	E144	09-Sep-2025	----	----	----		02-Dec-2025	----	----	
25ONG309 FT OLWSS58	027	2365371	E144	09-Sep-2025	----	----	----		02-Dec-2025	----	----	
25ONG309 FT OLWLS59	028	2365371	E144	09-Sep-2025	----	----	----		02-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)												
LDPE bag												
25ONG309 FT OLWSS32	001	2353334	E144A	09-Sep-2025	----	----	----		24-Nov-2025	----	----	
25ONG309 FT OLLWS33	002	2353334	E144A	09-Sep-2025	----	----	----		24-Nov-2025	----	----	
25ONG309 FT OLWSS34	003	2353334	E144A	09-Sep-2025	----	----	----		24-Nov-2025	----	----	
25ONG309 FT OLWYS35	004	2353334	E144A	09-Sep-2025	----	----	----		24-Nov-2025	----	----	
25ONG309 FT OLLWS36	005	2353334	E144A	09-Sep-2025	----	----	----		24-Nov-2025	----	----	
25ONG309 FT OLLWS37	006	2353334	E144A	09-Sep-2025	----	----	----		24-Nov-2025	----	----	
25ONG309 FT OLLWS38	007	2353334	E144A	09-Sep-2025	----	----	----		24-Nov-2025	----	----	
25ONG309 FT OLLWS39	008	2353334	E144A	09-Sep-2025	----	----	----		24-Nov-2025	----	----	
25ONG309 FT OLNPS40	009	2353334	E144A	09-Sep-2025	----	----	----		24-Nov-2025	----	----	



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Physical Tests : Moisture Content by Gravimetry (Biopsy)												
LDPE bag												
25ONG309 FT OLLWS41	010	2353334	E144A	09-Sep-2025	----	----	----		24-Nov-2025	----	----	
25ONG309 FT OLWSS42	011	2353334	E144A	09-Sep-2025	----	----	----		24-Nov-2025	----	----	
25ONG309 FT OLWSS43	012	2353334	E144A	09-Sep-2025	----	----	----		24-Nov-2025	----	----	
25ONG309 FT OLWSS44	013	2354528	E144A	09-Sep-2025	----	----	----		25-Nov-2025	----	----	
25ONG309 FT OLLWS45	014	2354528	E144A	09-Sep-2025	----	----	----		25-Nov-2025	----	----	
25ONG309 FT OLLWS46	015	2354528	E144A	09-Sep-2025	----	----	----		25-Nov-2025	----	----	
25ONG309 FT OLLWS47	016	2354528	E144A	09-Sep-2025	----	----	----		25-Nov-2025	----	----	
25ONG309 FT OLLWS48	017	2354528	E144A	09-Sep-2025	----	----	----		25-Nov-2025	----	----	
25ONG309 FT OLLWS49	018	2354528	E144A	09-Sep-2025	----	----	----		25-Nov-2025	----	----	
25ONG309 FT OLLWS50	019	2354528	E144A	09-Sep-2025	----	----	----		25-Nov-2025	----	----	
25ONG309 FT OLLWS51	020	2354528	E144A	09-Sep-2025	----	----	----		25-Nov-2025	----	----	
25ONG309 FT OLNPS52	021	2354528	E144A	09-Sep-2025	----	----	----		25-Nov-2025	----	----	
25ONG309 FT OLWSS53	022	2354528	E144A	09-Sep-2025	----	----	----		25-Nov-2025	----	----	
25ONG309 FT OLWYS54	023	2354528	E144A	09-Sep-2025	----	----	----		25-Nov-2025	----	----	
25ONG309 FT OLWLS55	024	2354528	E144A	09-Sep-2025	----	----	----		25-Nov-2025	----	----	
25ONG309 FT OLWYS56	025	2354528	E144A	09-Sep-2025	----	----	----		25-Nov-2025	----	----	
25ONG309 FT OLWLS57	026	2354528	E144A	09-Sep-2025	----	----	----		25-Nov-2025	----	----	
25ONG309 FT OLWSS58	027	2354528	E144A	09-Sep-2025	----	----	----		25-Nov-2025	----	----	
25ONG309 FT OLWLS59	028	2354528	E144A	09-Sep-2025	----	----	----		25-Nov-2025	----	----	



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method					Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
Client sample ID						Rec	Actual			Rec	Actual	
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)												
LDPE bag												
25ONG309 FT OLWSS32	001	2364111	E538	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	03-Dec-2025	365 days	1 days	✔
25ONG309 FT OLLWS33	002	2364111	E538	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	03-Dec-2025	365 days	1 days	✔
25ONG309 FT OLWSS34	003	2364111	E538	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	03-Dec-2025	365 days	1 days	✔
25ONG309 FT OLWYS35	004	2364111	E538	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	03-Dec-2025	365 days	1 days	✔
25ONG309 FT OLLWS36	005	2364111	E538	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	03-Dec-2025	365 days	1 days	✔
25ONG309 FT OLLWS37	006	2364111	E538	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	03-Dec-2025	365 days	1 days	✔
25ONG309 FT OLLWS38	007	2364111	E538	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	03-Dec-2025	365 days	1 days	✔
25ONG309 FT OLLWS39	008	2364111	E538	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	03-Dec-2025	365 days	1 days	✔
25ONG309 FT OLNPS40	009	2364111	E538	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	03-Dec-2025	365 days	1 days	✔
25ONG309 FT OLLWS41	010	2364111	E538	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	03-Dec-2025	365 days	1 days	✔
25ONG309 FT OLWSS42	011	2364111	E538	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	03-Dec-2025	365 days	1 days	✔
25ONG309 FT OLWSS43	012	2364111	E538	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	03-Dec-2025	365 days	1 days	✔
25ONG309 FT OLWSS44	013	2364111	E538	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	03-Dec-2025	365 days	1 days	✔
25ONG309 FT OLLWS45	014	2364111	E538	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	03-Dec-2025	365 days	1 days	✔
25ONG309 FT OLLWS46	015	2364112	E538	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	03-Dec-2025	365 days	1 days	✔
25ONG309 FT OLLWS47	016	2364112	E538	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	03-Dec-2025	365 days	1 days	✔
25ONG309 FT OLLWS48	017	2364112	E538	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	03-Dec-2025	365 days	1 days	✔
25ONG309 FT OLLWS49	018	2364112	E538	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	03-Dec-2025	365 days	1 days	✔



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)												
LDPE bag												
25ONG309 FT OLLWS50	019	2364112	E538	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	03-Dec-2025	365 days	1 days	✔
25ONG309 FT OLLWS51	020	2364112	E538	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	03-Dec-2025	365 days	1 days	✔
25ONG309 FT OLNPS52	021	2396508	E538	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	03-Dec-2025	365 days	1 days	✔
25ONG309 FT OLWSS53	022	2364112	E538	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	03-Dec-2025	365 days	1 days	✔
25ONG309 FT OLWYS54	023	2364112	E538	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	03-Dec-2025	365 days	1 days	✔
25ONG309 FT OLWLS55	024	2364112	E538	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	03-Dec-2025	365 days	1 days	✔
25ONG309 FT OLWYS56	025	2364112	E538	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	03-Dec-2025	365 days	1 days	✔
25ONG309 FT OLWLS57	026	2364112	E538	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	03-Dec-2025	365 days	1 days	✔
25ONG309 FT OLWSS58	027	2364112	E538	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	03-Dec-2025	365 days	1 days	✔
25ONG309 FT OLWLS59	028	2364112	E538	09-Sep-2025	02-Dec-2025	365 days	84 days	✔	03-Dec-2025	365 days	1 days	✔

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: Biota

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)							
Moisture Content by Gravimetry	E144	2364125	0	36	0.0	5.0	✖
Methylmercury in Biota by GCAFS (DRY units, Routine)	E538	2364111	3	47	6.4	5.0	✔
Lipids by Gravimetry	E564B	2344814	2	40	5.0	5.0	✔
Laboratory Control Samples (LCS)							
Moisture Content by Gravimetry	E144	2364125	2	36	5.6	5.0	✔
Moisture Content by Gravimetry (Biopsy)	E144A	2353334	2	36	5.6	5.0	✔
Metals by CRC ICPMS (DRY units, Biopsy)	E475	2363281	4	36	11.1	10.0	✔
Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)	E475A	2363280	4	36	11.1	10.0	✔
Mercury in Biota by CVAAS (DRY units, Biopsy)	E512	2363282	4	36	11.1	10.0	✔
Mercury in Biota by CVAAS (Wet Weight, Biopsy)	E512A	2363279	4	36	11.1	10.0	✔
Methylmercury in Biota by GCAFS (DRY units, Routine)	E538	2364111	6	47	12.8	10.0	✔
Lipids by Gravimetry	E564B	2344814	2	40	5.0	5.0	✔
Method Blanks (MB)							
Moisture Content by Gravimetry	E144	2364125	2	36	5.6	5.0	✔
Moisture Content by Gravimetry (Biopsy)	E144A	2353334	2	36	5.6	5.0	✔
Metals by CRC ICPMS (DRY units, Biopsy)	E475	2363281	2	36	5.6	5.0	✔
Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)	E475A	2363280	2	36	5.6	5.0	✔
Mercury in Biota by CVAAS (DRY units, Biopsy)	E512	2363282	2	36	5.6	5.0	✔
Mercury in Biota by CVAAS (Wet Weight, Biopsy)	E512A	2363279	2	36	5.6	5.0	✔
Methylmercury in Biota by GCAFS (DRY units, Routine)	E538	2364111	3	47	6.4	5.0	✔
Lipids by Gravimetry	E564B	2344814	2	40	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
Lipids by Gravimetry	E564B ALS Environmental - Thunder Bay	Biota	EPA 8290A (mod)	Lipids are extracted from the sample, after which the extract is evaporated in a pre-weighed container and the mass of the residue is determined gravimetrically.
Mercury in Biota by CVAAS (DRY units, Biopsy)	E512 ALS Environmental - Thunder Bay	Biota	EPA 200.3/1631 Appendix (mod)	Samples are digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Analysis is by CVAAS.
Mercury in Biota by CVAAS (Wet Weight, Biopsy)	E512A ALS Environmental - Thunder Bay	Biota	EPA 200.3/1631 Appendix (mod)	Samples are homogenized digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Analysis is by CVAAS.
Metals by CRC ICPMS (DRY units, Biopsy)	E475 ALS Environmental - Thunder Bay	Biota	EPA 200.3/6020B (mod)	Samples are digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Analysis is by Collision/Reaction Cell ICPMS: This method employs a strong acid/peroxide digestion, and is intended to provide a conservative estimate of bio-available metals. Near complete recoveries are achieved for most toxicologically important metals, but elements associated with recalcitrant minerals may be only partially recovered.
Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)	E475A ALS Environmental - Thunder Bay	Biota	EPA 200.3/6020B (mod)	Samples are digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Analysis is by Collision/Reaction Cell ICPMS. Method Limitation: This method employs a strong acid/peroxide digestion, and is intended to provide a conservative estimate of bio-available metals. Near complete recoveries are achieved for most toxicologically important metals, but elements associated with recalcitrant minerals may be only partially recovered.
Methylmercury in Biota by GCAFS (DRY units, Routine)	E538 ALS Environmental - Thunder Bay	Biota	Liang et al. (1994)/EPA 1630 (mod)	This method follows the procedures published by Liang, Bloom and Horvat in Clinical Chemistry (Vol 40, No 4, 1994). Samples are homogenized and then digested in a methanolic potassium hydroxide solution. An aliquot of the digestate is analyzed by aqueous phase ethylation, purge and trap, desorption and GC separation. The separated species are then pyrolyzed to elemental Hg and quantified by cold vapour atomic fluorescence spectroscopy. Results are reported "as MeHg".
Moisture Content by Gravimetry	E144 ALS Environmental - Thunder Bay	Biota	ASTM Method D4638-16 (mod)	Moisture is measured gravimetrically by drying the sample at 105°C. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
Moisture Content by Gravimetry (Biopsy)	E144A ALS Environmental - Thunder Bay	Biota	ASTM Method D4638-16 (mod)	Moisture is measured gravimetrically by drying the sample at <60°C for a minimum of 3 days to constant weight. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Lipids Extraction by Tumbler	EP564 ALS Environmental - Thunder Bay	Biota	EPA 3570 (mod)	A homogenized biota sample is extracted with dichloromethane by a rotary extractor to yield sample's lipid content.
Metals and Mercury Biota Digestion (Biopsy)	EP475 ALS Environmental - Thunder Bay	Biota	EPA 200.3/200.8 (mod)	Samples are digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Method Limitation: This method employs a strong acid/peroxide digestion, and is intended to provide a conservative estimate of bio-available metals. Near complete recoveries are achieved for most toxicologically important metals, but elements associated with recalcitrant minerals may be only partially recovered.
Methylmercury Biota Preparation	EP538 ALS Environmental - Thunder Bay	Biota	Liang et al. (1994)	This method follows the procedures published by Liang, Bloom and Horvat in Clinical Chemistry (Vol 40, No 4, 1994). Samples are homogenized and then digested in a methanolic potassium hydroxide solution.

QUALITY CONTROL REPORT

Work Order	: TY2510927	Page	: 1 of 15
Client	: G3 Consulting Ltd.	Laboratory	: ALS Environmental - Thunder Bay
Contact	: Greg Thomas	Account Manager	: Christine Paradis
Address	: 206-8501 162nd St. Surrey BC Canada V4N 1B2	Address	: 1081 Barton Street Thunder Bay, Ontario Canada P7B 5N3
Telephone	: 604 598 8501	Telephone	: +1 807 623 6463
Project	: 2502	Date Samples Received	: 19-Sep-2025 16:54
PO	: 2502	Date Analysis Commenced	: 19-Nov-2025
C-O-C number	: ----	Issue Date	: 07-Jan-2026 13:48
Sampler	: ----		
Site	: ----		
Quote number	: Dubreuilville Project		
No. of samples received	: 28		
No. of samples analysed	: 28		

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
- Reference Material (RM) 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.

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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: Biota					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
Speciated Metals (QC Lot: 2364111)											
TY2510927-001	25ONG309 FT OLVSS32	Methylmercury (as MeHg)	22967-92-6	E538	5.0	µg/kg	258	295	13.3%	30%	----
Speciated Metals (QC Lot: 2364112)											
TY2510927-015	25ONG309 FT OLLWS46	Methylmercury (as MeHg)	22967-92-6	E538	5.0	µg/kg	433	465	6.95%	30%	----
Speciated Metals (QC Lot: 2396508)											
TY2510952-001	Anonymous	Methylmercury (as MeHg)	22967-92-6	E538	5.0	µg/kg	961	922	4.18%	30%	----
Aggregate Organics (QC Lot: 2344814)											
TY2510927-001	25ONG309 FT OLVSS32	Lipid content	----	E564B	0.50	% wwt	0.87	0.62	0.25	Diff <2x LOR	----
Aggregate Organics (QC Lot: 2346372)											
TY2510927-020	25ONG309 FT OLLWS51	Lipid content	----	E564B	0.50	% wwt	0.56	0.61	0.05	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: Biota

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 2353334)						
Moisture	----	E144A	2	%	<2.0	----
Physical Tests (QCLot: 2354528)						
Moisture	----	E144A	2	%	<2.0	----
Physical Tests (QCLot: 2364125)						
Moisture	----	E144	0.5	%	<0.50	----
Physical Tests (QCLot: 2365371)						
Moisture	----	E144	0.5	%	<0.50	----
Metals (QCLot: 2363279)						
Mercury	7439-97-6	E512A	0.002	mg/kg wwt	<0.0020	----
Metals (QCLot: 2363280)						
Aluminum	7429-90-5	E475A	1	mg/kg wwt	<1.0	----
Antimony	7440-36-0	E475A	0.004	mg/kg wwt	<0.0040	----
Arsenic	7440-38-2	E475A	0.01	mg/kg wwt	<0.010	----
Barium	7440-39-3	E475A	0.01	mg/kg wwt	<0.010	----
Beryllium	7440-41-7	E475A	0.002	mg/kg wwt	<0.0020	----
Bismuth	7440-69-9	E475A	0.002	mg/kg wwt	<0.0020	----
Boron	7440-42-8	E475A	0.2	mg/kg wwt	<0.20	----
Cadmium	7440-43-9	E475A	0.002	mg/kg wwt	<0.0020	----
Calcium	7440-70-2	E475A	4	mg/kg wwt	<4.0	----
Cesium	7440-46-2	E475A	0.001	mg/kg wwt	<0.0010	----
Chromium	7440-47-3	E475A	0.04	mg/kg wwt	<0.040	----
Cobalt	7440-48-4	E475A	0.004	mg/kg wwt	<0.0040	----
Copper	7440-50-8	E475A	0.04	mg/kg wwt	<0.040	----
Iron	7439-89-6	E475A	1	mg/kg wwt	<1.0	----
Lead	7439-92-1	E475A	0.01	mg/kg wwt	<0.010	----
Lithium	7439-93-2	E475A	0.1	mg/kg wwt	<0.10	----
Magnesium	7439-95-4	E475A	0.4	mg/kg wwt	<0.40	----
Manganese	7439-96-5	E475A	0.01	mg/kg wwt	<0.010	----
Molybdenum	7439-98-7	E475A	0.008	mg/kg wwt	<0.0080	----
Nickel	7440-02-0	E475A	0.04	mg/kg wwt	<0.040	----
Phosphorus	7723-14-0	E475A	4	mg/kg wwt	<4.0	----



Sub-Matrix: Biota

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 2363280) - continued						
Potassium	7440-09-7	E475A	4	mg/kg ww	<4.0	----
Rubidium	7440-17-7	E475A	0.01	mg/kg ww	<0.010	----
Selenium	7782-49-2	E475A	0.02	mg/kg ww	<0.020	----
Sodium	7440-23-5	E475A	4	mg/kg ww	<4.0	----
Strontium	7440-24-6	E475A	0.02	mg/kg ww	<0.020	----
Tellurium	13494-80-9	E475A	0.004	mg/kg ww	<0.0040	----
Thallium	7440-28-0	E475A	0.0004	mg/kg ww	<0.00040	----
Tin	7440-31-5	E475A	0.02	mg/kg ww	<0.020	----
Uranium	7440-61-1	E475A	0.0004	mg/kg ww	<0.00040	----
Vanadium	7440-62-2	E475A	0.02	mg/kg ww	<0.020	----
Zinc	7440-66-6	E475A	0.2	mg/kg ww	<0.20	----
Zirconium	7440-67-7	E475A	0.04	mg/kg ww	<0.040	----
Metals (QCLot: 2363281)						
Aluminum	7429-90-5	E475	5	mg/kg	<5.0	----
Antimony	7440-36-0	E475	0.02	mg/kg	<0.020	----
Arsenic	7440-38-2	E475	0.05	mg/kg	<0.050	----
Barium	7440-39-3	E475	0.05	mg/kg	<0.050	----
Beryllium	7440-41-7	E475	0.01	mg/kg	<0.010	----
Bismuth	7440-69-9	E475	0.01	mg/kg	<0.010	----
Boron	7440-42-8	E475	1	mg/kg	<1.0	----
Cadmium	7440-43-9	E475	0.01	mg/kg	<0.010	----
Calcium	7440-70-2	E475	20	mg/kg	<20	----
Cesium	7440-46-2	E475	0.005	mg/kg	<0.0050	----
Chromium	7440-47-3	E475	0.2	mg/kg	<0.20	----
Cobalt	7440-48-4	E475	0.02	mg/kg	<0.020	----
Copper	7440-50-8	E475	0.2	mg/kg	<0.20	----
Iron	7439-89-6	E475	5	mg/kg	<5.0	----
Lead	7439-92-1	E475	0.05	mg/kg	<0.050	----
Lithium	7439-93-2	E475	0.5	mg/kg	<0.50	----
Magnesium	7439-95-4	E475	2	mg/kg	<2.0	----
Manganese	7439-96-5	E475	0.05	mg/kg	<0.050	----
Molybdenum	7439-98-7	E475	0.04	mg/kg	<0.040	----
Nickel	7440-02-0	E475	0.2	mg/kg	<0.20	----
Phosphorus	7723-14-0	E475	20	mg/kg	<20	----
Potassium	7440-09-7	E475	20	mg/kg	<20	----



Sub-Matrix: Biota

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 2363281) - continued						
Rubidium	7440-17-7	E475	0.05	mg/kg	<0.050	----
Selenium	7782-49-2	E475	0.1	mg/kg	<0.10	----
Sodium	7440-23-5	E475	20	mg/kg	<20	----
Strontium	7440-24-6	E475	0.1	mg/kg	<0.10	----
Tellurium	13494-80-9	E475	0.02	mg/kg	<0.020	----
Thallium	7440-28-0	E475	0.002	mg/kg	<0.0020	----
Tin	7440-31-5	E475	0.1	mg/kg	<0.10	----
Uranium	7440-61-1	E475	0.002	mg/kg	<0.0020	----
Vanadium	7440-62-2	E475	0.1	mg/kg	<0.10	----
Zinc	7440-66-6	E475	1	mg/kg	<1.0	----
Zirconium	7440-67-7	E475	0.2	mg/kg	<0.20	----
Metals (QCLot: 2363282)						
Mercury	7439-97-6	E512	0.01	mg/kg	<0.010	----
Metals (QCLot: 2364088)						
Mercury	7439-97-6	E512A	0.002	mg/kg ww	<0.0020	----
Metals (QCLot: 2364089)						
Aluminum	7429-90-5	E475A	1	mg/kg ww	<1.0	----
Antimony	7440-36-0	E475A	0.004	mg/kg ww	<0.0040	----
Arsenic	7440-38-2	E475A	0.01	mg/kg ww	<0.010	----
Barium	7440-39-3	E475A	0.01	mg/kg ww	<0.010	----
Beryllium	7440-41-7	E475A	0.002	mg/kg ww	<0.0020	----
Bismuth	7440-69-9	E475A	0.002	mg/kg ww	<0.0020	----
Boron	7440-42-8	E475A	0.2	mg/kg ww	<0.20	----
Cadmium	7440-43-9	E475A	0.002	mg/kg ww	<0.0020	----
Calcium	7440-70-2	E475A	4	mg/kg ww	<4.0	----
Cesium	7440-46-2	E475A	0.001	mg/kg ww	<0.0010	----
Chromium	7440-47-3	E475A	0.04	mg/kg ww	<0.040	----
Cobalt	7440-48-4	E475A	0.004	mg/kg ww	<0.0040	----
Copper	7440-50-8	E475A	0.04	mg/kg ww	<0.040	----
Iron	7439-89-6	E475A	1	mg/kg ww	<1.0	----
Lead	7439-92-1	E475A	0.01	mg/kg ww	<0.010	----
Lithium	7439-93-2	E475A	0.1	mg/kg ww	<0.10	----
Magnesium	7439-95-4	E475A	0.4	mg/kg ww	<0.40	----
Manganese	7439-96-5	E475A	0.01	mg/kg ww	<0.010	----
Molybdenum	7439-98-7	E475A	0.008	mg/kg ww	<0.0080	----



Sub-Matrix: Biota

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 2364089) - continued						
Nickel	7440-02-0	E475A	0.04	mg/kg ww	<0.040	----
Phosphorus	7723-14-0	E475A	4	mg/kg ww	<4.0	----
Potassium	7440-09-7	E475A	4	mg/kg ww	<4.0	----
Rubidium	7440-17-7	E475A	0.01	mg/kg ww	<0.010	----
Selenium	7782-49-2	E475A	0.02	mg/kg ww	<0.020	----
Sodium	7440-23-5	E475A	4	mg/kg ww	<4.0	----
Strontium	7440-24-6	E475A	0.02	mg/kg ww	<0.020	----
Tellurium	13494-80-9	E475A	0.004	mg/kg ww	<0.0040	----
Thallium	7440-28-0	E475A	0.0004	mg/kg ww	<0.00040	----
Tin	7440-31-5	E475A	0.02	mg/kg ww	<0.020	----
Uranium	7440-61-1	E475A	0.0004	mg/kg ww	<0.00040	----
Vanadium	7440-62-2	E475A	0.02	mg/kg ww	<0.020	----
Zinc	7440-66-6	E475A	0.2	mg/kg ww	<0.20	----
Zirconium	7440-67-7	E475A	0.04	mg/kg ww	<0.040	----
Metals (QCLot: 2364090)						
Aluminum	7429-90-5	E475	5	mg/kg	<5.0	----
Antimony	7440-36-0	E475	0.02	mg/kg	<0.020	----
Arsenic	7440-38-2	E475	0.05	mg/kg	<0.050	----
Barium	7440-39-3	E475	0.05	mg/kg	<0.050	----
Beryllium	7440-41-7	E475	0.01	mg/kg	<0.010	----
Bismuth	7440-69-9	E475	0.01	mg/kg	<0.010	----
Boron	7440-42-8	E475	1	mg/kg	<1.0	----
Cadmium	7440-43-9	E475	0.01	mg/kg	<0.010	----
Calcium	7440-70-2	E475	20	mg/kg	<20	----
Cesium	7440-46-2	E475	0.005	mg/kg	<0.0050	----
Chromium	7440-47-3	E475	0.2	mg/kg	<0.20	----
Cobalt	7440-48-4	E475	0.02	mg/kg	<0.020	----
Copper	7440-50-8	E475	0.2	mg/kg	<0.20	----
Iron	7439-89-6	E475	5	mg/kg	<5.0	----
Lead	7439-92-1	E475	0.05	mg/kg	<0.050	----
Lithium	7439-93-2	E475	0.5	mg/kg	<0.50	----
Magnesium	7439-95-4	E475	2	mg/kg	<2.0	----
Manganese	7439-96-5	E475	0.05	mg/kg	<0.050	----
Molybdenum	7439-98-7	E475	0.04	mg/kg	<0.040	----
Nickel	7440-02-0	E475	0.2	mg/kg	<0.20	----



Sub-Matrix: Biota

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 2364090) - continued						
Phosphorus	7723-14-0	E475	20	mg/kg	<20	----
Potassium	7440-09-7	E475	20	mg/kg	<20	----
Rubidium	7440-17-7	E475	0.05	mg/kg	<0.050	----
Selenium	7782-49-2	E475	0.1	mg/kg	<0.10	----
Sodium	7440-23-5	E475	20	mg/kg	<20	----
Strontium	7440-24-6	E475	0.1	mg/kg	<0.10	----
Tellurium	13494-80-9	E475	0.02	mg/kg	<0.020	----
Thallium	7440-28-0	E475	0.002	mg/kg	<0.0020	----
Tin	7440-31-5	E475	0.1	mg/kg	<0.10	----
Uranium	7440-61-1	E475	0.002	mg/kg	<0.0020	----
Vanadium	7440-62-2	E475	0.1	mg/kg	<0.10	----
Zinc	7440-66-6	E475	1	mg/kg	<1.0	----
Zirconium	7440-67-7	E475	0.2	mg/kg	<0.20	----
Metals (QCLot: 2364091)						
Mercury	7439-97-6	E512	0.01	mg/kg	<0.010	----
Speciated Metals (QCLot: 2364111)						
Methylmercury (as MeHg)	22967-92-6	E538	5	µg/kg	<5.0	----
Speciated Metals (QCLot: 2364112)						
Methylmercury (as MeHg)	22967-92-6	E538	5	µg/kg	<5.0	----
Speciated Metals (QCLot: 2396508)						
Methylmercury (as MeHg)	22967-92-6	E538	5	µg/kg	<5.0	----
Aggregate Organics (QCLot: 2344814)						
Lipid content	----	E564B	0.5	% wwt	<0.50	----
Aggregate Organics (QCLot: 2346372)						
Lipid content	----	E564B	0.5	% wwt	<0.50	----



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: Biota

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 2353334)									
Moisture	----	E144A	2	%	100 %	100	90.0	110	----
Physical Tests (QCLot: 2354528)									
Moisture	----	E144A	2	%	100 %	100	90.0	110	----
Physical Tests (QCLot: 2364125)									
Moisture	----	E144	0.5	%	100 %	100	90.0	110	----
Physical Tests (QCLot: 2365371)									
Moisture	----	E144	0.5	%	100 %	100	90.0	110	----
Metals (QCLot: 2363279)									
Mercury	7439-97-6	E512A	0.002	mg/kg wwt	0.05 mg/kg wwt	90.2	80.0	120	----
Metals (QCLot: 2363280)									
Aluminum	7429-90-5	E475A	1	mg/kg wwt	50 mg/kg wwt	97.6	80.0	120	----
Antimony	7440-36-0	E475A	0.004	mg/kg wwt	25 mg/kg wwt	94.0	80.0	120	----
Arsenic	7440-38-2	E475A	0.01	mg/kg wwt	25 mg/kg wwt	92.7	80.0	120	----
Barium	7440-39-3	E475A	0.01	mg/kg wwt	6.25 mg/kg wwt	96.8	80.0	120	----
Beryllium	7440-41-7	E475A	0.002	mg/kg wwt	2.5 mg/kg wwt	91.9	80.0	120	----
Bismuth	7440-69-9	E475A	0.002	mg/kg wwt	25 mg/kg wwt	94.2	80.0	120	----
Boron	7440-42-8	E475A	0.2	mg/kg wwt	25 mg/kg wwt	92.5	80.0	120	----
Cadmium	7440-43-9	E475A	0.002	mg/kg wwt	2.5 mg/kg wwt	90.6	80.0	120	----
Calcium	7440-70-2	E475A	4	mg/kg wwt	1250 mg/kg wwt	91.9	80.0	120	----
Cesium	7440-46-2	E475A	0.001	mg/kg wwt	1.25 mg/kg wwt	96.4	80.0	120	----
Chromium	7440-47-3	E475A	0.04	mg/kg wwt	6.25 mg/kg wwt	96.3	80.0	120	----
Cobalt	7440-48-4	E475A	0.004	mg/kg wwt	6.25 mg/kg wwt	94.8	80.0	120	----
Copper	7440-50-8	E475A	0.04	mg/kg wwt	6.25 mg/kg wwt	91.6	80.0	120	----
Iron	7439-89-6	E475A	1	mg/kg wwt	25 mg/kg wwt	95.3	80.0	120	----
Lead	7439-92-1	E475A	0.01	mg/kg wwt	12.5 mg/kg wwt	92.1	80.0	120	----
Lithium	7439-93-2	E475A	0.1	mg/kg wwt	6.25 mg/kg wwt	92.5	80.0	120	----
Magnesium	7439-95-4	E475A	0.4	mg/kg wwt	1250 mg/kg wwt	92.8	80.0	120	----
Manganese	7439-96-5	E475A	0.01	mg/kg wwt	6.25 mg/kg wwt	95.8	80.0	120	----
Molybdenum	7439-98-7	E475A	0.008	mg/kg wwt	6.25 mg/kg wwt	97.7	80.0	120	----
Nickel	7440-02-0	E475A	0.04	mg/kg wwt	12.5 mg/kg wwt	92.9	80.0	120	----
Phosphorus	7723-14-0	E475A	4	mg/kg wwt	250 mg/kg wwt	97.6	80.0	120	----



Sub-Matrix: Biota

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 2363280) - continued									
Potassium	7440-09-7	E475A	4	mg/kg wwt	1250 mg/kg wwt	95.7	80.0	120	----
Rubidium	7440-17-7	E475A	0.01	mg/kg wwt	2.5 mg/kg wwt	97.3	80.0	120	----
Selenium	7782-49-2	E475A	0.02	mg/kg wwt	25 mg/kg wwt	89.4	80.0	120	----
Sodium	7440-23-5	E475A	4	mg/kg wwt	1250 mg/kg wwt	97.0	80.0	120	----
Strontium	7440-24-6	E475A	0.02	mg/kg wwt	6.25 mg/kg wwt	101	80.0	120	----
Tellurium	13494-80-9	E475A	0.004	mg/kg wwt	2.5 mg/kg wwt	90.2	80.0	120	----
Thallium	7440-28-0	E475A	0.0004	mg/kg wwt	25 mg/kg wwt	93.1	80.0	120	----
Tin	7440-31-5	E475A	0.02	mg/kg wwt	12.5 mg/kg wwt	90.3	80.0	120	----
Uranium	7440-61-1	E475A	0.0004	mg/kg wwt	0.125 mg/kg wwt	93.1	80.0	120	----
Vanadium	7440-62-2	E475A	0.02	mg/kg wwt	12.5 mg/kg wwt	99.1	80.0	120	----
Zinc	7440-66-6	E475A	0.2	mg/kg wwt	12.5 mg/kg wwt	91.2	80.0	120	----
Zirconium	7440-67-7	E475A	0.04	mg/kg wwt	2.5 mg/kg wwt	96.2	80.0	120	----
Metals (QCLot: 2363281)									
Aluminum	7429-90-5	E475	5	mg/kg	50 mg/kg	97.6	80.0	120	----
Antimony	7440-36-0	E475	0.02	mg/kg	25 mg/kg	94.0	80.0	120	----
Arsenic	7440-38-2	E475	0.05	mg/kg	25 mg/kg	92.7	80.0	120	----
Barium	7440-39-3	E475	0.05	mg/kg	6.25 mg/kg	96.8	80.0	120	----
Beryllium	7440-41-7	E475	0.01	mg/kg	2.5 mg/kg	91.9	80.0	120	----
Bismuth	7440-69-9	E475	0.01	mg/kg	25 mg/kg	94.2	80.0	120	----
Boron	7440-42-8	E475	1	mg/kg	25 mg/kg	92.5	80.0	120	----
Cadmium	7440-43-9	E475	0.01	mg/kg	2.5 mg/kg	90.6	80.0	120	----
Calcium	7440-70-2	E475	20	mg/kg	1250 mg/kg	91.9	80.0	120	----
Cesium	7440-46-2	E475	0.005	mg/kg	1.25 mg/kg	96.4	80.0	120	----
Chromium	7440-47-3	E475	0.2	mg/kg	6.25 mg/kg	96.3	80.0	120	----
Cobalt	7440-48-4	E475	0.02	mg/kg	6.25 mg/kg	94.8	80.0	120	----
Copper	7440-50-8	E475	0.2	mg/kg	6.25 mg/kg	91.6	80.0	120	----
Iron	7439-89-6	E475	5	mg/kg	25 mg/kg	95.3	80.0	120	----
Lead	7439-92-1	E475	0.05	mg/kg	12.5 mg/kg	92.1	80.0	120	----
Lithium	7439-93-2	E475	0.5	mg/kg	6.25 mg/kg	92.5	80.0	120	----
Magnesium	7439-95-4	E475	2	mg/kg	1250 mg/kg	92.8	80.0	120	----
Manganese	7439-96-5	E475	0.05	mg/kg	6.25 mg/kg	95.8	80.0	120	----
Molybdenum	7439-98-7	E475	0.04	mg/kg	6.25 mg/kg	97.7	80.0	120	----
Nickel	7440-02-0	E475	0.2	mg/kg	12.5 mg/kg	92.9	80.0	120	----
Phosphorus	7723-14-0	E475	20	mg/kg	250 mg/kg	97.6	80.0	120	----
Potassium	7440-09-7	E475	20	mg/kg	1250 mg/kg	95.7	80.0	120	----
Rubidium	7440-17-7	E475	0.05	mg/kg	2.5 mg/kg	97.3	80.0	120	----



Sub-Matrix: Biota

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 2363281) - continued									
Selenium	7782-49-2	E475	0.1	mg/kg	25 mg/kg	89.4	80.0	120	----
Sodium	7440-23-5	E475	20	mg/kg	1250 mg/kg	97.0	80.0	120	----
Strontium	7440-24-6	E475	0.1	mg/kg	6.25 mg/kg	101	80.0	120	----
Tellurium	13494-80-9	E475	0.02	mg/kg	2.5 mg/kg	90.2	80.0	120	----
Thallium	7440-28-0	E475	0.002	mg/kg	25 mg/kg	93.1	80.0	120	----
Tin	7440-31-5	E475	0.1	mg/kg	12.5 mg/kg	90.3	80.0	120	----
Uranium	7440-61-1	E475	0.002	mg/kg	0.125 mg/kg	93.1	80.0	120	----
Vanadium	7440-62-2	E475	0.1	mg/kg	12.5 mg/kg	99.1	80.0	120	----
Zinc	7440-66-6	E475	1	mg/kg	12.5 mg/kg	91.2	80.0	120	----
Zirconium	7440-67-7	E475	0.2	mg/kg	2.5 mg/kg	96.2	80.0	120	----
Metals (QCLot: 2363282)									
Mercury	7439-97-6	E512	0.01	mg/kg	0.05 mg/kg	90.2	80.0	120	----
Metals (QCLot: 2364088)									
Mercury	7439-97-6	E512A	0.002	mg/kg wwt	0.05 mg/kg wwt	98.7	80.0	120	----
Metals (QCLot: 2364089)									
Aluminum	7429-90-5	E475A	1	mg/kg wwt	50 mg/kg wwt	103	80.0	120	----
Antimony	7440-36-0	E475A	0.004	mg/kg wwt	25 mg/kg wwt	102	80.0	120	----
Arsenic	7440-38-2	E475A	0.01	mg/kg wwt	25 mg/kg wwt	101	80.0	120	----
Barium	7440-39-3	E475A	0.01	mg/kg wwt	6.25 mg/kg wwt	105	80.0	120	----
Beryllium	7440-41-7	E475A	0.002	mg/kg wwt	2.5 mg/kg wwt	99.3	80.0	120	----
Bismuth	7440-69-9	E475A	0.002	mg/kg wwt	25 mg/kg wwt	97.3	80.0	120	----
Boron	7440-42-8	E475A	0.2	mg/kg wwt	25 mg/kg wwt	99.8	80.0	120	----
Cadmium	7440-43-9	E475A	0.002	mg/kg wwt	2.5 mg/kg wwt	98.1	80.0	120	----
Calcium	7440-70-2	E475A	4	mg/kg wwt	1250 mg/kg wwt	99.2	80.0	120	----
Cesium	7440-46-2	E475A	0.001	mg/kg wwt	1.25 mg/kg wwt	107	80.0	120	----
Chromium	7440-47-3	E475A	0.04	mg/kg wwt	6.25 mg/kg wwt	102	80.0	120	----
Cobalt	7440-48-4	E475A	0.004	mg/kg wwt	6.25 mg/kg wwt	99.5	80.0	120	----
Copper	7440-50-8	E475A	0.04	mg/kg wwt	6.25 mg/kg wwt	96.9	80.0	120	----
Iron	7439-89-6	E475A	1	mg/kg wwt	25 mg/kg wwt	116	80.0	120	----
Lead	7439-92-1	E475A	0.01	mg/kg wwt	12.5 mg/kg wwt	97.4	80.0	120	----
Lithium	7439-93-2	E475A	0.1	mg/kg wwt	6.25 mg/kg wwt	104	80.0	120	----
Magnesium	7439-95-4	E475A	0.4	mg/kg wwt	1250 mg/kg wwt	97.8	80.0	120	----
Manganese	7439-96-5	E475A	0.01	mg/kg wwt	6.25 mg/kg wwt	101	80.0	120	----
Molybdenum	7439-98-7	E475A	0.008	mg/kg wwt	6.25 mg/kg wwt	109	80.0	120	----
Nickel	7440-02-0	E475A	0.04	mg/kg wwt	12.5 mg/kg wwt	98.1	80.0	120	----
Phosphorus	7723-14-0	E475A	4	mg/kg wwt	250 mg/kg wwt	106	80.0	120	----



Sub-Matrix: Biota

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 2364089) - continued									
Potassium	7440-09-7	E475A	4	mg/kg wwt	1250 mg/kg wwt	101	80.0	120	----
Rubidium	7440-17-7	E475A	0.01	mg/kg wwt	2.5 mg/kg wwt	103	80.0	120	----
Selenium	7782-49-2	E475A	0.02	mg/kg wwt	25 mg/kg wwt	96.0	80.0	120	----
Sodium	7440-23-5	E475A	4	mg/kg wwt	1250 mg/kg wwt	101	80.0	120	----
Strontium	7440-24-6	E475A	0.02	mg/kg wwt	6.25 mg/kg wwt	107	80.0	120	----
Tellurium	13494-80-9	E475A	0.004	mg/kg wwt	2.5 mg/kg wwt	99.0	80.0	120	----
Thallium	7440-28-0	E475A	0.0004	mg/kg wwt	25 mg/kg wwt	95.6	80.0	120	----
Tin	7440-31-5	E475A	0.02	mg/kg wwt	12.5 mg/kg wwt	101	80.0	120	----
Uranium	7440-61-1	E475A	0.0004	mg/kg wwt	0.125 mg/kg wwt	98.0	80.0	120	----
Vanadium	7440-62-2	E475A	0.02	mg/kg wwt	12.5 mg/kg wwt	104	80.0	120	----
Zinc	7440-66-6	E475A	0.2	mg/kg wwt	12.5 mg/kg wwt	96.5	80.0	120	----
Zirconium	7440-67-7	E475A	0.04	mg/kg wwt	2.5 mg/kg wwt	105	80.0	120	----
Metals (QCLot: 2364090)									
Aluminum	7429-90-5	E475	5	mg/kg	50 mg/kg	103	80.0	120	----
Antimony	7440-36-0	E475	0.02	mg/kg	25 mg/kg	102	80.0	120	----
Arsenic	7440-38-2	E475	0.05	mg/kg	25 mg/kg	101	80.0	120	----
Barium	7440-39-3	E475	0.05	mg/kg	6.25 mg/kg	105	80.0	120	----
Beryllium	7440-41-7	E475	0.01	mg/kg	2.5 mg/kg	99.3	80.0	120	----
Bismuth	7440-69-9	E475	0.01	mg/kg	25 mg/kg	97.3	80.0	120	----
Boron	7440-42-8	E475	1	mg/kg	25 mg/kg	99.8	80.0	120	----
Cadmium	7440-43-9	E475	0.01	mg/kg	2.5 mg/kg	98.1	80.0	120	----
Calcium	7440-70-2	E475	20	mg/kg	1250 mg/kg	99.2	80.0	120	----
Cesium	7440-46-2	E475	0.005	mg/kg	1.25 mg/kg	107	80.0	120	----
Chromium	7440-47-3	E475	0.2	mg/kg	6.25 mg/kg	102	80.0	120	----
Cobalt	7440-48-4	E475	0.02	mg/kg	6.25 mg/kg	99.5	80.0	120	----
Copper	7440-50-8	E475	0.2	mg/kg	6.25 mg/kg	96.9	80.0	120	----
Iron	7439-89-6	E475	5	mg/kg	25 mg/kg	116	80.0	120	----
Lead	7439-92-1	E475	0.05	mg/kg	12.5 mg/kg	97.4	80.0	120	----
Lithium	7439-93-2	E475	0.5	mg/kg	6.25 mg/kg	104	80.0	120	----
Magnesium	7439-95-4	E475	2	mg/kg	1250 mg/kg	97.8	80.0	120	----
Manganese	7439-96-5	E475	0.05	mg/kg	6.25 mg/kg	101	80.0	120	----
Molybdenum	7439-98-7	E475	0.04	mg/kg	6.25 mg/kg	109	80.0	120	----
Nickel	7440-02-0	E475	0.2	mg/kg	12.5 mg/kg	98.1	80.0	120	----
Phosphorus	7723-14-0	E475	20	mg/kg	250 mg/kg	106	80.0	120	----
Potassium	7440-09-7	E475	20	mg/kg	1250 mg/kg	101	80.0	120	----
Rubidium	7440-17-7	E475	0.05	mg/kg	2.5 mg/kg	103	80.0	120	----



Sub-Matrix: Biota					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
					Target Concentration	LCS	Low	High	Qualifier
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 2364090) - continued									
Selenium	7782-49-2	E475	0.1	mg/kg	25 mg/kg	96.0	80.0	120	----
Sodium	7440-23-5	E475	20	mg/kg	1250 mg/kg	101	80.0	120	----
Strontium	7440-24-6	E475	0.1	mg/kg	6.25 mg/kg	107	80.0	120	----
Tellurium	13494-80-9	E475	0.02	mg/kg	2.5 mg/kg	99.0	80.0	120	----
Thallium	7440-28-0	E475	0.002	mg/kg	25 mg/kg	95.6	80.0	120	----
Tin	7440-31-5	E475	0.1	mg/kg	12.5 mg/kg	101	80.0	120	----
Uranium	7440-61-1	E475	0.002	mg/kg	0.125 mg/kg	98.0	80.0	120	----
Vanadium	7440-62-2	E475	0.1	mg/kg	12.5 mg/kg	104	80.0	120	----
Zinc	7440-66-6	E475	1	mg/kg	12.5 mg/kg	96.5	80.0	120	----
Zirconium	7440-67-7	E475	0.2	mg/kg	2.5 mg/kg	105	80.0	120	----
Metals (QCLot: 2364091)									
Mercury	7439-97-6	E512	0.01	mg/kg	0.05 mg/kg	98.7	80.0	120	----
Speciated Metals (QCLot: 2364111)									
Methylmercury (as MeHg)	22967-92-6	E538	5	µg/kg	100 µg/kg	82.6	70.0	130	----
Speciated Metals (QCLot: 2364112)									
Methylmercury (as MeHg)	22967-92-6	E538	5	µg/kg	100 µg/kg	96.9	70.0	130	----
Speciated Metals (QCLot: 2396508)									
Methylmercury (as MeHg)	22967-92-6	E538	5	µg/kg	100 µg/kg	100.0	70.0	130	----
Aggregate Organics (QCLot: 2344814)									
Lipid content	----	E564B	0.5	% wwt	99 % wwt	103	70.0	130	----
Aggregate Organics (QCLot: 2346372)									
Lipid content	----	E564B	0.5	% wwt	98.5 % wwt	98.1	70.0	130	----



Reference Material (RM) Report

A Reference Material (RM) is a homogenous material with known and well-established analyte concentrations. RMs are processed in an identical manner to test samples, and are used to monitor and control the accuracy and precision of a test method for a typical sample matrix. RM results are expressed as percent recovery of the target analyte concentration. RM targets may be certified target concentrations provided by the RM supplier, or may be ALS long-term mean values (for empirical test methods).

Sub-Matrix:

Sub-Matrix:					Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method			Low	High	
Metals (QCLot: 2363279)									
QC-2363279-003	RM	Mercury	7439-97-6	E512A	0.281 mg/kg wwt	86.4	70.0	130	----
Metals (QCLot: 2363280)									
QC-2363280-003	RM	Aluminum	7429-90-5	E475A	147 mg/kg wwt	91.3	70.0	130	----
QC-2363280-003	RM	Arsenic	7440-38-2	E475A	14.5 mg/kg wwt	95.4	70.0	130	----
QC-2363280-003	RM	Barium	7440-39-3	E475A	0.352 mg/kg wwt	89.5	70.0	130	----
QC-2363280-003	RM	Boron	7440-42-8	E475A	3.47 mg/kg wwt	97.1	70.0	130	----
QC-2363280-003	RM	Cadmium	7440-43-9	E475A	0.153 mg/kg wwt	94.4	70.0	130	----
QC-2363280-003	RM	Calcium	7440-70-2	E475A	2010 mg/kg wwt	91.0	70.0	130	----
QC-2363280-003	RM	Cesium	7440-46-2	E475A	0.089 mg/kg wwt	91.7	70.0	130	----
QC-2363280-003	RM	Copper	7440-50-8	E475A	3.3 mg/kg wwt	91.6	70.0	130	----
QC-2363280-003	RM	Iron	7439-89-6	E475A	102 mg/kg wwt	89.8	70.0	130	----
QC-2363280-003	RM	Lead	7439-92-1	E475A	0.058 mg/kg wwt	88.3	15.0	185	----
QC-2363280-003	RM	Magnesium	7439-95-4	E475A	899 mg/kg wwt	91.8	70.0	130	----
QC-2363280-003	RM	Manganese	7439-96-5	E475A	0.948 mg/kg wwt	89.7	70.0	130	----
QC-2363280-003	RM	Molybdenum	7439-98-7	E475A	0.134 mg/kg wwt	98.7	70.0	130	----
QC-2363280-003	RM	Phosphorus	7723-14-0	E475A	6700 mg/kg wwt	97.8	70.0	130	----
QC-2363280-003	RM	Potassium	7440-09-7	E475A	11600 mg/kg wwt	95.3	70.0	130	----
QC-2363280-003	RM	Rubidium	7440-17-7	E475A	2.53 mg/kg wwt	92.7	70.0	130	----
QC-2363280-003	RM	Selenium	7782-49-2	E475A	2.48 mg/kg wwt	99.7	70.0	130	----
QC-2363280-003	RM	Sodium	7440-23-5	E475A	9620 mg/kg wwt	95.3	70.0	130	----
QC-2363280-003	RM	Strontium	7440-24-6	E475A	10.6 mg/kg wwt	90.5	70.0	130	----
QC-2363280-003	RM	Vanadium	7440-62-2	E475A	0.269 mg/kg wwt	93.7	70.0	130	----
QC-2363280-003	RM	Zinc	7440-66-6	E475A	28.7 mg/kg wwt	94.8	70.0	130	----
Metals (QCLot: 2363281)									
QC-2363281-003	RM	Aluminum	7429-90-5	E475	147 mg/kg	91.3	70.0	130	----
QC-2363281-003	RM	Arsenic	7440-38-2	E475	14.5 mg/kg	95.4	70.0	130	----
QC-2363281-003	RM	Barium	7440-39-3	E475	0.352 mg/kg	89.5	70.0	130	----
QC-2363281-003	RM	Boron	7440-42-8	E475	3.47 mg/kg	97.1	70.0	130	----
QC-2363281-003	RM	Cadmium	7440-43-9	E475	0.153 mg/kg	94.4	70.0	130	----
QC-2363281-003	RM	Calcium	7440-70-2	E475	2010 mg/kg	91.0	70.0	130	----
QC-2363281-003	RM	Cesium	7440-46-2	E475	0.089 mg/kg	91.7	70.0	130	----
QC-2363281-003	RM	Copper	7440-50-8	E475	3.3 mg/kg	91.6	70.0	130	----
QC-2363281-003	RM	Iron	7439-89-6	E475	102 mg/kg	89.8	70.0	130	----



Sub-Matrix:					Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method					
Metals (QCLot: 2363281) - continued									
QC-2363281-003	RM	Lead	7439-92-1	E475	0.058 mg/kg	88.3	15.0	185	----
QC-2363281-003	RM	Magnesium	7439-95-4	E475	899 mg/kg	91.8	70.0	130	----
QC-2363281-003	RM	Manganese	7439-96-5	E475	0.948 mg/kg	89.7	70.0	130	----
QC-2363281-003	RM	Molybdenum	7439-98-7	E475	0.134 mg/kg	98.7	70.0	130	----
QC-2363281-003	RM	Phosphorus	7723-14-0	E475	6700 mg/kg	97.8	70.0	130	----
QC-2363281-003	RM	Potassium	7440-09-7	E475	11600 mg/kg	95.3	70.0	130	----
QC-2363281-003	RM	Rubidium	7440-17-7	E475	2.53 mg/kg	92.7	70.0	130	----
QC-2363281-003	RM	Selenium	7782-49-2	E475	2.48 mg/kg	99.7	70.0	130	----
QC-2363281-003	RM	Sodium	7440-23-5	E475	9620 mg/kg	95.3	70.0	130	----
QC-2363281-003	RM	Strontium	7440-24-6	E475	10.6 mg/kg	90.5	70.0	130	----
QC-2363281-003	RM	Vanadium	7440-62-2	E475	0.269 mg/kg	93.7	70.0	130	----
QC-2363281-003	RM	Zinc	7440-66-6	E475	28.7 mg/kg	94.8	70.0	130	----
Metals (QCLot: 2363282)									
QC-2363282-003	RM	Mercury	7439-97-6	E512	0.281 mg/kg	86.4	70.0	130	----
Metals (QCLot: 2364088)									
QC-2364088-003	RM	Mercury	7439-97-6	E512A	0.281 mg/kg wwt	103	70.0	130	----
Metals (QCLot: 2364089)									
QC-2364089-003	RM	Aluminum	7429-90-5	E475A	147 mg/kg wwt	91.1	70.0	130	----
QC-2364089-003	RM	Arsenic	7440-38-2	E475A	14.5 mg/kg wwt	101	70.0	130	----
QC-2364089-003	RM	Barium	7440-39-3	E475A	0.352 mg/kg wwt	97.3	70.0	130	----
QC-2364089-003	RM	Boron	7440-42-8	E475A	3.47 mg/kg wwt	99.5	70.0	130	----
QC-2364089-003	RM	Cadmium	7440-43-9	E475A	0.153 mg/kg wwt	101	70.0	130	----
QC-2364089-003	RM	Calcium	7440-70-2	E475A	2010 mg/kg wwt	97.2	70.0	130	----
QC-2364089-003	RM	Cesium	7440-46-2	E475A	0.089 mg/kg wwt	96.7	70.0	130	----
QC-2364089-003	RM	Copper	7440-50-8	E475A	3.3 mg/kg wwt	97.0	70.0	130	----
QC-2364089-003	RM	Iron	7439-89-6	E475A	102 mg/kg wwt	98.5	70.0	130	----
QC-2364089-003	RM	Lead	7439-92-1	E475A	0.058 mg/kg wwt	94.5	15.0	185	----
QC-2364089-003	RM	Magnesium	7439-95-4	E475A	899 mg/kg wwt	98.3	70.0	130	----
QC-2364089-003	RM	Manganese	7439-96-5	E475A	0.948 mg/kg wwt	99.2	70.0	130	----
QC-2364089-003	RM	Molybdenum	7439-98-7	E475A	0.134 mg/kg wwt	97.9	70.0	130	----
QC-2364089-003	RM	Phosphorus	7723-14-0	E475A	6700 mg/kg wwt	107	70.0	130	----
QC-2364089-003	RM	Potassium	7440-09-7	E475A	11600 mg/kg wwt	105	70.0	130	----
QC-2364089-003	RM	Rubidium	7440-17-7	E475A	2.53 mg/kg wwt	101	70.0	130	----
QC-2364089-003	RM	Selenium	7782-49-2	E475A	2.48 mg/kg wwt	104	70.0	130	----
QC-2364089-003	RM	Sodium	7440-23-5	E475A	9620 mg/kg wwt	102	70.0	130	----
QC-2364089-003	RM	Strontium	7440-24-6	E475A	10.6 mg/kg wwt	102	70.0	130	----
QC-2364089-003	RM	Vanadium	7440-62-2	E475A	0.269 mg/kg wwt	96.8	70.0	130	----



Sub-Matrix:					Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method					
Metals (QCLot: 2364089) - continued									
QC-2364089-003	RM	Zinc	7440-66-6	E475A	28.7 mg/kg ww	102	70.0	130	----
Metals (QCLot: 2364090)									
QC-2364090-003	RM	Aluminum	7429-90-5	E475	147 mg/kg	91.1	70.0	130	----
QC-2364090-003	RM	Arsenic	7440-38-2	E475	14.5 mg/kg	101	70.0	130	----
QC-2364090-003	RM	Barium	7440-39-3	E475	0.352 mg/kg	97.3	70.0	130	----
QC-2364090-003	RM	Boron	7440-42-8	E475	3.47 mg/kg	99.5	70.0	130	----
QC-2364090-003	RM	Cadmium	7440-43-9	E475	0.153 mg/kg	101	70.0	130	----
QC-2364090-003	RM	Calcium	7440-70-2	E475	2010 mg/kg	97.2	70.0	130	----
QC-2364090-003	RM	Cesium	7440-46-2	E475	0.089 mg/kg	96.7	70.0	130	----
QC-2364090-003	RM	Copper	7440-50-8	E475	3.3 mg/kg	97.0	70.0	130	----
QC-2364090-003	RM	Iron	7439-89-6	E475	102 mg/kg	98.5	70.0	130	----
QC-2364090-003	RM	Lead	7439-92-1	E475	0.058 mg/kg	94.5	15.0	185	----
QC-2364090-003	RM	Magnesium	7439-95-4	E475	899 mg/kg	98.3	70.0	130	----
QC-2364090-003	RM	Manganese	7439-96-5	E475	0.948 mg/kg	99.2	70.0	130	----
QC-2364090-003	RM	Molybdenum	7439-98-7	E475	0.134 mg/kg	97.9	70.0	130	----
QC-2364090-003	RM	Phosphorus	7723-14-0	E475	6700 mg/kg	107	70.0	130	----
QC-2364090-003	RM	Potassium	7440-09-7	E475	11600 mg/kg	105	70.0	130	----
QC-2364090-003	RM	Rubidium	7440-17-7	E475	2.53 mg/kg	101	70.0	130	----
QC-2364090-003	RM	Selenium	7782-49-2	E475	2.48 mg/kg	104	70.0	130	----
QC-2364090-003	RM	Sodium	7440-23-5	E475	9620 mg/kg	102	70.0	130	----
QC-2364090-003	RM	Strontium	7440-24-6	E475	10.6 mg/kg	102	70.0	130	----
QC-2364090-003	RM	Vanadium	7440-62-2	E475	0.269 mg/kg	96.8	70.0	130	----
QC-2364090-003	RM	Zinc	7440-66-6	E475	28.7 mg/kg	102	70.0	130	----
Metals (QCLot: 2364091)									
QC-2364091-003	RM	Mercury	7439-97-6	E512	0.281 mg/kg	103	70.0	130	----
Speciated Metals (QCLot: 2364111)									
QC-2364111-003	RM	Methylmercury (as MeHg)	22967-92-6	E538	266 µg/kg	98.7	70.0	130	----
Speciated Metals (QCLot: 2364112)									
QC-2364112-003	RM	Methylmercury (as MeHg)	22967-92-6	E538	266 µg/kg	80.2	70.0	130	----
Speciated Metals (QCLot: 2396508)									
QC-2396508-003	RM	Methylmercury (as MeHg)	22967-92-6	E538	266 µg/kg	94.3	70.0	130	----



COC Number: **22 -**

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Canada Toll Free: 1 800 668 9878

Environmental Division
Thunder Bay
Work Order Reference
TY2510927

Report To Contact and company name below will appear on the final report		Reports / Recipients		Turnaround Time (TAT) Requested	
Company: G3 Consulting Ltd.		Select Report Format: ☒ PDF ☒ EXCEL ☐ EDD (DIGITAL)		☒ Routine (R) if received by 3pm M-F - no surcharges apply	
Contact: Greg Thomas		Merge QC/QCI Reports with COA ☒ YES ☐ NO ☐ N/A		☐ 4 day (P-4) if received by 3pm M-F - 20% rush surcharge minimum	
Phone: 604-598-8501		☒ Compare Results to Criteria on Report - provide details below if box checked		☐ 3 day (P-3) if received by 3pm M-F - 25% rush surcharge minimum	
Company address below will appear on the final report		Select Distribution: ☒ EMAIL ☐ MAIL ☐ FAX		☐ 2 day (P-2) if received by 3pm M-F - 50% rush surcharge minimum	
Street: 206-8501 162 St		Email 1 or Fax: kalfonso@g3consulting.com; cwilson@g3consulting.com		☐ 1 day (F) if received by 3pm M-F - 100% rush surcharge minimum	
City/Province: Surrey, BC		Email 2: aquareshie@g3consulting.com; rfarrall@g3consulting.com		☐ Same day (F-2) if received by 10am M-S - 200% rush surcharge	
Postal Code: V4N 1B2		Email 3: gthomson@g3consulting.com; mtylo@g3consulting.com		Additional fees may apply to rush requests on weekends, etc.	
Invoice To: Same as Report To ☐ YES ☒ NO		Invoice Recipients		Date and Time Required for all E&P TATs: _____	
Copy of Invoice with Report ☐ YES ☒ NO		Select Invoice Distribution: ☒ EMAIL ☐ MAIL ☐ FAX		For all tests with rush TATs requested, please contact _____	
Company: G3 Consulting Ltd.		Email 1 or Fax: sjohnson@g3consulting.com		Analysis Requested: _____	
Contact: _____		Email 2: info@g3consulting.com		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below	
Project Information		Oil and Gas Required Fields (client use)		NUMBER OF CONTAINERS	
ALS Account # / Quote #: G3CO100 / WT2025G3CO1000001		APE/Cost Center: _____ PO#: _____		Metals w/ selenium	
Job #: 2502		Major/Minor Code: _____ Routing Code: _____		Total Mercury	
PO / AFE: 2502		Requisitioner: _____		Methylmercury	
LSD: _____		Location: _____		Methane	
ALS Lab Work Order # (ALS use only): TY25T0027		ALS Contact: _____		Lipids	
ALS Sample # (ALS use only)		Sample Identification and/or Coordinates (This description will appear on the report)		Date (dd-mmm-yy)	
25ONG309 FT		OLLWS46		Time (h:mm)	
25ONG309 FT		OLLWS47		Sample Type	
25ONG309 FT		OLLWS48		Biota/Tissue	
25ONG309 FT		OLLWS49		R	
25ONG309 FT		OLLWS50		R	
25ONG309 FT		OLLWS51		R	
25ONG309 FT		OLNPS52		R	
25ONG309 FT		OLWSS53		R	
25ONG309 FT		OLWYS54		R	
25ONG309 FT		OLWL55		R	
25ONG309 FT		OLWYS56		R	
25ONG309 FT		OLWLS57		R	
25ONG309 FT		OLWSS58		R	
25ONG309 FT		OLWLS59		R	
Drinking Water (DW) Samples ¹ (client use)		Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)		SAMPLE RECEIPT DETAILS (ALS use only)	
Are samples taken from a Regulated DW System? ☐ YES ☐ NO				Cooling Method: ☐ NONE ☒ ICE ☒ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED	
Are samples for human consumption/ use? ☐ YES ☐ NO				Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO	
				Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A	
				INITIAL COOLER TEMPERATURES °C: -2.4 -16 FINAL COOLER TEMPERATURES °C: _____	
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (ALS use only)		FINAL SHIPMENT RECEPTION (ALS use only)	
Released by: _____ Date: _____ Time: _____		Received by: _____ Date: _____ Time: _____		Received by: Ac Date: 19-Sep-25 Time: 4:54	
REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION		WHITE - LABORATORY COPY		YELLOW - CLIENT COPY	

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

 $2 \times \text{depth of}$



www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

COC Number: 22 -

Page 3 of 6

Canada Toll Free: 1 800 568 9878

Report To Contact and company name below will appear on the final report:		Reports / Recipients		Turnaround Time (TAT) Requested	
Company:	G3 Consulting Ltd.	Select Report Format:	☒ PDF ☒ EXCEL ☐ EDD (DIGITAL)	☒ Routine (R) if received by 3pm M-F - no surcharges apply	AFFIX ALS BARCODE LABEL HERE (ALS use only)
Contact:	Grag Thomas	Merge COC Reports with COA:	☒ YES ☐ NO ☐ N/A	☐ 1 day (P1) if received by 3pm M-F - 25% rush surcharge minimum	
Phone:	604-598-8501	☒ Compare Results to Criteria on Report - provide details below if box checked		☐ 3 day (P3) if received by 3pm M-F - 25% rush surcharge minimum	
Company address below will appear on the final report		Select Distribution:	☒ EMAIL ☐ MAIL ☐ FAX	☐ 2 day (P2) if received by 3pm M-F - 50% rush surcharge minimum	
Street:	206-8501 162 St	Email 1 or Fax:	kafonso@g3consulting.com; cwilson@g3consulting.com	☐ 1 day (E) if received by 3pm M-F - 100% rush surcharge minimum	
City/Province:	Surrey, BC	Email 2:	squashie@g3consulting.com; rfarrell@g3consulting.com	☐ Same day (E2) if received by 10am M-S - 200% rush surcharge	
Postal Code:	V4N 1B2	Email 3:	gthomas@g3consulting.com; mtylo@g3consulting.com	Additional fees may apply to rush requests on weekends, statutory holidays and for non-routine tests.	
Invoice To:	Same as Report To ☐ YES ☒ NO	Invoice Recipients		Date and Time Required for all E&P TATs: dd-mm-yy hh:mm am/pm	
Copy of Invoice with Report ☐ YES ☒ NO		Select Invoice Distribution:	☒ EMAIL ☐ MAIL ☐ FAX	For all tests with rush TATs requested, please contact your AM to confirm availability.	
Company:	G3 Consulting Ltd.	Email 1 or Fax:	sjohnson@g3consulting.com	Analysis Request	
Contact:		Email 2:	info@g3consulting.com	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F&P) below	
Project Information		Oil and Gas Required Fields (client use)			
ALS Account # / Quote #:	G3CO100 / WT2025G3CO1000001	AFE/Cost Center:	PO#:		
Job #:	2502	Major/Minor Code:	Routing Code:		
PO / AFE:	2502	Requisitioner:			
LSD:		Location:			
ALS Lab Work Order # (ALS use only):		ALS Contact:	Sampler:		
ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)		Date (dd-mm-yy)	Time (hh:mm)	Sample Type
1	25ONG309 FT	OLWSS32	9-Sept-2025	8:20	Biota/Tissue
2	25ONG309 FT	OLLWS33	-Sept-2025		Biota/Tissue
3	25ONG309 FT	OLWSS34	-Sept-2025		Biota/Tissue
4	25ONG309 FT	OLWYS35	-Sept-2025		Biota/Tissue
5	25ONG309 FT	OLLWS36	-Sept-2025		Biota/Tissue
6	25ONG309 FT	OLLWS37	-Sept-2025		Biota/Tissue
7	25ONG309 FT	OLLWS38	-Sept-2025		Biota/Tissue
8	25ONG309 FT	OLLWS39	-Sept-2025		Biota/Tissue
9	25ONG309 FT	OLNPS40	-Sept-2025		Biota/Tissue
10	25ONG309 FT	OLLWS41	-Sept-2025		Biota/Tissue
11	25ONG309 FT	OLWSS42	-Sept-2025		Biota/Tissue
12	25ONG309 FT	OLWSS43	-Sept-2025		Biota/Tissue
13	25ONG309 FT	OLWSS44	-Sept-2025		Biota/Tissue
14	25ONG309 FT	OLLWS45	-Sept-2025		Biota/Tissue
Drinking Water (DW) Samples (client use)		Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)			
Are samples taken from a Regulated DW System? ☐ YES ☐ NO					
Are samples for human consumption/ use? ☐ YES ☐ NO					
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (ALS use only)		FINAL SHIPMENT RECEPTION (ALS use only)	
Released by:	Date:	Time:	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JAN 2023 FORM

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Intake and Login Verification Form

SAMPLE INTAKE				ACCOUNT INFO VERIFICATION			
Priority/Emergency Service Requested	YES	NO		Priority/Emergency Service Requested	YES	NO	
Time Sensitive Hold Time	YES	NO		Confirmed all as accurate as per COC, Sample Remarks or PM			
Client:				Client	Work Contact	Quote	
SAMPLE RECEIPT INFORMATION				RECEIPT DETAIL			
Mode of Delivery:	Courier	Drop Off		Project	PO	Site/LSD	
Courier				Overall Description Entered	Yes	NA	
Waybill Number				Received date/time as per COC			
Temperature	Cooler Count			Recipients match CoC or Sample Remarks	Yes	No	
Cooling Method	None	Ice	Ice Packs	Billing Instruction added to remarks	Yes	NA	
SAMPLE MATRIX/BOTTLE INFORMATION				Sample Remarks/Specification Doc checked			
Matrix:	Water	Soil	Air	Submission Issues communicated	Yes	NA	
			Biota	Sample Info communicated via Remarks	Yes	NA	
DW Schedule 24 Bottles Correct?			Yes	No			
DW Metals pH Check <2			Yes	No			
Regulation Circled, Works # present	Yes	No - Reject?		VERIFICATION CHECKLIST			
# of Bottles:	Sample Count	28		Planned Event Submission	Yes	No	
Green/white				Sample Name entered as per CoC			
Purple/white				Sampling Date and time entered as per CoC			
Warm red/white				Containers selected in layout order			
Yellow/black				Sales items entered from QUOTE ONLY (and/or verified as correct)			
Light blue/white				Field Data/EC298A removed if not on COC	Yes	NA	
Orange/black				Bottle Allocation Verified			
Others (detail)	28 fish			Guideline added or auto-allocated			
				Due dates updated			
Comments on Samples and Bottles:				VALIDATION			
				Validation errors resolved?	Yes	No	
Samples Requiring Preservation or Filtering:				Internal Sublet CoC created	Yes	NA	
				Login Comments:			
Layout Staff Initials							
Date and Time of Layout				Login Staff Initials:			
AC 25-Sep-25/9.02				AC			

CERTIFICATE OF ANALYSIS

Work Order	: TY2510937		
Client	: G3 Consulting Ltd.	Laboratory	: ALS Environmental - Thunder Bay
Contact	: Greg Thomas	Account Manager	: Colby Coutu
Address	: 206-8501 162nd St. Surrey British Columbia Canada V4N 1B2	Address	: 1081 Barton Street Thunder Bay ON Canada P7B 5N3
Telephone	: 604 598 8501	E-mail	: colby.coutu@alsglobal.com
Project	: 2502	Telephone	: +1 807 623 6463
PO	: 2502	Date Samples Received	: 19-Sep-2025 16:54
C-O-C number	: ----	Date Analysis Commenced	: 20-Nov-2025
Sampler	: ----	Issue Date	: 12-Jan-2026 12:38
Site	: ----		
Quote number	: Dubreuilville Project		
No. of samples received	: 22		
No. of samples analysed	: 22		

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.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Cesar Mora	Lab Assistant	Metals, Burnaby, British Columbia
Dan Gebert	Supervisor - Metals Mercury & Speciation	Metals, Burnaby, British Columbia
Hamidreza Hamidzadeh	Lab Assistant	Metals, Burnaby, British Columbia
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Metals, Burnaby, British Columbia
Kim Jensen	Department Manager - Metals	Metals, Burnaby, British Columbia
Robin Weeks	Supervisor - Organics Extractions	Organics, Burnaby, British Columbia
Shahrzad Firoozbakht	Lab Assistant	Metals, Burnaby, British Columbia



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).

Unit	Description
%	percent
% wwt	% wet weight
mg/kg	milligrams per kilogram
mg/kg wwt	milligrams per kilogram wet weight
µg/kg	micrograms per kilogram

<: less than.

>: greater than.

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.

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.

Workorder Comments

Sample 16 to 21(OLLWS88, OLWYS89, OLWSS90, OLLWS91, OLLWS92, OLLWS92): Samples not received at laboratory, but requested on Chain of Custody / analytical request form; subsample cannot be obtained from other containers to meet request. The requested analysis cannot be performed.



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLNPS60	25ONG309 FT OLWSS61	25ONG309 FT OLWLS62	25ONG309 FT OLWLS63	25ONG309 FT OLWLS64
Client sampling date / time						09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510937-001	TY2510937-002	TY2510937-003	TY2510937-004	TY2510937-005
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144A/VA	2.0	%		78.2	78.4	79.8	80.2	78.0
Moisture	----	E144/VA	0.50	%		78.2	78.4	79.8	80.2	78.0
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt		<1.0	<1.0	<1.0	<1.0	<1.0
Antimony	7440-36-0	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Arsenic	7440-38-2	E475/VA	0.050	mg/kg		0.216	0.330	0.267	0.322	0.353
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt		0.047	0.071	0.054	0.064	0.078
Barium	7440-39-3	E475/VA	0.050	mg/kg		<0.050	0.114	0.059	<0.050	0.052
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt		<0.010	0.025	0.012	<0.010	0.011
Beryllium	7440-41-7	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	7440-69-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	7440-42-8	E475/VA	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt		<0.20	<0.20	<0.20	<0.20	<0.20
Cadmium	7440-43-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	7440-70-2	E475/VA	20	mg/kg		744	358	774	608	499



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

Client sample ID					25ONG309 FT OLNPS60	25ONG309 FT OLWSS61	25ONG309 FT OLWLS62	25ONG309 FT OLWLS63	25ONG309 FT OLWLS64
Client sampling date / time					09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510937-001	TY2510937-002	TY2510937-003	TY2510937-004	TY2510937-005
					Result	Result	Result	Result	Result
Metals									
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt	162	77.5	156	120	110
Cesium	7440-46-2	E475/VA	0.0050	mg/kg	1.21	0.391	0.653	0.575	0.533
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt	0.264	0.0845	0.132	0.114	0.117
Chromium	7440-47-3	E475/VA	0.20	mg/kg	0.49	<0.20	<0.20	<0.20	<0.20
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt	0.107	<0.040	<0.040	<0.040	<0.040
Cobalt	7440-48-4	E475/VA	0.020	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Copper	7440-50-8	E475/VA	0.20	mg/kg	1.13	0.88	0.69	1.03	0.65
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt	0.246	0.190	0.140	0.203	0.143
Iron	7439-89-6	E475/VA	5.0	mg/kg	15.0	19.8	13.5	18.9	10.3
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt	3.3	4.3	2.7	3.7	2.3
Lead	7439-92-1	E475/VA	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt	<0.010	<0.010	<0.010	<0.010	<0.010
Lithium	7439-93-2	E475/VA	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	7439-95-4	E475/VA	2.0	mg/kg	1430	1440	1240	1330	1460
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt	311	311	251	263	321
Manganese	7439-96-5	E475/VA	0.050	mg/kg	0.455	0.794	0.609	0.418	0.551
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt	0.099	0.172	0.123	0.082	0.121
Mercury	7439-97-6	E512/VA	0.010	mg/kg	2.17	0.299	0.607	0.421	0.371



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLNPS60	25ONG309 FT OLWSS61	25ONG309 FT OLWLS62	25ONG309 FT OLWLS63	25ONG309 FT OLWLS64
					Client sampling date / time	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510937-001	TY2510937-002	TY2510937-003	TY2510937-004	TY2510937-005
						Result	Result	Result	Result	Result
Metals										
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt		0.473	0.0648	0.123	0.0831	0.0817
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg		0.148	<0.040	<0.040	<0.040	<0.040
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt		0.0323	<0.0080	<0.0080	<0.0080	<0.0080
Nickel	7440-02-0	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Phosphorus	7723-14-0	E475/VA	20	mg/kg		10500	9640	9260	10400	10600
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt		2290	2090	1870	2060	2320
Potassium	7440-09-7	E475/VA	20	mg/kg		18600	19300	16000	19300	19600
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt		4050	4170	3230	3810	4310
Rubidium	7440-17-7	E475/VA	0.050	mg/kg		42.4	21.2	23.6	38.9	32.7
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt		9.25	4.59	4.76	7.69	7.19
Selenium	7782-49-2	E475/VA	0.10	mg/kg		0.92	1.07	1.50	1.14	1.00
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt		0.200	0.233	0.303	0.225	0.220
Sodium	7440-23-5	E475/VA	20	mg/kg		1840	1280	2260	2390	2220
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt		402	277	456	471	489
Strontium	7440-24-6	E475/VA	0.10	mg/kg		0.76	0.14	1.21	0.92	0.70
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt		0.166	0.031	0.243	0.182	0.154
Tellurium	13494-80-9	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	7440-28-0	E475/VA	0.0020	mg/kg		0.0083	0.0044	0.0047	0.0094	0.0093



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLNPS60	25ONG309 FT OLWSS61	25ONG309 FT OLWLS62	25ONG309 FT OLWLS63	25ONG309 FT OLWLS64
					Client sampling date / time	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510937-001	TY2510937-002	TY2510937-003	TY2510937-004	TY2510937-005
						Result	Result	Result	Result	Result
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt		0.00180	0.00096	0.00094	0.00186	0.00204
Tin	7440-31-5	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Uranium	7440-61-1	E475/VA	0.0020	mg/kg		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Vanadium	7440-62-2	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Zinc	7440-66-6	E475/VA	1.0	mg/kg		22.4	16.8	16.1	15.5	12.9
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt		4.89	3.64	3.25	3.07	2.85
Zirconium	7440-67-7	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg		1730	293	500	362	299
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt		0.62	0.61	<0.50	<0.50	0.94

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



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLNPS65	25ONG309 FT OLWYS66	25ONG309 FT OLWLS67	25ONG309 FT OLWLS68	25ONG309 FT OLNPS69
					Client sampling date / time	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510937-006	TY2510937-007	TY2510937-008	TY2510937-009	TY2510937-010
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144A/VA	2.0	%		78.1	80.0	78.5	79.5	78.5
Moisture	----	E144/VA	0.50	%		78.1	80.0	78.5	79.5	78.5
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt		<1.0	<1.0	<1.0	<1.0	<1.0
Antimony	7440-36-0	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Arsenic	7440-38-2	E475/VA	0.050	mg/kg		0.118	0.148	0.456	0.399	0.112
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt		0.026	0.030	0.098	0.082	0.024
Barium	7440-39-3	E475/VA	0.050	mg/kg		<0.050	0.050	<0.050	0.072	0.070
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt		<0.010	0.010	<0.010	0.015	0.015
Beryllium	7440-41-7	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	7440-69-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	7440-42-8	E475/VA	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt		<0.20	<0.20	<0.20	<0.20	<0.20
Cadmium	7440-43-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	7440-70-2	E475/VA	20	mg/kg		603	635	532	324	759



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLNPS65	25ONG309 FT OLWYS66	25ONG309 FT OLWLS67	25ONG309 FT OLWLS68	25ONG309 FT OLNPS69
					Client sampling date / time	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510937-006	TY2510937-007	TY2510937-008	TY2510937-009	TY2510937-010
						Result	Result	Result	Result	Result
Metals										
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt		132	127	114	66.2	163
Cesium	7440-46-2	E475/VA	0.0050	mg/kg		1.39	1.36	1.09	0.666	1.04
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt		0.305	0.272	0.233	0.136	0.224
Chromium	7440-47-3	E475/VA	0.20	mg/kg		0.23	<0.20	<0.20	<0.20	1.49
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt		0.051	<0.040	<0.040	<0.040	0.321
Cobalt	7440-48-4	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	0.031
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	0.0067
Copper	7440-50-8	E475/VA	0.20	mg/kg		0.64	0.68	0.45	0.64	0.69
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt		0.141	0.136	0.097	0.132	0.149
Iron	7439-89-6	E475/VA	5.0	mg/kg		10.8	8.7	12.6	12.9	16.8
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt		2.4	1.7	2.7	2.6	3.6
Lead	7439-92-1	E475/VA	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt		<0.010	<0.010	<0.010	<0.010	<0.010
Lithium	7439-93-2	E475/VA	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt		<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	7439-95-4	E475/VA	2.0	mg/kg		1570	1320	1280	1610	1490
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt		345	265	275	330	321
Manganese	7439-96-5	E475/VA	0.050	mg/kg		0.660	0.322	0.357	0.495	0.850
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt		0.145	0.064	0.077	0.101	0.183
Mercury	7439-97-6	E512/VA	0.010	mg/kg		2.23	2.11	0.581	0.576	2.06



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLNPS65	25ONG309 FT OLWYS66	25ONG309 FT OLWLS67	25ONG309 FT OLWLS68	25ONG309 FT OLNPS69
					Client sampling date / time	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510937-006	TY2510937-007	TY2510937-008	TY2510937-009	TY2510937-010
						Result	Result	Result	Result	Result
Metals										
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt		0.490	0.423	0.125	0.118	0.443
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg		<0.040	<0.040	<0.040	<0.040	0.127
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt		<0.0080	<0.0080	<0.0080	<0.0080	0.0273
Nickel	7440-02-0	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	0.88
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	0.190
Phosphorus	7723-14-0	E475/VA	20	mg/kg		10800	10100	9930	11100	9120
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt		2370	2020	2130	2280	1960
Potassium	7440-09-7	E475/VA	20	mg/kg		20400	20700	18500	20900	16400
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt		4470	4140	3980	4280	3540
Rubidium	7440-17-7	E475/VA	0.050	mg/kg		56.6	87.7	42.9	35.4	43.3
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt		12.4	17.6	9.20	7.24	9.31
Selenium	7782-49-2	E475/VA	0.10	mg/kg		0.96	0.99	1.25	1.06	0.93
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt		0.210	0.198	0.268	0.216	0.200
Sodium	7440-23-5	E475/VA	20	mg/kg		1290	2600	2520	2160	2210
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt		284	520	540	442	476
Strontium	7440-24-6	E475/VA	0.10	mg/kg		0.27	0.31	0.86	0.54	0.59
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt		0.059	0.062	0.184	0.111	0.128
Tellurium	13494-80-9	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	7440-28-0	E475/VA	0.0020	mg/kg		0.0214	0.0198	0.0089	0.0127	0.0155



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLNPS65	25ONG309 FT OLWYS66	25ONG309 FT OLWLS67	25ONG309 FT OLWLS68	25ONG309 FT OLNPS69
					Client sampling date / time	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20	09-Sep-2025 08:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510937-006	TY2510937-007	TY2510937-008	TY2510937-009	TY2510937-010
						Result	Result	Result	Result	Result
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt		0.00470	0.00397	0.00191	0.00259	0.00334
Tin	7440-31-5	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Uranium	7440-61-1	E475/VA	0.0020	mg/kg		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Vanadium	7440-62-2	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Zinc	7440-66-6	E475/VA	1.0	mg/kg		18.0	16.0	12.0	14.5	23.4
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt		3.96	3.20	2.57	2.96	5.04
Zirconium	7440-67-7	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg		1580	1390	462	385	1110
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt		<0.50	1.71	<0.50	1.40	<0.50

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



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLNPS70 ----	25ONG309 FT OLLWS84 ----	25ONG309 FT OLWYS85 ----	25ONG309 FT OLWSS86 ----	25ONG309 FT OLLWS87 ----
Client sampling date / time						09-Sep-2025 08:20	09-Sep-2025 11:21	09-Sep-2025 11:21	09-Sep-2025 11:21	09-Sep-2025 11:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510937-011	TY2510937-012	TY2510937-013	TY2510937-014	TY2510937-015
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144A/VA	2.0	%		76.8	77.5	78.5	81.1	74.9
Moisture	----	E144/VA	0.50	%		76.8	77.5	78.5	81.1	74.9
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt		<1.0	<1.0	<1.0	<1.0	<1.0
Antimony	7440-36-0	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Arsenic	7440-38-2	E475/VA	0.050	mg/kg		0.112	0.335	0.184	0.115	0.277
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt		0.026	0.075	0.039	0.022	0.070
Barium	7440-39-3	E475/VA	0.050	mg/kg		0.072	0.080	0.126	0.090	0.063
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt		0.017	0.018	0.027	0.017	0.016
Beryllium	7440-41-7	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	7440-69-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	7440-42-8	E475/VA	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt		<0.20	<0.20	<0.20	<0.20	<0.20
Cadmium	7440-43-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	7440-70-2	E475/VA	20	mg/kg		615	844	582	323	664



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLNPS70 ----	25ONG309 FT OLLWS84 ----	25ONG309 FT OLWYS85 ----	25ONG309 FT OLWSS86 ----	25ONG309 FT OLLWS87 ----
Client sampling date / time						09-Sep-2025 08:20	09-Sep-2025 11:21	09-Sep-2025 11:21	09-Sep-2025 11:21	09-Sep-2025 11:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510937-011	TY2510937-012	TY2510937-013	TY2510937-014	TY2510937-015
						Result	Result	Result	Result	Result
Metals										
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt		142	190	125	60.9	167
Cesium	7440-46-2	E475/VA	0.0050	mg/kg		1.21	0.682	1.32	0.820	0.446
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt		0.280	0.153	0.283	0.155	0.112
Chromium	7440-47-3	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	0.23	<0.20
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	0.043	<0.040
Cobalt	7440-48-4	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Copper	7440-50-8	E475/VA	0.20	mg/kg		0.57	1.21	0.50	0.89	1.52
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt		0.133	0.271	0.108	0.168	0.381
Iron	7439-89-6	E475/VA	5.0	mg/kg		7.9	16.8	5.5	17.7	13.7
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt		1.8	3.8	1.2	3.3	3.4
Lead	7439-92-1	E475/VA	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt		<0.010	<0.010	<0.010	<0.010	<0.010
Lithium	7439-93-2	E475/VA	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt		<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	7439-95-4	E475/VA	2.0	mg/kg		1440	1290	1590	1680	1040
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt		333	289	340	316	262
Manganese	7439-96-5	E475/VA	0.050	mg/kg		0.567	1.11	0.472	0.617	0.521
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt		0.131	0.249	0.101	0.116	0.131
Mercury	7439-97-6	E512/VA	0.010	mg/kg		1.30	0.344	1.13	0.692	0.276



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLNPS70	25ONG309 FT OLLWS84	25ONG309 FT OLWYS85	25ONG309 FT OLWSS86	25ONG309 FT OLLWS87
					Client sampling date / time	09-Sep-2025 08:20	09-Sep-2025 11:21	09-Sep-2025 11:21	09-Sep-2025 11:21	09-Sep-2025 11:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510937-011	TY2510937-012	TY2510937-013	TY2510937-014	TY2510937-015
						Result	Result	Result	Result	Result
Metals										
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt		0.302	0.0774	0.242	0.130	0.0693
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg		<0.040	<0.040	<0.040	0.049	<0.040
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt		<0.0080	<0.0080	<0.0080	0.0092	<0.0080
Nickel	7440-02-0	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Phosphorus	7723-14-0	E475/VA	20	mg/kg		9850	10700	11000	11500	8930
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt		2280	2400	2370	2170	2240
Potassium	7440-09-7	E475/VA	20	mg/kg		18800	20200	21400	23400	16000
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt		4340	4540	4600	4410	4010
Rubidium	7440-17-7	E475/VA	0.050	mg/kg		44.4	42.0	85.0	35.2	32.1
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt		10.3	9.44	18.2	6.63	8.06
Selenium	7782-49-2	E475/VA	0.10	mg/kg		0.90	0.88	0.90	1.16	0.79
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt		0.209	0.198	0.193	0.218	0.199
Sodium	7440-23-5	E475/VA	20	mg/kg		1440	2430	2790	2130	2010
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt		334	546	598	401	504
Strontium	7440-24-6	E475/VA	0.10	mg/kg		0.41	1.63	0.32	0.16	1.15
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt		0.094	0.367	0.069	0.031	0.288
Tellurium	13494-80-9	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	7440-28-0	E475/VA	0.0020	mg/kg		0.0142	0.0077	0.0207	<0.0020	0.0093



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT OLNPS70 ----	25ONG309 FT OLLWS84 ----	25ONG309 FT OLWYS85 ----	25ONG309 FT OLWSS86 ----	25ONG309 FT OLLWS87 ----
Client sampling date / time						09-Sep-2025 08:20	09-Sep-2025 11:21	09-Sep-2025 11:21	09-Sep-2025 11:21	09-Sep-2025 11:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510937-011	TY2510937-012	TY2510937-013	TY2510937-014	TY2510937-015
						Result	Result	Result	Result	Result
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt		0.00328	0.00174	0.00443	<0.00040	0.00233
Tin	7440-31-5	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Uranium	7440-61-1	E475/VA	0.0020	mg/kg		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Vanadium	7440-62-2	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Zinc	7440-66-6	E475/VA	1.0	mg/kg		13.0	19.0	14.9	15.3	12.7
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt		3.02	4.27	3.21	2.89	3.19
Zirconium	7440-67-7	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg		1350	139	736	415	241
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt		<0.50	2.99	0.75	<0.50	0.59

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



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWYS1	25ONG309 FT HLWYS2	25ONG309 FT HLWYS3	25ONG309 FT HLWYS4	25ONG309 FT HLWSS5
					Client sampling date / time	10-Sep-2025 11:20	10-Sep-2025 11:20	10-Sep-2025 11:20	10-Sep-2025 11:20	10-Sep-2025 11:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510937-016	TY2510937-017	TY2510937-018	TY2510937-019	TY2510937-020
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144A/VA	2.0	%		78.1	81.6	78.0	76.7	80.6
Moisture	----	E144/VA	0.50	%		78.1	81.6	78.0	76.7	80.6
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg		5.1	9.1	5.1	22.9	<5.0
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt		1.1	1.7	1.1	5.3	<1.0
Antimony	7440-36-0	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Arsenic	7440-38-2	E475/VA	0.050	mg/kg		0.180	0.092	0.294	0.293	0.133
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt		0.039	0.017	0.065	0.068	0.026
Barium	7440-39-3	E475/VA	0.050	mg/kg		0.062	0.179	0.066	0.134	0.213
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt		0.013	0.033	0.014	0.031	0.041
Beryllium	7440-41-7	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	7440-69-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	7440-42-8	E475/VA	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt		<0.20	<0.20	<0.20	<0.20	<0.20
Cadmium	7440-43-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	7440-70-2	E475/VA	20	mg/kg		611	1340	537	2390	863



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

Client sample ID					25ONG309 FT HLWYS1	25ONG309 FT HLWYS2	25ONG309 FT HLWYS3	25ONG309 FT HLWYS4	25ONG309 FT HLWSS5
Client sampling date / time					10-Sep-2025 11:20	10-Sep-2025 11:20	10-Sep-2025 11:20	10-Sep-2025 11:20	10-Sep-2025 11:20
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510937-016	TY2510937-017	TY2510937-018	TY2510937-019	TY2510937-020
					Result	Result	Result	Result	Result
Metals									
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt	134	247	118	557	167
Cesium	7440-46-2	E475/VA	0.0050	mg/kg	0.788	0.249	0.837	0.845	0.561
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt	0.172	0.0458	0.184	0.197	0.109
Chromium	7440-47-3	E475/VA	0.20	mg/kg	<0.20	0.39	<0.20	<0.20	0.61
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt	<0.040	0.073	<0.040	<0.040	0.119
Cobalt	7440-48-4	E475/VA	0.020	mg/kg	<0.020	0.025	<0.020	<0.020	<0.020
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt	<0.0040	0.0045	<0.0040	<0.0040	<0.0040
Copper	7440-50-8	E475/VA	0.20	mg/kg	0.62	1.52	0.78	1.24	0.92
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt	0.136	0.279	0.172	0.288	0.177
Iron	7439-89-6	E475/VA	5.0	mg/kg	8.5	36.7	11.3	10.0	22.5
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt	1.9	6.7	2.5	2.3	4.3
Lead	7439-92-1	E475/VA	0.050	mg/kg	<0.050	0.051	<0.050	<0.050	<0.050
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt	<0.010	<0.010	<0.010	<0.010	<0.010
Lithium	7439-93-2	E475/VA	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	7439-95-4	E475/VA	2.0	mg/kg	1840	1440	1350	1470	1390
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt	402	264	298	342	269
Manganese	7439-96-5	E475/VA	0.050	mg/kg	0.776	1.43	0.499	1.02	2.41
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt	0.170	0.262	0.110	0.237	0.466
Mercury	7439-97-6	E512/VA	0.010	mg/kg	0.928	0.312	1.13	0.762	0.157



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWYS1	25ONG309 FT HLWYS2	25ONG309 FT HLWYS3	25ONG309 FT HLWYS4	25ONG309 FT HLWSS5
					Client sampling date / time	10-Sep-2025 11:20	10-Sep-2025 11:20	10-Sep-2025 11:20	10-Sep-2025 11:20	10-Sep-2025 11:20
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510937-016	TY2510937-017	TY2510937-018	TY2510937-019	TY2510937-020
						Result	Result	Result	Result	Result
Metals										
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt		0.203	0.0574	0.248	0.177	0.0303
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg		<0.040	<0.040	<0.040	<0.040	<0.040
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel	7440-02-0	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	0.21
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	0.041
Phosphorus	7723-14-0	E475/VA	20	mg/kg		10300	7420	10000	11700	10300
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt		2250	1360	2200	2720	2000
Potassium	7440-09-7	E475/VA	20	mg/kg		19300	11700	20200	20400	19300
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt		4210	2160	4430	4740	3750
Rubidium	7440-17-7	E475/VA	0.050	mg/kg		63.5	22.8	64.4	69.8	32.1
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt		13.9	4.20	14.1	16.2	6.21
Selenium	7782-49-2	E475/VA	0.10	mg/kg		0.85	1.04	0.86	0.89	1.15
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt		0.185	0.192	0.188	0.208	0.223
Sodium	7440-23-5	E475/VA	20	mg/kg		2270	2110	2020	1650	2330
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt		497	387	443	383	452
Strontium	7440-24-6	E475/VA	0.10	mg/kg		0.38	1.62	0.36	1.92	0.79
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt		0.083	0.298	0.079	0.448	0.152
Tellurium	13494-80-9	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	7440-28-0	E475/VA	0.0020	mg/kg		0.0206	0.0052	0.0174	0.0212	0.0026



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

Client sample ID					25ONG309 FT HLWYS1 ----	25ONG309 FT HLWYS2 ----	25ONG309 FT HLWYS3 ----	25ONG309 FT HLWYS4 ----	25ONG309 FT HLWSS5 ----
Client sampling date / time					10-Sep-2025 11:20	10-Sep-2025 11:20	10-Sep-2025 11:20	10-Sep-2025 11:20	10-Sep-2025 11:20
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510937-016	TY2510937-017	TY2510937-018	TY2510937-019	TY2510937-020
					Result	Result	Result	Result	Result
Metals									
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt	0.00450	0.00095	0.00382	0.00493	0.00051
Tin	7440-31-5	E475/VA	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt	<0.020	<0.020	<0.020	<0.020	<0.020
Uranium	7440-61-1	E475/VA	0.0020	mg/kg	<0.0020	0.0036	<0.0020	<0.0020	<0.0020
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt	<0.00040	0.00066	<0.00040	<0.00040	<0.00040
Vanadium	7440-62-2	E475/VA	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt	<0.020	<0.020	<0.020	<0.020	<0.020
Zinc	7440-66-6	E475/VA	1.0	mg/kg	17.4	52.9	18.7	24.2	26.8
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt	3.81	9.72	4.11	5.63	5.18
Zirconium	7440-67-7	E475/VA	0.20	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt	<0.040	<0.040	<0.040	<0.040	<0.040
Speciated Metals									
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg	622	172	685	595	139
Aggregate Organics									
Lipid content	----	E564B/VA	0.50	% wwt	0.61	2.13	<0.50	<0.50	0.55

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



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

Client sample ID					25ONG309 FT HLNPS6	25ONG309 FT HLWYS7	----	----	----
Client sampling date / time					10-Sep-2025 11:20	10-Sep-2025 11:20	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510937-021	TY2510937-022	----	----	----
					Result	Result	----	----	----
Physical Tests									
Moisture	----	E144A/VA	2.0	%	79.2	77.8	----	----	----
Moisture	----	E144/VA	0.50	%	79.2	77.8	----	----	----
Metals									
Aluminum	7429-90-5	E475/VA	5.0	mg/kg	<5.0	<5.0	----	----	----
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt	<1.0	<1.0	----	----	----
Antimony	7440-36-0	E475/VA	0.020	mg/kg	<0.020	<0.020	----	----	----
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt	<0.0040	<0.0040	----	----	----
Arsenic	7440-38-2	E475/VA	0.050	mg/kg	0.099	0.357	----	----	----
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt	0.021	0.079	----	----	----
Barium	7440-39-3	E475/VA	0.050	mg/kg	<0.050	0.073	----	----	----
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt	<0.010	0.016	----	----	----
Beryllium	7440-41-7	E475/VA	0.010	mg/kg	<0.010	<0.010	----	----	----
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt	<0.0020	<0.0020	----	----	----
Bismuth	7440-69-9	E475/VA	0.010	mg/kg	<0.010	<0.010	----	----	----
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt	<0.0020	<0.0020	----	----	----
Boron	7440-42-8	E475/VA	1.0	mg/kg	<1.0	<1.0	----	----	----
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt	<0.20	<0.20	----	----	----
Cadmium	7440-43-9	E475/VA	0.010	mg/kg	<0.010	<0.010	----	----	----
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt	<0.0020	<0.0020	----	----	----
Calcium	7440-70-2	E475/VA	20	mg/kg	711	1880	----	----	----



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

Client sample ID					25ONG309 FT HLNPS6	25ONG309 FT HLWYS7	----	----	----
Client sampling date / time					10-Sep-2025 11:20	10-Sep-2025 11:20	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510937-021	TY2510937-022	----	----	----
					Result	Result	----	----	----
Metals									
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt	148	418	----	----	----
Cesium	7440-46-2	E475/VA	0.0050	mg/kg	0.511	0.565	----	----	----
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt	0.106	0.126	----	----	----
Chromium	7440-47-3	E475/VA	0.20	mg/kg	<0.20	0.20	----	----	----
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt	<0.040	0.045	----	----	----
Cobalt	7440-48-4	E475/VA	0.020	mg/kg	<0.020	<0.020	----	----	----
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt	<0.0040	<0.0040	----	----	----
Copper	7440-50-8	E475/VA	0.20	mg/kg	1.70	0.79	----	----	----
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt	0.352	0.175	----	----	----
Iron	7439-89-6	E475/VA	5.0	mg/kg	13.6	13.1	----	----	----
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt	2.8	2.9	----	----	----
Lead	7439-92-1	E475/VA	0.050	mg/kg	<0.050	<0.050	----	----	----
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt	<0.010	<0.010	----	----	----
Lithium	7439-93-2	E475/VA	0.50	mg/kg	<0.50	<0.50	----	----	----
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt	<0.10	<0.10	----	----	----
Magnesium	7439-95-4	E475/VA	2.0	mg/kg	1290	1090	----	----	----
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt	269	242	----	----	----
Manganese	7439-96-5	E475/VA	0.050	mg/kg	0.576	0.365	----	----	----
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt	0.120	0.081	----	----	----
Mercury	7439-97-6	E512/VA	0.010	mg/kg	0.779	0.914	----	----	----



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLNPS6	25ONG309 FT HLWYS7	----	----	----
					Client sampling date / time	10-Sep-2025 11:20	10-Sep-2025 11:20	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510937-021	TY2510937-022	----	----	----	----
					Result	Result	----	----	----	----
Metals										
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt	0.162	0.203	----	----	----	----
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg	<0.040	<0.040	----	----	----	----
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt	<0.0080	<0.0080	----	----	----	----
Nickel	7440-02-0	E475/VA	0.20	mg/kg	<0.20	<0.20	----	----	----	----
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt	<0.040	<0.040	----	----	----	----
Phosphorus	7723-14-0	E475/VA	20	mg/kg	10500	9070	----	----	----	----
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt	2190	2020	----	----	----	----
Potassium	7440-09-7	E475/VA	20	mg/kg	19900	15200	----	----	----	----
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt	4140	3380	----	----	----	----
Rubidium	7440-17-7	E475/VA	0.050	mg/kg	37.3	44.5	----	----	----	----
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt	7.75	9.90	----	----	----	----
Selenium	7782-49-2	E475/VA	0.10	mg/kg	0.80	0.90	----	----	----	----
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt	0.166	0.199	----	----	----	----
Sodium	7440-23-5	E475/VA	20	mg/kg	2000	2810	----	----	----	----
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt	415	625	----	----	----	----
Strontium	7440-24-6	E475/VA	0.10	mg/kg	0.41	1.65	----	----	----	----
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt	0.084	0.367	----	----	----	----
Tellurium	13494-80-9	E475/VA	0.020	mg/kg	<0.020	<0.020	----	----	----	----
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt	<0.0040	<0.0040	----	----	----	----
Thallium	7440-28-0	E475/VA	0.0020	mg/kg	0.0133	0.0117	----	----	----	----



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLNPS6	25ONG309 FT HLWYS7	----	----	----
Client sampling date / time						10-Sep-2025 11:20	10-Sep-2025 11:20	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510937-021	TY2510937-022	----	----	----	----
					Result	Result	----	----	----	----
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt	0.00276	0.00259	----	----	----	----
Tin	7440-31-5	E475/VA	0.10	mg/kg	<0.10	<0.10	----	----	----	----
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt	<0.020	<0.020	----	----	----	----
Uranium	7440-61-1	E475/VA	0.0020	mg/kg	<0.0020	<0.0020	----	----	----	----
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt	<0.00040	<0.00040	----	----	----	----
Vanadium	7440-62-2	E475/VA	0.10	mg/kg	<0.10	<0.10	----	----	----	----
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt	<0.020	<0.020	----	----	----	----
Zinc	7440-66-6	E475/VA	1.0	mg/kg	22.6	15.5	----	----	----	----
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt	4.70	3.45	----	----	----	----
Zirconium	7440-67-7	E475/VA	0.20	mg/kg	<0.20	<0.20	----	----	----	----
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt	<0.040	<0.040	----	----	----	----
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg	617	733	----	----	----	----
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt	<0.50	<0.50	----	----	----	----

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

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: TY2510937	Page	: 1 of 25
Client	: G3 Consulting Ltd.	Laboratory	: ALS Environmental - Thunder Bay
Contact	: Greg Thomas	Account Manager	: Colby Coutu
Address	: 206-8501 162nd St. Surrey BC Canada V4N 1B2	Address	: 1081 Barton Street Thunder Bay, Ontario Canada P7B 5N3
Telephone	: 604 598 8501	Telephone	: +1 807 623 6463
Project	: 2502	Date Samples Received	: 19-Sep-2025 16:54
PO	: 2502	Issue Date	: 12-Jan-2026 12:38
C-O-C number	: ----		
Sampler	: ----		
Site	: ----		
Quote number	: Dubreuilville Project		
No. of samples received	: 22		
No. of samples analysed	: 22		

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 Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.



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: **Biota** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Aggregate Organics : Lipids by Gravimetry										
LDPE bag 25ONG309 FT HLNPS6	E564B	10-Sep-2025	20-Nov-2025	365 days	71 days	✓	22-Nov-2025	365 days	71 days	✓
Aggregate Organics : Lipids by Gravimetry										
LDPE bag 25ONG309 FT HLWSS5	E564B	10-Sep-2025	20-Nov-2025	365 days	71 days	✓	22-Nov-2025	365 days	71 days	✓
Aggregate Organics : Lipids by Gravimetry										
LDPE bag 25ONG309 FT HLWYS1	E564B	10-Sep-2025	20-Nov-2025	365 days	71 days	✓	22-Nov-2025	365 days	71 days	✓
Aggregate Organics : Lipids by Gravimetry										
LDPE bag 25ONG309 FT HLWYS2	E564B	10-Sep-2025	20-Nov-2025	365 days	71 days	✓	22-Nov-2025	365 days	71 days	✓
Aggregate Organics : Lipids by Gravimetry										
LDPE bag 25ONG309 FT HLWYS3	E564B	10-Sep-2025	20-Nov-2025	365 days	71 days	✓	22-Nov-2025	365 days	71 days	✓
Aggregate Organics : Lipids by Gravimetry										
LDPE bag 25ONG309 FT HLWYS4	E564B	10-Sep-2025	20-Nov-2025	365 days	71 days	✓	22-Nov-2025	365 days	71 days	✓
Aggregate Organics : Lipids by Gravimetry										
LDPE bag 25ONG309 FT HLWYS7	E564B	10-Sep-2025	20-Nov-2025	365 days	71 days	✓	22-Nov-2025	365 days	71 days	✓



Matrix: Biota Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis				
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT OLLWS84	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	72 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT OLLWS87	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	72 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT OLNPS60	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	72 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT OLNPS65	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	72 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT OLNPS69	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	72 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT OLNPS70	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	72 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT OLWLS62	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	72 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT OLWLS63	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	72 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT OLWLS64	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	72 days	✓	



Matrix: **Biota** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis				
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT OLWLS67	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	72 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT OLWLS68	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	72 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT OLWSS61	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	72 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT OLWSS86	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	72 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT OLWYS66	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	72 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT OLWYS85	E564B	09-Sep-2025	20-Nov-2025	365 days	72 days	✓	22-Nov-2025	365 days	72 days	✓	
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLNPS6	E512	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	84 days	✓	
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWSS5	E512	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	84 days	✓	
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWYS1	E512	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	84 days	✓	



Matrix: Biota Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis				
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWYS2	E512	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	84 days	✓	
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWYS3	E512	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	84 days	✓	
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWYS4	E512	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	84 days	✓	
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWYS7	E512	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	84 days	✓	
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT OLLWS84	E512	09-Sep-2025	03-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	85 days	✓	
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT OLLWS87	E512	09-Sep-2025	03-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	85 days	✓	
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT OLNPS60	E512	09-Sep-2025	03-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	85 days	✓	
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT OLNPS65	E512	09-Sep-2025	03-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	85 days	✓	
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT OLNPS69	E512	09-Sep-2025	03-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	85 days	✓	



Matrix: **Biota** 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	
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT OLNPS70	E512	09-Sep-2025	03-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	85 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT OLWLS62	E512	09-Sep-2025	03-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	85 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT OLWLS63	E512	09-Sep-2025	03-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	85 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT OLWLS64	E512	09-Sep-2025	03-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	85 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT OLWLS67	E512	09-Sep-2025	03-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	85 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT OLWLS68	E512	09-Sep-2025	03-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	85 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT OLWSS61	E512	09-Sep-2025	03-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	85 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT OLWSS86	E512	09-Sep-2025	03-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	85 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT OLWYS66	E512	09-Sep-2025	03-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	85 days	✓



Matrix: Biota Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT OLWYS85	E512	09-Sep-2025	03-Dec-2025	365 days	85 days	✔	08-Dec-2025	365 days	85 days	✔
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLNPS6	E512A	10-Sep-2025	03-Dec-2025	365 days	84 days	✔	08-Dec-2025	365 days	84 days	✔
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWSS5	E512A	10-Sep-2025	03-Dec-2025	365 days	84 days	✔	08-Dec-2025	365 days	84 days	✔
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWYS1	E512A	10-Sep-2025	03-Dec-2025	365 days	84 days	✔	08-Dec-2025	365 days	84 days	✔
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWYS2	E512A	10-Sep-2025	03-Dec-2025	365 days	84 days	✔	08-Dec-2025	365 days	84 days	✔
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWYS3	E512A	10-Sep-2025	03-Dec-2025	365 days	84 days	✔	08-Dec-2025	365 days	84 days	✔
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWYS4	E512A	10-Sep-2025	03-Dec-2025	365 days	84 days	✔	08-Dec-2025	365 days	84 days	✔
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWYS7	E512A	10-Sep-2025	03-Dec-2025	365 days	84 days	✔	08-Dec-2025	365 days	84 days	✔
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT OLLWS84	E512A	09-Sep-2025	03-Dec-2025	365 days	85 days	✔	08-Dec-2025	365 days	85 days	✔



Matrix: Biota 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	
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT OLLWS87	E512A	09-Sep-2025	03-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	85 days	✓
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT OLNPS60	E512A	09-Sep-2025	03-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	85 days	✓
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT OLNPS65	E512A	09-Sep-2025	03-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	85 days	✓
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT OLNPS69	E512A	09-Sep-2025	03-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	85 days	✓
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT OLNPS70	E512A	09-Sep-2025	03-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	85 days	✓
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT OLWLS62	E512A	09-Sep-2025	03-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	85 days	✓
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT OLWLS63	E512A	09-Sep-2025	03-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	85 days	✓
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT OLWLS64	E512A	09-Sep-2025	03-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	85 days	✓
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT OLWLS67	E512A	09-Sep-2025	03-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	85 days	✓



Matrix: Biota 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		
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)											
LDPE bag 25ONG309 FT OLWLS68	E512A	09-Sep-2025	03-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	85 days	✓	
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)											
LDPE bag 25ONG309 FT OLWSS61	E512A	09-Sep-2025	03-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	85 days	✓	
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)											
LDPE bag 25ONG309 FT OLWSS86	E512A	09-Sep-2025	03-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	85 days	✓	
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)											
LDPE bag 25ONG309 FT OLWYS66	E512A	09-Sep-2025	03-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	85 days	✓	
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)											
LDPE bag 25ONG309 FT OLWYS85	E512A	09-Sep-2025	03-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	85 days	✓	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLNPS6	E475	10-Sep-2025	03-Dec-2025	730 days	84 days	✓	04-Dec-2025	730 days	84 days	✓	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWSS5	E475	10-Sep-2025	03-Dec-2025	730 days	84 days	✓	04-Dec-2025	730 days	84 days	✓	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWYS1	E475	10-Sep-2025	03-Dec-2025	730 days	84 days	✓	04-Dec-2025	730 days	84 days	✓	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWYS2	E475	10-Sep-2025	03-Dec-2025	730 days	84 days	✓	04-Dec-2025	730 days	84 days	✓	



Matrix: Biota Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis				
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWYS3	E475	10-Sep-2025	03-Dec-2025	730 days	84 days	✓	04-Dec-2025	730 days	84 days	✓	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWYS4	E475	10-Sep-2025	03-Dec-2025	730 days	84 days	✓	04-Dec-2025	730 days	84 days	✓	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWYS7	E475	10-Sep-2025	03-Dec-2025	730 days	84 days	✓	04-Dec-2025	730 days	84 days	✓	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT OLLWS84	E475	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT OLLWS87	E475	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT OLNPS60	E475	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT OLNPS65	E475	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT OLNPS69	E475	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT OLNPS70	E475	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓	



Matrix: Biota Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT OLWLS62	E475	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓
Metals : Metals by CRC ICPMS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT OLWLS63	E475	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓
Metals : Metals by CRC ICPMS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT OLWLS64	E475	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓
Metals : Metals by CRC ICPMS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT OLWLS67	E475	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓
Metals : Metals by CRC ICPMS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT OLWLS68	E475	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓
Metals : Metals by CRC ICPMS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT OLWSS61	E475	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓
Metals : Metals by CRC ICPMS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT OLWSS86	E475	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓
Metals : Metals by CRC ICPMS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT OLWYS66	E475	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓
Metals : Metals by CRC ICPMS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT OLWYS85	E475	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓



Matrix: Biota Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	(s)	Method	Sampling Date	Extraction / Preparation			Analysis				
				Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
					Rec	Actual			Rec	Actual	
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)											
LDPE bag 25ONG309 FT HLNPS6		E475A	10-Sep-2025	03-Dec-2025	730 days	84 days	✓	04-Dec-2025	730 days	84 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)											
LDPE bag 25ONG309 FT HLWSS5		E475A	10-Sep-2025	03-Dec-2025	730 days	84 days	✓	04-Dec-2025	730 days	84 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)											
LDPE bag 25ONG309 FT HLWYS1		E475A	10-Sep-2025	03-Dec-2025	730 days	84 days	✓	04-Dec-2025	730 days	84 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)											
LDPE bag 25ONG309 FT HLWYS2		E475A	10-Sep-2025	03-Dec-2025	730 days	84 days	✓	04-Dec-2025	730 days	84 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)											
LDPE bag 25ONG309 FT HLWYS3		E475A	10-Sep-2025	03-Dec-2025	730 days	84 days	✓	04-Dec-2025	730 days	84 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)											
LDPE bag 25ONG309 FT HLWYS4		E475A	10-Sep-2025	03-Dec-2025	730 days	84 days	✓	04-Dec-2025	730 days	84 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)											
LDPE bag 25ONG309 FT HLWYS7		E475A	10-Sep-2025	03-Dec-2025	730 days	84 days	✓	04-Dec-2025	730 days	84 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)											
LDPE bag 25ONG309 FT OLLWS84		E475A	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)											
LDPE bag 25ONG309 FT OLLWS87		E475A	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓



Matrix: Biota 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	
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT OLNPS60	E475A	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT OLNPS65	E475A	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT OLNPS69	E475A	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT OLNPS70	E475A	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT OLWLS62	E475A	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT OLWLS63	E475A	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT OLWLS64	E475A	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT OLWLS67	E475A	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT OLWLS68	E475A	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓



Matrix: Biota 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	
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT OLWSS61	E475A	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT OLWSS86	E475A	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT OLWYS66	E475A	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT OLWYS85	E475A	09-Sep-2025	03-Dec-2025	730 days	85 days	✓	04-Dec-2025	730 days	85 days	✓
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLNPS6	E144A	10-Sep-2025	----	----	----		26-Nov-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLWSS5	E144A	10-Sep-2025	----	----	----		26-Nov-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLWYS1	E144A	10-Sep-2025	----	----	----		26-Nov-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLWYS2	E144A	10-Sep-2025	----	----	----		26-Nov-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLWYS3	E144A	10-Sep-2025	----	----	----		26-Nov-2025	----	----	



Matrix: **Biota** 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 : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLWYS4	E144A	10-Sep-2025	----	----	----		26-Nov-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLWYS7	E144A	10-Sep-2025	----	----	----		26-Nov-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT OLLWS84	E144A	09-Sep-2025	----	----	----		26-Nov-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT OLLWS87	E144A	09-Sep-2025	----	----	----		26-Nov-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT OLNPS60	E144A	09-Sep-2025	----	----	----		26-Nov-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT OLNPS65	E144A	09-Sep-2025	----	----	----		26-Nov-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT OLNPS69	E144A	09-Sep-2025	----	----	----		26-Nov-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT OLNPS70	E144A	09-Sep-2025	----	----	----		26-Nov-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT OLWLS62	E144A	09-Sep-2025	----	----	----		26-Nov-2025	----	----	



Matrix: **Biota** 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 : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT OLWLS63	E144A	09-Sep-2025	----	----	----		26-Nov-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT OLWLS64	E144A	09-Sep-2025	----	----	----		26-Nov-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT OLWLS67	E144A	09-Sep-2025	----	----	----		26-Nov-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT OLWLS68	E144A	09-Sep-2025	----	----	----		26-Nov-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT OLWSS61	E144A	09-Sep-2025	----	----	----		26-Nov-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT OLWSS86	E144A	09-Sep-2025	----	----	----		26-Nov-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT OLWYS66	E144A	09-Sep-2025	----	----	----		26-Nov-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT OLWYS85	E144A	09-Sep-2025	----	----	----		26-Nov-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLNPS6	E144	10-Sep-2025	----	----	----		03-Dec-2025	----	----	



Matrix: **Biota** 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 : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLWSS5	E144	10-Sep-2025	----	----	----		03-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLWYS1	E144	10-Sep-2025	----	----	----		03-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLWYS2	E144	10-Sep-2025	----	----	----		03-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLWYS3	E144	10-Sep-2025	----	----	----		03-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLWYS4	E144	10-Sep-2025	----	----	----		03-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLWYS7	E144	10-Sep-2025	----	----	----		03-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT OLLWS84	E144	09-Sep-2025	----	----	----		03-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT OLLWS87	E144	09-Sep-2025	----	----	----		03-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT OLNPS60	E144	09-Sep-2025	----	----	----		03-Dec-2025	----	----	



Matrix: **Biota** 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 : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT OLNPS65	E144	09-Sep-2025	----	----	----		03-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT OLNPS69	E144	09-Sep-2025	----	----	----		03-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT OLNPS70	E144	09-Sep-2025	----	----	----		03-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT OLWLS62	E144	09-Sep-2025	----	----	----		03-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT OLWLS63	E144	09-Sep-2025	----	----	----		03-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT OLWLS64	E144	09-Sep-2025	----	----	----		03-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT OLWLS67	E144	09-Sep-2025	----	----	----		03-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT OLWLS68	E144	09-Sep-2025	----	----	----		03-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT OLWSS61	E144	09-Sep-2025	----	----	----		03-Dec-2025	----	----	



Matrix: Biota Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT OLWSS86	E144	09-Sep-2025	----	----	----		03-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT OLWYS66	E144	09-Sep-2025	----	----	----		03-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT OLWYS85	E144	09-Sep-2025	----	----	----		03-Dec-2025	----	----	
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLNPS6	E538	10-Sep-2025	07-Jan-2026	365 days	120 days	✓	08-Jan-2026	365 days	1 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLWSS5	E538	10-Sep-2025	07-Jan-2026	365 days	120 days	✓	08-Jan-2026	365 days	1 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLWYS1	E538	10-Sep-2025	07-Jan-2026	365 days	120 days	✓	08-Jan-2026	365 days	1 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLWYS2	E538	10-Sep-2025	07-Jan-2026	365 days	120 days	✓	08-Jan-2026	365 days	1 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLWYS3	E538	10-Sep-2025	07-Jan-2026	365 days	120 days	✓	08-Jan-2026	365 days	1 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLWYS4	E538	10-Sep-2025	07-Jan-2026	365 days	120 days	✓	08-Jan-2026	365 days	1 days	✓



Matrix: **Biota** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLWYS7	E538	10-Sep-2025	07-Jan-2026	365 days	120 days	✓	08-Jan-2026	365 days	1 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT OLNPS60	E538	09-Sep-2025	07-Jan-2026	365 days	121 days	✓	08-Jan-2026	365 days	0 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT OLNPS65	E538	09-Sep-2025	07-Jan-2026	365 days	121 days	✓	08-Jan-2026	365 days	0 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT OLWLS62	E538	09-Sep-2025	07-Jan-2026	365 days	121 days	✓	08-Jan-2026	365 days	0 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT OLWLS63	E538	09-Sep-2025	07-Jan-2026	365 days	121 days	✓	08-Jan-2026	365 days	0 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT OLWLS64	E538	09-Sep-2025	07-Jan-2026	365 days	121 days	✓	08-Jan-2026	365 days	0 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT OLWSS61	E538	09-Sep-2025	07-Jan-2026	365 days	121 days	✓	08-Jan-2026	365 days	0 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT OLLWS84	E538	09-Sep-2025	07-Jan-2026	365 days	121 days	✓	08-Jan-2026	365 days	1 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT OLLWS87	E538	09-Sep-2025	07-Jan-2026	365 days	121 days	✓	08-Jan-2026	365 days	1 days	✓



Matrix: **Biota** 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	
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT OLNPS69	E538	09-Sep-2025	07-Jan-2026	365 days	121 days	✓	08-Jan-2026	365 days	1 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT OLNPS70	E538	09-Sep-2025	07-Jan-2026	365 days	121 days	✓	08-Jan-2026	365 days	1 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT OLWLS67	E538	09-Sep-2025	07-Jan-2026	365 days	121 days	✓	08-Jan-2026	365 days	1 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT OLWLS68	E538	09-Sep-2025	07-Jan-2026	365 days	121 days	✓	08-Jan-2026	365 days	1 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT OLWSS86	E538	09-Sep-2025	07-Jan-2026	365 days	121 days	✓	08-Jan-2026	365 days	1 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT OLWYS66	E538	09-Sep-2025	07-Jan-2026	365 days	121 days	✓	08-Jan-2026	365 days	1 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT OLWYS85	E538	09-Sep-2025	07-Jan-2026	365 days	121 days	✓	08-Jan-2026	365 days	1 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: **Biota**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type	Method	QC Lot #	Count		Frequency (%)		
			QC	Regular	Actual	Expected	Evaluation
Analytical Methods							
Laboratory Duplicates (DUP)							
Moisture Content by Gravimetry	E144	2367545	0	40	0.0	5.0	✖
Methylmercury in Biota by GCAFS (DRY units, Routine)	E538	2407823	2	32	6.2	5.0	✔
Lipids by Gravimetry	E564B	2346372	2	40	5.0	5.0	✔
Laboratory Control Samples (LCS)							
Moisture Content by Gravimetry	E144	2367545	2	40	5.0	5.0	✔
Moisture Content by Gravimetry (Biopsy)	E144A	2356170	2	40	5.0	5.0	✔
Metals by CRC ICPMS (DRY units, Biopsy)	E475	2366702	4	40	10.0	10.0	✔
Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)	E475A	2366701	4	40	10.0	10.0	✔
Mercury in Biota by CVAAS (DRY units, Biopsy)	E512	2366703	4	40	10.0	10.0	✔
Mercury in Biota by CVAAS (Wet Weight, Biopsy)	E512A	2366700	4	40	10.0	10.0	✔
Methylmercury in Biota by GCAFS (DRY units, Routine)	E538	2407823	4	32	12.5	10.0	✔
Lipids by Gravimetry	E564B	2346372	2	40	5.0	5.0	✔
Method Blanks (MB)							
Moisture Content by Gravimetry	E144	2367545	2	40	5.0	5.0	✔
Moisture Content by Gravimetry (Biopsy)	E144A	2356170	2	40	5.0	5.0	✔
Metals by CRC ICPMS (DRY units, Biopsy)	E475	2366702	2	40	5.0	5.0	✔
Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)	E475A	2366701	2	40	5.0	5.0	✔
Mercury in Biota by CVAAS (DRY units, Biopsy)	E512	2366703	2	40	5.0	5.0	✔
Mercury in Biota by CVAAS (Wet Weight, Biopsy)	E512A	2366700	2	40	5.0	5.0	✔
Methylmercury in Biota by GCAFS (DRY units, Routine)	E538	2407823	2	32	6.2	5.0	✔
Lipids by Gravimetry	E564B	2346372	2	40	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
Moisture Content by Gravimetry	E144 ALS Environmental - Vancouver	Biota	ASTM Method D4638-16 (mod)	Moisture is measured gravimetrically by drying the sample at 105°C. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
Moisture Content by Gravimetry (Biopsy)	E144A ALS Environmental - Vancouver	Biota	ASTM Method D4638-16 (mod)	Moisture is measured gravimetrically by drying the sample at <60°C for a minimum of 3 days to constant weight. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
Metals by CRC ICPMS (DRY units, Biopsy)	E475 ALS Environmental - Vancouver	Biota	EPA 200.3/6020B (mod)	Samples are digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Analysis is by Collision/Reaction Cell ICPMS: This method employs a strong acid/peroxide digestion, and is intended to provide a conservative estimate of bio-available metals. Near complete recoveries are achieved for most toxicologically important metals, but elements associated with recalcitrant minerals may be only partially recovered.
Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)	E475A ALS Environmental - Vancouver	Biota	EPA 200.3/6020B (mod)	Samples are digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Analysis is by Collision/Reaction Cell ICPMS. Method Limitation: This method employs a strong acid/peroxide digestion, and is intended to provide a conservative estimate of bio-available metals. Near complete recoveries are achieved for most toxicologically important metals, but elements associated with recalcitrant minerals may be only partially recovered.
Mercury in Biota by CVAAS (DRY units, Biopsy)	E512 ALS Environmental - Vancouver	Biota	EPA 200.3/1631 Appendix (mod)	Samples are digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Analysis is by CVAAS.
Mercury in Biota by CVAAS (Wet Weight, Biopsy)	E512A ALS Environmental - Vancouver	Biota	EPA 200.3/1631 Appendix (mod)	Samples are homogenized digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Analysis is by CVAAS.
Methylmercury in Biota by GCAFS (DRY units, Routine)	E538 ALS Environmental - Vancouver	Biota	Liang et al. (1994)/EPA 1630 (mod)	This method follows the procedures published by Liang, Bloom and Horvat in Clinical Chemistry (Vol 40, No 4, 1994). Samples are homogenized and then digested in a methanolic potassium hydroxide solution. An aliquot of the digestate is analyzed by aqueous phase ethylation, purge and trap, desorption and GC separation. The separated species are then pyrolyzed to elemental Hg and quantified by cold vapour atomic fluorescence spectroscopy. Results are reported "as MeHg".
Lipids by Gravimetry	E564B ALS Environmental - Vancouver	Biota	EPA 8290A (mod)	Lipids are extracted from the sample, after which the extract is evaporated in a pre-weighed container and the mass of the residue is determined gravimetrically.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions



<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Metals and Mercury Biota Digestion (Biopsy)	EP475 ALS Environmental - Vancouver	Biota	EPA 200.3/200.8 (mod)	Samples are digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Method Limitation: This method employs a strong acid/peroxide digestion, and is intended to provide a conservative estimate of bio-available metals. Near complete recoveries are achieved for most toxicologically important metals, but elements associated with recalcitrant minerals may be only partially recovered.
Methylmercury Biota Preparation	EP538 ALS Environmental - Vancouver	Biota	Liang et al. (1994)	This method follows the procedures published by Liang, Bloom and Horvat in Clinical Chemistry (Vol 40, No 4, 1994). Samples are homogenized and then digested in a methanolic potassium hydroxide solution.
Lipids Extraction by Tumbler	EP564 ALS Environmental - Vancouver	Biota	EPA 3570 (mod)	A homogenized biota sample is extracted with dichloromethane by a rotary extractor to yield sample's lipid content.



QUALITY CONTROL REPORT

Work Order : TY2510937

Client : G3 Consulting Ltd.
 Contact : Greg Thomas
 Address : 206-8501 162nd St.
 Surrey BC Canada V4N 1B2
 Telephone : 604 598 8501
 Project : 2502
 PO : 2502
 C-O-C number : ----
 Sampler : ----
 Site : ----
 Quote number : Dubreuilville Project
 No. of samples received : 22
 No. of samples analysed : 22

Laboratory : ALS Environmental - Thunder Bay
 Account Manager : Colby Coutu
 Address : 1081 Barton Street
 Thunder Bay ON Canada P7B 5N3
 Telephone : +1 807 623 6463
 Date Samples Received : 19-Sep-2025 16:54
 Date Analysis Commenced : 22-Nov-2025
 Issue Date : 12-Jan-2026 12:38

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
- @ReferenceMaterial!
- 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
Cesar Mora	Lab Assistant	Vancouver Metals, Burnaby, British Columbia
Dan Gebert	Supervisor - Metals Mercury & Speciation	Vancouver Metals, Burnaby, British Columbia
Hamidreza Hamidzadeh	Lab Assistant	Vancouver Metals, Burnaby, British Columbia
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Vancouver Metals, Burnaby, British Columbia
Kim Jensen	Department Manager - Metals	Vancouver Metals, Burnaby, British Columbia
Robin Weeks	Supervisor - Organics Extractions	Vancouver Organics, Burnaby, British Columbia
Shahrzad Firoozbakht	Lab Assistant	Vancouver Metals, Burnaby, British Columbia



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: Tissue

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
Speciated Metals(QC Lot: 2407823)											
TY2510937-001	25ONG309 FT OLNPS60	Methylmercury (as MeHg)	22967-92-6	E538	5.0	µg/kg	1730	1730	0.423 %	30%	---
Speciated Metals(QC Lot: 2407824)											
TY2510937-007	25ONG309 FT OLWYS66	Methylmercury (as MeHg)	22967-92-6	E538	5.0	µg/kg	1390	1230	12.5 %	30%	---
Aggregate Organics(QC Lot: 2346372)											
TY2510927-020	Anonymous	Lipid content	----	E564B	0.50	% wwt	0.56	0.61	0.05	Diff <2x LOR	---
Aggregate Organics(QC Lot: 2346394)											
TY2510937-014	25ONG309 FT OLWSS86	Lipid content	----	E564B	0.50	% wwt	<0.50	<0.50	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: Biota

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests(QC Lot: 2356170)						
Moisture	----	E144A	2	%	<2.0	----
Physical Tests(QC Lot: 2356176)						
Moisture	----	E144A	2	%	<2.0	----
Physical Tests(QC Lot: 2367545)						
Moisture	----	E144	0.5	%	<0.50	----
Physical Tests(QC Lot: 2367697)						
Moisture	----	E144	0.5	%	<0.50	----
Metals(QC Lot: 2366700)						
Mercury	7439-97-6	E512A	0.002	mg/kg wwt	<0.0020	----
Metals(QC Lot: 2366701)						
Aluminum	7429-90-5	E475A	1	mg/kg wwt	<1.0	----
Antimony	7440-36-0	E475A	0.004	mg/kg wwt	<0.0040	----
Arsenic	7440-38-2	E475A	0.01	mg/kg wwt	<0.010	----
Barium	7440-39-3	E475A	0.01	mg/kg wwt	<0.010	----



Sub-Matrix: Biota

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals(QC Lot: 2366701)						
Beryllium	7440-41-7	E475A	0.002	mg/kg ww	<0.0020	----
Bismuth	7440-69-9	E475A	0.002	mg/kg ww	<0.0020	----
Boron	7440-42-8	E475A	0.2	mg/kg ww	<0.20	----
Cadmium	7440-43-9	E475A	0.002	mg/kg ww	<0.0020	----
Calcium	7440-70-2	E475A	4	mg/kg ww	<4.0	----
Cesium	7440-46-2	E475A	0.001	mg/kg ww	<0.0010	----
Chromium	7440-47-3	E475A	0.04	mg/kg ww	<0.040	----
Cobalt	7440-48-4	E475A	0.004	mg/kg ww	<0.0040	----
Copper	7440-50-8	E475A	0.04	mg/kg ww	<0.040	----
Iron	7439-89-6	E475A	1	mg/kg ww	<1.0	----
Lead	7439-92-1	E475A	0.01	mg/kg ww	<0.010	----
Lithium	7439-93-2	E475A	0.1	mg/kg ww	<0.10	----
Magnesium	7439-95-4	E475A	0.4	mg/kg ww	<0.40	----
Manganese	7439-96-5	E475A	0.01	mg/kg ww	<0.010	----
Molybdenum	7439-98-7	E475A	0.008	mg/kg ww	<0.0080	----
Nickel	7440-02-0	E475A	0.04	mg/kg ww	<0.040	----
Phosphorus	7723-14-0	E475A	4	mg/kg ww	<4.0	----
Potassium	7440-09-7	E475A	4	mg/kg ww	<4.0	----
Rubidium	7440-17-7	E475A	0.01	mg/kg ww	<0.010	----
Selenium	7782-49-2	E475A	0.02	mg/kg ww	<0.020	----
Sodium	7440-23-5	E475A	4	mg/kg ww	<4.0	----
Strontium	7440-24-6	E475A	0.02	mg/kg ww	<0.020	----
Tellurium	13494-80-9	E475A	0.004	mg/kg ww	<0.0040	----
Thallium	7440-28-0	E475A	0.0004	mg/kg ww	<0.00040	----
Tin	7440-31-5	E475A	0.02	mg/kg ww	<0.020	----
Uranium	7440-61-1	E475A	0.0004	mg/kg ww	<0.00040	----
Vanadium	7440-62-2	E475A	0.02	mg/kg ww	<0.020	----
Zinc	7440-66-6	E475A	0.2	mg/kg ww	<0.20	----
Zirconium	7440-67-7	E475A	0.04	mg/kg ww	<0.040	----
Metals(QC Lot: 2366702)						
Aluminum	7429-90-5	E475	5	mg/kg	<5.0	----
Antimony	7440-36-0	E475	0.02	mg/kg	<0.020	----
Arsenic	7440-38-2	E475	0.05	mg/kg	<0.050	----
Barium	7440-39-3	E475	0.05	mg/kg	<0.050	----
Beryllium	7440-41-7	E475	0.01	mg/kg	<0.010	----
Bismuth	7440-69-9	E475	0.01	mg/kg	<0.010	----
Boron	7440-42-8	E475	1	mg/kg	<1.0	----
Cadmium	7440-43-9	E475	0.01	mg/kg	<0.010	----



Sub-Matrix: Biota

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals(QC Lot: 2366702)						
Calcium	7440-70-2	E475	20	mg/kg	<20	----
Cesium	7440-46-2	E475	0.005	mg/kg	<0.0050	----
Chromium	7440-47-3	E475	0.2	mg/kg	<0.20	----
Cobalt	7440-48-4	E475	0.02	mg/kg	<0.020	----
Copper	7440-50-8	E475	0.2	mg/kg	<0.20	----
Iron	7439-89-6	E475	5	mg/kg	<5.0	----
Lead	7439-92-1	E475	0.05	mg/kg	<0.050	----
Lithium	7439-93-2	E475	0.5	mg/kg	<0.50	----
Magnesium	7439-95-4	E475	2	mg/kg	<2.0	----
Manganese	7439-96-5	E475	0.05	mg/kg	<0.050	----
Molybdenum	7439-98-7	E475	0.04	mg/kg	<0.040	----
Nickel	7440-02-0	E475	0.2	mg/kg	<0.20	----
Phosphorus	7723-14-0	E475	20	mg/kg	<20	----
Potassium	7440-09-7	E475	20	mg/kg	<20	----
Rubidium	7440-17-7	E475	0.05	mg/kg	<0.050	----
Selenium	7782-49-2	E475	0.1	mg/kg	<0.10	----
Sodium	7440-23-5	E475	20	mg/kg	<20	----
Strontium	7440-24-6	E475	0.1	mg/kg	<0.10	----
Tellurium	13494-80-9	E475	0.02	mg/kg	<0.020	----
Thallium	7440-28-0	E475	0.002	mg/kg	<0.0020	----
Tin	7440-31-5	E475	0.1	mg/kg	<0.10	----
Uranium	7440-61-1	E475	0.002	mg/kg	<0.0020	----
Vanadium	7440-62-2	E475	0.1	mg/kg	<0.10	----
Zinc	7440-66-6	E475	1	mg/kg	<1.0	----
Zirconium	7440-67-7	E475	0.2	mg/kg	<0.20	----
Metals(QC Lot: 2366703)						
Mercury	7439-97-6	E512	0.01	mg/kg	<0.010	----
Metals(QC Lot: 2366716)						
Mercury	7439-97-6	E512A	0.002	mg/kg wwt	<0.0020	----
Metals(QC Lot: 2366717)						
Aluminum	7429-90-5	E475A	1	mg/kg wwt	<1.0	----
Antimony	7440-36-0	E475A	0.004	mg/kg wwt	<0.0040	----
Arsenic	7440-38-2	E475A	0.01	mg/kg wwt	<0.010	----
Barium	7440-39-3	E475A	0.01	mg/kg wwt	<0.010	----
Beryllium	7440-41-7	E475A	0.002	mg/kg wwt	<0.0020	----
Bismuth	7440-69-9	E475A	0.002	mg/kg wwt	<0.0020	----
Boron	7440-42-8	E475A	0.2	mg/kg wwt	<0.20	----
Cadmium	7440-43-9	E475A	0.002	mg/kg wwt	<0.0020	----



Sub-Matrix: Biota

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals(QC Lot: 2366717)						
Calcium	7440-70-2	E475A	4	mg/kg ww	<4.0	---
Cesium	7440-46-2	E475A	0.001	mg/kg ww	<0.0010	---
Chromium	7440-47-3	E475A	0.04	mg/kg ww	<0.040	---
Cobalt	7440-48-4	E475A	0.004	mg/kg ww	<0.0040	---
Copper	7440-50-8	E475A	0.04	mg/kg ww	<0.040	---
Iron	7439-89-6	E475A	1	mg/kg ww	<1.0	---
Lead	7439-92-1	E475A	0.01	mg/kg ww	<0.010	---
Lithium	7439-93-2	E475A	0.1	mg/kg ww	<0.10	---
Magnesium	7439-95-4	E475A	0.4	mg/kg ww	<0.40	---
Manganese	7439-96-5	E475A	0.01	mg/kg ww	<0.010	---
Molybdenum	7439-98-7	E475A	0.008	mg/kg ww	<0.0080	---
Nickel	7440-02-0	E475A	0.04	mg/kg ww	<0.040	---
Phosphorus	7723-14-0	E475A	4	mg/kg ww	<4.0	---
Potassium	7440-09-7	E475A	4	mg/kg ww	<4.0	---
Rubidium	7440-17-7	E475A	0.01	mg/kg ww	<0.010	---
Selenium	7782-49-2	E475A	0.02	mg/kg ww	<0.020	---
Sodium	7440-23-5	E475A	4	mg/kg ww	<4.0	---
Strontium	7440-24-6	E475A	0.02	mg/kg ww	<0.020	---
Tellurium	13494-80-9	E475A	0.004	mg/kg ww	<0.0040	---
Thallium	7440-28-0	E475A	0.0004	mg/kg ww	<0.00040	---
Tin	7440-31-5	E475A	0.02	mg/kg ww	<0.020	---
Uranium	7440-61-1	E475A	0.0004	mg/kg ww	<0.00040	---
Vanadium	7440-62-2	E475A	0.02	mg/kg ww	<0.020	---
Zinc	7440-66-6	E475A	0.2	mg/kg ww	<0.20	---
Zirconium	7440-67-7	E475A	0.04	mg/kg ww	<0.040	---
Metals(QC Lot: 2366718)						
Aluminum	7429-90-5	E475	5	mg/kg	<5.0	---
Antimony	7440-36-0	E475	0.02	mg/kg	<0.020	---
Arsenic	7440-38-2	E475	0.05	mg/kg	<0.050	---
Barium	7440-39-3	E475	0.05	mg/kg	<0.050	---
Beryllium	7440-41-7	E475	0.01	mg/kg	<0.010	---
Bismuth	7440-69-9	E475	0.01	mg/kg	<0.010	---
Boron	7440-42-8	E475	1	mg/kg	<1.0	---
Cadmium	7440-43-9	E475	0.01	mg/kg	<0.010	---
Calcium	7440-70-2	E475	20	mg/kg	<20	---
Cesium	7440-46-2	E475	0.005	mg/kg	<0.0050	---
Chromium	7440-47-3	E475	0.2	mg/kg	<0.20	---
Cobalt	7440-48-4	E475	0.02	mg/kg	<0.020	---



Sub-Matrix: Biota

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals(QC Lot: 2366718)						
Copper	7440-50-8	E475	0.2	mg/kg	<0.20	----
Iron	7439-89-6	E475	5	mg/kg	<5.0	----
Lead	7439-92-1	E475	0.05	mg/kg	<0.050	----
Lithium	7439-93-2	E475	0.5	mg/kg	<0.50	----
Magnesium	7439-95-4	E475	2	mg/kg	<2.0	----
Manganese	7439-96-5	E475	0.05	mg/kg	<0.050	----
Molybdenum	7439-98-7	E475	0.04	mg/kg	<0.040	----
Nickel	7440-02-0	E475	0.2	mg/kg	<0.20	----
Phosphorus	7723-14-0	E475	20	mg/kg	<20	----
Potassium	7440-09-7	E475	20	mg/kg	<20	----
Rubidium	7440-17-7	E475	0.05	mg/kg	<0.050	----
Selenium	7782-49-2	E475	0.1	mg/kg	<0.10	----
Sodium	7440-23-5	E475	20	mg/kg	<20	----
Strontium	7440-24-6	E475	0.1	mg/kg	<0.10	----
Tellurium	13494-80-9	E475	0.02	mg/kg	<0.020	----
Thallium	7440-28-0	E475	0.002	mg/kg	<0.0020	----
Tin	7440-31-5	E475	0.1	mg/kg	<0.10	----
Uranium	7440-61-1	E475	0.002	mg/kg	<0.0020	----
Vanadium	7440-62-2	E475	0.1	mg/kg	<0.10	----
Zinc	7440-66-6	E475	1	mg/kg	<1.0	----
Zirconium	7440-67-7	E475	0.2	mg/kg	<0.20	----
Metals(QC Lot: 2366719)						
Mercury	7439-97-6	E512	0.01	mg/kg	<0.010	----
Speciated Metals(QC Lot: 2407823)						
Methylmercury (as MeHg)	22967-92-6	E538	5	µg/kg	<5.0	----
Speciated Metals(QC Lot: 2407824)						
Methylmercury (as MeHg)	22967-92-6	E538	5	µg/kg	<5.0	----
Aggregate Organics(QC Lot: 2346372)						
Lipid content	----	E564B	0.5	% wwt	<0.50	----
Aggregate Organics(QC Lot: 2346394)						
Lipid content	----	E564B	0.5	% wwt	<0.50	----

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: Biota

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests(QC Lot: 2356170)									
Moisture	----	E144A	2	%	100 %	100	90.0	110	----
Physical Tests(QC Lot: 2356176)									
Moisture	----	E144A	2	%	100 %	100	90.0	110	----
Physical Tests(QC Lot: 2367545)									
Moisture	----	E144	0.5	%	100 %	100	90.0	110	----
Physical Tests(QC Lot: 2367697)									
Moisture	----	E144	0.5	%	100 %	100	90.0	110	----
Metals(QC Lot: 2366700)									
Mercury	7439-97-6	E512A	0.002	mg/kg wwt	0.05 mg/kg wwt	103	80.0	120	----
Metals(QC Lot: 2366701)									
Aluminum	7429-90-5	E475A	1	mg/kg wwt	50 mg/kg wwt	101	80.0	120	----
Antimony	7440-36-0	E475A	0.004	mg/kg wwt	25 mg/kg wwt	102	80.0	120	----
Arsenic	7440-38-2	E475A	0.01	mg/kg wwt	25 mg/kg wwt	103	80.0	120	----
Barium	7440-39-3	E475A	0.01	mg/kg wwt	6.25 mg/kg wwt	103	80.0	120	----
Beryllium	7440-41-7	E475A	0.002	mg/kg wwt	2.5 mg/kg wwt	93.8	80.0	120	----
Bismuth	7440-69-9	E475A	0.002	mg/kg wwt	25 mg/kg wwt	95.5	80.0	120	----
Boron	7440-42-8	E475A	0.2	mg/kg wwt	25 mg/kg wwt	101	80.0	120	----
Cadmium	7440-43-9	E475A	0.002	mg/kg wwt	2.5 mg/kg wwt	95.0	80.0	120	----
Calcium	7440-70-2	E475A	4	mg/kg wwt	1250 mg/kg wwt	94.6	80.0	120	----
Cesium	7440-46-2	E475A	0.001	mg/kg wwt	1.25 mg/kg wwt	104	80.0	120	----
Chromium	7440-47-3	E475A	0.04	mg/kg wwt	6.25 mg/kg wwt	99.7	80.0	120	----
Cobalt	7440-48-4	E475A	0.004	mg/kg wwt	6.25 mg/kg wwt	98.1	80.0	120	----
Copper	7440-50-8	E475A	0.04	mg/kg wwt	6.25 mg/kg wwt	96.8	80.0	120	----
Iron	7439-89-6	E475A	1	mg/kg wwt	25 mg/kg wwt	101	80.0	120	----
Lead	7439-92-1	E475A	0.01	mg/kg wwt	12.5 mg/kg wwt	94.0	80.0	120	----
Lithium	7439-93-2	E475A	0.1	mg/kg wwt	6.25 mg/kg wwt	94.8	80.0	120	----
Magnesium	7439-95-4	E475A	0.4	mg/kg wwt	1250 mg/kg wwt	98.1	80.0	120	----
Manganese	7439-96-5	E475A	0.01	mg/kg wwt	6.25 mg/kg wwt	100	80.0	120	----
Molybdenum	7439-98-7	E475A	0.008	mg/kg wwt	6.25 mg/kg wwt	108	80.0	120	----
Nickel	7440-02-0	E475A	0.04	mg/kg wwt	12.5 mg/kg wwt	97.2	80.0	120	----
Phosphorus	7723-14-0	E475A	4	mg/kg wwt	250 mg/kg wwt	105	80.0	120	----
Potassium	7440-09-7	E475A	4	mg/kg wwt	1250 mg/kg wwt	95.6	80.0	120	----
Rubidium	7440-17-7	E475A	0.01	mg/kg wwt	2.5 mg/kg wwt	102	80.0	120	----
Selenium	7782-49-2	E475A	0.02	mg/kg wwt	25 mg/kg wwt	100	80.0	120	----
Sodium	7440-23-5	E475A	4	mg/kg wwt	1250 mg/kg wwt	99.7	80.0	120	----
Strontium	7440-24-6	E475A	0.02	mg/kg wwt	6.25 mg/kg wwt	101	80.0	120	----
Tellurium	13494-80-9	E475A	0.004	mg/kg wwt	2.5 mg/kg wwt	98.6	80.0	120	----
Thallium	7440-28-0	E475A	0.0004	mg/kg wwt	25 mg/kg wwt	90.9	80.0	120	----



Sub-Matrix: Biota

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals(QC Lot: 2366701)									
Tin	7440-31-5	E475A	0.02	mg/kg ww	12.5 mg/kg ww	102	80.0	120	----
Uranium	7440-61-1	E475A	0.0004	mg/kg ww	0.125 mg/kg ww	93.3	80.0	120	----
Vanadium	7440-62-2	E475A	0.02	mg/kg ww	12.5 mg/kg ww	102	80.0	120	----
Zinc	7440-66-6	E475A	0.2	mg/kg ww	12.5 mg/kg ww	91.1	80.0	120	----
Zirconium	7440-67-7	E475A	0.04	mg/kg ww	2.5 mg/kg ww	109	80.0	120	----
Metals(QC Lot: 2366702)									
Aluminum	7429-90-5	E475	5	mg/kg	50 mg/kg	101	80.0	120	----
Antimony	7440-36-0	E475	0.02	mg/kg	25 mg/kg	102	80.0	120	----
Arsenic	7440-38-2	E475	0.05	mg/kg	25 mg/kg	103	80.0	120	----
Barium	7440-39-3	E475	0.05	mg/kg	6.25 mg/kg	103	80.0	120	----
Beryllium	7440-41-7	E475	0.01	mg/kg	2.5 mg/kg	93.8	80.0	120	----
Bismuth	7440-69-9	E475	0.01	mg/kg	25 mg/kg	95.5	80.0	120	----
Boron	7440-42-8	E475	1	mg/kg	25 mg/kg	101	80.0	120	----
Cadmium	7440-43-9	E475	0.01	mg/kg	2.5 mg/kg	95.0	80.0	120	----
Calcium	7440-70-2	E475	20	mg/kg	1250 mg/kg	94.6	80.0	120	----
Cesium	7440-46-2	E475	0.005	mg/kg	1.25 mg/kg	104	80.0	120	----
Chromium	7440-47-3	E475	0.2	mg/kg	6.25 mg/kg	99.7	80.0	120	----
Cobalt	7440-48-4	E475	0.02	mg/kg	6.25 mg/kg	98.1	80.0	120	----
Copper	7440-50-8	E475	0.2	mg/kg	6.25 mg/kg	96.8	80.0	120	----
Iron	7439-89-6	E475	5	mg/kg	25 mg/kg	101	80.0	120	----
Lead	7439-92-1	E475	0.05	mg/kg	12.5 mg/kg	94.0	80.0	120	----
Lithium	7439-93-2	E475	0.5	mg/kg	6.25 mg/kg	94.8	80.0	120	----
Magnesium	7439-95-4	E475	2	mg/kg	1250 mg/kg	98.1	80.0	120	----
Manganese	7439-96-5	E475	0.05	mg/kg	6.25 mg/kg	100	80.0	120	----
Molybdenum	7439-98-7	E475	0.04	mg/kg	6.25 mg/kg	108	80.0	120	----
Nickel	7440-02-0	E475	0.2	mg/kg	12.5 mg/kg	97.2	80.0	120	----
Phosphorus	7723-14-0	E475	20	mg/kg	250 mg/kg	105	80.0	120	----
Potassium	7440-09-7	E475	20	mg/kg	1250 mg/kg	95.6	80.0	120	----
Rubidium	7440-17-7	E475	0.05	mg/kg	2.5 mg/kg	102	80.0	120	----
Selenium	7782-49-2	E475	0.1	mg/kg	25 mg/kg	100	80.0	120	----
Sodium	7440-23-5	E475	20	mg/kg	1250 mg/kg	99.7	80.0	120	----
Strontium	7440-24-6	E475	0.1	mg/kg	6.25 mg/kg	101	80.0	120	----
Tellurium	13494-80-9	E475	0.02	mg/kg	2.5 mg/kg	98.6	80.0	120	----
Thallium	7440-28-0	E475	0.002	mg/kg	25 mg/kg	90.9	80.0	120	----
Tin	7440-31-5	E475	0.1	mg/kg	12.5 mg/kg	102	80.0	120	----
Uranium	7440-61-1	E475	0.002	mg/kg	0.125 mg/kg	93.3	80.0	120	----
Vanadium	7440-62-2	E475	0.1	mg/kg	12.5 mg/kg	102	80.0	120	----



Sub-Matrix: Biota

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals(QC Lot: 2366702)									
Zinc	7440-66-6	E475	1	mg/kg	12.5 mg/kg	91.1	80.0	120	----
Zirconium	7440-67-7	E475	0.2	mg/kg	2.5 mg/kg	109	80.0	120	----
Metals(QC Lot: 2366703)									
Mercury	7439-97-6	E512	0.01	mg/kg	0.05 mg/kg	103	80.0	120	----
Metals(QC Lot: 2366716)									
Mercury	7439-97-6	E512A	0.002	mg/kg wwt	0.05 mg/kg wwt	102	80.0	120	----
Metals(QC Lot: 2366717)									
Aluminum	7429-90-5	E475A	1	mg/kg wwt	50 mg/kg wwt	99.8	80.0	120	----
Antimony	7440-36-0	E475A	0.004	mg/kg wwt	25 mg/kg wwt	98.0	80.0	120	----
Arsenic	7440-38-2	E475A	0.01	mg/kg wwt	25 mg/kg wwt	97.1	80.0	120	----
Barium	7440-39-3	E475A	0.01	mg/kg wwt	6.25 mg/kg wwt	99.7	80.0	120	----
Beryllium	7440-41-7	E475A	0.002	mg/kg wwt	2.5 mg/kg wwt	92.5	80.0	120	----
Bismuth	7440-69-9	E475A	0.002	mg/kg wwt	25 mg/kg wwt	97.2	80.0	120	----
Boron	7440-42-8	E475A	0.2	mg/kg wwt	25 mg/kg wwt	95.4	80.0	120	----
Cadmium	7440-43-9	E475A	0.002	mg/kg wwt	2.5 mg/kg wwt	93.2	80.0	120	----
Calcium	7440-70-2	E475A	4	mg/kg wwt	1250 mg/kg wwt	96.8	80.0	120	----
Cesium	7440-46-2	E475A	0.001	mg/kg wwt	1.25 mg/kg wwt	107	80.0	120	----
Chromium	7440-47-3	E475A	0.04	mg/kg wwt	6.25 mg/kg wwt	99.2	80.0	120	----
Cobalt	7440-48-4	E475A	0.004	mg/kg wwt	6.25 mg/kg wwt	96.9	80.0	120	----
Copper	7440-50-8	E475A	0.04	mg/kg wwt	6.25 mg/kg wwt	96.8	80.0	120	----
Iron	7439-89-6	E475A	1	mg/kg wwt	25 mg/kg wwt	99.0	80.0	120	----
Lead	7439-92-1	E475A	0.01	mg/kg wwt	12.5 mg/kg wwt	96.9	80.0	120	----
Lithium	7439-93-2	E475A	0.1	mg/kg wwt	6.25 mg/kg wwt	97.4	80.0	120	----
Magnesium	7439-95-4	E475A	0.4	mg/kg wwt	1250 mg/kg wwt	99.3	80.0	120	----
Manganese	7439-96-5	E475A	0.01	mg/kg wwt	6.25 mg/kg wwt	98.8	80.0	120	----
Molybdenum	7439-98-7	E475A	0.008	mg/kg wwt	6.25 mg/kg wwt	101	80.0	120	----
Nickel	7440-02-0	E475A	0.04	mg/kg wwt	12.5 mg/kg wwt	96.4	80.0	120	----
Phosphorus	7723-14-0	E475A	4	mg/kg wwt	250 mg/kg wwt	97.9	80.0	120	----
Potassium	7440-09-7	E475A	4	mg/kg wwt	1250 mg/kg wwt	99.0	80.0	120	----
Rubidium	7440-17-7	E475A	0.01	mg/kg wwt	2.5 mg/kg wwt	99.5	80.0	120	----
Selenium	7782-49-2	E475A	0.02	mg/kg wwt	25 mg/kg wwt	94.9	80.0	120	----
Sodium	7440-23-5	E475A	4	mg/kg wwt	1250 mg/kg wwt	103	80.0	120	----
Strontium	7440-24-6	E475A	0.02	mg/kg wwt	6.25 mg/kg wwt	104	80.0	120	----
Tellurium	13494-80-9	E475A	0.004	mg/kg wwt	2.5 mg/kg wwt	93.2	80.0	120	----
Thallium	7440-28-0	E475A	0.0004	mg/kg wwt	25 mg/kg wwt	92.9	80.0	120	----
Tin	7440-31-5	E475A	0.02	mg/kg wwt	12.5 mg/kg wwt	95.0	80.0	120	----
Uranium	7440-61-1	E475A	0.0004	mg/kg wwt	0.125 mg/kg wwt	93.4	80.0	120	----



Sub-Matrix: Biota

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals(QC Lot: 2366717)									
Vanadium	7440-62-2	E475A	0.02	mg/kg ww	12.5 mg/kg ww	101	80.0	120	----
Zinc	7440-66-6	E475A	0.2	mg/kg ww	12.5 mg/kg ww	90.8	80.0	120	----
Zirconium	7440-67-7	E475A	0.04	mg/kg ww	2.5 mg/kg ww	100	80.0	120	----
Metals(QC Lot: 2366718)									
Aluminum	7429-90-5	E475	5	mg/kg	50 mg/kg	99.8	80.0	120	----
Antimony	7440-36-0	E475	0.02	mg/kg	25 mg/kg	98.0	80.0	120	----
Arsenic	7440-38-2	E475	0.05	mg/kg	25 mg/kg	97.1	80.0	120	----
Barium	7440-39-3	E475	0.05	mg/kg	6.25 mg/kg	99.7	80.0	120	----
Beryllium	7440-41-7	E475	0.01	mg/kg	2.5 mg/kg	92.5	80.0	120	----
Bismuth	7440-69-9	E475	0.01	mg/kg	25 mg/kg	97.2	80.0	120	----
Boron	7440-42-8	E475	1	mg/kg	25 mg/kg	95.4	80.0	120	----
Cadmium	7440-43-9	E475	0.01	mg/kg	2.5 mg/kg	93.2	80.0	120	----
Calcium	7440-70-2	E475	20	mg/kg	1250 mg/kg	96.8	80.0	120	----
Cesium	7440-46-2	E475	0.005	mg/kg	1.25 mg/kg	107	80.0	120	----
Chromium	7440-47-3	E475	0.2	mg/kg	6.25 mg/kg	99.2	80.0	120	----
Cobalt	7440-48-4	E475	0.02	mg/kg	6.25 mg/kg	96.9	80.0	120	----
Copper	7440-50-8	E475	0.2	mg/kg	6.25 mg/kg	96.8	80.0	120	----
Iron	7439-89-6	E475	5	mg/kg	25 mg/kg	99.0	80.0	120	----
Lead	7439-92-1	E475	0.05	mg/kg	12.5 mg/kg	96.9	80.0	120	----
Lithium	7439-93-2	E475	0.5	mg/kg	6.25 mg/kg	97.4	80.0	120	----
Magnesium	7439-95-4	E475	2	mg/kg	1250 mg/kg	99.3	80.0	120	----
Manganese	7439-96-5	E475	0.05	mg/kg	6.25 mg/kg	98.8	80.0	120	----
Molybdenum	7439-98-7	E475	0.04	mg/kg	6.25 mg/kg	101	80.0	120	----
Nickel	7440-02-0	E475	0.2	mg/kg	12.5 mg/kg	96.4	80.0	120	----
Phosphorus	7723-14-0	E475	20	mg/kg	250 mg/kg	97.9	80.0	120	----
Potassium	7440-09-7	E475	20	mg/kg	1250 mg/kg	99.0	80.0	120	----
Rubidium	7440-17-7	E475	0.05	mg/kg	2.5 mg/kg	99.5	80.0	120	----
Selenium	7782-49-2	E475	0.1	mg/kg	25 mg/kg	94.9	80.0	120	----
Sodium	7440-23-5	E475	20	mg/kg	1250 mg/kg	103	80.0	120	----
Strontium	7440-24-6	E475	0.1	mg/kg	6.25 mg/kg	104	80.0	120	----
Tellurium	13494-80-9	E475	0.02	mg/kg	2.5 mg/kg	93.2	80.0	120	----
Thallium	7440-28-0	E475	0.002	mg/kg	25 mg/kg	92.9	80.0	120	----
Tin	7440-31-5	E475	0.1	mg/kg	12.5 mg/kg	95.0	80.0	120	----
Uranium	7440-61-1	E475	0.002	mg/kg	0.125 mg/kg	93.4	80.0	120	----
Vanadium	7440-62-2	E475	0.1	mg/kg	12.5 mg/kg	101	80.0	120	----
Zinc	7440-66-6	E475	1	mg/kg	12.5 mg/kg	90.8	80.0	120	----
Zirconium	7440-67-7	E475	0.2	mg/kg	2.5 mg/kg	100	80.0	120	----



Sub-Matrix: Biota

					Laboratory Control Sample (LCS) Report				
					<i>Spike</i>	<i>Recovery (%)</i>	<i>Recovery Limits (%)</i>		
<i>Analyte</i>	<i>CAS Number</i>	<i>Method</i>	<i>LOR</i>	<i>Unit</i>	<i>Target Concentration</i>	<i>LCS</i>	<i>Low</i>	<i>High</i>	<i>Qualifier</i>
Metals(QC Lot: 2366719)									
Mercury	7439-97-6	E512	0.01	mg/kg	0.05 mg/kg	102	80.0	120	----
Speciated Metals(QC Lot: 2407823)									
Methylmercury (as MeHg)	22967-92-6	E538	5	µg/kg	100 µg/kg	96.1	70.0	130	----
Speciated Metals(QC Lot: 2407824)									
Methylmercury (as MeHg)	22967-92-6	E538	5	µg/kg	100 µg/kg	81.0	70.0	130	----
Aggregate Organics(QC Lot: 2346372)									
Lipid content	----	E564B	0.5	% wwt	98.52 % wwt	98.1	70.0	130	----
Aggregate Organics(QC Lot: 2346394)									
Lipid content	----	E564B	0.5	% wwt	98.04 % wwt	113	70.0	130	----

Reference Material (RM) Report

A Reference Material (RM) is a homogenous material with known and well-established analyte concentrations. RMs are processed in an identical manner to test samples, and are used to monitor and control the accuracy and precision of a test method for a typical sample matrix. RM results are expressed as percent recovery of the target analyte concentration. RM targets may be certified target concentrations provided by the RM supplier, or may be ALS long-term mean values (for empirical test methods).



Sub-Matrix: Biota

Sub-Matrix: Biota					Reference Material (RM) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Target Concentration	Original Result	LCS	Low	High	Qualifier
Metals(QC Lot: 2366700)										
QC-MRG4-2366700001		Mercury	7439-97-6	E512A	0.281 mg/kg wwt	0.281 mg/kg wwt		70.0	130	----
Metals(QC Lot: 2366701)										
QC-MRG4-2366700001		Aluminum	7429-90-5	E475A	147 mg/kg wwt	147 mg/kg wwt		70.0	130	----
		Arsenic	7440-38-2	E475A	14.5 mg/kg wwt	14.5 mg/kg wwt		70.0	130	----
		Barium	7440-39-3	E475A	0.352 mg/kg wwt	0.352 mg/kg wwt		70.0	130	----
		Boron	7440-42-8	E475A	3.47 mg/kg wwt	3.47 mg/kg wwt		70.0	130	----
		Cadmium	7440-43-9	E475A	0.153 mg/kg wwt	0.153 mg/kg wwt		70.0	130	----
		Calcium	7440-70-2	E475A	2010 mg/kg wwt	2010 mg/kg wwt		70.0	130	----
		Cesium	7440-46-2	E475A	0.0889 mg/kg wwt	0.0889 mg/kg wwt		70.0	130	----
		Copper	7440-50-8	E475A	3.3 mg/kg wwt	3.3 mg/kg wwt		70.0	130	----
		Iron	7439-89-6	E475A	102 mg/kg wwt	102 mg/kg wwt		70.0	130	----
		Lead	7439-92-1	E475A	0.058 mg/kg wwt	0.058 mg/kg wwt		15.0	185	----
		Magnesium	7439-95-4	E475A	899 mg/kg wwt	899 mg/kg wwt		70.0	130	----
		Manganese	7439-96-5	E475A	0.948 mg/kg wwt	0.948 mg/kg wwt		70.0	130	----
		Molybdenum	7439-98-7	E475A	0.134 mg/kg wwt	0.134 mg/kg wwt		70.0	130	----
		Phosphorus	7723-14-0	E475A	6700 mg/kg wwt	6700 mg/kg wwt		70.0	130	----
		Potassium	7440-09-7	E475A	11600 mg/kg wwt	11600 mg/kg wwt		70.0	130	----



Sub-Matrix: Biota

Sub-Matrix: Biota					Reference Material (RM) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Target Concentration	Original Result	LCS	Low	High	Qualifier
Metals(QC Lot: 2366701)										
		Rubidium	7440-17-7	E475A	2.53 mg/kg wwt	2.53 mg/kg wwt		70.0	130	----
		Selenium	7782-49-2	E475A	2.48 mg/kg wwt	2.48 mg/kg wwt		70.0	130	----
		Sodium	7440-23-5	E475A	9620 mg/kg wwt	9620 mg/kg wwt		70.0	130	----
		Strontium	7440-24-6	E475A	10.6 mg/kg wwt	10.6 mg/kg wwt		70.0	130	----
		Vanadium	7440-62-2	E475A	0.269 mg/kg wwt	0.269 mg/kg wwt		70.0	130	----
		Zinc	7440-66-6	E475A	28.7 mg/kg wwt	28.7 mg/kg wwt		70.0	130	----
Metals(QC Lot: 2366702)										
QC-MRG4-2366700001		Aluminum	7429-90-5	E475	147 mg/kg	147 mg/kg		70.0	130	----
		Arsenic	7440-38-2	E475	14.5 mg/kg	14.5 mg/kg		70.0	130	----
		Barium	7440-39-3	E475	0.352 mg/kg	0.352 mg/kg		70.0	130	----
		Boron	7440-42-8	E475	3.47 mg/kg	3.47 mg/kg		70.0	130	----
		Cadmium	7440-43-9	E475	0.153 mg/kg	0.153 mg/kg		70.0	130	----
		Calcium	7440-70-2	E475	2010 mg/kg	2010 mg/kg		70.0	130	----
		Cesium	7440-46-2	E475	0.0889 mg/kg	0.0889 mg/kg		70.0	130	----
		Copper	7440-50-8	E475	3.3 mg/kg	3.3 mg/kg		70.0	130	----
		Iron	7439-89-6	E475	102 mg/kg	102 mg/kg		70.0	130	----
		Lead	7439-92-1	E475	0.058 mg/kg	0.058 mg/kg		15.0	185	----
		Magnesium	7439-95-4	E475	899 mg/kg	899 mg/kg		70.0	130	----
		Manganese	7439-96-5	E475	0.948 mg/kg	0.948 mg/kg		70.0	130	----
		Molybdenum	7439-98-7	E475	0.134 mg/kg	0.134 mg/kg		70.0	130	----
		Phosphorus	7723-14-0	E475	6700 mg/kg	6700 mg/kg		70.0	130	----



Sub-Matrix: Biota

Sub-Matrix: Biota					Reference Material (RM) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Target Concentration	Original Result	LCS	Low	High	Qualifier
Metals(QC Lot: 2366702)										
		Potassium	7440-09-7	E475	11600 mg/kg	11600 mg/kg		70.0	130	----
		Rubidium	7440-17-7	E475	2.53 mg/kg	2.53 mg/kg		70.0	130	----
		Selenium	7782-49-2	E475	2.48 mg/kg	2.48 mg/kg		70.0	130	----
		Sodium	7440-23-5	E475	9620 mg/kg	9620 mg/kg		70.0	130	----
		Strontium	7440-24-6	E475	10.6 mg/kg	10.6 mg/kg		70.0	130	----
		Vanadium	7440-62-2	E475	0.269 mg/kg	0.269 mg/kg		70.0	130	----
		Zinc	7440-66-6	E475	28.7 mg/kg	28.7 mg/kg		70.0	130	----
Metals(QC Lot: 2366703)										
QC-MRG4-2366700001		Mercury	7439-97-6	E512	0.281 mg/kg	0.281 mg/kg		70.0	130	----
Metals(QC Lot: 2366716)										
QC-MRG4-2366716001		Mercury	7439-97-6	E512A	0.281 mg/kg wwt	0.281 mg/kg wwt		70.0	130	----
Metals(QC Lot: 2366717)										
QC-MRG4-2366716001		Aluminum	7429-90-5	E475A	147 mg/kg wwt	147 mg/kg wwt		70.0	130	----
		Arsenic	7440-38-2	E475A	14.5 mg/kg wwt	14.5 mg/kg wwt		70.0	130	----
		Barium	7440-39-3	E475A	0.352 mg/kg wwt	0.352 mg/kg wwt		70.0	130	----
		Boron	7440-42-8	E475A	3.47 mg/kg wwt	3.47 mg/kg wwt		70.0	130	----
		Cadmium	7440-43-9	E475A	0.153 mg/kg wwt	0.153 mg/kg wwt		70.0	130	----
		Calcium	7440-70-2	E475A	2010 mg/kg wwt	2010 mg/kg wwt		70.0	130	----
		Cesium	7440-46-2	E475A	0.0889 mg/kg wwt	0.0889 mg/kg wwt		70.0	130	----
		Copper	7440-50-8	E475A	3.3 mg/kg wwt	3.3 mg/kg wwt		70.0	130	----



Sub-Matrix: Biota

Sub-Matrix: Biota					Reference Material (RM) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Target Concentration	Original Result	LCS	Low	High	Qualifie
Metals(QC Lot: 2366717)										
		Iron	7439-89-6	E475A	102 mg/kg wwt	102 mg/kg wwt		70.0	130	----
		Lead	7439-92-1	E475A	0.058 mg/kg wwt	0.058 mg/kg wwt		15.0	185	----
		Magnesium	7439-95-4	E475A	899 mg/kg wwt	899 mg/kg wwt		70.0	130	----
		Manganese	7439-96-5	E475A	0.948 mg/kg wwt	0.948 mg/kg wwt		70.0	130	----
		Molybdenum	7439-98-7	E475A	0.134 mg/kg wwt	0.134 mg/kg wwt		70.0	130	----
		Phosphorus	7723-14-0	E475A	6700 mg/kg wwt	6700 mg/kg wwt		70.0	130	----
		Potassium	7440-09-7	E475A	11600 mg/kg wwt	11600 mg/kg wwt		70.0	130	----
		Rubidium	7440-17-7	E475A	2.53 mg/kg wwt	2.53 mg/kg wwt		70.0	130	----
		Selenium	7782-49-2	E475A	2.48 mg/kg wwt	2.48 mg/kg wwt		70.0	130	----
		Sodium	7440-23-5	E475A	9620 mg/kg wwt	9620 mg/kg wwt		70.0	130	----
		Strontium	7440-24-6	E475A	10.6 mg/kg wwt	10.6 mg/kg wwt		70.0	130	----
		Vanadium	7440-62-2	E475A	0.269 mg/kg wwt	0.269 mg/kg wwt		70.0	130	----
		Zinc	7440-66-6	E475A	28.7 mg/kg wwt	28.7 mg/kg wwt		70.0	130	----
Metals(QC Lot: 2366718)										
QC-MRG4-2366716001		Aluminum	7429-90-5	E475	147 mg/kg	147 mg/kg		70.0	130	----
		Arsenic	7440-38-2	E475	14.5 mg/kg	14.5 mg/kg		70.0	130	----
		Barium	7440-39-3	E475	0.352 mg/kg	0.352 mg/kg		70.0	130	----
		Boron	7440-42-8	E475	3.47 mg/kg	3.47 mg/kg		70.0	130	----



Sub-Matrix: Biota

Sub-Matrix: Biota					Reference Material (RM) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Target Concentration	Original Result	LCS	Low	High	Qualifier
Metals(QC Lot: 2366718)										
		Cadmium	7440-43-9	E475	0.153 mg/kg	0.153 mg/kg		70.0	130	----
		Calcium	7440-70-2	E475	2010 mg/kg	2010 mg/kg		70.0	130	----
		Cesium	7440-46-2	E475	0.0889 mg/kg	0.0889 mg/kg		70.0	130	----
		Copper	7440-50-8	E475	3.3 mg/kg	3.3 mg/kg		70.0	130	----
		Iron	7439-89-6	E475	102 mg/kg	102 mg/kg		70.0	130	----
		Lead	7439-92-1	E475	0.058 mg/kg	0.058 mg/kg		15.0	185	----
		Magnesium	7439-95-4	E475	899 mg/kg	899 mg/kg		70.0	130	----
		Manganese	7439-96-5	E475	0.948 mg/kg	0.948 mg/kg		70.0	130	----
		Molybdenum	7439-98-7	E475	0.134 mg/kg	0.134 mg/kg		70.0	130	----
		Phosphorus	7723-14-0	E475	6700 mg/kg	6700 mg/kg		70.0	130	----
		Potassium	7440-09-7	E475	11600 mg/kg	11600 mg/kg		70.0	130	----
		Rubidium	7440-17-7	E475	2.53 mg/kg	2.53 mg/kg		70.0	130	----
		Selenium	7782-49-2	E475	2.48 mg/kg	2.48 mg/kg		70.0	130	----
		Sodium	7440-23-5	E475	9620 mg/kg	9620 mg/kg		70.0	130	----
		Strontium	7440-24-6	E475	10.6 mg/kg	10.6 mg/kg		70.0	130	----
		Vanadium	7440-62-2	E475	0.269 mg/kg	0.269 mg/kg		70.0	130	----
		Zinc	7440-66-6	E475	28.7 mg/kg	28.7 mg/kg		70.0	130	----
Metals(QC Lot: 2366719)										
QC-MRG4-2366716001		Mercury	7439-97-6	E512	0.281 mg/kg	0.281 mg/kg		70.0	130	----
Speciated Metals(QC Lot: 2407823)										
QC-2407823-001		Methylmercury (as MeHg)	22967-92-6	E538	266 µg/kg	266 µg/kg		70.0	130	----
Speciated Metals(QC Lot: 2407824)										
QC-2407824-001		Methylmercury (as MeHg)	22967-92-6	E538	266 µg/kg	266 µg/kg		70.0	130	----





COC Number: 22 -

Canada Toll Free: 1 800 668 9878

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Work Order Reference
TY2510937

Report To Company: G3 Consulting Ltd.		Reports / Recipients Select Report Format: ☒ PDF ☒ EXCEL ☐ EDD (DIGITAL)		Tumaround Time (TAT) Requested																																																																																																																																																																																																																																																																																																																																									
Contact: Greg Thomas Phone: 604-598-8501 Company address below will appear on the final report		Merge Q/COC Reports with COA: ☒ Yes ☐ No ☐ N/A ☒ Compare Results to Criteria on Report - provide details below if box checked Select Distribution: ☒ EMAIL ☐ MAIL ☐ FAX		☒ Routine [R] if received by 3pm M-F - no surcharges apply ☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum ☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum ☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum ☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum ☐ Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, etc																																																																																																																																																																																																																																																																																																																																									
Street: 208-8501 162 St City/Province: Surrey, BC Postal Code: V4N 1B2		Email 1 or Fax: kalfonso@g3consulting.com, owilson@g3consulting.com Email 2: aquashie@g3consulting.com, rfarrel@g3consulting.com Email 3: gthomas@g3consulting.com, mlyro@g3consulting.com		Date and Time Required for all E&P TATs: For all tests with rush TATs requested, please contact:																																																																																																																																																																																																																																																																																																																																									
Invoice To: Same as Report To ☐ YES ☒ NO Copy of Invoice with Report ☐ YES ☒ NO		Invoice Recipients Select Invoice Distribution: ☒ EMAIL ☐ MAIL ☐ FAX Email 1 or Fax: sjohnson@g3consulting.com Email 2: info@g3consulting.com		Analysis Request Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below																																																																																																																																																																																																																																																																																																																																									
Project Information ALS Account # / Quote #: G3CO100 / WT2025G3CO1000001 Job #: 2502 PO / AFE: 2502 LSD:		Oil and Gas Required Fields (client use) AFE/Cost Center: Major/Minor Code: Requisitioner: Location:		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">NUMBER OF CONTAINERS</th> <th colspan="10">Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below</th> <th rowspan="2">SAMPLES ON HOLD</th> <th rowspan="2">EXTENDED STORAGE REQUIRED</th> <th rowspan="2">SUSPECTED HAZARD (see notes)</th> </tr> <tr> <th>Meths w/ selenium</th> <th>Total Mercury</th> <th>Methylmercury</th> <th>Moisture</th> <th>Lipids</th> <th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th> </tr> </thead> <tbody> <tr><td>1</td><td>R</td><td>R</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td>R</td><td>R</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td>R</td><td>R</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td>R</td><td>R</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td>R</td><td>R</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td>R</td><td>R</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td>R</td><td>R</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td>R</td><td>R</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td>R</td><td>R</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td>R</td><td>R</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>11</td><td>R</td><td>R</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>12</td><td>R</td><td>R</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>13</td><td>R</td><td>R</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>R</td><td>R</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		NUMBER OF CONTAINERS	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below										SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)	Meths w/ selenium	Total Mercury	Methylmercury	Moisture	Lipids																1	R	R																			2	R	R																			3	R	R																			4	R	R																			5	R	R																			6	R	R																			7	R	R																			8	R	R																			9	R	R																			10	R	R																			11	R	R																			12	R	R																			13	R	R																			14	R	R																		
NUMBER OF CONTAINERS	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below										SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)																																																																																																																																																																																																																																																																																																																																
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ALS Lab Work Order # (ALS use only): 1089-10937		ALS Contact:		Sampler:																																																																																																																																																																																																																																																																																																																																									
ALS Sample # (ALS use only)		Sample Identification and/or Coordinates (This description will appear on the report)		Date (dd-mm-yy)	Time (hh:mm)	Sample Type																																																																																																																																																																																																																																																																																																																																							
1	25ONG309 FT	OLNPS60	9 -Sept-2025	8:20	Biota/Tissue																																																																																																																																																																																																																																																																																																																																								
2	25ONG309 FT	OLLWSS61	-Sept-2025		Biota/Tissue																																																																																																																																																																																																																																																																																																																																								
3	25ONG309 FT	OLLWS62	-Sept-2025		Biota/Tissue																																																																																																																																																																																																																																																																																																																																								
4	25ONG309 FT	OLLWS63	-Sept-2025		Biota/Tissue																																																																																																																																																																																																																																																																																																																																								
5	25ONG309 FT	OLLWS64	-Sept-2025		Biota/Tissue																																																																																																																																																																																																																																																																																																																																								
6	25ONG309 FT	OLLNPS65	-Sept-2025		Biota/Tissue																																																																																																																																																																																																																																																																																																																																								
7	25ONG309 FT	OLLWYS66	-Sept-2025		Biota/Tissue																																																																																																																																																																																																																																																																																																																																								
8	25ONG309 FT	OLLWS67	-Sept-2025		Biota/Tissue																																																																																																																																																																																																																																																																																																																																								
9	25ONG309 FT	OLLWS68	-Sept-2025		Biota/Tissue																																																																																																																																																																																																																																																																																																																																								
10	25ONG309 FT	OLLNPS69	-Sept-2025		Biota/Tissue																																																																																																																																																																																																																																																																																																																																								
11	25ONG309 FT	OLLNPS70	-Sept-2025		Biota/Tissue																																																																																																																																																																																																																																																																																																																																								
12	25ONG309 FT	OLLNPS71 OLLWS84	9 -Sept-2025	11:21	Biota/Tissue																																																																																																																																																																																																																																																																																																																																								
13	25ONG309 FT	OLLWS72 OLLWYS85	-Sept-2025		Biota/Tissue																																																																																																																																																																																																																																																																																																																																								
14	25ONG309 FT	OLLWSS73 OLLWSS86	-Sept-2025		Biota/Tissue																																																																																																																																																																																																																																																																																																																																								

Drinking Water (DW) Samples¹ (client use)		Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)		SAMPLE RECEIPT DETAILS (ALS use only)	
Are samples taken from a Regulated DW System? ☐ YES ☐ NO				Cooling Method: ☐ NONE ☒ ICE ☐ ICE PACKS ☐ FROZEN ☒ COOLING INITIATED	
Are samples for human consumption/ use? ☐ YES ☐ NO				Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO	
				Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A	
				INITIAL COOLER TEMPERATURES °C: -2.4 FINAL COOLER TEMPERATURES °C: -2.6	
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (ALS use only)		FINAL SHIPMENT RECEPTION (ALS use only)	
Released by:	Date:	Received by:	Date:	Received	

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white-report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC Form**.

JAN 2025 FRQ

Intake and Login Verification Form

SAMPLE INTAKE				ACCOUNT INFO VERIFICATION			
Priority/Emergency Service Requested	YES	NO		Priority/Emergency Service Requested	YES	NO	
Time Sensitive Hold Time	YES	NO		Confirmed all as accurate as per COC, Sample Remarks or PM			
Client:				Client	Work Contact	Quote	
SAMPLE RECEIPT INFORMATION				RECEIPT DETAIL			
Mode of Delivery:	Courier	Drop Off		Project	PO	Site/LSD	
Courier				Overall Description Entered	Yes	NA	
Waybill Number				Received date/time as per COC			
Temperature			Cooler Count	Recipients match CoC or Sample Remarks	Yes	No	
Cooling Method	None	Ice	Ice Packs	Billing Instruction added to remarks	Yes	NA	
SAMPLE MATRIX/BOTTLE INFORMATION				Sample Remarks/Specification Doc checked			
Matrix:	Water	Soil	Air	Submission Issues communicated	Yes	NA	
DW Schedule 24 Bottles Correct?			Yes	Sample Info communicated via Remarks	Yes	NA	
DW Metals pH Check <2			Yes	VERIFICATION CHECKLIST			
Regulation Circled, Works # present	Yes	No - Reject?		Planned Event Submission	Yes	NO	
# of Bottles:	Sample Count	22		Sample Name entered as per CoC			
Green/white				Sampling Date and time entered as per CoC			
Purple/white				Containers selected in layout order			
Warm red/white				Sales items entered from QUOTE ONLY (and/or verified as correct)			
Yellow/black				Field Data/EC298A removed if not on COC	Yes	NA	
Light blue/white				Bottle Allocation Verified			
Orange/black				Guideline added or auto-allocated			
Others (detail)				Due dates updated			
Comments on Samples and Bottles:				VALIDATION			
Didn't receive for - 16-21				Validation errors resolved?	Yes	No	
Samples Requiring Preservation or Filtering:				Internal Sublet CoC created	Yes	NA	
Layout Staff Initials				Login Comments:			
Date and Time of Layout				Login Staff Initials:			
AK 25-Sep-25 / 11:30				AK			

CERTIFICATE OF ANALYSIS

Work Order	: TY2510946	Laboratory	: ALS Environmental - Thunder Bay
Client	: G3 Consulting Ltd.	Account Manager	: Colby Coutu
Contact	: Greg Thomas	Address	: 1081 Barton Street
Address	: 206-8501 162nd St. Surrey British Columbia Canada V4N 1B2		: Thunder Bay ON Canada P7B 5N3
Telephone	: 604 598 8501	E-mail	: colby.coutu@alsglobal.com
Project	: 2502	Telephone	: +1 807 623 6463
PO	: 2502	Date Samples Received	: 19-Sep-2025 16:54
C-O-C number	: ----	Date Analysis Commenced	: 20-Nov-2025
Sampler	: ----	Issue Date	: 07-Jan-2026 13:51
Site	: ----		
Quote number	: Dubreuilville Project		
No. of samples received	: 28		
No. of samples analysed	: 28		

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.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Bitu Emamgholi	Lab Assistant	Metals, Burnaby, British Columbia
Brieanna Allen	Production/Validation Manager	Organics, Burnaby, British Columbia
Cesar Mora	Lab Assistant	Metals, Burnaby, British Columbia
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Metals, Burnaby, British Columbia
Kim Jensen	Department Manager - Metals	Metals, Burnaby, British Columbia
Salimah Khimani	Lab Assistant	Metals, Burnaby, British Columbia
Shahrzad Firoozbakht	Lab Assistant	Metals, Burnaby, British Columbia



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).

Unit	Description
%	percent
% wwt	% wet weight
mg/kg	milligrams per kilogram
mg/kg wwt	milligrams per kilogram wet weight
µg/kg	micrograms per kilogram

<: less than.

>: greater than.

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.

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
DLA	Detection Limit adjusted for required dilution.



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLLWS22 ----	25ONG309 FT HLWYS23 ----	25ONG309 FT HLNPS24 ----	25ONG309 FT HLWSS25 ----	25ONG309 FT HLWYS26 ----
Client sampling date / time						10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510946-001	TY2510946-002	TY2510946-003	TY2510946-004	TY2510946-005
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.50	%		78.2	80.1	83.5	76.4	77.9
Moisture	----	E144A/VA	2.0	%		78.2	80.1	83.5	76.4	77.9
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt		<1.0	<1.0	<1.0	<1.0	<1.0
Antimony	7440-36-0	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Arsenic	7440-38-2	E475/VA	0.050	mg/kg		0.379	0.200	0.225	0.208	0.123
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt		0.083	0.040	0.037	0.049	0.027
Barium	7440-39-3	E475/VA	0.050	mg/kg		<0.050	0.055	0.076	0.280	0.054
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt		0.011	0.011	0.013	0.066	0.012
Beryllium	7440-41-7	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	7440-69-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	7440-42-8	E475/VA	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt		<0.20	<0.20	<0.20	<0.20	<0.20
Cadmium	7440-43-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	7440-70-2	E475/VA	20	mg/kg		593	575	582	466	509



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLLWS22 ----	25ONG309 FT HLWYS23 ----	25ONG309 FT HLNPS24 ----	25ONG309 FT HLWSS25 ----	25ONG309 FT HLWYS26 ----
Client sampling date / time						10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510946-001	TY2510946-002	TY2510946-003	TY2510946-004	TY2510946-005
						Result	Result	Result	Result	Result
Metals										
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt		130	115	96.2	110	113
Cesium	7440-46-2	E475/VA	0.0050	mg/kg		0.653	1.24	2.18	0.493	1.33
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt		0.143	0.247	0.360	0.116	0.293
Chromium	7440-47-3	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	0.21	<0.20
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	0.050	<0.040
Cobalt	7440-48-4	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	0.024	<0.020
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	0.0056	<0.0040
Copper	7440-50-8	E475/VA	0.20	mg/kg		0.74	0.51	0.85	2.17	0.71
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt		0.161	0.102	0.140	0.513	0.157
Iron	7439-89-6	E475/VA	5.0	mg/kg		12.3	6.4	29.9	45.9	17.5
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt		2.7	1.3	4.9	10.8	3.9
Lead	7439-92-1	E475/VA	0.050	mg/kg		<0.050	<0.050	<0.050	0.053	<0.050
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt		<0.010	<0.010	<0.010	0.013	<0.010
Lithium	7439-93-2	E475/VA	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt		<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	7439-95-4	E475/VA	2.0	mg/kg		1170	1450	1540	1250	1250
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt		255	289	255	296	277
Manganese	7439-96-5	E475/VA	0.050	mg/kg		0.508	0.438	0.418	0.604	0.364
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt		0.111	0.087	0.069	0.142	0.080
Mercury	7439-97-6	E512/VA	0.010	mg/kg		0.562	1.20	14.1	0.863	2.61



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLLWS22 ----	25ONG309 FT HLWYS23 ----	25ONG309 FT HLNPS24 ----	25ONG309 FT HLWSS25 ----	25ONG309 FT HLWYS26 ----
Client sampling date / time						10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510946-001	TY2510946-002	TY2510946-003	TY2510946-004	TY2510946-005
						Result	Result	Result	Result	Result
Metals										
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt		0.123	0.239	2.33	0.203	0.576
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg		<0.040	<0.040	<0.040	<0.040	<0.040
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel	7440-02-0	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Phosphorus	7723-14-0	E475/VA	20	mg/kg		9740	11300	10600	9000	9420
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt		2130	2240	1740	2120	2080
Potassium	7440-09-7	E475/VA	20	mg/kg		18400	22500	16500	17200	18500
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt		4010	4470	2730	4060	4080
Rubidium	7440-17-7	E475/VA	0.050	mg/kg		35.4	79.4	37.3	19.9	73.5
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt		7.74	15.8	6.15	4.69	16.3
Selenium	7782-49-2	E475/VA	0.10	mg/kg		1.12	0.89	1.18	1.39	1.08
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt		0.246	0.177	0.195	0.328	0.240
Sodium	7440-23-5	E475/VA	20	mg/kg		2530	2560	3770	1320	2310
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt		552	509	623	311	511
Strontium	7440-24-6	E475/VA	0.10	mg/kg		0.97	0.31	0.68	0.26	0.25
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt		0.212	0.061	0.112	0.062	0.055
Tellurium	13494-80-9	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	7440-28-0	E475/VA	0.0020	mg/kg		0.0101	0.0183	0.0084	0.0026	0.0241



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLLWS22 ----	25ONG309 FT HLWYS23 ----	25ONG309 FT HLNPS24 ----	25ONG309 FT HLWSS25 ----	25ONG309 FT HLWYS26 ----
Client sampling date / time						10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510946-001	TY2510946-002	TY2510946-003	TY2510946-004	TY2510946-005
						Result	Result	Result	Result	Result
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt		0.00221	0.00365	0.00139	0.00061	0.00533
Tin	7440-31-5	E475/VA	0.10	mg/kg		0.11	<0.10	<0.10	<0.10	<0.10
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt		0.024	<0.020	<0.020	<0.020	<0.020
Uranium	7440-61-1	E475/VA	0.0020	mg/kg		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Vanadium	7440-62-2	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Zinc	7440-66-6	E475/VA	1.0	mg/kg		14.1	14.4	20.3	24.7	21.4
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt		3.08	2.86	3.35	5.82	4.72
Zirconium	7440-67-7	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg		439	876	16800	642	1350
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt		1.31	<0.50	<0.50	0.71	<0.50

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



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWSS27 ----	25ONG309 FT HLNPS28 ----	25ONG309 FT HLLWS29 ----	25ONG309 FT HLLWS30 ----	25ONG309 FT HLWYS31 ----
Client sampling date / time						10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510946-006	TY2510946-007	TY2510946-008	TY2510946-009	TY2510946-010
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.50	%		80.7	77.0	77.5	77.7	79.3
Moisture	----	E144A/VA	2.0	%		80.7	77.0	77.5	77.7	79.3
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt		<1.0	<1.0	<1.0	<1.0	<1.0
Antimony	7440-36-0	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	0.089	<0.020
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	0.0197	<0.0040
Arsenic	7440-38-2	E475/VA	0.050	mg/kg		0.197	0.133	0.363	0.369	0.209
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt		0.038	0.031	0.082	0.082	0.043
Barium	7440-39-3	E475/VA	0.050	mg/kg		0.222	0.101	0.165	<0.050	<0.050
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt		0.043	0.023	0.037	<0.010	0.010
Beryllium	7440-41-7	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	7440-69-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	7440-42-8	E475/VA	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt		<0.20	<0.20	<0.20	<0.20	<0.20
Cadmium	7440-43-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	7440-70-2	E475/VA	20	mg/kg		704	810	2130	673	558



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWSS27 ----	25ONG309 FT HLNPS28 ----	25ONG309 FT HLLWS29 ----	25ONG309 FT HLLWS30 ----	25ONG309 FT HLWYS31 ----
Client sampling date / time						10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510946-006	TY2510946-007	TY2510946-008	TY2510946-009	TY2510946-010
						Result	Result	Result	Result	Result
Metals										
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt		136	186	479	150	116
Cesium	7440-46-2	E475/VA	0.0050	mg/kg		0.547	1.09	1.08	0.870	1.34
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt		0.106	0.250	0.243	0.194	0.277
Chromium	7440-47-3	E475/VA	0.20	mg/kg		<0.20	<0.20	0.20	<0.20	<0.20
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	0.046	<0.040	<0.040
Cobalt	7440-48-4	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Copper	7440-50-8	E475/VA	0.20	mg/kg		0.89	0.52	0.45	0.44	0.68
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt		0.172	0.121	0.101	0.098	0.142
Iron	7439-89-6	E475/VA	5.0	mg/kg		11.0	8.5	10.4	16.1	7.3
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt		2.1	2.0	2.3	3.6	1.5
Lead	7439-92-1	E475/VA	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt		<0.010	<0.010	<0.010	<0.010	<0.010
Lithium	7439-93-2	E475/VA	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt		<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	7439-95-4	E475/VA	2.0	mg/kg		1840	1340	1430	1290	1760
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt		356	308	321	287	365
Manganese	7439-96-5	E475/VA	0.050	mg/kg		0.744	1.01	0.901	0.341	0.361
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt		0.144	0.233	0.203	0.076	0.075
Mercury	7439-97-6	E512/VA	0.010	mg/kg		0.395	2.93	0.982	0.616	1.57



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWSS27 ----	25ONG309 FT HLNPS28 ----	25ONG309 FT HLLWS29 ----	25ONG309 FT HLLWS30 ----	25ONG309 FT HLWYS31 ----
Client sampling date / time						10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510946-006	TY2510946-007	TY2510946-008	TY2510946-009	TY2510946-010
						Result	Result	Result	Result	Result
Metals										
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt		0.0764	0.673	0.221	0.137	0.326
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg		<0.040	<0.040	<0.040	<0.040	<0.040
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel	7440-02-0	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Phosphorus	7723-14-0	E475/VA	20	mg/kg		12100	8660	11300	10300	10600
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt		2330	1990	2550	2290	2210
Potassium	7440-09-7	E475/VA	20	mg/kg		24400	16400	20300	18600	20600
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt		4710	3770	4560	4140	4260
Rubidium	7440-17-7	E475/VA	0.050	mg/kg		37.8	36.7	40.8	33.5	79.2
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt		7.31	8.43	9.19	7.46	16.4
Selenium	7782-49-2	E475/VA	0.10	mg/kg		1.33	0.84	1.01	1.52	1.05
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt		0.258	0.194	0.227	0.338	0.217
Sodium	7440-23-5	E475/VA	20	mg/kg		1850	1770	1820	2200	2770
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt		358	407	409	489	575
Strontium	7440-24-6	E475/VA	0.10	mg/kg		0.42	0.79	4.24	1.26	0.33
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt		0.081	0.182	0.955	0.280	0.069
Tellurium	13494-80-9	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	7440-28-0	E475/VA	0.0020	mg/kg		0.0046	0.0067	0.0069	0.0045	0.0184



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWSS27 ----	25ONG309 FT HLNPS28 ----	25ONG309 FT HLLWS29 ----	25ONG309 FT HLLWS30 ----	25ONG309 FT HLWYS31 ----
Client sampling date / time						10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510946-006	TY2510946-007	TY2510946-008	TY2510946-009	TY2510946-010
						Result	Result	Result	Result	Result
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt		0.00090	0.00153	0.00156	0.00100	0.00382
Tin	7440-31-5	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Uranium	7440-61-1	E475/VA	0.0020	mg/kg		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Vanadium	7440-62-2	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Zinc	7440-66-6	E475/VA	1.0	mg/kg		16.0	18.3	12.8	15.9	18.5
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt		3.10	4.20	2.89	3.55	3.84
Zirconium	7440-67-7	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg		274	1930	712	369	1070
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt		<0.50	<0.50	<0.50	0.74	<0.50

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



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWSS32	25ONG309 FT HLLWS33	25ONG309 FT HLWYS34	25ONG309 FT HLWYS35	25ONG309 FT HLLWS36
					Client sampling date / time	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510946-011	TY2510946-012	TY2510946-013	TY2510946-014	TY2510946-015
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.50	%		79.8	78.7	78.4	80.4	80.5
Moisture	----	E144A/VA	2.0	%		79.8	78.7	78.4	80.4	80.5
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt		<1.0	<1.0	<1.0	<1.0	<1.0
Antimony	7440-36-0	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Arsenic	7440-38-2	E475/VA	0.050	mg/kg		0.200	0.363	0.170	0.518	0.378
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt		0.040	0.077	0.037	0.101	0.074
Barium	7440-39-3	E475/VA	0.050	mg/kg		0.134	<0.050	<0.050	<0.050	<0.050
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt		0.027	<0.010	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	7440-69-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	7440-42-8	E475/VA	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt		<0.20	<0.20	<0.20	<0.20	<0.20
Cadmium	7440-43-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	7440-70-2	E475/VA	20	mg/kg		528	637	538	465	647



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWSS32 ----	25ONG309 FT HLLWS33 ----	25ONG309 FT HLWYS34 ----	25ONG309 FT HLWYS35 ----	25ONG309 FT HLLWS36 ----
Client sampling date / time						10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510946-011	TY2510946-012	TY2510946-013	TY2510946-014	TY2510946-015
						Result	Result	Result	Result	Result
Metals										
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt		107	136	116	91.1	126
Cesium	7440-46-2	E475/VA	0.0050	mg/kg		0.646	0.872	0.987	0.947	0.929
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt		0.130	0.186	0.213	0.186	0.181
Chromium	7440-47-3	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Cobalt	7440-48-4	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Copper	7440-50-8	E475/VA	0.20	mg/kg		0.86	0.56	0.54	0.55	0.58
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt		0.173	0.120	0.117	0.107	0.113
Iron	7439-89-6	E475/VA	5.0	mg/kg		14.1	10.1	7.3	7.6	10.3
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt		2.9	2.2	1.6	1.5	2.0
Lead	7439-92-1	E475/VA	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt		<0.010	<0.010	<0.010	<0.010	<0.010
Lithium	7439-93-2	E475/VA	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt		<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	7439-95-4	E475/VA	2.0	mg/kg		1780	1400	1440	1450	1450
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt		360	298	311	284	283
Manganese	7439-96-5	E475/VA	0.050	mg/kg		0.952	0.319	0.219	0.440	0.362
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt		0.192	0.068	0.047	0.086	0.071
Mercury	7439-97-6	E512/VA	0.010	mg/kg		0.363	0.521	1.37	1.34	0.434



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

Client sample ID					25ONG309 FT HLWSS32 ----	25ONG309 FT HLLWS33 ----	25ONG309 FT HLWYS34 ----	25ONG309 FT HLWYS35 ----	25ONG309 FT HLLWS36 ----
Client sampling date / time					10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510946-011	TY2510946-012	TY2510946-013	TY2510946-014	TY2510946-015
					Result	Result	Result	Result	Result
Metals									
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt	0.0733	0.111	0.295	0.263	0.0847
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg	<0.040	<0.040	<0.040	<0.040	<0.040
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel	7440-02-0	E475/VA	0.20	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt	<0.040	<0.040	<0.040	<0.040	<0.040
Phosphorus	7723-14-0	E475/VA	20	mg/kg	10600	11200	9480	10500	10500
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt	2140	2390	2050	2060	2050
Potassium	7440-09-7	E475/VA	20	mg/kg	21400	21600	19200	22700	20500
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt	4320	4600	4160	4450	4000
Rubidium	7440-17-7	E475/VA	0.050	mg/kg	31.9	45.9	61.0	72.4	43.6
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt	6.45	9.78	13.2	14.2	8.52
Selenium	7782-49-2	E475/VA	0.10	mg/kg	1.38	1.39	1.18	0.94	1.31
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt	0.278	0.296	0.256	0.185	0.255
Sodium	7440-23-5	E475/VA	20	mg/kg	2590	2490	2560	1420	2570
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt	522	530	552	279	502
Strontium	7440-24-6	E475/VA	0.10	mg/kg	0.31	0.92	0.27	0.22	0.91
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt	0.062	0.196	0.058	0.043	0.177
Tellurium	13494-80-9	E475/VA	0.020	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	7440-28-0	E475/VA	0.0020	mg/kg	0.0051	0.0075	0.0103	0.0167	0.0087



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWSS32 ----	25ONG309 FT HLLWS33 ----	25ONG309 FT HLWYS34 ----	25ONG309 FT HLWYS35 ----	25ONG309 FT HLLWS36 ----
Client sampling date / time						10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510946-011	TY2510946-012	TY2510946-013	TY2510946-014	TY2510946-015
						Result	Result	Result	Result	Result
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt		0.00103	0.00161	0.00222	0.00327	0.00170
Tin	7440-31-5	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Uranium	7440-61-1	E475/VA	0.0020	mg/kg		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Vanadium	7440-62-2	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Zinc	7440-66-6	E475/VA	1.0	mg/kg		19.6	13.0	14.4	17.0	13.7
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt		3.96	2.76	3.12	3.34	2.67
Zirconium	7440-67-7	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg		257	308	780	927	491
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt		<0.50	1.79	0.85	<0.50	1.01

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



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLNPS37	25ONG309 FT HLNPS38	25ONG309 FT HLNPS39	25ONG309 FT HLWYS40	25ONG309 FT HLLWS41
Client sampling date / time						10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510946-016	TY2510946-017	TY2510946-018	TY2510946-019	TY2510946-020
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.50	%		79.8	78.5	78.0	80.0	80.2
Moisture	----	E144A/VA	2.0	%		79.8	78.5	78.0	80.0	80.2
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt		<1.0	<1.0	<1.0	<1.0	<1.0
Antimony	7440-36-0	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Arsenic	7440-38-2	E475/VA	0.050	mg/kg		0.090	0.120	0.183	0.205	0.452
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt		0.018	0.026	0.040	0.041	0.090
Barium	7440-39-3	E475/VA	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt		<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	7440-69-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	7440-42-8	E475/VA	1.0	mg/kg		<1.0	<1.0	<1.0	<1.1 ^{DLA}	<1.1 ^{DLA}
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt		<0.20	<0.20	<0.20	<0.22 ^{DLA}	<0.21 ^{DLA}
Cadmium	7440-43-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	7440-70-2	E475/VA	20	mg/kg		567	765	454	489	639



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLNPS37 ----	25ONG309 FT HLNPS38 ----	25ONG309 FT HLNPS39 ----	25ONG309 FT HLWYS40 ----	25ONG309 FT HLLWS41 ----
Client sampling date / time						10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510946-016	TY2510946-017	TY2510946-018	TY2510946-019	TY2510946-020
						Result	Result	Result	Result	Result
Metals										
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt		114	164	99.6	97.6	127
Cesium	7440-46-2	E475/VA	0.0050	mg/kg		2.03	0.978	1.12	1.18	0.682
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt		0.408	0.210	0.245	0.235	0.135
Chromium	7440-47-3	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Cobalt	7440-48-4	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Copper	7440-50-8	E475/VA	0.20	mg/kg		0.57	0.50	0.53	0.55	0.71
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt		0.114	0.109	0.116	0.110	0.142
Iron	7439-89-6	E475/VA	5.0	mg/kg		9.6	6.3	7.9	<5.0	8.3
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt		1.9	1.4	1.7	<1.0	1.7
Lead	7439-92-1	E475/VA	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt		<0.010	<0.010	<0.010	<0.010	<0.010
Lithium	7439-93-2	E475/VA	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt		<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	7439-95-4	E475/VA	2.0	mg/kg		1520	1440	1230	1230	1260
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt		307	309	270	245	250
Manganese	7439-96-5	E475/VA	0.050	mg/kg		0.574	0.387	0.387	0.583	0.692
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt		0.116	0.083	0.085	0.116	0.137
Mercury	7439-97-6	E512/VA	0.010	mg/kg		4.60	1.51	1.48	1.68	0.497



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

Client sample ID					25ONG309 FT HLNPS37	25ONG309 FT HLNPS38	25ONG309 FT HLNPS39	25ONG309 FT HLWYS40	25ONG309 FT HLLWS41
Client sampling date / time					10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510946-016	TY2510946-017	TY2510946-018	TY2510946-019	TY2510946-020
					Result	Result	Result	Result	Result
Metals									
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt	0.927	0.324	0.324	0.335	0.0986
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg	<0.040	<0.040	<0.040	<0.040	<0.040
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel	7440-02-0	E475/VA	0.20	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt	<0.040	<0.040	<0.040	<0.040	<0.040
Phosphorus	7723-14-0	E475/VA	20	mg/kg	10300	10100	9660	10600	10900
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt	2080	2160	2120	2120	2170
Potassium	7440-09-7	E475/VA	20	mg/kg	19600	18900	20100	21700	20500
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt	3940	4060	4420	4330	4070
Rubidium	7440-17-7	E475/VA	0.050	mg/kg	46.1	41.4	72.0	79.6	37.9
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt	9.28	8.90	15.8	15.9	7.52
Selenium	7782-49-2	E475/VA	0.10	mg/kg	0.99	0.98	0.91	0.98	1.08
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt	0.199	0.212	0.199	0.195	0.214
Sodium	7440-23-5	E475/VA	20	mg/kg	2170	1820	2180	2460	2660
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt	437	391	480	491	528
Strontium	7440-24-6	E475/VA	0.10	mg/kg	0.30	0.42	0.20	0.23	1.03
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt	0.060	0.091	0.043	0.047	0.203
Tellurium	13494-80-9	E475/VA	0.020	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	7440-28-0	E475/VA	0.0020	mg/kg	0.0146	0.0128	0.0171	0.0136	0.0078



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLNPS37 ----	25ONG309 FT HLNPS38 ----	25ONG309 FT HLNPS39 ----	25ONG309 FT HLWYS40 ----	25ONG309 FT HLLWS41 ----
Client sampling date / time						10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510946-016	TY2510946-017	TY2510946-018	TY2510946-019	TY2510946-020
						Result	Result	Result	Result	Result
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt		0.00294	0.00276	0.00376	0.00271	0.00154
Tin	7440-31-5	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Uranium	7440-61-1	E475/VA	0.0020	mg/kg		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Vanadium	7440-62-2	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Zinc	7440-66-6	E475/VA	1.0	mg/kg		20.9	14.3	15.7	15.5	13.2
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt		4.22	3.08	3.45	3.09	2.62
Zirconium	7440-67-7	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg		4790	1360	1540	1500	527
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt		<0.50	<0.50	0.56	<0.50	2.95

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



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWYS42	25ONG309 FT HLWYS43	25ONG309 FT HLWSS44	25ONG309 FT HLWSS45	25ONG309 FT HLWSS46
Client sampling date / time						10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510946-021	TY2510946-022	TY2510946-023	TY2510946-024	TY2510946-025
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.50	%		79.7	78.6	83.3	79.7	82.9
Moisture	----	E144A/VA	2.0	%		79.7	78.6	83.3	79.7	82.9
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg		<5.0	<5.0	10.9	12.6	<5.0
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt		<1.0	<1.0	1.8	2.6	<1.0
Antimony	7440-36-0	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Arsenic	7440-38-2	E475/VA	0.050	mg/kg		0.274	0.143	0.258	0.204	0.163
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt		0.056	0.031	0.043	0.041	0.028
Barium	7440-39-3	E475/VA	0.050	mg/kg		0.195	<0.050	0.248	0.168	0.075
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt		0.040	<0.010	0.041	0.034	0.013
Beryllium	7440-41-7	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	7440-69-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	0.108
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	0.0184
Boron	7440-42-8	E475/VA	1.0	mg/kg		<1.0	<1.0	<1.0	<1.1 ^{DLA}	<1.0
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt		<0.20	<0.21 ^{DLA}	<0.20	<0.22 ^{DLA}	<0.20
Cadmium	7440-43-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	7440-70-2	E475/VA	20	mg/kg		4940	495	514	460	354



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWYS42 ----	25ONG309 FT HLWYS43 ----	25ONG309 FT HLWSS44 ----	25ONG309 FT HLWSS45 ----	25ONG309 FT HLWSS46 ----
Client sampling date / time						10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510946-021	TY2510946-022	TY2510946-023	TY2510946-024	TY2510946-025
						Result	Result	Result	Result	Result
Metals										
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt	1000	106	85.8	93.5	60.6	
Cesium	7440-46-2	E475/VA	0.0050	mg/kg	0.988	1.26	0.451	0.375	0.548	
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt	0.201	0.269	0.0751	0.0763	0.0939	
Chromium	7440-47-3	E475/VA	0.20	mg/kg	<0.20	<0.20	0.38	<0.20	<0.20	
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt	<0.040	<0.040	0.063	<0.040	<0.040	
Cobalt	7440-48-4	E475/VA	0.020	mg/kg	<0.020	<0.020	0.028	0.021	<0.020	
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt	<0.0040	<0.0040	0.0047	0.0043	<0.0040	
Copper	7440-50-8	E475/VA	0.20	mg/kg	0.54	0.51	2.00	0.84	0.95	
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt	0.109	0.109	0.334	0.172	0.163	
Iron	7439-89-6	E475/VA	5.0	mg/kg	9.3	<5.0	37.7	32.8	23.6	
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt	1.9	1.1	6.3	6.7	4.0	
Lead	7439-92-1	E475/VA	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt	<0.010	<0.010	<0.010	<0.010	<0.010	
Lithium	7439-93-2	E475/VA	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt	<0.10	<0.10	<0.10	<0.10	<0.10	
Magnesium	7439-95-4	E475/VA	2.0	mg/kg	1630	1310	1900	1540	1910	
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt	332	280	316	314	327	
Manganese	7439-96-5	E475/VA	0.050	mg/kg	1.34	0.464	1.08	1.17	1.04	
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt	0.271	0.099	0.179	0.238	0.178	
Mercury	7439-97-6	E512/VA	0.010	mg/kg	1.20	1.62	0.403	0.183	0.430	



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWYS42 ----	25ONG309 FT HLWYS43 ----	25ONG309 FT HLWSS44 ----	25ONG309 FT HLWSS45 ----	25ONG309 FT HLWSS46 ----
Client sampling date / time						10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510946-021	TY2510946-022	TY2510946-023	TY2510946-024	TY2510946-025
						Result	Result	Result	Result	Result
Metals										
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt		0.244	0.346	0.0673	0.0371	0.0736
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg		<0.040	<0.040	<0.040	<0.040	<0.040
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel	7440-02-0	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Phosphorus	7723-14-0	E475/VA	20	mg/kg		12500	10500	14300	10900	12500
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt		2550	2240	2390	2220	2140
Potassium	7440-09-7	E475/VA	20	mg/kg		20800	21900	28500	21400	25200
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt		4230	4680	4750	4340	4320
Rubidium	7440-17-7	E475/VA	0.050	mg/kg		75.9	80.1	33.6	29.8	40.0
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt		15.4	17.1	5.60	6.05	6.86
Selenium	7782-49-2	E475/VA	0.10	mg/kg		0.87	0.92	1.19	1.06	1.28
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt		0.176	0.196	0.199	0.215	0.219
Sodium	7440-23-5	E475/VA	20	mg/kg		1700	2160	1910	1090	1460
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt		345	462	318	221	251
Strontium	7440-24-6	E475/VA	0.10	mg/kg		4.41	0.22	0.25	0.20	0.13
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt		0.896	0.046	0.042	0.040	0.022
Tellurium	13494-80-9	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	7440-28-0	E475/VA	0.0020	mg/kg		0.0264	0.0138	0.0044	<0.0022 ^{DLA}	<0.0020



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWYS42 ----	25ONG309 FT HLWYS43 ----	25ONG309 FT HLWSS44 ----	25ONG309 FT HLWSS45 ----	25ONG309 FT HLWSS46 ----
Client sampling date / time						10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510946-021	TY2510946-022	TY2510946-023	TY2510946-024	TY2510946-025
						Result	Result	Result	Result	Result
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt		0.00536	0.00295	0.00074	<0.00044 ^{DLA}	<0.00040
Tin	7440-31-5	E475/VA	0.10	mg/kg		<0.10	<0.10	0.29	<0.10	<0.10
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	0.049	<0.020	<0.020
Uranium	7440-61-1	E475/VA	0.0020	mg/kg		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Vanadium	7440-62-2	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Zinc	7440-66-6	E475/VA	1.0	mg/kg		21.5	15.4	18.4	15.1	15.3
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt		4.38	3.30	3.06	3.06	2.63
Zirconium	7440-67-7	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg		978	1990	458	198	442
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt		0.63	<0.50	1.01	0.62	0.92

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



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

Sub-Matrix: Tissue (Matrix: Biota)					Client sample ID	25ONG309 FT HLWSS47 ----	25ONG309 FT HLWSS48 ----	25ONG309 FT HLNPS49 ----	----	----
Client sampling date / time					10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	----	----	
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510946-026	TY2510946-027	TY2510946-028	----	----	
					Result	Result	Result	----	----	
Physical Tests										
Moisture	----	E144/VA	0.50	%	79.9	83.0	84.1	----	----	
Moisture	----	E144A/VA	2.0	%	79.9	83.0	84.1	----	----	
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg	<5.0	64.8	67.9	----	----	
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt	<1.0	11.0	10.8	----	----	
Antimony	7440-36-0	E475/VA	0.020	mg/kg	<0.020	<0.020	<0.020	----	----	
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt	<0.0040	<0.0040	<0.0040	----	----	
Arsenic	7440-38-2	E475/VA	0.050	mg/kg	0.156	0.216	0.228	----	----	
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt	0.031	0.037	0.036	----	----	
Barium	7440-39-3	E475/VA	0.050	mg/kg	0.147	0.144	0.112	----	----	
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt	0.030	0.024	0.018	----	----	
Beryllium	7440-41-7	E475/VA	0.010	mg/kg	<0.010	<0.010	<0.010	----	----	
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt	<0.0020	<0.0020	<0.0020	----	----	
Bismuth	7440-69-9	E475/VA	0.010	mg/kg	0.028	<0.010	<0.010	----	----	
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt	0.0056	<0.0020	<0.0020	----	----	
Boron	7440-42-8	E475/VA	1.0	mg/kg	<1.1 ^{DLA}	<1.0	<1.0	----	----	
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt	<0.22 ^{DLA}	<0.20	<0.20	----	----	
Cadmium	7440-43-9	E475/VA	0.010	mg/kg	<0.010	<0.010	<0.010	----	----	
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt	<0.0020	<0.0020	<0.0020	----	----	
Calcium	7440-70-2	E475/VA	20	mg/kg	619	808	939	----	----	



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

Client sample ID					25ONG309 FT HLWSS47	25ONG309 FT HLWSS48	25ONG309 FT HLNPS49	----	----
Client sampling date / time					10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510946-026	TY2510946-027	TY2510946-028	----	----
					Result	Result	Result	----	----
Metals									
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt	124	137	149	----	----
Cesium	7440-46-2	E475/VA	0.0050	mg/kg	0.334	0.852	1.04	----	----
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt	0.0670	0.144	0.165	----	----
Chromium	7440-47-3	E475/VA	0.20	mg/kg	0.21	0.51	0.37	----	----
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt	0.042	0.087	0.059	----	----
Cobalt	7440-48-4	E475/VA	0.020	mg/kg	<0.020	0.049	0.055	----	----
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt	<0.0040	0.0083	0.0088	----	----
Copper	7440-50-8	E475/VA	0.20	mg/kg	0.78	0.81	0.71	----	----
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt	0.157	0.137	0.112	----	----
Iron	7439-89-6	E475/VA	5.0	mg/kg	17.4	118	123	----	----
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt	3.5	20.0	19.5	----	----
Lead	7439-92-1	E475/VA	0.050	mg/kg	<0.050	<0.050	<0.050	----	----
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt	<0.010	<0.010	<0.010	----	----
Lithium	7439-93-2	E475/VA	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt	<0.10	<0.10	<0.10	----	----
Magnesium	7439-95-4	E475/VA	2.0	mg/kg	1490	1640	1800	----	----
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt	300	278	286	----	----
Manganese	7439-96-5	E475/VA	0.050	mg/kg	1.00	2.30	3.49	----	----
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt	0.202	0.391	0.554	----	----
Mercury	7439-97-6	E512/VA	0.010	mg/kg	0.241	2.84	3.98	----	----



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

Sub-Matrix: Tissue (Matrix: Biota)					Client sample ID	25ONG309 FT HLWSS47 ----	25ONG309 FT HLWSS48 ----	25ONG309 FT HLNPS49 ----	----	----
Client sampling date / time					10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	----	----	
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510946-026	TY2510946-027	TY2510946-028	----	----	
					Result	Result	Result	----	----	
Metals										
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt	0.0484	0.482	0.632	----	----	
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg	<0.040	<0.040	<0.040	----	----	
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt	<0.0080	<0.0080	<0.0080	----	----	
Nickel	7440-02-0	E475/VA	0.20	mg/kg	<0.20	0.22	0.25	----	----	
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt	<0.040	<0.040	<0.040	----	----	
Phosphorus	7723-14-0	E475/VA	20	mg/kg	10700	12300	13300	----	----	
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt	2160	2080	2110	----	----	
Potassium	7440-09-7	E475/VA	20	mg/kg	22800	21800	22100	----	----	
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt	4580	3690	3510	----	----	
Rubidium	7440-17-7	E475/VA	0.050	mg/kg	31.1	35.1	39.1	----	----	
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt	6.25	5.96	6.21	----	----	
Selenium	7782-49-2	E475/VA	0.10	mg/kg	1.09	0.94	1.21	----	----	
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt	0.220	0.159	0.192	----	----	
Sodium	7440-23-5	E475/VA	20	mg/kg	1290	1770	1960	----	----	
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt	260	300	311	----	----	
Strontium	7440-24-6	E475/VA	0.10	mg/kg	0.34	0.64	0.85	----	----	
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt	0.069	0.109	0.135	----	----	
Tellurium	13494-80-9	E475/VA	0.020	mg/kg	<0.020	<0.020	<0.020	----	----	
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt	<0.0040	<0.0040	<0.0040	----	----	
Thallium	7440-28-0	E475/VA	0.0020	mg/kg	0.0268	0.0100	0.0132	----	----	



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

Sub-Matrix: Tissue (Matrix: Biota)					Client sample ID	25ONG309 FT HLWSS47 ----	25ONG309 FT HLWSS48 ----	25ONG309 FT HLNPS49 ----	----	----
Client sampling date / time					10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	----	----	
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510946-026	TY2510946-027	TY2510946-028	----	----	
					Result	Result	Result	----	----	
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt	0.00538	0.00170	0.00210	----	----	
Tin	7440-31-5	E475/VA	0.10	mg/kg	<0.10	0.10	0.13	----	----	
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt	<0.020	<0.020	0.021	----	----	
Uranium	7440-61-1	E475/VA	0.0020	mg/kg	<0.0020	<0.0020	<0.0020	----	----	
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt	<0.00040	<0.00040	<0.00040	----	----	
Vanadium	7440-62-2	E475/VA	0.10	mg/kg	<0.10	0.17	0.15	----	----	
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt	<0.020	0.030	0.024	----	----	
Zinc	7440-66-6	E475/VA	1.0	mg/kg	16.6	22.1	27.3	----	----	
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt	3.33	3.74	4.32	----	----	
Zirconium	7440-67-7	E475/VA	0.20	mg/kg	<0.20	<0.20	<0.20	----	----	
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt	<0.040	<0.040	<0.040	----	----	
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg	239	362	5640	----	----	
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt	<0.50	0.67	<0.50	----	----	

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

Quality Control Interpretive Report

Work Order : **TY2510946**

Client : G3 Consulting Ltd.
Contact : Greg Thomas
Address : 206-8501 162nd St.
Surrey BC Canada V4N 1B2
Telephone : 604 598 8501
Project : 2502
PO : 2502
C-O-C number : ----
Sampler : ----
Site : ----
Quote number : Dubreuilville Project
No. of samples received : 28
No. of samples analysed : 28

Laboratory : ALS Environmental - Thunder Bay
Account Manager : Colby Coutu
Address : 1081 Barton Street
Thunder Bay ON Canada P7B 5N3
Telephone : +1 807 623 6463
Date Samples Received : 19-Sep-2025 16:54
Issue Date : 07-Jan-2026 13:51

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 Services 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 Laboratory Control Sample Duplicate (LCSD) outliers occur
- No Matrix Spike outliers occur.
- No Matrix Spike Duplicate (MSD) 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)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- Quality Control Sample Frequency Outliers occur - please see following pages for full details.



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: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Aggregate Organics : Lipids by Gravimetry												
LDPE bag												
25ONG309 FT HLLWS22	001	2346394	E564B	10-Sep-2025	20-Nov-2025	365 days	71 days	✔	22-Nov-2025	365 days	73 days	✔
25ONG309 FT HLWYS23	002	2346394	E564B	10-Sep-2025	20-Nov-2025	365 days	71 days	✔	22-Nov-2025	365 days	73 days	✔
25ONG309 FT HLNPS24	003	2350971	E564B	10-Sep-2025	22-Nov-2025	365 days	73 days	✔	26-Nov-2025	365 days	77 days	✔
25ONG309 FT HLWSS25	004	2350971	E564B	10-Sep-2025	22-Nov-2025	365 days	73 days	✔	26-Nov-2025	365 days	77 days	✔
25ONG309 FT HLWYS26	005	2350971	E564B	10-Sep-2025	22-Nov-2025	365 days	73 days	✔	26-Nov-2025	365 days	77 days	✔
25ONG309 FT HLWSS27	006	2350971	E564B	10-Sep-2025	22-Nov-2025	365 days	73 days	✔	26-Nov-2025	365 days	77 days	✔
25ONG309 FT HLNPS28	007	2350971	E564B	10-Sep-2025	22-Nov-2025	365 days	73 days	✔	26-Nov-2025	365 days	77 days	✔
25ONG309 FT HLLWS29	008	2350971	E564B	10-Sep-2025	22-Nov-2025	365 days	73 days	✔	26-Nov-2025	365 days	77 days	✔
25ONG309 FT HLLWS30	009	2350971	E564B	10-Sep-2025	22-Nov-2025	365 days	73 days	✔	26-Nov-2025	365 days	77 days	✔
25ONG309 FT HLWYS31	010	2350971	E564B	10-Sep-2025	22-Nov-2025	365 days	73 days	✔	26-Nov-2025	365 days	77 days	✔
25ONG309 FT HLWSS32	011	2350971	E564B	10-Sep-2025	22-Nov-2025	365 days	73 days	✔	26-Nov-2025	365 days	77 days	✔
25ONG309 FT HLLWS33	012	2350971	E564B	10-Sep-2025	22-Nov-2025	365 days	73 days	✔	26-Nov-2025	365 days	77 days	✔
25ONG309 FT HLWYS34	013	2350971	E564B	10-Sep-2025	22-Nov-2025	365 days	73 days	✔	26-Nov-2025	365 days	77 days	✔



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Aggregate Organics : Lipids by Gravimetry												
LDPE bag												
25ONG309 FT HLWYS35	014	2350971	E564B	10-Sep-2025	22-Nov-2025	365 days	73 days	✔	26-Nov-2025	365 days	77 days	✔
25ONG309 FT HLLWS36	015	2350971	E564B	10-Sep-2025	22-Nov-2025	365 days	73 days	✔	26-Nov-2025	365 days	77 days	✔
25ONG309 FT HLNPS37	016	2350971	E564B	10-Sep-2025	22-Nov-2025	365 days	73 days	✔	26-Nov-2025	365 days	77 days	✔
25ONG309 FT HLNPS38	017	2350971	E564B	10-Sep-2025	22-Nov-2025	365 days	73 days	✔	26-Nov-2025	365 days	77 days	✔
25ONG309 FT HLNPS39	018	2350971	E564B	10-Sep-2025	22-Nov-2025	365 days	73 days	✔	26-Nov-2025	365 days	77 days	✔
25ONG309 FT HLWYS40	019	2350971	E564B	10-Sep-2025	22-Nov-2025	365 days	73 days	✔	26-Nov-2025	365 days	77 days	✔
25ONG309 FT HLLWS41	020	2350971	E564B	10-Sep-2025	22-Nov-2025	365 days	73 days	✔	26-Nov-2025	365 days	77 days	✔
25ONG309 FT HLWYS42	021	2350971	E564B	10-Sep-2025	22-Nov-2025	365 days	73 days	✔	26-Nov-2025	365 days	77 days	✔
25ONG309 FT HLWYS43	022	2350971	E564B	10-Sep-2025	22-Nov-2025	365 days	73 days	✔	26-Nov-2025	365 days	77 days	✔
25ONG309 FT HLWSS44	023	2351270	E564B	10-Sep-2025	22-Nov-2025	365 days	73 days	✔	26-Nov-2025	365 days	76 days	✔
25ONG309 FT HLWSS45	024	2351270	E564B	10-Sep-2025	22-Nov-2025	365 days	73 days	✔	26-Nov-2025	365 days	76 days	✔
25ONG309 FT HLWSS46	025	2351270	E564B	10-Sep-2025	22-Nov-2025	365 days	73 days	✔	26-Nov-2025	365 days	76 days	✔
25ONG309 FT HLWSS47	026	2351270	E564B	10-Sep-2025	22-Nov-2025	365 days	73 days	✔	26-Nov-2025	365 days	76 days	✔
25ONG309 FT HLWSS48	027	2351270	E564B	10-Sep-2025	22-Nov-2025	365 days	73 days	✔	26-Nov-2025	365 days	76 days	✔
25ONG309 FT HLNPS49	028	2351270	E564B	10-Sep-2025	22-Nov-2025	365 days	73 days	✔	26-Nov-2025	365 days	76 days	✔
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)												
LDPE bag												
25ONG309 FT HLLWS22	001	2366719	E512	10-Sep-2025	03-Dec-2025	365 days	84 days	✔	08-Dec-2025	365 days	89 days	✔



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)												
LDPE bag												
25ONG309 FT HLWYS23	002	2366719	E512	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLNPS24	003	2366719	E512	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLWSS25	004	2366719	E512	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLWYS26	005	2366719	E512	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLWSS27	006	2366719	E512	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLNPS28	007	2366719	E512	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLLWS29	008	2366719	E512	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLLWS30	009	2366719	E512	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLWYS31	010	2366719	E512	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLWSS32	011	2366719	E512	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLLWS33	012	2366719	E512	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLWYS34	013	2366719	E512	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLWYS35	014	2366719	E512	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLLWS36	015	2366719	E512	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLNPS37	016	2366719	E512	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLNPS38	017	2366719	E512	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLNPS39	018	2366719	E512	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLWYS40	019	2363817	E512	10-Sep-2025	02-Dec-2025	365 days	82 days	✓	04-Dec-2025	365 days	84 days	✓



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method					Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
Client sample ID						Rec	Actual			Rec	Actual	
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)												
LDPE bag												
25ONG309 FT HLLWS41	020	2363817	E512	10-Sep-2025	02-Dec-2025	365 days	82 days	✓	04-Dec-2025	365 days	84 days	✓
25ONG309 FT HLWYS42	021	2363817	E512	10-Sep-2025	02-Dec-2025	365 days	82 days	✓	04-Dec-2025	365 days	84 days	✓
25ONG309 FT HLWYS43	022	2363817	E512	10-Sep-2025	02-Dec-2025	365 days	82 days	✓	04-Dec-2025	365 days	84 days	✓
25ONG309 FT HLWSS44	023	2363817	E512	10-Sep-2025	02-Dec-2025	365 days	82 days	✓	04-Dec-2025	365 days	84 days	✓
25ONG309 FT HLWSS45	024	2363817	E512	10-Sep-2025	02-Dec-2025	365 days	82 days	✓	04-Dec-2025	365 days	84 days	✓
25ONG309 FT HLWSS46	025	2363817	E512	10-Sep-2025	02-Dec-2025	365 days	82 days	✓	04-Dec-2025	365 days	84 days	✓
25ONG309 FT HLWSS47	026	2363817	E512	10-Sep-2025	02-Dec-2025	365 days	82 days	✓	04-Dec-2025	365 days	84 days	✓
25ONG309 FT HLWSS48	027	2363817	E512	10-Sep-2025	02-Dec-2025	365 days	82 days	✓	04-Dec-2025	365 days	84 days	✓
25ONG309 FT HLNPS49	028	2363817	E512	10-Sep-2025	02-Dec-2025	365 days	82 days	✓	04-Dec-2025	365 days	84 days	✓
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)												
LDPE bag												
25ONG309 FT HLLWS22	001	2366716	E512A	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLWYS23	002	2366716	E512A	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLNPS24	003	2366716	E512A	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLWSS25	004	2366716	E512A	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLWYS26	005	2366716	E512A	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLWSS27	006	2366716	E512A	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLNPS28	007	2366716	E512A	10-Sep-2025	03-Dec-2025	365 days	84 days	✓	08-Dec-2025	365 days	89 days	✓



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)												
LDPE bag												
25ONG309 FT HLLWS29	008	2366716	E512A	10-Sep-2025	03-Dec-2025	365 days	84 days	✔	08-Dec-2025	365 days	89 days	✔
25ONG309 FT HLLWS30	009	2366716	E512A	10-Sep-2025	03-Dec-2025	365 days	84 days	✔	08-Dec-2025	365 days	89 days	✔
25ONG309 FT HLWYS31	010	2366716	E512A	10-Sep-2025	03-Dec-2025	365 days	84 days	✔	08-Dec-2025	365 days	89 days	✔
25ONG309 FT HLWSS32	011	2366716	E512A	10-Sep-2025	03-Dec-2025	365 days	84 days	✔	08-Dec-2025	365 days	89 days	✔
25ONG309 FT HLLWS33	012	2366716	E512A	10-Sep-2025	03-Dec-2025	365 days	84 days	✔	08-Dec-2025	365 days	89 days	✔
25ONG309 FT HLWYS34	013	2366716	E512A	10-Sep-2025	03-Dec-2025	365 days	84 days	✔	08-Dec-2025	365 days	89 days	✔
25ONG309 FT HLWYS35	014	2366716	E512A	10-Sep-2025	03-Dec-2025	365 days	84 days	✔	08-Dec-2025	365 days	89 days	✔
25ONG309 FT HLLWS36	015	2366716	E512A	10-Sep-2025	03-Dec-2025	365 days	84 days	✔	08-Dec-2025	365 days	89 days	✔
25ONG309 FT HLNPS37	016	2366716	E512A	10-Sep-2025	03-Dec-2025	365 days	84 days	✔	08-Dec-2025	365 days	89 days	✔
25ONG309 FT HLNPS38	017	2366716	E512A	10-Sep-2025	03-Dec-2025	365 days	84 days	✔	08-Dec-2025	365 days	89 days	✔
25ONG309 FT HLNPS39	018	2366716	E512A	10-Sep-2025	03-Dec-2025	365 days	84 days	✔	08-Dec-2025	365 days	89 days	✔
25ONG309 FT HLWYS40	019	2363814	E512A	10-Sep-2025	02-Dec-2025	365 days	82 days	✔	04-Dec-2025	365 days	84 days	✔
25ONG309 FT HLLWS41	020	2363814	E512A	10-Sep-2025	02-Dec-2025	365 days	82 days	✔	04-Dec-2025	365 days	84 days	✔
25ONG309 FT HLWYS42	021	2363814	E512A	10-Sep-2025	02-Dec-2025	365 days	82 days	✔	04-Dec-2025	365 days	84 days	✔
25ONG309 FT HLWYS43	022	2363814	E512A	10-Sep-2025	02-Dec-2025	365 days	82 days	✔	04-Dec-2025	365 days	84 days	✔
25ONG309 FT HLWSS44	023	2363814	E512A	10-Sep-2025	02-Dec-2025	365 days	82 days	✔	04-Dec-2025	365 days	84 days	✔
25ONG309 FT HLWSS45	024	2363814	E512A	10-Sep-2025	02-Dec-2025	365 days	82 days	✔	04-Dec-2025	365 days	84 days	✔
25ONG309 FT HLWSS46	025	2363814	E512A	10-Sep-2025	02-Dec-2025	365 days	82 days	✔	04-Dec-2025	365 days	84 days	✔



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)												
LDPE bag												
25ONG309 FT HLWSS47	026	2363814	E512A	10-Sep-2025	02-Dec-2025	365 days	82 days	✔	04-Dec-2025	365 days	84 days	✔
25ONG309 FT HLWSS48	027	2363814	E512A	10-Sep-2025	02-Dec-2025	365 days	82 days	✔	04-Dec-2025	365 days	84 days	✔
25ONG309 FT HLNPS49	028	2363814	E512A	10-Sep-2025	02-Dec-2025	365 days	82 days	✔	04-Dec-2025	365 days	84 days	✔
Metals : Metals by CRC ICPMS (DRY units, Biopsy)												
LDPE bag												
25ONG309 FT HLLWS22	001	2366718	E475	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLWYS23	002	2366718	E475	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLNPS24	003	2366718	E475	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLWSS25	004	2366718	E475	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLWYS26	005	2366718	E475	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLWSS27	006	2366718	E475	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLNPS28	007	2366718	E475	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLLWS29	008	2366718	E475	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLLWS30	009	2366718	E475	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLWYS31	010	2366718	E475	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLWSS32	011	2366718	E475	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLLWS33	012	2366718	E475	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLWYS34	013	2366718	E475	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Metals : Metals by CRC ICPMS (DRY units, Biopsy)												
LDPE bag												
25ONG309 FT HLWYS35	014	2366718	E475	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLLWS36	015	2366718	E475	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLNPS37	016	2366718	E475	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLNPS38	017	2366718	E475	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLNPS39	018	2366718	E475	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLWYS40	019	2363816	E475	10-Sep-2025	02-Dec-2025	730 days	82 days	✔	02-Dec-2025	730 days	82 days	✔
25ONG309 FT HLLWS41	020	2363816	E475	10-Sep-2025	02-Dec-2025	730 days	82 days	✔	02-Dec-2025	730 days	82 days	✔
25ONG309 FT HLWYS42	021	2363816	E475	10-Sep-2025	02-Dec-2025	730 days	82 days	✔	02-Dec-2025	730 days	82 days	✔
25ONG309 FT HLWYS43	022	2363816	E475	10-Sep-2025	02-Dec-2025	730 days	82 days	✔	02-Dec-2025	730 days	82 days	✔
25ONG309 FT HLWSS44	023	2363816	E475	10-Sep-2025	02-Dec-2025	730 days	82 days	✔	02-Dec-2025	730 days	82 days	✔
25ONG309 FT HLWSS45	024	2363816	E475	10-Sep-2025	02-Dec-2025	730 days	82 days	✔	02-Dec-2025	730 days	82 days	✔
25ONG309 FT HLWSS46	025	2363816	E475	10-Sep-2025	02-Dec-2025	730 days	82 days	✔	02-Dec-2025	730 days	82 days	✔
25ONG309 FT HLWSS47	026	2363816	E475	10-Sep-2025	02-Dec-2025	730 days	82 days	✔	02-Dec-2025	730 days	82 days	✔
25ONG309 FT HLWSS48	027	2363816	E475	10-Sep-2025	02-Dec-2025	730 days	82 days	✔	02-Dec-2025	730 days	82 days	✔
25ONG309 FT HLNPS49	028	2363816	E475	10-Sep-2025	02-Dec-2025	730 days	82 days	✔	02-Dec-2025	730 days	82 days	✔
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)												
LDPE bag												
25ONG309 FT HLLWS22	001	2366717	E475A	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)												
LDPE bag												
25ONG309 FT HLWYS23	002	2366717	E475A	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLNPS24	003	2366717	E475A	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLWSS25	004	2366717	E475A	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLWYS26	005	2366717	E475A	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLWSS27	006	2366717	E475A	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLNPS28	007	2366717	E475A	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLLWS29	008	2366717	E475A	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLLWS30	009	2366717	E475A	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLWYS31	010	2366717	E475A	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLWSS32	011	2366717	E475A	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLLWS33	012	2366717	E475A	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLWYS34	013	2366717	E475A	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLWYS35	014	2366717	E475A	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLLWS36	015	2366717	E475A	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLNPS37	016	2366717	E475A	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLNPS38	017	2366717	E475A	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLNPS39	018	2366717	E475A	10-Sep-2025	03-Dec-2025	730 days	84 days	✔	04-Dec-2025	730 days	85 days	✔
25ONG309 FT HLWYS40	019	2363815	E475A	10-Sep-2025	02-Dec-2025	730 days	82 days	✔	02-Dec-2025	730 days	83 days	✔



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)												
LDPE bag												
25ONG309 FT HLLWS41	020	2363815	E475A	10-Sep-2025	02-Dec-2025	730 days	82 days	✓	02-Dec-2025	730 days	83 days	✓
25ONG309 FT HLWYS42	021	2363815	E475A	10-Sep-2025	02-Dec-2025	730 days	82 days	✓	02-Dec-2025	730 days	83 days	✓
25ONG309 FT HLWYS43	022	2363815	E475A	10-Sep-2025	02-Dec-2025	730 days	82 days	✓	02-Dec-2025	730 days	83 days	✓
25ONG309 FT HLWSS44	023	2363815	E475A	10-Sep-2025	02-Dec-2025	730 days	82 days	✓	02-Dec-2025	730 days	83 days	✓
25ONG309 FT HLWSS45	024	2363815	E475A	10-Sep-2025	02-Dec-2025	730 days	82 days	✓	02-Dec-2025	730 days	83 days	✓
25ONG309 FT HLWSS46	025	2363815	E475A	10-Sep-2025	02-Dec-2025	730 days	82 days	✓	02-Dec-2025	730 days	83 days	✓
25ONG309 FT HLWSS47	026	2363815	E475A	10-Sep-2025	02-Dec-2025	730 days	82 days	✓	02-Dec-2025	730 days	83 days	✓
25ONG309 FT HLWSS48	027	2363815	E475A	10-Sep-2025	02-Dec-2025	730 days	82 days	✓	02-Dec-2025	730 days	83 days	✓
25ONG309 FT HLNPS49	028	2363815	E475A	10-Sep-2025	02-Dec-2025	730 days	82 days	✓	02-Dec-2025	730 days	83 days	✓
Physical Tests : Moisture Content by Gravimetry												
LDPE bag												
25ONG309 FT HLLWS22	001	2367697	E144	10-Sep-2025	----	----	----		03-Dec-2025	----	----	
25ONG309 FT HLWYS23	002	2367697	E144	10-Sep-2025	----	----	----		03-Dec-2025	----	----	
25ONG309 FT HLNPS24	003	2367697	E144	10-Sep-2025	----	----	----		03-Dec-2025	----	----	
25ONG309 FT HLWSS25	004	2367697	E144	10-Sep-2025	----	----	----		03-Dec-2025	----	----	
25ONG309 FT HLWYS26	005	2367697	E144	10-Sep-2025	----	----	----		03-Dec-2025	----	----	
25ONG309 FT HLWSS27	006	2367697	E144	10-Sep-2025	----	----	----		03-Dec-2025	----	----	
25ONG309 FT HLNPS28	007	2367697	E144	10-Sep-2025	----	----	----		03-Dec-2025	----	----	
25ONG309 FT HLLWS29	008	2367697	E144	10-Sep-2025	----	----	----		03-Dec-2025	----	----	



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Physical Tests : Moisture Content by Gravimetry												
LDPE bag												
25ONG309 FT HLLWS30	009	2367697	E144	10-Sep-2025	----	----	----		03-Dec-2025	----	----	
25ONG309 FT HLWYS31	010	2367697	E144	10-Sep-2025	----	----	----		03-Dec-2025	----	----	
25ONG309 FT HLWSS32	011	2367697	E144	10-Sep-2025	----	----	----		03-Dec-2025	----	----	
25ONG309 FT HLLWS33	012	2367697	E144	10-Sep-2025	----	----	----		03-Dec-2025	----	----	
25ONG309 FT HLWYS34	013	2367697	E144	10-Sep-2025	----	----	----		03-Dec-2025	----	----	
25ONG309 FT HLWYS35	014	2367697	E144	10-Sep-2025	----	----	----		03-Dec-2025	----	----	
25ONG309 FT HLLWS36	015	2367697	E144	10-Sep-2025	----	----	----		03-Dec-2025	----	----	
25ONG309 FT HLNPS37	016	2367697	E144	10-Sep-2025	----	----	----		03-Dec-2025	----	----	
25ONG309 FT HLNPS38	017	2367697	E144	10-Sep-2025	----	----	----		03-Dec-2025	----	----	
25ONG309 FT HLNPS39	018	2367697	E144	10-Sep-2025	----	----	----		03-Dec-2025	----	----	
25ONG309 FT HLWYS40	019	2369478	E144	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLLWS41	020	2369478	E144	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLWYS42	021	2369478	E144	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLWYS43	022	2369478	E144	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLWSS44	023	2369478	E144	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLWSS45	024	2369478	E144	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLWSS46	025	2369478	E144	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLWSS47	026	2369478	E144	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLWSS48	027	2369478	E144	10-Sep-2025	----	----	----		04-Dec-2025	----	----	



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method					Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
Client sample ID						Rec	Actual			Rec	Actual	
Physical Tests : Moisture Content by Gravimetry												
LDPE bag												
25ONG309 FT HLNPS49	028	2369478	E 144	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)												
LDPE bag												
25ONG309 FT HLLWS22	001	2356176	E144A	10-Sep-2025	----	----	----		26-Nov-2025	----	----	
25ONG309 FT HLWYS23	002	2356176	E144A	10-Sep-2025	----	----	----		26-Nov-2025	----	----	
25ONG309 FT HLNPS24	003	2356176	E144A	10-Sep-2025	----	----	----		26-Nov-2025	----	----	
25ONG309 FT HLWSS25	004	2356176	E144A	10-Sep-2025	----	----	----		26-Nov-2025	----	----	
25ONG309 FT HLWYS26	005	2356176	E144A	10-Sep-2025	----	----	----		26-Nov-2025	----	----	
25ONG309 FT HLWSS27	006	2356176	E144A	10-Sep-2025	----	----	----		26-Nov-2025	----	----	
25ONG309 FT HLNPS28	007	2356176	E144A	10-Sep-2025	----	----	----		26-Nov-2025	----	----	
25ONG309 FT HLLWS29	008	2356176	E144A	10-Sep-2025	----	----	----		26-Nov-2025	----	----	
25ONG309 FT HLLWS30	009	2356176	E144A	10-Sep-2025	----	----	----		26-Nov-2025	----	----	
25ONG309 FT HLWYS31	010	2356176	E144A	10-Sep-2025	----	----	----		26-Nov-2025	----	----	
25ONG309 FT HLWSS32	011	2356176	E144A	10-Sep-2025	----	----	----		26-Nov-2025	----	----	
25ONG309 FT HLLWS33	012	2356176	E144A	10-Sep-2025	----	----	----		26-Nov-2025	----	----	
25ONG309 FT HLWYS34	013	2356176	E144A	10-Sep-2025	----	----	----		26-Nov-2025	----	----	
25ONG309 FT HLWYS35	014	2356176	E144A	10-Sep-2025	----	----	----		26-Nov-2025	----	----	
25ONG309 FT HLLWS36	015	2356176	E144A	10-Sep-2025	----	----	----		26-Nov-2025	----	----	
25ONG309 FT HLNPS37	016	2356176	E144A	10-Sep-2025	----	----	----		26-Nov-2025	----	----	



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Physical Tests : Moisture Content by Gravimetry (Biopsy)												
LDPE bag												
25ONG309 FT HLNPS38	017	2356176	E144A	10-Sep-2025	----	----	----		26-Nov-2025	----	----	
25ONG309 FT HLNPS39	018	2356176	E144A	10-Sep-2025	----	----	----		26-Nov-2025	----	----	
25ONG309 FT HLWYS40	019	2364084	E144A	10-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT HLLWS41	020	2364084	E144A	10-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT HLWYS42	021	2364084	E144A	10-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT HLWYS43	022	2364084	E144A	10-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT HLWSS44	023	2364084	E144A	10-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT HLWSS45	024	2364084	E144A	10-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT HLWSS46	025	2364084	E144A	10-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT HLWSS47	026	2364084	E144A	10-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT HLWSS48	027	2364084	E144A	10-Sep-2025	----	----	----		01-Dec-2025	----	----	
25ONG309 FT HLNPS49	028	2364084	E144A	10-Sep-2025	----	----	----		01-Dec-2025	----	----	
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)												
LDPE bag												
25ONG309 FT HLLWS22	001	2364507	E538	10-Sep-2025	03-Dec-2025	365 days	83 days	✓	04-Dec-2025	365 days	0 days	✓
25ONG309 FT HLWYS23	002	2364507	E538	10-Sep-2025	03-Dec-2025	365 days	83 days	✓	04-Dec-2025	365 days	0 days	✓
25ONG309 FT HLNPS24	003	2364507	E538	10-Sep-2025	03-Dec-2025	365 days	83 days	✓	04-Dec-2025	365 days	0 days	✓
25ONG309 FT HLWSS25	004	2364507	E538	10-Sep-2025	03-Dec-2025	365 days	83 days	✓	04-Dec-2025	365 days	0 days	✓
25ONG309 FT HLWYS26	005	2364507	E538	10-Sep-2025	03-Dec-2025	365 days	83 days	✓	04-Dec-2025	365 days	0 days	✓



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)												
LDPE bag												
25ONG309 FT HLWSS27	006	2364507	E538	10-Sep-2025	03-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	0 days	✔
25ONG309 FT HLNPS28	007	2364507	E538	10-Sep-2025	03-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	0 days	✔
25ONG309 FT HLLWS29	008	2364507	E538	10-Sep-2025	03-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	0 days	✔
25ONG309 FT HLLWS30	009	2364507	E538	10-Sep-2025	03-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	0 days	✔
25ONG309 FT HLWYS31	010	2364507	E538	10-Sep-2025	03-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	0 days	✔
25ONG309 FT HLWSS32	011	2364507	E538	10-Sep-2025	03-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	0 days	✔
25ONG309 FT HLLWS33	012	2364507	E538	10-Sep-2025	03-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	0 days	✔
25ONG309 FT HLWYS34	013	2364507	E538	10-Sep-2025	03-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	0 days	✔
25ONG309 FT HLWYS35	014	2364507	E538	10-Sep-2025	03-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	0 days	✔
25ONG309 FT HLLWS36	015	2364515	E538	10-Sep-2025	03-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	0 days	✔
25ONG309 FT HLNPS37	016	2364515	E538	10-Sep-2025	03-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	0 days	✔
25ONG309 FT HLNPS38	017	2364515	E538	10-Sep-2025	03-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	0 days	✔
25ONG309 FT HLNPS39	018	2364515	E538	10-Sep-2025	03-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	0 days	✔
25ONG309 FT HLWYS40	019	2364515	E538	10-Sep-2025	03-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	0 days	✔
25ONG309 FT HLLWS41	020	2364515	E538	10-Sep-2025	03-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	0 days	✔
25ONG309 FT HLWYS42	021	2364515	E538	10-Sep-2025	03-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	0 days	✔
25ONG309 FT HLWYS43	022	2364515	E538	10-Sep-2025	03-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	0 days	✔
25ONG309 FT HLWSS44	023	2364515	E538	10-Sep-2025	03-Dec-2025	365 days	83 days	✔	04-Dec-2025	365 days	0 days	✔



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method					Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
Client sample ID						Rec	Actual			Rec	Actual	
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)												
LDPE bag												
25ONG309 FT HLWSS45	024	2364515	E538	10-Sep-2025	03-Dec-2025	365 days	83 days	✓	04-Dec-2025	365 days	0 days	✓
25ONG309 FT HLWSS46	025	2364515	E538	10-Sep-2025	03-Dec-2025	365 days	83 days	✓	04-Dec-2025	365 days	0 days	✓
25ONG309 FT HLWSS47	026	2364515	E538	10-Sep-2025	03-Dec-2025	365 days	83 days	✓	04-Dec-2025	365 days	0 days	✓
25ONG309 FT HLWSS48	027	2364515	E538	10-Sep-2025	03-Dec-2025	365 days	83 days	✓	04-Dec-2025	365 days	0 days	✓
25ONG309 FT HLNPS49	028	2364515	E538	10-Sep-2025	03-Dec-2025	365 days	83 days	✓	09-Dec-2025	365 days	6 days	✓

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: Biota

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)							
Moisture Content by Gravimetry	E144	2367697	0	40	0.0	5.0	✖
Methylmercury in Biota by GCAFS (DRY units, Routine)	E538	2364507	2	28	7.1	5.0	✔
Lipids by Gravimetry	E564B	2346394	3	60	5.0	5.0	✔
Laboratory Control Samples (LCS)							
Moisture Content by Gravimetry	E144	2367697	2	40	5.0	5.0	✔
Moisture Content by Gravimetry (Biopsy)	E144A	2356176	2	40	5.0	5.0	✔
Metals by CRC ICPMS (DRY units, Biopsy)	E475	2366718	4	40	10.0	10.0	✔
Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)	E475A	2366717	4	40	10.0	10.0	✔
Mercury in Biota by CVAAS (DRY units, Biopsy)	E512	2366719	4	40	10.0	10.0	✔
Mercury in Biota by CVAAS (Wet Weight, Biopsy)	E512A	2366716	4	40	10.0	10.0	✔
Methylmercury in Biota by GCAFS (DRY units, Routine)	E538	2364507	4	28	14.3	10.0	✔
Lipids by Gravimetry	E564B	2346394	3	60	5.0	5.0	✔
Method Blanks (MB)							
Moisture Content by Gravimetry	E144	2367697	2	40	5.0	5.0	✔
Moisture Content by Gravimetry (Biopsy)	E144A	2356176	2	40	5.0	5.0	✔
Metals by CRC ICPMS (DRY units, Biopsy)	E475	2366718	2	40	5.0	5.0	✔
Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)	E475A	2366717	2	40	5.0	5.0	✔
Mercury in Biota by CVAAS (DRY units, Biopsy)	E512	2366719	2	40	5.0	5.0	✔
Mercury in Biota by CVAAS (Wet Weight, Biopsy)	E512A	2366716	2	40	5.0	5.0	✔
Methylmercury in Biota by GCAFS (DRY units, Routine)	E538	2364507	2	28	7.1	5.0	✔
Lipids by Gravimetry	E564B	2346394	3	60	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
Lipids by Gravimetry	E564B ALS Environmental - Thunder Bay	Biota	EPA 8290A (mod)	Lipids are extracted from the sample, after which the extract is evaporated in a pre-weighed container and the mass of the residue is determined gravimetrically.
Mercury in Biota by CVAAS (DRY units, Biopsy)	E512 ALS Environmental - Thunder Bay	Biota	EPA 200.3/1631 Appendix (mod)	Samples are digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Analysis is by CVAAS.
Mercury in Biota by CVAAS (Wet Weight, Biopsy)	E512A ALS Environmental - Thunder Bay	Biota	EPA 200.3/1631 Appendix (mod)	Samples are homogenized digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Analysis is by CVAAS.
Metals by CRC ICPMS (DRY units, Biopsy)	E475 ALS Environmental - Thunder Bay	Biota	EPA 200.3/6020B (mod)	Samples are digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Analysis is by Collision/Reaction Cell ICPMS: This method employs a strong acid/peroxide digestion, and is intended to provide a conservative estimate of bio-available metals. Near complete recoveries are achieved for most toxicologically important metals, but elements associated with recalcitrant minerals may be only partially recovered.
Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)	E475A ALS Environmental - Thunder Bay	Biota	EPA 200.3/6020B (mod)	Samples are digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Analysis is by Collision/Reaction Cell ICPMS. Method Limitation: This method employs a strong acid/peroxide digestion, and is intended to provide a conservative estimate of bio-available metals. Near complete recoveries are achieved for most toxicologically important metals, but elements associated with recalcitrant minerals may be only partially recovered.
Methylmercury in Biota by GCAFS (DRY units, Routine)	E538 ALS Environmental - Thunder Bay	Biota	Liang et al. (1994)/EPA 1630 (mod)	This method follows the procedures published by Liang, Bloom and Horvat in Clinical Chemistry (Vol 40, No 4, 1994). Samples are homogenized and then digested in a methanolic potassium hydroxide solution. An aliquot of the digestate is analyzed by aqueous phase ethylation, purge and trap, desorption and GC separation. The separated species are then pyrolyzed to elemental Hg and quantified by cold vapour atomic fluorescence spectroscopy. Results are reported "as MeHg".
Moisture Content by Gravimetry	E144 ALS Environmental - Thunder Bay	Biota	ASTM Method D4638-16 (mod)	Moisture is measured gravimetrically by drying the sample at 105°C. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
Moisture Content by Gravimetry (Biopsy)	E144A ALS Environmental - Thunder Bay	Biota	ASTM Method D4638-16 (mod)	Moisture is measured gravimetrically by drying the sample at <60°C for a minimum of 3 days to constant weight. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Lipids Extraction by Tumbler	EP564 ALS Environmental - Thunder Bay	Biota	EPA 3570 (mod)	A homogenized biota sample is extracted with dichloromethane by a rotary extractor to yield sample's lipid content.
Metals and Mercury Biota Digestion (Biopsy)	EP475 ALS Environmental - Thunder Bay	Biota	EPA 200.3/200.8 (mod)	Samples are digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Method Limitation: This method employs a strong acid/peroxide digestion, and is intended to provide a conservative estimate of bio-available metals. Near complete recoveries are achieved for most toxicologically important metals, but elements associated with recalcitrant minerals may be only partially recovered.
Methylmercury Biota Preparation	EP538 ALS Environmental - Thunder Bay	Biota	Liang et al. (1994)	This method follows the procedures published by Liang, Bloom and Horvat in Clinical Chemistry (Vol 40, No 4, 1994). Samples are homogenized and then digested in a methanolic potassium hydroxide solution.



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Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

COC Number: 22 -

Page 1 of 6

Environmental Division
Thunder Bay
Work Order Reference
TY2510946



Telephone: +1 807 623 6463

Report To Contract and company name below will appear on the final report		Reports / Recipients		Turnaround Time (TAT) Requested																									
Company:	G3 Consulting Ltd.	Select Report Format:	☒ PDF ☒ EXCEL ☐ EDD (DIGITAL)	☒ Routine (R) If received by 3pm M-F - no surcharges apply																									
Contact:	Greg Thomas	Merge QC/QC Reports with COA:	☒ YES ☐ NO ☐ N/A	☐ 4 day (P4) If received by 3pm M-F - 25% rush surcharge minimum																									
Phone:	804-598-8501	☒ Compare Results to Criteria on Report - provide details below if box checked		☐ 3 day (P3) If received by 3pm M-F - 25% rush surcharge minimum																									
Company address below will appear on the final report		Select Distribution:	☒ EMAIL ☐ MAIL ☐ FAX	☐ 2 day (P2) If received by 3pm M-F - 50% rush surcharge minimum																									
Street:	206-8501 162 St	Email 1 or Fax:	kafonao@g3consulting.com; cwlson@g3consulting.com	☐ 1 day (F) If received by 3pm M-F - 100% rush surcharge minimum																									
City/Province:	Surrey, BC	Email 2:	aquran@hlg3consulting.com; farnell@g3consulting.com	☐ Same day (E2) If received by 10am M-S - 200% rush surcharge																									
Postal Code:	V4N 1B2	Email 3:	gthomse@g3consulting.com; myle@g3consulting.com	Additional fees may apply to rush requests on weekends.																									
Invoice To:	Same as Report To ☐ YES ☒ NO	Invoice Recipients		Date and Time Required for all EAP TATs:																									
	Copy of Invoice with Report ☐ YES ☒ NO	Select Invoice Distribution:	☒ EMAIL ☐ MAIL ☐ FAX	For all tests with rush TATs requested, please contact:																									
Company:	G3 Consulting Ltd.	Email 1 or Fax:	sjohnson@g3consulting.com	Analysis Request																									
Contact:		Email 2:	info@g3consulting.com	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below																									
Project Information		Oil and Gas Required Fields (client use)		<table border="1"> <tr> <th rowspan="4">NUMBER OF CONTAINERS</th> <th colspan="5">Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below</th> <th rowspan="4">SAMPLES ON HOLD</th> <th rowspan="4">EXTENDED STORAGE REQUIRED</th> <th rowspan="4">SUSPECTED HAZARD (see notes)</th> </tr> <tr> <th>Metal w/ selenium</th> <th>Total Mercury</th> <th>Methylmercury</th> <th>Mobility</th> <th>Lipids</th> </tr> <tr> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td> </tr> </table>		NUMBER OF CONTAINERS	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below					SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)	Metal w/ selenium	Total Mercury	Methylmercury	Mobility	Lipids										
NUMBER OF CONTAINERS	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below						SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)																				
	Metal w/ selenium	Total Mercury	Methylmercury							Mobility	Lipids																		
ALS Account # / Quote #:	G3CO100 / WT2025G3CO1000001	APE/Cost Center:	PO#																										
Job #:	2502	Major/Minor Code:	Routing Code:																										
PO / AFE:	2502	Requisitioner:																											
LSO:		Location:																											
ALS Lab Work Order # (ALS use only):		ALS Contact:	Sampler:																										
ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type																									
	25ONG309 FT ~~HLWYS22~~ HLWYS22	10-Sept-2025	16:00	Biota/Tissue	R	R	R	R																					
	25ONG309 FT ~~HLWYS23~~ HLWYS23	-Sept-2025		Biota/Tissue	R	R																							
	25ONG309 FT ~~HLWYS24~~ HLWYS24	-Sept-2025		Biota/Tissue	R	R																							
	25ONG309 FT ~~HLWYS25~~ HLWYS25	-Sept-2025		Biota/Tissue	R	R																							
	25ONG309 FT ~~HLWYS26~~ HLWYS26	-Sept-2025		Biota/Tissue	R	R																							
	25ONG309 FT ~~HLWYS27~~ HLWYS27	-Sept-2025		Biota/Tissue	R	R																							
	25ONG309 FT ~~HLWYS28~~ HLWYS28	-Sept-2025		Biota/Tissue	R	R																							
	25ONG309 FT ~~HLWYS29~~ HLWYS29	-Sept-2025		Biota/Tissue	R	R																							
	25ONG309 FT ~~HLWYS30~~ HLWYS30	-Sept-2025		Biota/Tissue	R	R																							
	25ONG309 FT ~~HLWYS31~~ HLWYS31	-Sept-2025		Biota/Tissue	R	R																							
	25ONG309 FT ~~HLWYS32~~ HLWYS32	-Sept-2025		Biota/Tissue	R	R																							
	25ONG309 FT ~~HLWYS33~~ HLWYS33	-Sept-2025		Biota/Tissue	R	R																							
	25ONG309 FT ~~HLWYS34~~ HLWYS34	-Sept-2025		Biota/Tissue	R	R																							
	25ONG309 FT ~~HLWYS35~~ HLWYS35	-Sept-2025		Biota/Tissue	R	R																							
Drinking Water (DW) Samples¹ (client use)		Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)		SAMPLE RECEIPT DETAILS (ALS use only)																									
Are samples taken from a Regulated DW System? ☐ YES ☐ NO				Cooling Method: ☐ NONE ☒ ICE ☒ ICE PACKS ☐ FROZEN ☒ COOLING INITIATED																									
Are samples for human consumption/ use? ☐ YES ☐ NO				Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO																									
				Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A																									
				INITIAL COOLER TEMPERATURES °C: -2.9 -2.6 FINAL COOLER TEMPERATURES °C:																									
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (ALS use only)		FINAL SHIPMENT RECEPTION (ALS use only)																									
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:																					
						AC	19-Sep-25	4:54																					

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

2x deep d

Intake and Login Verification Form

SAMPLE INTAKE				ACCOUNT INFO VERIFICATION			
Priority/Emergency Service Requested	YES	NO		Priority/Emergency Service Requested	YES	NO	
Time Sensitive Hold Time	YES	NO		Confirmed all as accurate as per COC, Sample Remarks or PM			
Client:				Client	Work Contact	Quote	
SAMPLE RECEIPT INFORMATION				RECEIPT DETAIL			
Mode of Delivery:	Courier	Drop Off		Project	PO	Site/LSD	
Courier				Overall Description Entered	Yes	NA	
Waybill Number				Received date/time as per COC	Yes		
Temperature			Cooler Count	Recipients match CoC or Sample Remarks	Yes	No	
Cooling Method	None	Ice	Ice Packs	Billing Instruction added to remarks	Yes	NA	
SAMPLE MATRIX/BOTTLE INFORMATION				Sample Remarks/Specification Doc checked	Yes		
Matrix:	Water	Soil	Air	Submission Issues communicated	Yes	NA	
DW Schedule 24 Bottles Correct?			Yes	Sample Info communicated via Remarks	Yes	NA	
DW Metals pH Check <2			Yes	VERIFICATION CHECKLIST			
Regulation Circled, Works # present	Yes	No - Reject?		Planned Event Submission	Yes	No	
# of Bottles:	Sample Count	28		Sample Name entered as per CoC	Yes		
Green/white				Sampling Date and time entered as per CoC	Yes		
Purple/white				Containers selected in layout order	Yes		
Warm red/white				Sales items entered from QUOTE ONLY (and/or verified as correct)	Yes		
Yellow/black				Field Data/EC298A removed if not on COC	Yes	NA	
Light blue/white				Bottle Allocation Verified	Yes		
Orange/black				Guideline added or auto-allocated	Yes		
Others (detail)	28 fish			Due dates updated	Yes		
Comments on Samples and Bottles:				VALIDATION			
fr-4-ULWSS25- received bags?				Validation errors resolved?	Yes	No	
Samples Requiring Preservation or Filtering:				Internal Sublet CoC created	Yes	NA	
Layout Staff Initials				Login Comments:			
Date and Time of Layout				Login Staff Initials:			

CERTIFICATE OF ANALYSIS

Work Order	: TY2510952		
Client	: G3 Consulting Ltd.	Laboratory	: ALS Environmental - Thunder Bay
Contact	: Greg Thomas	Account Manager	: Christine Paradis
Address	: 206-8501 162nd St. Surrey British Columbia Canada V4N 1B2	Address	: 1081 Barton Street Thunder Bay ON Canada P7B 5N3
Telephone	: 604 598 8501	E-mail	: Christine.Paradis@ALSGlobal.com
Project	: 2502	Telephone	: +1 807 623 6463
PO	: 2502	Date Samples Received	: 19-Sep-2025 16:54
C-O-C number	: ----	Date Analysis Commenced	: 22-Nov-2025
Sampler	: ----	Issue Date	: 09-Jan-2026 12:52
Site	: ----		
Quote number	: Dubreuilville Project		
No. of samples received	: 27		
No. of samples analysed	: 27		

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.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Bitu Emamgholi	Lab Assistant	Metals, Burnaby, British Columbia
Brieanna Allen	Production/Validation Manager	Organics, Burnaby, British Columbia
Cesar Mora	Lab Assistant	Metals, Burnaby, British Columbia
Dan Gebert	Supervisor - Metals Mercury & Speciation	Metals, Burnaby, British Columbia
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Metals, Burnaby, British Columbia
Robin Weeks	Supervisor - Organics Extractions	Organics, Burnaby, British Columbia
Salimah Khimani	Lab Assistant	Metals, Burnaby, British Columbia
Shahrzad Firoozbakht	Lab Assistant	Metals, Burnaby, British Columbia



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).

Unit	Description
%	percent
% wwt	% wet weight
mg/kg	milligrams per kilogram
mg/kg wwt	milligrams per kilogram wet weight
µg/kg	micrograms per kilogram

<: less than.

>: greater than.

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.

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.

Workorder Comments

Samples HLWYS 59: Samples not received at laboratory, but requested on Chain of Custody / analytical request form; subsample cannot be obtained from other containers to meet request. The requested analysis cannot be performed.

Qualifiers

Qualifier	Description
DLA	Detection Limit adjusted for required dilution.
DLIS	Detection Limit Adjusted due to insufficient sample.



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWYS50	25ONG309 FT HLWSS51	25ONG309 FT HLWYS52	25ONG309 FT HLNPS53	25ONG309 FT HLWSS54
Client sampling date / time						09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510952-001	TY2510952-002	TY2510952-003	TY2510952-004	TY2510952-005
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.50	%		75.8	78.1	78.2	77.8	81.2
Moisture	----	E144A/VA	2.0	%		75.8	78.1	78.2	77.8	81.2
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg		<5.0	<5.0	6.9	<5.0	6.4
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt		<1.0	<1.0	1.5	<1.0	1.2
Antimony	7440-36-0	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Arsenic	7440-38-2	E475/VA	0.050	mg/kg		0.140	0.141	0.148	0.163	0.125
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt		0.034	0.031	0.032	0.036	0.023
Barium	7440-39-3	E475/VA	0.050	mg/kg		<0.050	0.064	5.35	<0.050	0.154
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt		<0.010	0.014	1.16	<0.010	0.029
Beryllium	7440-41-7	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	7440-69-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	7440-42-8	E475/VA	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt		<0.20	<0.22 ^{DLA}	<0.23 ^{DLA}	<0.20	<0.20
Cadmium	7440-43-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	7440-70-2	E475/VA	20	mg/kg		435	365	460	564	426



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

Client sample ID					25ONG309 FT HLWYS50	25ONG309 FT HLWSS51	25ONG309 FT HLWYS52	25ONG309 FT HLNPS53	25ONG309 FT HLWSS54
Client sampling date / time					09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510952-001	TY2510952-002	TY2510952-003	TY2510952-004	TY2510952-005
					Result	Result	Result	Result	Result
Metals									
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt	105	79.9	100	125	80.1
Cesium	7440-46-2	E475/VA	0.0050	mg/kg	1.82	0.390	1.25	0.898	0.451
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt	0.440	0.0854	0.273	0.199	0.0849
Chromium	7440-47-3	E475/VA	0.20	mg/kg	<0.20	0.46	<0.20	<0.20	<0.20
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt	<0.040	0.100	<0.040	<0.040	<0.040
Cobalt	7440-48-4	E475/VA	0.020	mg/kg	<0.020	<0.020	<0.020	<0.020	0.027
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt	<0.0040	<0.0040	<0.0040	<0.0040	0.0050
Copper	7440-50-8	E475/VA	0.20	mg/kg	0.54	0.65	0.60	1.10	2.14
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt	0.130	0.143	0.131	0.245	0.402
Iron	7439-89-6	E475/VA	5.0	mg/kg	12.5	10.1	9.5	12.0	28.9
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt	3.0	2.2	2.1	2.7	5.4
Lead	7439-92-1	E475/VA	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt	<0.010	<0.010	<0.010	<0.010	<0.010
Lithium	7439-93-2	E475/VA	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	7439-95-4	E475/VA	2.0	mg/kg	1750	1580	1710	1440	1360
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt	423	346	373	320	256
Manganese	7439-96-5	E475/VA	0.050	mg/kg	0.608	0.998	0.828	0.667	0.939
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt	0.147	0.219	0.180	0.148	0.177
Mercury	7439-97-6	E512/VA	0.010	mg/kg	1.46	0.253	1.57	1.96	0.622



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWYS50	25ONG309 FT HLWSS51	25ONG309 FT HLWYS52	25ONG309 FT HLNPS53	25ONG309 FT HLWSS54
					Client sampling date / time	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510952-001	TY2510952-002	TY2510952-003	TY2510952-004	TY2510952-005
						Result	Result	Result	Result	Result
Metals										
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt		0.353	0.0554	0.342	0.434	0.117
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg		<0.040	<0.040	<0.040	<0.040	<0.040
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel	7440-02-0	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Phosphorus	7723-14-0	E475/VA	20	mg/kg		10900	10500	11800	10300	11000
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt		2640	2290	2570	2280	2060
Potassium	7440-09-7	E475/VA	20	mg/kg		21000	21400	23900	19900	22000
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt		5080	4680	5200	4420	4140
Rubidium	7440-17-7	E475/VA	0.050	mg/kg		93.0	29.3	88.9	44.6	27.4
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt		22.5	6.42	19.4	9.89	5.16
Selenium	7782-49-2	E475/VA	0.10	mg/kg		1.03	1.10	1.00	1.03	1.47
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt		0.249	0.241	0.219	0.229	0.276
Sodium	7440-23-5	E475/VA	20	mg/kg		1170	1330	1330	982	1260
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt		283	292	290	218	237
Strontium	7440-24-6	E475/VA	0.10	mg/kg		0.20	0.22	0.27	0.37	0.22
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt		0.048	0.047	0.059	0.081	0.042
Tellurium	13494-80-9	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	7440-28-0	E475/VA	0.0020	mg/kg		0.0291	<0.0020	0.0279	0.0176	<0.0020



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWYS50 ----	25ONG309 FT HLWSS51 ----	25ONG309 FT HLWYS52 ----	25ONG309 FT HLNPS53 ----	25ONG309 FT HLWSS54 ----
Client sampling date / time						09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510952-001	TY2510952-002	TY2510952-003	TY2510952-004	TY2510952-005
						Result	Result	Result	Result	Result
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt		0.00703	<0.00043 ^{DLA}	0.00609	0.00391	<0.00040
Tin	7440-31-5	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Uranium	7440-61-1	E475/VA	0.0020	mg/kg		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Vanadium	7440-62-2	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Zinc	7440-66-6	E475/VA	1.0	mg/kg		15.2	13.9	16.8	19.3	16.7
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt		3.68	3.03	3.66	4.27	3.15
Zirconium	7440-67-7	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg		961	192	892	1170	538
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt		0.62	<0.50	<0.50	<0.50	1.54

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



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWSS55	25ONG309 FT HLWSS56	25ONG309 FT HLWYS57	25ONG309 FT HLNPS58	25ONG309 FT HLNPS60
Client sampling date / time						09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510952-006	TY2510952-007	TY2510952-008	TY2510952-009	TY2510952-010
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.50	%		82.2	79.7	77.5	78.8	79.5
Moisture	----	E144A/VA	2.0	%		82.2	79.7	77.5	78.8	79.5
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt		<1.0	<1.0	<1.0	<1.0	<1.0
Antimony	7440-36-0	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Arsenic	7440-38-2	E475/VA	0.050	mg/kg		0.163	0.107	0.187	0.119	0.121
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt		0.029	0.022	0.042	0.025	0.025
Barium	7440-39-3	E475/VA	0.050	mg/kg		0.124	0.114	<0.050	<0.050	<0.050
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt		0.022	0.023	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	7440-69-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	7440-42-8	E475/VA	1.0	mg/kg		<1.2 ^{DLA}	<1.1 ^{DLA}	<1.0	<1.0	<1.1 ^{DLA}
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt		<0.22 ^{DLA}	<0.21 ^{DLA}	<0.20	<0.21 ^{DLA}	<0.22 ^{DLA}
Cadmium	7440-43-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	7440-70-2	E475/VA	20	mg/kg		472	529	682	877	816



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWSS55 ----	25ONG309 FT HLWSS56 ----	25ONG309 FT HLWYS57 ----	25ONG309 FT HLNPS58 ----	25ONG309 FT HLNPS60 ----
Client sampling date / time						09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510952-006	TY2510952-007	TY2510952-008	TY2510952-009	TY2510952-010
						Result	Result	Result	Result	Result
Metals										
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt		84.3	107	153	186	167
Cesium	7440-46-2	E475/VA	0.0050	mg/kg		0.362	0.293	1.33	0.991	0.816
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt		0.0646	0.0594	0.299	0.210	0.167
Chromium	7440-47-3	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	0.22	<0.20
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	0.046	<0.040
Cobalt	7440-48-4	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Copper	7440-50-8	E475/VA	0.20	mg/kg		0.74	0.70	0.47	0.46	0.61
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt		0.133	0.142	0.106	0.099	0.126
Iron	7439-89-6	E475/VA	5.0	mg/kg		29.3	15.3	6.8	8.0	11.4
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt		5.2	3.1	1.5	1.7	2.3
Lead	7439-92-1	E475/VA	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt		<0.010	<0.010	<0.010	<0.010	<0.010
Lithium	7439-93-2	E475/VA	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt		<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	7439-95-4	E475/VA	2.0	mg/kg		1780	1870	1490	1560	1530
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt		318	379	334	331	313
Manganese	7439-96-5	E475/VA	0.050	mg/kg		1.48	1.63	0.818	1.08	1.14
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt		0.265	0.330	0.184	0.230	0.234
Mercury	7439-97-6	E512/VA	0.010	mg/kg		0.259	0.214	1.71	2.01	1.20



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWSS55	25ONG309 FT HLWSS56	25ONG309 FT HLWYS57	25ONG309 FT HLNPS58	25ONG309 FT HLNPS60
					Client sampling date / time	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510952-006	TY2510952-007	TY2510952-008	TY2510952-009	TY2510952-010
						Result	Result	Result	Result	Result
Metals										
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt		0.0462	0.0433	0.385	0.426	0.245
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg		<0.040	<0.040	<0.040	<0.040	<0.040
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel	7440-02-0	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	0.25
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	0.052
Phosphorus	7723-14-0	E475/VA	20	mg/kg		11800	11800	10100	11700	12400
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt		2110	2380	2270	2480	2540
Potassium	7440-09-7	E475/VA	20	mg/kg		24200	23000	19900	23000	23500
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt		4320	4660	4470	4880	4820
Rubidium	7440-17-7	E475/VA	0.050	mg/kg		31.8	27.2	79.5	44.9	48.7
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt		5.68	5.52	17.9	9.53	9.99
Selenium	7782-49-2	E475/VA	0.10	mg/kg		0.99	1.08	1.14	0.94	0.82
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt		0.176	0.219	0.255	0.199	0.168
Sodium	7440-23-5	E475/VA	20	mg/kg		1080	1670	1560	1510	1450
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt		193	338	350	321	297
Strontium	7440-24-6	E475/VA	0.10	mg/kg		0.33	0.35	0.39	0.51	0.42
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt		0.059	0.072	0.088	0.109	0.086
Tellurium	13494-80-9	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	7440-28-0	E475/VA	0.0020	mg/kg		<0.0024 ^{DLA}	0.0022	0.0240	0.0098	0.0185



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWSS55 ----	25ONG309 FT HLWSS56 ----	25ONG309 FT HLWYS57 ----	25ONG309 FT HLNPS58 ----	25ONG309 FT HLNPS60 ----
Client sampling date / time						09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510952-006	TY2510952-007	TY2510952-008	TY2510952-009	TY2510952-010
						Result	Result	Result	Result	Result
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt		<0.00043 ^{DLA}	0.00044	0.00540	0.00209	0.00379
Tin	7440-31-5	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Uranium	7440-61-1	E475/VA	0.0020	mg/kg		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Vanadium	7440-62-2	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Zinc	7440-66-6	E475/VA	1.0	mg/kg		14.0	15.8	15.4	17.0	17.4
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt		2.49	3.21	3.47	3.62	3.58
Zirconium	7440-67-7	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg		132	154	956	1470	1030
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt		<0.50	<0.50	<0.50	<0.50	0.54

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



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWSS61	25ONG309 FT HLWYS62	25ONG309 FT HLWYS63	25ONG309 FT HLNPS64	25ONG309 FT HLWSS65
Client sampling date / time						09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510952-011	TY2510952-012	TY2510952-013	TY2510952-014	TY2510952-015
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.50	%		80.5	76.8	78.5	77.1	80.8
Moisture	----	E144A/VA	2.0	%		80.5	76.8	78.5	77.1	80.8
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt		<1.0	1.1	<1.0	<1.0	<1.0
Antimony	7440-36-0	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Arsenic	7440-38-2	E475/VA	0.050	mg/kg		0.264	0.201	0.191	0.175	0.161
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt		0.052	0.047	0.041	0.040	0.031
Barium	7440-39-3	E475/VA	0.050	mg/kg		0.129	0.068	<0.050	<0.050	0.111
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt		0.025	0.016	<0.010	<0.010	0.021
Beryllium	7440-41-7	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	7440-69-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	7440-42-8	E475/VA	1.0	mg/kg		<1.0	<1.0	<1.1 DLIS	<1.0	<1.2 DLIS
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt		<0.20	<0.23 DLIS	<0.23 DLIS	<0.24 DLIS	<0.24 DLIS
Cadmium	7440-43-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	7440-70-2	E475/VA	20	mg/kg		624	480	460	791	456



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWSS61 ----	25ONG309 FT HLWYS62 ----	25ONG309 FT HLWYS63 ----	25ONG309 FT HLNPS64 ----	25ONG309 FT HLWSS65 ----
Client sampling date / time						09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510952-011	TY2510952-012	TY2510952-013	TY2510952-014	TY2510952-015
						Result	Result	Result	Result	Result
Metals										
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt		122	112	98.9	181	87.7
Cesium	7440-46-2	E475/VA	0.0050	mg/kg		0.263	1.08	1.23	1.00	0.323
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt		0.0512	0.251	0.265	0.230	0.0621
Chromium	7440-47-3	E475/VA	0.20	mg/kg		<0.20	<0.20	0.21	<0.20	<0.20
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	0.046	<0.040	<0.040
Cobalt	7440-48-4	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Copper	7440-50-8	E475/VA	0.20	mg/kg		0.66	0.67	0.52	0.68	0.89
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt		0.129	0.155	0.113	0.156	0.171
Iron	7439-89-6	E475/VA	5.0	mg/kg		15.2	5.8	<5.0	8.6	13.6
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt		3.0	1.4	1.0	2.0	2.6
Lead	7439-92-1	E475/VA	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt		<0.010	<0.010	<0.010	<0.010	<0.010
Lithium	7439-93-2	E475/VA	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt		<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	7439-95-4	E475/VA	2.0	mg/kg		1370	1240	1570	1480	1340
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt		267	289	337	337	258
Manganese	7439-96-5	E475/VA	0.050	mg/kg		0.485	0.243	0.254	0.355	0.369
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt		0.095	0.057	0.055	0.081	0.071
Mercury	7439-97-6	E512/VA	0.010	mg/kg		0.298	1.15	1.13	1.64	0.252



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWSS61	25ONG309 FT HLWYS62	25ONG309 FT HLWYS63	25ONG309 FT HLNPS64	25ONG309 FT HLWSS65
					Client sampling date / time	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510952-011	TY2510952-012	TY2510952-013	TY2510952-014	TY2510952-015
						Result	Result	Result	Result	Result
Metals										
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt		0.0580	0.266	0.243	0.375	0.0484
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg		<0.040	<0.040	<0.040	<0.040	<0.040
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel	7440-02-0	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Phosphorus	7723-14-0	E475/VA	20	mg/kg		11200	10100	11000	10700	11500
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt		2190	2350	2360	2460	2200
Potassium	7440-09-7	E475/VA	20	mg/kg		22000	20200	21500	20700	23400
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt		4300	4700	4630	4740	4490
Rubidium	7440-17-7	E475/VA	0.050	mg/kg		23.9	74.1	81.3	45.1	26.5
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt		4.66	17.2	17.5	10.3	5.10
Selenium	7782-49-2	E475/VA	0.10	mg/kg		1.20	0.86	0.86	0.97	1.20
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt		0.233	0.199	0.185	0.221	0.231
Sodium	7440-23-5	E475/VA	20	mg/kg		2380	1840	1950	1720	1940
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt		463	428	420	392	372
Strontium	7440-24-6	E475/VA	0.10	mg/kg		0.47	0.29	0.23	0.50	0.34
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt		0.092	0.067	0.049	0.115	0.066
Tellurium	13494-80-9	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	7440-28-0	E475/VA	0.0020	mg/kg		0.0048	0.0198	0.0231	0.0192	<0.0025 DLIS



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWSS61 ----	25ONG309 FT HLWYS62 ----	25ONG309 FT HLWYS63 ----	25ONG309 FT HLNPS64 ----	25ONG309 FT HLWSS65 ----
Client sampling date / time						09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510952-011	TY2510952-012	TY2510952-013	TY2510952-014	TY2510952-015
						Result	Result	Result	Result	Result
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt		0.00094	0.00461	0.00497	0.00439	<0.00047 ^{DLIS}
Tin	7440-31-5	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Uranium	7440-61-1	E475/VA	0.0020	mg/kg		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Vanadium	7440-62-2	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Zinc	7440-66-6	E475/VA	1.0	mg/kg		20.2	16.2	16.6	18.3	21.6
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt		3.94	3.75	3.58	4.17	4.16
Zirconium	7440-67-7	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg		222	721	753	638	170
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt		<0.50	<0.50	0.59	0.71	<0.50

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



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWYS66 ----	25ONG309 FT HLWSS67 ----	25ONG309 FT HLWSS68 ----	25ONG309 FT HLWYS69 ----	25ONG309 FT HLNPS70 ----
Client sampling date / time						09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510952-016	TY2510952-017	TY2510952-018	TY2510952-019	TY2510952-020
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.50	%		76.8	81.6	80.0	79.5	79.3
Moisture	----	E144A/VA	2.0	%		76.8	81.6	80.0	79.5	79.3
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt		<1.0	<1.0	<1.0	<1.0	<1.0
Antimony	7440-36-0	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Arsenic	7440-38-2	E475/VA	0.050	mg/kg		0.148	0.219	0.120	0.222	0.130
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt		0.034	0.040	0.024	0.046	0.027
Barium	7440-39-3	E475/VA	0.050	mg/kg		<0.050	0.069	0.118	<0.050	<0.050
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt		<0.010	0.013	0.024	<0.010	0.010
Beryllium	7440-41-7	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	7440-69-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	7440-42-8	E475/VA	1.0	mg/kg		<1.0	<1.2 DLIS	<1.1 DLIS	<1.0	<1.1 DLIS
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt		<0.21 DLIS	<0.22 DLIS	<0.21 DLIS	<0.20	<0.23 DLIS
Cadmium	7440-43-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	7440-70-2	E475/VA	20	mg/kg		460	492	490	498	683



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

Client sample ID					25ONG309 FT HLWYS66 ----	25ONG309 FT HLWSS67 ----	25ONG309 FT HLWSS68 ----	25ONG309 FT HLWYS69 ----	25ONG309 FT HLNPS70 ----
Client sampling date / time					09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510952-016	TY2510952-017	TY2510952-018	TY2510952-019	TY2510952-020
					Result	Result	Result	Result	Result
Metals									
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt	107	90.4	98.0	102	142
Cesium	7440-46-2	E475/VA	0.0050	mg/kg	1.20	0.454	0.517	1.45	0.726
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt	0.279	0.0833	0.103	0.299	0.151
Chromium	7440-47-3	E475/VA	0.20	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt	<0.040	<0.040	<0.040	<0.040	<0.040
Cobalt	7440-48-4	E475/VA	0.020	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Copper	7440-50-8	E475/VA	0.20	mg/kg	0.52	0.71	0.67	0.50	0.73
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt	0.121	0.131	0.134	0.102	0.152
Iron	7439-89-6	E475/VA	5.0	mg/kg	6.1	9.3	9.4	5.3	11.7
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt	1.4	1.7	1.9	1.1	2.4
Lead	7439-92-1	E475/VA	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt	<0.010	<0.010	<0.010	<0.010	<0.010
Lithium	7439-93-2	E475/VA	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	7439-95-4	E475/VA	2.0	mg/kg	1550	1610	1550	1480	1540
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt	359	295	309	304	319
Manganese	7439-96-5	E475/VA	0.050	mg/kg	0.298	0.532	0.567	0.350	0.473
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt	0.069	0.098	0.113	0.072	0.098
Mercury	7439-97-6	E512/VA	0.010	mg/kg	1.52	0.321	0.270	0.977	0.922



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWYS66 ----	25ONG309 FT HLWSS67 ----	25ONG309 FT HLWSS68 ----	25ONG309 FT HLWYS69 ----	25ONG309 FT HLNPS70 ----
Client sampling date / time						09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510952-016	TY2510952-017	TY2510952-018	TY2510952-019	TY2510952-020
						Result	Result	Result	Result	Result
Metals										
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt		0.353	0.0590	0.0540	0.201	0.191
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg		<0.040	<0.040	<0.040	<0.040	<0.040
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel	7440-02-0	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	0.041	<0.040
Phosphorus	7723-14-0	E475/VA	20	mg/kg		10700	11700	12000	11400	12000
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt		2480	2150	2410	2340	2500
Potassium	7440-09-7	E475/VA	20	mg/kg		21400	23200	24500	23400	22500
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt		4970	4260	4910	4810	4660
Rubidium	7440-17-7	E475/VA	0.050	mg/kg		76.3	26.7	31.8	91.5	47.5
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt		17.7	4.91	6.36	18.8	9.85
Selenium	7782-49-2	E475/VA	0.10	mg/kg		0.88	1.03	1.13	0.88	0.91
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt		0.204	0.190	0.226	0.180	0.189
Sodium	7440-23-5	E475/VA	20	mg/kg		1650	1370	1510	1770	1540
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt		382	252	303	363	318
Strontium	7440-24-6	E475/VA	0.10	mg/kg		0.19	0.32	0.27	0.21	0.44
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt		0.045	0.058	0.055	0.044	0.091
Tellurium	13494-80-9	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	7440-28-0	E475/VA	0.0020	mg/kg		0.0248	0.0086	0.0037	0.0219	0.0211



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWYS66 ----	25ONG309 FT HLWSS67 ----	25ONG309 FT HLWSS68 ----	25ONG309 FT HLWYS69 ----	25ONG309 FT HLNPS70 ----
Client sampling date / time						09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00	09-Sep-2025 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510952-016	TY2510952-017	TY2510952-018	TY2510952-019	TY2510952-020
						Result	Result	Result	Result	Result
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt		0.00576	0.00158	0.00075	0.00451	0.00438
Tin	7440-31-5	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Uranium	7440-61-1	E475/VA	0.0020	mg/kg		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Vanadium	7440-62-2	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Zinc	7440-66-6	E475/VA	1.0	mg/kg		16.0	15.3	18.6	18.1	18.6
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt		3.71	2.82	3.72	3.71	3.85
Zirconium	7440-67-7	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg		1080	247	200	1210	677
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt		<0.50	0.50	<0.50	<0.50	<0.50

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



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWYS71	25ONG309 FT HLWSS72	25ONG309 FT HLWSS73	25ONG309 FT HLWYS74	25ONG309 FT HLLWS75
					Client sampling date / time	09-Sep-2025 12:26	09-Sep-2025 12:26	09-Sep-2025 12:26	09-Sep-2025 12:26	09-Sep-2025 12:26
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510952-021	TY2510952-022	TY2510952-023	TY2510952-024	TY2510952-025
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.50	%		77.8	80.9	80.2	78.2	78.3
Moisture	----	E144A/VA	2.0	%		77.8	80.9	80.2	78.2	78.3
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg		<5.0	<5.0	5.1	<5.0	<5.0
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt		<1.0	<1.0	1.0	<1.0	<1.0
Antimony	7440-36-0	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Arsenic	7440-38-2	E475/VA	0.050	mg/kg		0.164	0.153	0.133	0.206	0.263
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt		0.036	0.029	0.026	0.045	0.057
Barium	7440-39-3	E475/VA	0.050	mg/kg		0.191	0.268	0.141	<0.050	0.060
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt		0.042	0.051	0.028	<0.010	0.013
Beryllium	7440-41-7	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	7440-69-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	7440-42-8	E475/VA	1.0	mg/kg		<1.0	<1.1 ^{DLIS}	<1.0	<1.0	<1.0
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt		<0.20	<0.21 ^{DLIS}	<0.21 ^{DLIS}	<0.23 ^{DLIS}	<0.21 ^{DLIS}
Cadmium	7440-43-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	7440-70-2	E475/VA	20	mg/kg		492	520	683	661	917



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWYS71 ----	25ONG309 FT HLWSS72 ----	25ONG309 FT HLWSS73 ----	25ONG309 FT HLWYS74 ----	25ONG309 FT HLLWS75 ----
Client sampling date / time						09-Sep-2025 12:26	09-Sep-2025 12:26	09-Sep-2025 12:26	09-Sep-2025 12:26	09-Sep-2025 12:26
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510952-021	TY2510952-022	TY2510952-023	TY2510952-024	TY2510952-025
						Result	Result	Result	Result	Result
Metals										
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt		109	99.2	135	144	199
Cesium	7440-46-2	E475/VA	0.0050	mg/kg		1.17	0.407	0.394	1.07	0.808
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt		0.261	0.0776	0.0780	0.233	0.176
Chromium	7440-47-3	E475/VA	0.20	mg/kg		<0.20	<0.20	0.35	<0.20	0.31
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	0.070	<0.040	0.067
Cobalt	7440-48-4	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Copper	7440-50-8	E475/VA	0.20	mg/kg		0.46	0.97	0.71	0.64	0.60
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt		0.103	0.185	0.141	0.140	0.130
Iron	7439-89-6	E475/VA	5.0	mg/kg		5.3	12.6	13.8	29.7	13.5
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt		1.2	2.4	2.7	6.5	2.9
Lead	7439-92-1	E475/VA	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt		<0.010	<0.010	<0.010	<0.010	<0.010
Lithium	7439-93-2	E475/VA	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt		<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	7439-95-4	E475/VA	2.0	mg/kg		1420	1280	1500	1170	1320
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt		316	245	297	254	286
Manganese	7439-96-5	E475/VA	0.050	mg/kg		0.268	0.730	0.565	0.364	0.500
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt		0.060	0.139	0.112	0.079	0.109
Mercury	7439-97-6	E512/VA	0.010	mg/kg		1.35	0.400	0.179	1.21	0.465



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWYS71 ----	25ONG309 FT HLWSS72 ----	25ONG309 FT HLWSS73 ----	25ONG309 FT HLWYS74 ----	25ONG309 FT HLLWS75 ----
Client sampling date / time						09-Sep-2025 12:26	09-Sep-2025 12:26	09-Sep-2025 12:26	09-Sep-2025 12:26	09-Sep-2025 12:26
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510952-021	TY2510952-022	TY2510952-023	TY2510952-024	TY2510952-025
						Result	Result	Result	Result	Result
Metals										
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt		0.299	0.0762	0.0354	0.265	0.101
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg		<0.040	<0.040	<0.040	<0.040	<0.040
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel	7440-02-0	E475/VA	0.20	mg/kg		<0.20	<0.20	0.26	<0.20	0.21
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	0.052	<0.040	0.046
Phosphorus	7723-14-0	E475/VA	20	mg/kg		10700	10300	10400	9570	10100
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt		2380	1970	2060	2090	2190
Potassium	7440-09-7	E475/VA	20	mg/kg		21400	20900	20700	19300	18300
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt		4760	3980	4100	4210	3990
Rubidium	7440-17-7	E475/VA	0.050	mg/kg		69.5	25.9	24.4	69.8	40.5
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt		15.4	4.94	4.83	15.2	8.81
Selenium	7782-49-2	E475/VA	0.10	mg/kg		1.15	0.98	1.12	0.89	1.29
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt		0.256	0.187	0.221	0.195	0.280
Sodium	7440-23-5	E475/VA	20	mg/kg		1910	2390	1670	2490	2180
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt		425	456	330	542	475
Strontium	7440-24-6	E475/VA	0.10	mg/kg		0.23	0.42	0.49	0.34	1.86
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt		0.050	0.079	0.097	0.074	0.405
Tellurium	13494-80-9	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	7440-28-0	E475/VA	0.0020	mg/kg		0.0182	0.0024	<0.0021 ^{DUS}	0.0200	0.0061



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWYS71 ----	25ONG309 FT HLWSS72 ----	25ONG309 FT HLWSS73 ----	25ONG309 FT HLWYS74 ----	25ONG309 FT HLLWS75 ----
Client sampling date / time						09-Sep-2025 12:26	09-Sep-2025 12:26	09-Sep-2025 12:26	09-Sep-2025 12:26	09-Sep-2025 12:26
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510952-021	TY2510952-022	TY2510952-023	TY2510952-024	TY2510952-025
						Result	Result	Result	Result	Result
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt		0.00405	0.00046	<0.00042 ^{DLIS}	0.00435	0.00133
Tin	7440-31-5	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Uranium	7440-61-1	E475/VA	0.0020	mg/kg		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Vanadium	7440-62-2	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Zinc	7440-66-6	E475/VA	1.0	mg/kg		15.6	24.0	23.3	21.0	16.8
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt		3.46	4.58	4.62	4.57	3.66
Zirconium	7440-67-7	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg		980	335	162	1010	408
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt		<0.50	<0.50	0.51	<0.50	0.82

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



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

Client sample ID					25ONG309 FT HLWSS76	25ONG309 FT HLWYS77	----	----	----
Client sampling date / time					09-Sep-2025 12:26	09-Sep-2025 12:26	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510952-026	TY2510952-027	----	----	----
					Result	Result	----	----	----
Physical Tests									
Moisture	----	E144/VA	0.50	%	81.3	77.7	----	----	----
Moisture	----	E144A/VA	2.0	%	81.3	77.7	----	----	----
Metals									
Aluminum	7429-90-5	E475/VA	5.0	mg/kg	<5.0	<5.0	----	----	----
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt	<1.0	<1.0	----	----	----
Antimony	7440-36-0	E475/VA	0.020	mg/kg	<0.020	<0.020	----	----	----
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt	<0.0040	<0.0040	----	----	----
Arsenic	7440-38-2	E475/VA	0.050	mg/kg	0.173	0.108	----	----	----
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt	0.032	0.024	----	----	----
Barium	7440-39-3	E475/VA	0.050	mg/kg	0.102	0.967	----	----	----
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt	0.019	0.215	----	----	----
Beryllium	7440-41-7	E475/VA	0.010	mg/kg	<0.010	<0.010	----	----	----
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt	<0.0020	<0.0020	----	----	----
Bismuth	7440-69-9	E475/VA	0.010	mg/kg	<0.010	<0.010	----	----	----
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt	<0.0020	<0.0020	----	----	----
Boron	7440-42-8	E475/VA	1.0	mg/kg	<1.0	<1.0	----	----	----
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt	<0.20	<0.23 ^{DLIS}	----	----	----
Cadmium	7440-43-9	E475/VA	0.010	mg/kg	<0.010	<0.010	----	----	----
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt	<0.0020	<0.0020	----	----	----
Calcium	7440-70-2	E475/VA	20	mg/kg	554	22000	----	----	----



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

Sub-Matrix: Tissue (Matrix: Biota)					Client sample ID	25ONG309 FT HLWSS76 ----	25ONG309 FT HLWYS77 ----	----	----	----
Client sampling date / time					09-Sep-2025 12:26	09-Sep-2025 12:26	----	----	----	
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510952-026	TY2510952-027	----	----	----	
					Result	Result	----	----	----	
Metals										
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt	104	4900	----	----	----	
Cesium	7440-46-2	E475/VA	0.0050	mg/kg	0.329	0.918	----	----	----	
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt	0.0616	0.204	----	----	----	
Chromium	7440-47-3	E475/VA	0.20	mg/kg	<0.20	<0.20	----	----	----	
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt	<0.040	<0.040	----	----	----	
Cobalt	7440-48-4	E475/VA	0.020	mg/kg	<0.020	<0.020	----	----	----	
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt	<0.0040	<0.0040	----	----	----	
Copper	7440-50-8	E475/VA	0.20	mg/kg	0.85	0.38	----	----	----	
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt	0.160	0.085	----	----	----	
Iron	7439-89-6	E475/VA	5.0	mg/kg	19.8	<5.0	----	----	----	
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt	3.7	1.1	----	----	----	
Lead	7439-92-1	E475/VA	0.050	mg/kg	<0.050	<0.050	----	----	----	
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt	<0.010	<0.010	----	----	----	
Lithium	7439-93-2	E475/VA	0.50	mg/kg	<0.50	<0.50	----	----	----	
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt	<0.10	<0.10	----	----	----	
Magnesium	7439-95-4	E475/VA	2.0	mg/kg	1530	1820	----	----	----	
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt	285	406	----	----	----	
Manganese	7439-96-5	E475/VA	0.050	mg/kg	0.617	16.6	----	----	----	
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt	0.115	3.69	----	----	----	
Mercury	7439-97-6	E512/VA	0.010	mg/kg	0.240	1.00	----	----	----	



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWSS76	25ONG309 FT HLWYS77	----	----	----
Client sampling date / time						09-Sep-2025 12:26	09-Sep-2025 12:26	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510952-026	TY2510952-027	----	----	----	----
					Result	Result	----	----	----	----
Metals										
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt	0.0449	0.223	----	----	----	----
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg	<0.040	<0.040	----	----	----	----
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt	<0.0080	<0.0080	----	----	----	----
Nickel	7440-02-0	E475/VA	0.20	mg/kg	<0.20	<0.20	----	----	----	----
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt	<0.040	<0.040	----	----	----	----
Phosphorus	7723-14-0	E475/VA	20	mg/kg	10300	20500	----	----	----	----
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt	1930	4560	----	----	----	----
Potassium	7440-09-7	E475/VA	20	mg/kg	19700	16500	----	----	----	----
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt	3680	3660	----	----	----	----
Rubidium	7440-17-7	E475/VA	0.050	mg/kg	17.0	58.1	----	----	----	----
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt	3.17	12.9	----	----	----	----
Selenium	7782-49-2	E475/VA	0.10	mg/kg	1.02	0.92	----	----	----	----
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt	0.191	0.206	----	----	----	----
Sodium	7440-23-5	E475/VA	20	mg/kg	3070	2770	----	----	----	----
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt	574	616	----	----	----	----
Strontium	7440-24-6	E475/VA	0.10	mg/kg	0.42	32.6	----	----	----	----
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt	0.078	7.26	----	----	----	----
Tellurium	13494-80-9	E475/VA	0.020	mg/kg	<0.020	<0.020	----	----	----	----
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt	<0.0040	<0.0040	----	----	----	----
Thallium	7440-28-0	E475/VA	0.0020	mg/kg	0.0024	0.0163	----	----	----	----



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWSS76	25ONG309 FT HLWYS77	----	----	----
Client sampling date / time						09-Sep-2025 12:26	09-Sep-2025 12:26	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510952-026	TY2510952-027	----	----	----	----
					Result	Result	----	----	----	----
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt	0.00046	0.00363	----	----	----	----
Tin	7440-31-5	E475/VA	0.10	mg/kg	<0.10	<0.10	----	----	----	----
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt	<0.020	<0.020	----	----	----	----
Uranium	7440-61-1	E475/VA	0.0020	mg/kg	<0.0020	0.0040	----	----	----	----
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt	<0.00040	0.00090	----	----	----	----
Vanadium	7440-62-2	E475/VA	0.10	mg/kg	<0.10	<0.10	----	----	----	----
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt	<0.020	<0.020	----	----	----	----
Zinc	7440-66-6	E475/VA	1.0	mg/kg	15.2	25.0	----	----	----	----
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt	2.84	5.57	----	----	----	----
Zirconium	7440-67-7	E475/VA	0.20	mg/kg	<0.20	<0.20	----	----	----	----
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt	<0.040	<0.040	----	----	----	----
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg	203	794	----	----	----	----
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt	<0.50	0.66	----	----	----	----

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

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: TY2510952	Page	: 1 of 30
Client	: G3 Consulting Ltd.	Laboratory	: ALS Environmental - Thunder Bay
Contact	: Greg Thomas	Account Manager	: Christine Paradis
Address	: 206-8501 162nd St. Surrey BC Canada V4N 1B2	Address	: 1081 Barton Street Thunder Bay, Ontario Canada P7B 5N3
Telephone	: 604 598 8501	Telephone	: +1 807 623 6463
Project	: 2502	Date Samples Received	: 19-Sep-2025 16:54
PO	: 2502	Issue Date	: 09-Jan-2026 12:52
C-O-C number	: ----		
Sampler	: ----		
Site	: ----		
Quote number	: Dubreuilville Project		
No. of samples received	: 27		
No. of samples analysed	: 27		

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 Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- Quality Control Sample Frequency Outliers occur - please see following pages for full details.



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: **Biota** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Aggregate Organics : Lipids by Gravimetry										
LDPE bag 25ONG309 FT HLNPS53	E564B	09-Sep-2025	22-Nov-2025	365 days	74 days	✓	25-Nov-2025	365 days	74 days	✓
Aggregate Organics : Lipids by Gravimetry										
LDPE bag 25ONG309 FT HLNPS58	E564B	09-Sep-2025	22-Nov-2025	365 days	74 days	✓	25-Nov-2025	365 days	74 days	✓
Aggregate Organics : Lipids by Gravimetry										
LDPE bag 25ONG309 FT HLNPS60	E564B	09-Sep-2025	22-Nov-2025	365 days	74 days	✓	25-Nov-2025	365 days	74 days	✓
Aggregate Organics : Lipids by Gravimetry										
LDPE bag 25ONG309 FT HLNPS64	E564B	09-Sep-2025	22-Nov-2025	365 days	74 days	✓	25-Nov-2025	365 days	74 days	✓
Aggregate Organics : Lipids by Gravimetry										
LDPE bag 25ONG309 FT HLWSS51	E564B	09-Sep-2025	22-Nov-2025	365 days	74 days	✓	25-Nov-2025	365 days	74 days	✓
Aggregate Organics : Lipids by Gravimetry										
LDPE bag 25ONG309 FT HLWSS54	E564B	09-Sep-2025	22-Nov-2025	365 days	74 days	✓	25-Nov-2025	365 days	74 days	✓
Aggregate Organics : Lipids by Gravimetry										
LDPE bag 25ONG309 FT HLWSS55	E564B	09-Sep-2025	22-Nov-2025	365 days	74 days	✓	25-Nov-2025	365 days	74 days	✓



Matrix: Biota Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis				
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT HLWSS56	E564B	09-Sep-2025	22-Nov-2025	365 days	74 days	✓	25-Nov-2025	365 days	74 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT HLWSS61	E564B	09-Sep-2025	22-Nov-2025	365 days	74 days	✓	25-Nov-2025	365 days	74 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT HLWYS50	E564B	09-Sep-2025	22-Nov-2025	365 days	74 days	✓	25-Nov-2025	365 days	74 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT HLWYS52	E564B	09-Sep-2025	22-Nov-2025	365 days	74 days	✓	25-Nov-2025	365 days	74 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT HLWYS57	E564B	09-Sep-2025	22-Nov-2025	365 days	74 days	✓	25-Nov-2025	365 days	74 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT HLWYS62	E564B	09-Sep-2025	22-Nov-2025	365 days	74 days	✓	25-Nov-2025	365 days	74 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT HLWYS63	E564B	09-Sep-2025	22-Nov-2025	365 days	74 days	✓	25-Nov-2025	365 days	74 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT HLLWS75	E564B	09-Sep-2025	23-Nov-2025	365 days	75 days	✓	26-Nov-2025	365 days	75 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT HLNPS70	E564B	09-Sep-2025	23-Nov-2025	365 days	75 days	✓	26-Nov-2025	365 days	75 days	✓	



Matrix: Biota 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		
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT HLWSS65	E564B	09-Sep-2025	23-Nov-2025	365 days	75 days	✓	26-Nov-2025	365 days	75 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT HLWSS67	E564B	09-Sep-2025	23-Nov-2025	365 days	75 days	✓	26-Nov-2025	365 days	75 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT HLWSS68	E564B	09-Sep-2025	23-Nov-2025	365 days	75 days	✓	26-Nov-2025	365 days	75 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT HLWSS72	E564B	09-Sep-2025	23-Nov-2025	365 days	75 days	✓	26-Nov-2025	365 days	75 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT HLWSS73	E564B	09-Sep-2025	23-Nov-2025	365 days	75 days	✓	26-Nov-2025	365 days	75 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT HLWSS76	E564B	09-Sep-2025	23-Nov-2025	365 days	75 days	✓	26-Nov-2025	365 days	75 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT HLWYS66	E564B	09-Sep-2025	23-Nov-2025	365 days	75 days	✓	26-Nov-2025	365 days	75 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT HLWYS69	E564B	09-Sep-2025	23-Nov-2025	365 days	75 days	✓	26-Nov-2025	365 days	75 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT HLWYS71	E564B	09-Sep-2025	23-Nov-2025	365 days	75 days	✓	26-Nov-2025	365 days	75 days	✓	



Matrix: **Biota** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis				
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT HLWYS74	E564B	09-Sep-2025	23-Nov-2025	365 days	75 days	✓	26-Nov-2025	365 days	75 days	✓	
Aggregate Organics : Lipids by Gravimetry											
LDPE bag 25ONG309 FT HLWYS77	E564B	09-Sep-2025	27-Nov-2025	365 days	79 days	✓	27-Nov-2025	365 days	79 days	✓	
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLNPS53	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	03-Dec-2025	365 days	83 days	✓	
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLNPS58	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	03-Dec-2025	365 days	83 days	✓	
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLNPS60	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	03-Dec-2025	365 days	83 days	✓	
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWSS51	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	03-Dec-2025	365 days	83 days	✓	
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWSS54	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	03-Dec-2025	365 days	83 days	✓	
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWSS55	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	03-Dec-2025	365 days	83 days	✓	
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWSS56	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	03-Dec-2025	365 days	83 days	✓	



Matrix: Biota 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	
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT HLWYS50	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	03-Dec-2025	365 days	83 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT HLWYS52	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	03-Dec-2025	365 days	83 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT HLWYS57	E512	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	03-Dec-2025	365 days	83 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT HLLWS75	E512	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT HLNPS64	E512	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT HLNPS70	E512	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT HLWSS61	E512	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT HLWSS65	E512	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT HLWSS67	E512	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓



Matrix: Biota 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	
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT HLWSS68	E512	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT HLWSS72	E512	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT HLWSS73	E512	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT HLWSS76	E512	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT HLWYS62	E512	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT HLWYS63	E512	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT HLWYS66	E512	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT HLWYS69	E512	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT HLWYS71	E512	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓



Matrix: Biota 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		
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWYS74	E512	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓	
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWYS77	E512	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓	
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)											
LDPE bag 25ONG309 FT HLNPS53	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	03-Dec-2025	365 days	83 days	✓	
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)											
LDPE bag 25ONG309 FT HLNPS58	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	03-Dec-2025	365 days	83 days	✓	
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)											
LDPE bag 25ONG309 FT HLNPS60	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	03-Dec-2025	365 days	83 days	✓	
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)											
LDPE bag 25ONG309 FT HLWSS51	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	03-Dec-2025	365 days	83 days	✓	
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)											
LDPE bag 25ONG309 FT HLWSS54	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	03-Dec-2025	365 days	83 days	✓	
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)											
LDPE bag 25ONG309 FT HLWSS55	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	03-Dec-2025	365 days	83 days	✓	
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)											
LDPE bag 25ONG309 FT HLWSS56	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	03-Dec-2025	365 days	83 days	✓	



Matrix: Biota Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWYS50	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	03-Dec-2025	365 days	83 days	✓
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWYS52	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	03-Dec-2025	365 days	83 days	✓
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWYS57	E512A	09-Sep-2025	01-Dec-2025	365 days	83 days	✓	03-Dec-2025	365 days	83 days	✓
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLLWS75	E512A	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLNPS64	E512A	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLNPS70	E512A	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWSS61	E512A	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWSS65	E512A	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWSS67	E512A	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓



Matrix: Biota 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	
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWSS68	E512A	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWSS72	E512A	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWSS73	E512A	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWSS76	E512A	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWYS62	E512A	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWYS63	E512A	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWYS66	E512A	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWYS69	E512A	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWYS71	E512A	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓



Matrix: Biota Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWYS74	E512A	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWYS77	E512A	09-Sep-2025	04-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	86 days	✓
Metals : Metals by CRC ICPMS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT HLNPS53	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	83 days	✓
Metals : Metals by CRC ICPMS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT HLNPS58	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	83 days	✓
Metals : Metals by CRC ICPMS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT HLNPS60	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	83 days	✓
Metals : Metals by CRC ICPMS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT HLWSS51	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	83 days	✓
Metals : Metals by CRC ICPMS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT HLWSS54	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	83 days	✓
Metals : Metals by CRC ICPMS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT HLWSS55	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	83 days	✓
Metals : Metals by CRC ICPMS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT HLWSS56	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	83 days	✓



Matrix: Biota Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis				
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWYS50	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	83 days	✓	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWYS52	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	83 days	✓	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWYS57	E475	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	83 days	✓	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLLWS75	E475	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	04-Dec-2025	730 days	86 days	✓	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLNPS64	E475	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	04-Dec-2025	730 days	86 days	✓	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLNPS70	E475	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	04-Dec-2025	730 days	86 days	✓	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWSS61	E475	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	04-Dec-2025	730 days	86 days	✓	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWSS65	E475	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	04-Dec-2025	730 days	86 days	✓	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWSS67	E475	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	04-Dec-2025	730 days	86 days	✓	



Matrix: Biota Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis				
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWSS68	E475	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	04-Dec-2025	730 days	86 days	✓	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWSS72	E475	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	04-Dec-2025	730 days	86 days	✓	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWSS73	E475	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	04-Dec-2025	730 days	86 days	✓	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWSS76	E475	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	04-Dec-2025	730 days	86 days	✓	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWYS62	E475	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	04-Dec-2025	730 days	86 days	✓	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWYS63	E475	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	04-Dec-2025	730 days	86 days	✓	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWYS66	E475	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	04-Dec-2025	730 days	86 days	✓	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWYS69	E475	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	04-Dec-2025	730 days	86 days	✓	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)											
LDPE bag 25ONG309 FT HLWYS71	E475	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	04-Dec-2025	730 days	86 days	✓	



Matrix: Biota Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Metals : Metals by CRC ICPMS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT HLWYS74	E475	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	04-Dec-2025	730 days	86 days	✓
Metals : Metals by CRC ICPMS (DRY units, Biopsy)										
LDPE bag 25ONG309 FT HLWYS77	E475	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	04-Dec-2025	730 days	86 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLNPS53	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	83 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLNPS58	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	83 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLNPS60	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	83 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWSS51	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	83 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWSS54	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	83 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWSS55	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	83 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWSS56	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	83 days	✓



Matrix: Biota Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWYS50	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	83 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWYS52	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	83 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWYS57	E475A	09-Sep-2025	01-Dec-2025	730 days	83 days	✓	02-Dec-2025	730 days	83 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLLWS75	E475A	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	05-Dec-2025	730 days	86 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLNPS64	E475A	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	05-Dec-2025	730 days	86 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLNPS70	E475A	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	05-Dec-2025	730 days	86 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWSS61	E475A	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	05-Dec-2025	730 days	86 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWSS65	E475A	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	05-Dec-2025	730 days	86 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWSS67	E475A	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	05-Dec-2025	730 days	86 days	✓



Matrix: Biota Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWSS68	E475A	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	05-Dec-2025	730 days	86 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWSS72	E475A	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	05-Dec-2025	730 days	86 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWSS73	E475A	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	05-Dec-2025	730 days	86 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWSS76	E475A	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	05-Dec-2025	730 days	86 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWYS62	E475A	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	05-Dec-2025	730 days	86 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWYS63	E475A	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	05-Dec-2025	730 days	86 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWYS66	E475A	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	05-Dec-2025	730 days	86 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWYS69	E475A	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	05-Dec-2025	730 days	86 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWYS71	E475A	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	05-Dec-2025	730 days	86 days	✓



Matrix: Biota 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	
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWYS74	E475A	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	05-Dec-2025	730 days	86 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)										
LDPE bag 25ONG309 FT HLWYS77	E475A	09-Sep-2025	04-Dec-2025	730 days	86 days	✓	05-Dec-2025	730 days	86 days	✓
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLLWS75	E144A	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLNPS53	E144A	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLNPS58	E144A	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLNPS60	E144A	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLNPS64	E144A	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLNPS70	E144A	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLWSS51	E144A	09-Sep-2025	----	----	----		01-Dec-2025	----	----	



Matrix: **Biota** 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 : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLWSS54	E144A	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLWSS55	E144A	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLWSS56	E144A	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLWSS61	E144A	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLWSS65	E144A	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLWSS67	E144A	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLWSS68	E144A	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLWSS72	E144A	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLWSS73	E144A	09-Sep-2025	----	----	----		04-Dec-2025	----	----	



Matrix: **Biota** 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 : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLWSS76	E144A	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLWYS50	E144A	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLWYS52	E144A	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLWYS57	E144A	09-Sep-2025	----	----	----		01-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLWYS62	E144A	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLWYS63	E144A	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLWYS66	E144A	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLWYS69	E144A	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLWYS71	E144A	09-Sep-2025	----	----	----		04-Dec-2025	----	----	



Matrix: **Biota** 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 : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLWYS74	E144A	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry (Biopsy)										
LDPE bag 25ONG309 FT HLWYS77	E144A	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLLWS75	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLNPS53	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLNPS58	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLNPS60	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLNPS64	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLNPS70	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLWSS51	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	



Matrix: **Biota** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLWSS54	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLWSS55	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLWSS56	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLWSS61	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLWSS65	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLWSS67	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLWSS68	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLWSS72	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLWSS73	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	



Matrix: **Biota** 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 : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLWSS76	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLWYS50	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLWYS52	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLWYS57	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLWYS62	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLWYS63	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLWYS66	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLWYS69	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLWYS71	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	



Matrix: **Biota** 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 : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLWYS74	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 25ONG309 FT HLWYS77	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLNPS53	E538	09-Sep-2025	23-Dec-2025	365 days	105 days	✓	23-Dec-2025	365 days	0 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLNPS58	E538	09-Sep-2025	23-Dec-2025	365 days	105 days	✓	23-Dec-2025	365 days	0 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLNPS60	E538	09-Sep-2025	23-Dec-2025	365 days	105 days	✓	23-Dec-2025	365 days	0 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLNPS64	E538	09-Sep-2025	23-Dec-2025	365 days	105 days	✓	23-Dec-2025	365 days	0 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLWSS51	E538	09-Sep-2025	23-Dec-2025	365 days	105 days	✓	23-Dec-2025	365 days	0 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLWSS54	E538	09-Sep-2025	23-Dec-2025	365 days	105 days	✓	23-Dec-2025	365 days	0 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLWSS55	E538	09-Sep-2025	23-Dec-2025	365 days	105 days	✓	23-Dec-2025	365 days	0 days	✓

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Matrix: **Biota** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLWSS56	E538	09-Sep-2025	23-Dec-2025	365 days	105 days	✓	23-Dec-2025	365 days	0 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLWSS61	E538	09-Sep-2025	23-Dec-2025	365 days	105 days	✓	23-Dec-2025	365 days	0 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLWSS65	E538	09-Sep-2025	23-Dec-2025	365 days	105 days	✓	23-Dec-2025	365 days	0 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLWSS67	E538	09-Sep-2025	23-Dec-2025	365 days	105 days	✓	23-Dec-2025	365 days	0 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLWYS50	E538	09-Sep-2025	23-Dec-2025	365 days	105 days	✓	23-Dec-2025	365 days	0 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLWYS52	E538	09-Sep-2025	23-Dec-2025	365 days	105 days	✓	23-Dec-2025	365 days	0 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLWYS57	E538	09-Sep-2025	23-Dec-2025	365 days	105 days	✓	23-Dec-2025	365 days	0 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLWYS62	E538	09-Sep-2025	23-Dec-2025	365 days	105 days	✓	23-Dec-2025	365 days	0 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLWYS63	E538	09-Sep-2025	23-Dec-2025	365 days	105 days	✓	23-Dec-2025	365 days	0 days	✓



Matrix: **Biota** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLWYS66	E538	09-Sep-2025	23-Dec-2025	365 days	105 days	✓	23-Dec-2025	365 days	0 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLLWS75	E538	09-Sep-2025	07-Jan-2026	365 days	121 days	✓	08-Jan-2026	365 days	0 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLNPS70	E538	09-Sep-2025	07-Jan-2026	365 days	121 days	✓	08-Jan-2026	365 days	0 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLWSS68	E538	09-Sep-2025	07-Jan-2026	365 days	121 days	✓	08-Jan-2026	365 days	0 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLWSS72	E538	09-Sep-2025	07-Jan-2026	365 days	121 days	✓	08-Jan-2026	365 days	0 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLWSS73	E538	09-Sep-2025	07-Jan-2026	365 days	121 days	✓	08-Jan-2026	365 days	0 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLWSS76	E538	09-Sep-2025	07-Jan-2026	365 days	121 days	✓	08-Jan-2026	365 days	0 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLWYS69	E538	09-Sep-2025	07-Jan-2026	365 days	121 days	✓	08-Jan-2026	365 days	0 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLWYS71	E538	09-Sep-2025	07-Jan-2026	365 days	121 days	✓	08-Jan-2026	365 days	0 days	✓

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Matrix: **Biota** 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	
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLWYS74	E538	09-Sep-2025	07-Jan-2026	365 days	121 days	✓	08-Jan-2026	365 days	0 days	✓
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)										
LDPE bag 25ONG309 FT HLWYS77	E538	09-Sep-2025	07-Jan-2026	365 days	121 days	✓	08-Jan-2026	365 days	0 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: **Biota**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type	Method	QC Lot #	Count		Frequency (%)		
			QC	Regular	Actual	Expected	Evaluation
Analytical Methods							
Laboratory Duplicates (DUP)							
Moisture Content by Gravimetry	E144	2369478	0	37	0.0	5.0	✖
Methylmercury in Biota by GCAFS (DRY units, Routine)	E538	2396508	2	36	5.5	5.0	✔
Lipids by Gravimetry	E564B	2351270	3	41	7.3	5.0	✔
Laboratory Control Samples (LCS)							
Moisture Content by Gravimetry	E144	2369478	2	37	5.4	5.0	✔
Moisture Content by Gravimetry (Biopsy)	E144A	2364084	2	37	5.4	5.0	✔
Metals by CRC ICPMS (DRY units, Biopsy)	E475	2363816	4	37	10.8	10.0	✔
Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)	E475A	2363815	4	37	10.8	10.0	✔
Mercury in Biota by CVAAS (DRY units, Biopsy)	E512	2363817	4	37	10.8	10.0	✔
Mercury in Biota by CVAAS (Wet Weight, Biopsy)	E512A	2363814	4	37	10.8	10.0	✔
Methylmercury in Biota by GCAFS (DRY units, Routine)	E538	2396508	4	36	11.1	10.0	✔
Lipids by Gravimetry	E564B	2351270	3	41	7.3	5.0	✔
Method Blanks (MB)							
Moisture Content by Gravimetry	E144	2369478	2	37	5.4	5.0	✔
Moisture Content by Gravimetry (Biopsy)	E144A	2364084	2	37	5.4	5.0	✔
Metals by CRC ICPMS (DRY units, Biopsy)	E475	2363816	2	37	5.4	5.0	✔
Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)	E475A	2363815	2	37	5.4	5.0	✔
Mercury in Biota by CVAAS (DRY units, Biopsy)	E512	2363817	2	37	5.4	5.0	✔
Mercury in Biota by CVAAS (Wet Weight, Biopsy)	E512A	2363814	2	37	5.4	5.0	✔
Methylmercury in Biota by GCAFS (DRY units, Routine)	E538	2396508	2	36	5.5	5.0	✔
Lipids by Gravimetry	E564B	2351270	3	41	7.3	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
Moisture Content by Gravimetry	E144 ALS Environmental - Vancouver	Biota	ASTM Method D4638-16 (mod)	Moisture is measured gravimetrically by drying the sample at 105°C. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
Moisture Content by Gravimetry (Biopsy)	E144A ALS Environmental - Vancouver	Biota	ASTM Method D4638-16 (mod)	Moisture is measured gravimetrically by drying the sample at <60°C for a minimum of 3 days to constant weight. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
Metals by CRC ICPMS (DRY units, Biopsy)	E475 ALS Environmental - Vancouver	Biota	EPA 200.3/6020B (mod)	Samples are digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Analysis is by Collision/Reaction Cell ICPMS: This method employs a strong acid/peroxide digestion, and is intended to provide a conservative estimate of bio-available metals. Near complete recoveries are achieved for most toxicologically important metals, but elements associated with recalcitrant minerals may be only partially recovered.
Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)	E475A ALS Environmental - Vancouver	Biota	EPA 200.3/6020B (mod)	Samples are digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Analysis is by Collision/Reaction Cell ICPMS. Method Limitation: This method employs a strong acid/peroxide digestion, and is intended to provide a conservative estimate of bio-available metals. Near complete recoveries are achieved for most toxicologically important metals, but elements associated with recalcitrant minerals may be only partially recovered.
Mercury in Biota by CVAAS (DRY units, Biopsy)	E512 ALS Environmental - Vancouver	Biota	EPA 200.3/1631 Appendix (mod)	Samples are digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Analysis is by CVAAS.
Mercury in Biota by CVAAS (Wet Weight, Biopsy)	E512A ALS Environmental - Vancouver	Biota	EPA 200.3/1631 Appendix (mod)	Samples are homogenized digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Analysis is by CVAAS.
Methylmercury in Biota by GCAFS (DRY units, Routine)	E538 ALS Environmental - Vancouver	Biota	Liang et al. (1994)/EPA 1630 (mod)	This method follows the procedures published by Liang, Bloom and Horvat in Clinical Chemistry (Vol 40, No 4, 1994). Samples are homogenized and then digested in a methanolic potassium hydroxide solution. An aliquot of the digestate is analyzed by aqueous phase ethylation, purge and trap, desorption and GC separation. The separated species are then pyrolyzed to elemental Hg and quantified by cold vapour atomic fluorescence spectroscopy. Results are reported "as MeHg".
Lipids by Gravimetry	E564B ALS Environmental - Vancouver	Biota	EPA 8290A (mod)	Lipids are extracted from the sample, after which the extract is evaporated in a pre-weighed container and the mass of the residue is determined gravimetrically.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions



<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Metals and Mercury Biota Digestion (Biopsy)	EP475 ALS Environmental - Vancouver	Biota	EPA 200.3/200.8 (mod)	Samples are digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Method Limitation: This method employs a strong acid/peroxide digestion, and is intended to provide a conservative estimate of bio-available metals. Near complete recoveries are achieved for most toxicologically important metals, but elements associated with recalcitrant minerals may be only partially recovered.
Methylmercury Biota Preparation	EP538 ALS Environmental - Vancouver	Biota	Liang et al. (1994)	This method follows the procedures published by Liang, Bloom and Horvat in Clinical Chemistry (Vol 40, No 4, 1994). Samples are homogenized and then digested in a methanolic potassium hydroxide solution.
Lipids Extraction by Tumbler	EP564 ALS Environmental - Vancouver	Biota	EPA 3570 (mod)	A homogenized biota sample is extracted with dichloromethane by a rotary extractor to yield sample's lipid content.

QUALITY CONTROL REPORT

Work Order	: TY2510952	Page	: 1 of 15
Client	: G3 Consulting Ltd.	Laboratory	: ALS Environmental - Thunder Bay
Contact	: Greg Thomas	Account Manager	: Christine Paradis
Address	: 206-8501 162nd St. Surrey BC Canada V4N 1B2	Address	: 1081 Barton Street Thunder Bay, Ontario Canada P7B 5N3
Telephone	: 604 598 8501	Telephone	: +1 807 623 6463
Project	: 2502	Date Samples Received	: 19-Sep-2025 16:54
PO	: 2502	Date Analysis Commenced	: 22-Nov-2025
C-O-C number	: ----	Issue Date	: 09-Jan-2026 12:52
Sampler	: ----		
Site	: ----		
Quote number	: Dubreuilville Project		
No. of samples received	: 27		
No. of samples analysed	: 27		

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
- Reference Material (RM) 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.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Bitu Emamgholi	Lab Assistant	Vancouver Metals, Burnaby, British Columbia
Brieanna Allen	Production/Validation Manager	Vancouver Organics, Burnaby, British Columbia
Cesar Mora	Lab Assistant	Vancouver Metals, Burnaby, British Columbia
Dan Gebert	Supervisor - Metals Mercury & Speciation	Vancouver Metals, Burnaby, British Columbia
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Vancouver Metals, Burnaby, British Columbia
Robin Weeks	Supervisor - Organics Extractions	Vancouver Organics, Burnaby, British Columbia
Salimah Khimani	Lab Assistant	Vancouver Metals, Burnaby, British Columbia
Shahrazad Firoozbakht	Lab Assistant	Vancouver Metals, Burnaby, British Columbia



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: Biota					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
Speciated Metals (QC Lot: 2396508)											
TY2510952-001	25ONG309 FT HLWYS50	Methylmercury (as MeHg)	22967-92-6	E538	5.0	µg/kg	961	922	4.18%	30%	----
Speciated Metals (QC Lot: 2407823)											
TY2510937-001	Anonymous	Methylmercury (as MeHg)	22967-92-6	E538	5.0	µg/kg	1730	1730	0.423%	30%	----
Aggregate Organics (QC Lot: 2351270)											
TY2510952-001	25ONG309 FT HLWYS50	Lipid content	----	E564B	0.50	% wwt	0.62	0.67	0.06	Diff <2x LOR	----
Aggregate Organics (QC Lot: 2351720)											
TY2510952-022	25ONG309 FT HLWSS72	Lipid content	----	E564B	0.50	% wwt	<0.50	<0.50	0	Diff <2x LOR	----
Aggregate Organics (QC Lot: 2356150)											
TY2510952-027	25ONG309 FT HLWYS77	Lipid content	----	E564B	0.50	% wwt	0.66	0.57	0.09	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: Biota

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 2364084)						
Moisture	----	E144A	2	%	<2.0	----
Physical Tests (QCLot: 2369026)						
Moisture	----	E144A	2	%	<2.0	----
Physical Tests (QCLot: 2369478)						
Moisture	----	E144	0.5	%	<0.50	----
Physical Tests (QCLot: 2369485)						
Moisture	----	E144	0.5	%	<0.50	----
Metals (QCLot: 2363814)						
Mercury	7439-97-6	E512A	0.002	mg/kg wwt	<0.0020	----
Metals (QCLot: 2363815)						
Aluminum	7429-90-5	E475A	1	mg/kg wwt	<1.0	----
Antimony	7440-36-0	E475A	0.004	mg/kg wwt	<0.0040	----
Arsenic	7440-38-2	E475A	0.01	mg/kg wwt	<0.010	----
Barium	7440-39-3	E475A	0.01	mg/kg wwt	<0.010	----
Beryllium	7440-41-7	E475A	0.002	mg/kg wwt	<0.0020	----
Bismuth	7440-69-9	E475A	0.002	mg/kg wwt	<0.0020	----
Boron	7440-42-8	E475A	0.2	mg/kg wwt	<0.20	----
Cadmium	7440-43-9	E475A	0.002	mg/kg wwt	<0.0020	----
Calcium	7440-70-2	E475A	4	mg/kg wwt	<4.0	----
Cesium	7440-46-2	E475A	0.001	mg/kg wwt	<0.0010	----
Chromium	7440-47-3	E475A	0.04	mg/kg wwt	<0.040	----
Cobalt	7440-48-4	E475A	0.004	mg/kg wwt	<0.0040	----
Copper	7440-50-8	E475A	0.04	mg/kg wwt	<0.040	----
Iron	7439-89-6	E475A	1	mg/kg wwt	<1.0	----
Lead	7439-92-1	E475A	0.01	mg/kg wwt	<0.010	----
Lithium	7439-93-2	E475A	0.1	mg/kg wwt	<0.10	----
Magnesium	7439-95-4	E475A	0.4	mg/kg wwt	<0.40	----
Manganese	7439-96-5	E475A	0.01	mg/kg wwt	<0.010	----
Molybdenum	7439-98-7	E475A	0.008	mg/kg wwt	<0.0080	----
Nickel	7440-02-0	E475A	0.04	mg/kg wwt	<0.040	----
Phosphorus	7723-14-0	E475A	4	mg/kg wwt	<4.0	----



Sub-Matrix: Biota

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 2363815) - continued						
Potassium	7440-09-7	E475A	4	mg/kg ww	<4.0	----
Rubidium	7440-17-7	E475A	0.01	mg/kg ww	<0.010	----
Selenium	7782-49-2	E475A	0.02	mg/kg ww	<0.020	----
Sodium	7440-23-5	E475A	4	mg/kg ww	<4.0	----
Strontium	7440-24-6	E475A	0.02	mg/kg ww	<0.020	----
Tellurium	13494-80-9	E475A	0.004	mg/kg ww	<0.0040	----
Thallium	7440-28-0	E475A	0.0004	mg/kg ww	<0.00040	----
Tin	7440-31-5	E475A	0.02	mg/kg ww	<0.020	----
Uranium	7440-61-1	E475A	0.0004	mg/kg ww	<0.00040	----
Vanadium	7440-62-2	E475A	0.02	mg/kg ww	<0.020	----
Zinc	7440-66-6	E475A	0.2	mg/kg ww	<0.20	----
Zirconium	7440-67-7	E475A	0.04	mg/kg ww	<0.040	----
Metals (QCLot: 2363816)						
Aluminum	7429-90-5	E475	5	mg/kg	<5.0	----
Antimony	7440-36-0	E475	0.02	mg/kg	<0.020	----
Arsenic	7440-38-2	E475	0.05	mg/kg	<0.050	----
Barium	7440-39-3	E475	0.05	mg/kg	<0.050	----
Beryllium	7440-41-7	E475	0.01	mg/kg	<0.010	----
Bismuth	7440-69-9	E475	0.01	mg/kg	<0.010	----
Boron	7440-42-8	E475	1	mg/kg	<1.0	----
Cadmium	7440-43-9	E475	0.01	mg/kg	<0.010	----
Calcium	7440-70-2	E475	20	mg/kg	<20	----
Cesium	7440-46-2	E475	0.005	mg/kg	<0.0050	----
Chromium	7440-47-3	E475	0.2	mg/kg	<0.20	----
Cobalt	7440-48-4	E475	0.02	mg/kg	<0.020	----
Copper	7440-50-8	E475	0.2	mg/kg	<0.20	----
Iron	7439-89-6	E475	5	mg/kg	<5.0	----
Lead	7439-92-1	E475	0.05	mg/kg	<0.050	----
Lithium	7439-93-2	E475	0.5	mg/kg	<0.50	----
Magnesium	7439-95-4	E475	2	mg/kg	<2.0	----
Manganese	7439-96-5	E475	0.05	mg/kg	<0.050	----
Molybdenum	7439-98-7	E475	0.04	mg/kg	<0.040	----
Nickel	7440-02-0	E475	0.2	mg/kg	<0.20	----
Phosphorus	7723-14-0	E475	20	mg/kg	<20	----
Potassium	7440-09-7	E475	20	mg/kg	<20	----



Sub-Matrix: Biota

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 2363816) - continued						
Rubidium	7440-17-7	E475	0.05	mg/kg	<0.050	----
Selenium	7782-49-2	E475	0.1	mg/kg	<0.10	----
Sodium	7440-23-5	E475	20	mg/kg	<20	----
Strontium	7440-24-6	E475	0.1	mg/kg	<0.10	----
Tellurium	13494-80-9	E475	0.02	mg/kg	<0.020	----
Thallium	7440-28-0	E475	0.002	mg/kg	<0.0020	----
Tin	7440-31-5	E475	0.1	mg/kg	<0.10	----
Uranium	7440-61-1	E475	0.002	mg/kg	<0.0020	----
Vanadium	7440-62-2	E475	0.1	mg/kg	<0.10	----
Zinc	7440-66-6	E475	1	mg/kg	<1.0	----
Zirconium	7440-67-7	E475	0.2	mg/kg	<0.20	----
Metals (QCLot: 2363817)						
Mercury	7439-97-6	E512	0.01	mg/kg	<0.010	----
Metals (QCLot: 2369460)						
Mercury	7439-97-6	E512A	0.002	mg/kg wwt	<0.0020	----
Metals (QCLot: 2369461)						
Aluminum	7429-90-5	E475A	1	mg/kg wwt	<1.0	----
Antimony	7440-36-0	E475A	0.004	mg/kg wwt	<0.0040	----
Arsenic	7440-38-2	E475A	0.01	mg/kg wwt	<0.010	----
Barium	7440-39-3	E475A	0.01	mg/kg wwt	<0.010	----
Beryllium	7440-41-7	E475A	0.002	mg/kg wwt	<0.0020	----
Bismuth	7440-69-9	E475A	0.002	mg/kg wwt	<0.0020	----
Boron	7440-42-8	E475A	0.2	mg/kg wwt	<0.20	----
Cadmium	7440-43-9	E475A	0.002	mg/kg wwt	<0.0020	----
Calcium	7440-70-2	E475A	4	mg/kg wwt	<4.0	----
Cesium	7440-46-2	E475A	0.001	mg/kg wwt	<0.0010	----
Chromium	7440-47-3	E475A	0.04	mg/kg wwt	<0.040	----
Cobalt	7440-48-4	E475A	0.004	mg/kg wwt	<0.0040	----
Copper	7440-50-8	E475A	0.04	mg/kg wwt	<0.040	----
Iron	7439-89-6	E475A	1	mg/kg wwt	<1.0	----
Lead	7439-92-1	E475A	0.01	mg/kg wwt	<0.010	----
Lithium	7439-93-2	E475A	0.1	mg/kg wwt	<0.10	----
Magnesium	7439-95-4	E475A	0.4	mg/kg wwt	<0.40	----
Manganese	7439-96-5	E475A	0.01	mg/kg wwt	<0.010	----
Molybdenum	7439-98-7	E475A	0.008	mg/kg wwt	<0.0080	----



Sub-Matrix: Biota

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 2369461) - continued						
Nickel	7440-02-0	E475A	0.04	mg/kg ww	<0.040	----
Phosphorus	7723-14-0	E475A	4	mg/kg ww	<4.0	----
Potassium	7440-09-7	E475A	4	mg/kg ww	<4.0	----
Rubidium	7440-17-7	E475A	0.01	mg/kg ww	<0.010	----
Selenium	7782-49-2	E475A	0.02	mg/kg ww	<0.020	----
Sodium	7440-23-5	E475A	4	mg/kg ww	<4.0	----
Strontium	7440-24-6	E475A	0.02	mg/kg ww	<0.020	----
Tellurium	13494-80-9	E475A	0.004	mg/kg ww	<0.0040	----
Thallium	7440-28-0	E475A	0.0004	mg/kg ww	<0.00040	----
Tin	7440-31-5	E475A	0.02	mg/kg ww	<0.020	----
Uranium	7440-61-1	E475A	0.0004	mg/kg ww	<0.00040	----
Vanadium	7440-62-2	E475A	0.02	mg/kg ww	<0.020	----
Zinc	7440-66-6	E475A	0.2	mg/kg ww	<0.20	----
Zirconium	7440-67-7	E475A	0.04	mg/kg ww	<0.040	----
Metals (QCLot: 2369462)						
Aluminum	7429-90-5	E475	5	mg/kg	<5.0	----
Antimony	7440-36-0	E475	0.02	mg/kg	<0.020	----
Arsenic	7440-38-2	E475	0.05	mg/kg	<0.050	----
Barium	7440-39-3	E475	0.05	mg/kg	<0.050	----
Beryllium	7440-41-7	E475	0.01	mg/kg	<0.010	----
Bismuth	7440-69-9	E475	0.01	mg/kg	<0.010	----
Boron	7440-42-8	E475	1	mg/kg	<1.0	----
Cadmium	7440-43-9	E475	0.01	mg/kg	<0.010	----
Calcium	7440-70-2	E475	20	mg/kg	<20	----
Cesium	7440-46-2	E475	0.005	mg/kg	<0.0050	----
Chromium	7440-47-3	E475	0.2	mg/kg	<0.20	----
Cobalt	7440-48-4	E475	0.02	mg/kg	<0.020	----
Copper	7440-50-8	E475	0.2	mg/kg	<0.20	----
Iron	7439-89-6	E475	5	mg/kg	<5.0	----
Lead	7439-92-1	E475	0.05	mg/kg	<0.050	----
Lithium	7439-93-2	E475	0.5	mg/kg	<0.50	----
Magnesium	7439-95-4	E475	2	mg/kg	<2.0	----
Manganese	7439-96-5	E475	0.05	mg/kg	<0.050	----
Molybdenum	7439-98-7	E475	0.04	mg/kg	<0.040	----
Nickel	7440-02-0	E475	0.2	mg/kg	<0.20	----



Sub-Matrix: Biota

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 2369462) - continued						
Phosphorus	7723-14-0	E475	20	mg/kg	<20	----
Potassium	7440-09-7	E475	20	mg/kg	<20	----
Rubidium	7440-17-7	E475	0.05	mg/kg	<0.050	----
Selenium	7782-49-2	E475	0.1	mg/kg	<0.10	----
Sodium	7440-23-5	E475	20	mg/kg	<20	----
Strontium	7440-24-6	E475	0.1	mg/kg	<0.10	----
Tellurium	13494-80-9	E475	0.02	mg/kg	<0.020	----
Thallium	7440-28-0	E475	0.002	mg/kg	<0.0020	----
Tin	7440-31-5	E475	0.1	mg/kg	<0.10	----
Uranium	7440-61-1	E475	0.002	mg/kg	<0.0020	----
Vanadium	7440-62-2	E475	0.1	mg/kg	<0.10	----
Zinc	7440-66-6	E475	1	mg/kg	<1.0	----
Zirconium	7440-67-7	E475	0.2	mg/kg	<0.20	----
Metals (QCLot: 2369463)						
Mercury	7439-97-6	E512	0.01	mg/kg	<0.010	----
Speciated Metals (QCLot: 2396508)						
Methylmercury (as MeHg)	22967-92-6	E538	5	µg/kg	<5.0	----
Speciated Metals (QCLot: 2407823)						
Methylmercury (as MeHg)	22967-92-6	E538	5	µg/kg	<5.0	----
Aggregate Organics (QCLot: 2351270)						
Lipid content	----	E564B	0.5	% wwt	<0.50	----
Aggregate Organics (QCLot: 2351720)						
Lipid content	----	E564B	0.5	% wwt	<0.50	----
Aggregate Organics (QCLot: 2356150)						
Lipid content	----	E564B	0.5	% wwt	<0.50	----



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: Biota

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 2364084)									
Moisture	----	E144A	2	%	100 %	100	90.0	110	----
Physical Tests (QCLot: 2369026)									
Moisture	----	E144A	2	%	100 %	100.0	90.0	110	----
Physical Tests (QCLot: 2369478)									
Moisture	----	E144	0.5	%	100 %	100	90.0	110	----
Physical Tests (QCLot: 2369485)									
Moisture	----	E144	0.5	%	100 %	100.0	90.0	110	----
Metals (QCLot: 2363814)									
Mercury	7439-97-6	E512A	0.002	mg/kg wwt	0.05 mg/kg wwt	98.9	80.0	120	----
Metals (QCLot: 2363815)									
Aluminum	7429-90-5	E475A	1	mg/kg wwt	50 mg/kg wwt	101	80.0	120	----
Antimony	7440-36-0	E475A	0.004	mg/kg wwt	25 mg/kg wwt	112	80.0	120	----
Arsenic	7440-38-2	E475A	0.01	mg/kg wwt	25 mg/kg wwt	110	80.0	120	----
Barium	7440-39-3	E475A	0.01	mg/kg wwt	6.25 mg/kg wwt	100	80.0	120	----
Beryllium	7440-41-7	E475A	0.002	mg/kg wwt	2.5 mg/kg wwt	95.7	80.0	120	----
Bismuth	7440-69-9	E475A	0.002	mg/kg wwt	25 mg/kg wwt	96.4	80.0	120	----
Boron	7440-42-8	E475A	0.2	mg/kg wwt	25 mg/kg wwt	113	80.0	120	----
Cadmium	7440-43-9	E475A	0.002	mg/kg wwt	2.5 mg/kg wwt	93.7	80.0	120	----
Calcium	7440-70-2	E475A	4	mg/kg wwt	1250 mg/kg wwt	98.5	80.0	120	----
Cesium	7440-46-2	E475A	0.001	mg/kg wwt	1.25 mg/kg wwt	99.2	80.0	120	----
Chromium	7440-47-3	E475A	0.04	mg/kg wwt	6.25 mg/kg wwt	98.5	80.0	120	----
Cobalt	7440-48-4	E475A	0.004	mg/kg wwt	6.25 mg/kg wwt	97.6	80.0	120	----
Copper	7440-50-8	E475A	0.04	mg/kg wwt	6.25 mg/kg wwt	94.2	80.0	120	----
Iron	7439-89-6	E475A	1	mg/kg wwt	25 mg/kg wwt	96.8	80.0	120	----
Lead	7439-92-1	E475A	0.01	mg/kg wwt	12.5 mg/kg wwt	94.4	80.0	120	----
Lithium	7439-93-2	E475A	0.1	mg/kg wwt	6.25 mg/kg wwt	96.9	80.0	120	----
Magnesium	7439-95-4	E475A	0.4	mg/kg wwt	1250 mg/kg wwt	97.4	80.0	120	----
Manganese	7439-96-5	E475A	0.01	mg/kg wwt	6.25 mg/kg wwt	97.2	80.0	120	----
Molybdenum	7439-98-7	E475A	0.008	mg/kg wwt	6.25 mg/kg wwt	119	80.0	120	----
Nickel	7440-02-0	E475A	0.04	mg/kg wwt	12.5 mg/kg wwt	95.0	80.0	120	----
Phosphorus	7723-14-0	E475A	4	mg/kg wwt	250 mg/kg wwt	115	80.0	120	----



Sub-Matrix: Biota

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 2363815) - continued									
Potassium	7440-09-7	E475A	4	mg/kg wwt	1250 mg/kg wwt	100.0	80.0	120	----
Rubidium	7440-17-7	E475A	0.01	mg/kg wwt	2.5 mg/kg wwt	101	80.0	120	----
Selenium	7782-49-2	E475A	0.02	mg/kg wwt	25 mg/kg wwt	101	80.0	120	----
Sodium	7440-23-5	E475A	4	mg/kg wwt	1250 mg/kg wwt	98.4	80.0	120	----
Strontium	7440-24-6	E475A	0.02	mg/kg wwt	6.25 mg/kg wwt	101	80.0	120	----
Tellurium	13494-80-9	E475A	0.004	mg/kg wwt	2.5 mg/kg wwt	105	80.0	120	----
Thallium	7440-28-0	E475A	0.0004	mg/kg wwt	25 mg/kg wwt	94.0	80.0	120	----
Tin	7440-31-5	E475A	0.02	mg/kg wwt	12.5 mg/kg wwt	112	80.0	120	----
Uranium	7440-61-1	E475A	0.0004	mg/kg wwt	0.125 mg/kg wwt	96.1	80.0	120	----
Vanadium	7440-62-2	E475A	0.02	mg/kg wwt	12.5 mg/kg wwt	101	80.0	120	----
Zinc	7440-66-6	E475A	0.2	mg/kg wwt	12.5 mg/kg wwt	92.1	80.0	120	----
Zirconium	7440-67-7	E475A	0.04	mg/kg wwt	2.5 mg/kg wwt	113	80.0	120	----
Metals (QCLot: 2363816)									
Aluminum	7429-90-5	E475	5	mg/kg	50 mg/kg	101	80.0	120	----
Antimony	7440-36-0	E475	0.02	mg/kg	25 mg/kg	112	80.0	120	----
Arsenic	7440-38-2	E475	0.05	mg/kg	25 mg/kg	110	80.0	120	----
Barium	7440-39-3	E475	0.05	mg/kg	6.25 mg/kg	100	80.0	120	----
Beryllium	7440-41-7	E475	0.01	mg/kg	2.5 mg/kg	95.7	80.0	120	----
Bismuth	7440-69-9	E475	0.01	mg/kg	25 mg/kg	96.4	80.0	120	----
Boron	7440-42-8	E475	1	mg/kg	25 mg/kg	113	80.0	120	----
Cadmium	7440-43-9	E475	0.01	mg/kg	2.5 mg/kg	93.7	80.0	120	----
Calcium	7440-70-2	E475	20	mg/kg	1250 mg/kg	98.5	80.0	120	----
Cesium	7440-46-2	E475	0.005	mg/kg	1.25 mg/kg	99.2	80.0	120	----
Chromium	7440-47-3	E475	0.2	mg/kg	6.25 mg/kg	98.5	80.0	120	----
Cobalt	7440-48-4	E475	0.02	mg/kg	6.25 mg/kg	97.6	80.0	120	----
Copper	7440-50-8	E475	0.2	mg/kg	6.25 mg/kg	94.2	80.0	120	----
Iron	7439-89-6	E475	5	mg/kg	25 mg/kg	96.8	80.0	120	----
Lead	7439-92-1	E475	0.05	mg/kg	12.5 mg/kg	94.4	80.0	120	----
Lithium	7439-93-2	E475	0.5	mg/kg	6.25 mg/kg	96.9	80.0	120	----
Magnesium	7439-95-4	E475	2	mg/kg	1250 mg/kg	97.4	80.0	120	----
Manganese	7439-96-5	E475	0.05	mg/kg	6.25 mg/kg	97.2	80.0	120	----
Molybdenum	7439-98-7	E475	0.04	mg/kg	6.25 mg/kg	119	80.0	120	----
Nickel	7440-02-0	E475	0.2	mg/kg	12.5 mg/kg	95.0	80.0	120	----
Phosphorus	7723-14-0	E475	20	mg/kg	250 mg/kg	115	80.0	120	----
Potassium	7440-09-7	E475	20	mg/kg	1250 mg/kg	100.0	80.0	120	----
Rubidium	7440-17-7	E475	0.05	mg/kg	2.5 mg/kg	101	80.0	120	----



Sub-Matrix: Biota

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 2363816) - continued									
Selenium	7782-49-2	E475	0.1	mg/kg	25 mg/kg	101	80.0	120	----
Sodium	7440-23-5	E475	20	mg/kg	1250 mg/kg	98.4	80.0	120	----
Strontium	7440-24-6	E475	0.1	mg/kg	6.25 mg/kg	101	80.0	120	----
Tellurium	13494-80-9	E475	0.02	mg/kg	2.5 mg/kg	105	80.0	120	----
Thallium	7440-28-0	E475	0.002	mg/kg	25 mg/kg	94.0	80.0	120	----
Tin	7440-31-5	E475	0.1	mg/kg	12.5 mg/kg	112	80.0	120	----
Uranium	7440-61-1	E475	0.002	mg/kg	0.125 mg/kg	96.1	80.0	120	----
Vanadium	7440-62-2	E475	0.1	mg/kg	12.5 mg/kg	101	80.0	120	----
Zinc	7440-66-6	E475	1	mg/kg	12.5 mg/kg	92.1	80.0	120	----
Zirconium	7440-67-7	E475	0.2	mg/kg	2.5 mg/kg	113	80.0	120	----
Metals (QCLot: 2363817)									
Mercury	7439-97-6	E512	0.01	mg/kg	0.05 mg/kg	98.9	80.0	120	----
Metals (QCLot: 2369460)									
Mercury	7439-97-6	E512A	0.002	mg/kg wwt	0.05 mg/kg wwt	87.2	80.0	120	----
Metals (QCLot: 2369461)									
Aluminum	7429-90-5	E475A	1	mg/kg wwt	50 mg/kg wwt	101	80.0	120	----
Antimony	7440-36-0	E475A	0.004	mg/kg wwt	25 mg/kg wwt	102	80.0	120	----
Arsenic	7440-38-2	E475A	0.01	mg/kg wwt	25 mg/kg wwt	98.8	80.0	120	----
Barium	7440-39-3	E475A	0.01	mg/kg wwt	6.25 mg/kg wwt	97.6	80.0	120	----
Beryllium	7440-41-7	E475A	0.002	mg/kg wwt	2.5 mg/kg wwt	96.4	80.0	120	----
Bismuth	7440-69-9	E475A	0.002	mg/kg wwt	25 mg/kg wwt	97.6	80.0	120	----
Boron	7440-42-8	E475A	0.2	mg/kg wwt	25 mg/kg wwt	99.9	80.0	120	----
Cadmium	7440-43-9	E475A	0.002	mg/kg wwt	2.5 mg/kg wwt	95.3	80.0	120	----
Calcium	7440-70-2	E475A	4	mg/kg wwt	1250 mg/kg wwt	100	80.0	120	----
Cesium	7440-46-2	E475A	0.001	mg/kg wwt	1.25 mg/kg wwt	108	80.0	120	----
Chromium	7440-47-3	E475A	0.04	mg/kg wwt	6.25 mg/kg wwt	99.0	80.0	120	----
Cobalt	7440-48-4	E475A	0.004	mg/kg wwt	6.25 mg/kg wwt	96.8	80.0	120	----
Copper	7440-50-8	E475A	0.04	mg/kg wwt	6.25 mg/kg wwt	95.4	80.0	120	----
Iron	7439-89-6	E475A	1	mg/kg wwt	25 mg/kg wwt	97.7	80.0	120	----
Lead	7439-92-1	E475A	0.01	mg/kg wwt	12.5 mg/kg wwt	98.8	80.0	120	----
Lithium	7439-93-2	E475A	0.1	mg/kg wwt	6.25 mg/kg wwt	104	80.0	120	----
Magnesium	7439-95-4	E475A	0.4	mg/kg wwt	1250 mg/kg wwt	103	80.0	120	----
Manganese	7439-96-5	E475A	0.01	mg/kg wwt	6.25 mg/kg wwt	98.9	80.0	120	----
Molybdenum	7439-98-7	E475A	0.008	mg/kg wwt	6.25 mg/kg wwt	107	80.0	120	----
Nickel	7440-02-0	E475A	0.04	mg/kg wwt	12.5 mg/kg wwt	96.2	80.0	120	----
Phosphorus	7723-14-0	E475A	4	mg/kg wwt	250 mg/kg wwt	101	80.0	120	----



Sub-Matrix: Biota

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 2369461) - continued									
Potassium	7440-09-7	E475A	4	mg/kg wwt	1250 mg/kg wwt	98.7	80.0	120	----
Rubidium	7440-17-7	E475A	0.01	mg/kg wwt	2.5 mg/kg wwt	98.3	80.0	120	----
Selenium	7782-49-2	E475A	0.02	mg/kg wwt	25 mg/kg wwt	94.4	80.0	120	----
Sodium	7440-23-5	E475A	4	mg/kg wwt	1250 mg/kg wwt	106	80.0	120	----
Strontium	7440-24-6	E475A	0.02	mg/kg wwt	6.25 mg/kg wwt	105	80.0	120	----
Tellurium	13494-80-9	E475A	0.004	mg/kg wwt	2.5 mg/kg wwt	98.4	80.0	120	----
Thallium	7440-28-0	E475A	0.0004	mg/kg wwt	25 mg/kg wwt	98.3	80.0	120	----
Tin	7440-31-5	E475A	0.02	mg/kg wwt	12.5 mg/kg wwt	100.0	80.0	120	----
Uranium	7440-61-1	E475A	0.0004	mg/kg wwt	0.125 mg/kg wwt	104	80.0	120	----
Vanadium	7440-62-2	E475A	0.02	mg/kg wwt	12.5 mg/kg wwt	101	80.0	120	----
Zinc	7440-66-6	E475A	0.2	mg/kg wwt	12.5 mg/kg wwt	95.2	80.0	120	----
Zirconium	7440-67-7	E475A	0.04	mg/kg wwt	2.5 mg/kg wwt	110	80.0	120	----
Metals (QCLot: 2369462)									
Aluminum	7429-90-5	E475	5	mg/kg	50 mg/kg	101	80.0	120	----
Antimony	7440-36-0	E475	0.02	mg/kg	25 mg/kg	102	80.0	120	----
Arsenic	7440-38-2	E475	0.05	mg/kg	25 mg/kg	98.8	80.0	120	----
Barium	7440-39-3	E475	0.05	mg/kg	6.25 mg/kg	97.6	80.0	120	----
Beryllium	7440-41-7	E475	0.01	mg/kg	2.5 mg/kg	96.4	80.0	120	----
Bismuth	7440-69-9	E475	0.01	mg/kg	25 mg/kg	97.6	80.0	120	----
Boron	7440-42-8	E475	1	mg/kg	25 mg/kg	99.9	80.0	120	----
Cadmium	7440-43-9	E475	0.01	mg/kg	2.5 mg/kg	95.3	80.0	120	----
Calcium	7440-70-2	E475	20	mg/kg	1250 mg/kg	100	80.0	120	----
Cesium	7440-46-2	E475	0.005	mg/kg	1.25 mg/kg	108	80.0	120	----
Chromium	7440-47-3	E475	0.2	mg/kg	6.25 mg/kg	99.0	80.0	120	----
Cobalt	7440-48-4	E475	0.02	mg/kg	6.25 mg/kg	96.8	80.0	120	----
Copper	7440-50-8	E475	0.2	mg/kg	6.25 mg/kg	95.4	80.0	120	----
Iron	7439-89-6	E475	5	mg/kg	25 mg/kg	97.7	80.0	120	----
Lead	7439-92-1	E475	0.05	mg/kg	12.5 mg/kg	98.8	80.0	120	----
Lithium	7439-93-2	E475	0.5	mg/kg	6.25 mg/kg	104	80.0	120	----
Magnesium	7439-95-4	E475	2	mg/kg	1250 mg/kg	103	80.0	120	----
Manganese	7439-96-5	E475	0.05	mg/kg	6.25 mg/kg	98.9	80.0	120	----
Molybdenum	7439-98-7	E475	0.04	mg/kg	6.25 mg/kg	107	80.0	120	----
Nickel	7440-02-0	E475	0.2	mg/kg	12.5 mg/kg	96.2	80.0	120	----
Phosphorus	7723-14-0	E475	20	mg/kg	250 mg/kg	101	80.0	120	----
Potassium	7440-09-7	E475	20	mg/kg	1250 mg/kg	98.7	80.0	120	----
Rubidium	7440-17-7	E475	0.05	mg/kg	2.5 mg/kg	98.3	80.0	120	----



Sub-Matrix: Biota					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
					Target Concentration	LCS	Low	High	Qualifier
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 2369462) - continued									
Selenium	7782-49-2	E475	0.1	mg/kg	25 mg/kg	94.4	80.0	120	----
Sodium	7440-23-5	E475	20	mg/kg	1250 mg/kg	106	80.0	120	----
Strontium	7440-24-6	E475	0.1	mg/kg	6.25 mg/kg	105	80.0	120	----
Tellurium	13494-80-9	E475	0.02	mg/kg	2.5 mg/kg	98.4	80.0	120	----
Thallium	7440-28-0	E475	0.002	mg/kg	25 mg/kg	98.3	80.0	120	----
Tin	7440-31-5	E475	0.1	mg/kg	12.5 mg/kg	100.0	80.0	120	----
Uranium	7440-61-1	E475	0.002	mg/kg	0.125 mg/kg	104	80.0	120	----
Vanadium	7440-62-2	E475	0.1	mg/kg	12.5 mg/kg	101	80.0	120	----
Zinc	7440-66-6	E475	1	mg/kg	12.5 mg/kg	95.2	80.0	120	----
Zirconium	7440-67-7	E475	0.2	mg/kg	2.5 mg/kg	110	80.0	120	----
Metals (QCLot: 2369463)									
Mercury	7439-97-6	E512	0.01	mg/kg	0.05 mg/kg	87.2	80.0	120	----
Speciated Metals (QCLot: 2396508)									
Methylmercury (as MeHg)	22967-92-6	E538	5	µg/kg	100 µg/kg	100.0	70.0	130	----
Speciated Metals (QCLot: 2407823)									
Methylmercury (as MeHg)	22967-92-6	E538	5	µg/kg	100 µg/kg	96.1	70.0	130	----
Aggregate Organics (QCLot: 2351270)									
Lipid content	----	E564B	0.5	% wwt	98.5 % wwt	104	70.0	130	----
Aggregate Organics (QCLot: 2351720)									
Lipid content	----	E564B	0.5	% wwt	100 % wwt	96.0	70.0	130	----
Aggregate Organics (QCLot: 2356150)									
Lipid content	----	E564B	0.5	% wwt	99.5 % wwt	98.7	70.0	130	----



Reference Material (RM) Report

A Reference Material (RM) is a homogenous material with known and well-established analyte concentrations. RMs are processed in an identical manner to test samples, and are used to monitor and control the accuracy and precision of a test method for a typical sample matrix. RM results are expressed as percent recovery of the target analyte concentration. RM targets may be certified target concentrations provided by the RM supplier, or may be ALS long-term mean values (for empirical test methods).

Sub-Matrix:

Sub-Matrix:					Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method					
Metals (QCLot: 2363814)									
QC-2363814-003	RM	Mercury	7439-97-6	E512A	0.281 mg/kg wwt	103	70.0	130	----
Metals (QCLot: 2363815)									
QC-2363815-003	RM	Aluminum	7429-90-5	E475A	147 mg/kg wwt	96.6	70.0	130	----
QC-2363815-003	RM	Arsenic	7440-38-2	E475A	14.5 mg/kg wwt	95.0	70.0	130	----
QC-2363815-003	RM	Barium	7440-39-3	E475A	0.352 mg/kg wwt	95.9	70.0	130	----
QC-2363815-003	RM	Boron	7440-42-8	E475A	3.47 mg/kg wwt	95.0	70.0	130	----
QC-2363815-003	RM	Cadmium	7440-43-9	E475A	0.153 mg/kg wwt	93.3	70.0	130	----
QC-2363815-003	RM	Calcium	7440-70-2	E475A	2010 mg/kg wwt	96.6	70.0	130	----
QC-2363815-003	RM	Cesium	7440-46-2	E475A	0.089 mg/kg wwt	95.5	70.0	130	----
QC-2363815-003	RM	Copper	7440-50-8	E475A	3.3 mg/kg wwt	94.1	70.0	130	----
QC-2363815-003	RM	Iron	7439-89-6	E475A	102 mg/kg wwt	92.3	70.0	130	----
QC-2363815-003	RM	Lead	7439-92-1	E475A	0.058 mg/kg wwt	91.0	15.0	185	----
QC-2363815-003	RM	Magnesium	7439-95-4	E475A	899 mg/kg wwt	96.9	70.0	130	----
QC-2363815-003	RM	Manganese	7439-96-5	E475A	0.948 mg/kg wwt	100	70.0	130	----
QC-2363815-003	RM	Molybdenum	7439-98-7	E475A	0.134 mg/kg wwt	94.4	70.0	130	----
QC-2363815-003	RM	Phosphorus	7723-14-0	E475A	6700 mg/kg wwt	101	70.0	130	----
QC-2363815-003	RM	Potassium	7440-09-7	E475A	11600 mg/kg wwt	102	70.0	130	----
QC-2363815-003	RM	Rubidium	7440-17-7	E475A	2.53 mg/kg wwt	104	70.0	130	----
QC-2363815-003	RM	Selenium	7782-49-2	E475A	2.48 mg/kg wwt	97.8	70.0	130	----
QC-2363815-003	RM	Sodium	7440-23-5	E475A	9620 mg/kg wwt	99.5	70.0	130	----
QC-2363815-003	RM	Strontium	7440-24-6	E475A	10.6 mg/kg wwt	97.4	70.0	130	----
QC-2363815-003	RM	Vanadium	7440-62-2	E475A	0.269 mg/kg wwt	95.1	70.0	130	----
QC-2363815-003	RM	Zinc	7440-66-6	E475A	28.7 mg/kg wwt	95.8	70.0	130	----
Metals (QCLot: 2363816)									
QC-2363816-003	RM	Aluminum	7429-90-5	E475	147 mg/kg	96.6	70.0	130	----
QC-2363816-003	RM	Arsenic	7440-38-2	E475	14.5 mg/kg	95.0	70.0	130	----
QC-2363816-003	RM	Barium	7440-39-3	E475	0.352 mg/kg	95.9	70.0	130	----
QC-2363816-003	RM	Boron	7440-42-8	E475	3.47 mg/kg	95.0	70.0	130	----
QC-2363816-003	RM	Cadmium	7440-43-9	E475	0.153 mg/kg	93.3	70.0	130	----
QC-2363816-003	RM	Calcium	7440-70-2	E475	2010 mg/kg	96.6	70.0	130	----
QC-2363816-003	RM	Cesium	7440-46-2	E475	0.089 mg/kg	95.5	70.0	130	----
QC-2363816-003	RM	Copper	7440-50-8	E475	3.3 mg/kg	94.1	70.0	130	----
QC-2363816-003	RM	Iron	7439-89-6	E475	102 mg/kg	92.3	70.0	130	----



Sub-Matrix:					Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method					
Metals (QCLot: 2363816) - continued									
QC-2363816-003	RM	Lead	7439-92-1	E475	0.058 mg/kg	91.0	15.0	185	----
QC-2363816-003	RM	Magnesium	7439-95-4	E475	899 mg/kg	96.9	70.0	130	----
QC-2363816-003	RM	Manganese	7439-96-5	E475	0.948 mg/kg	100	70.0	130	----
QC-2363816-003	RM	Molybdenum	7439-98-7	E475	0.134 mg/kg	94.4	70.0	130	----
QC-2363816-003	RM	Phosphorus	7723-14-0	E475	6700 mg/kg	101	70.0	130	----
QC-2363816-003	RM	Potassium	7440-09-7	E475	11600 mg/kg	102	70.0	130	----
QC-2363816-003	RM	Rubidium	7440-17-7	E475	2.53 mg/kg	104	70.0	130	----
QC-2363816-003	RM	Selenium	7782-49-2	E475	2.48 mg/kg	97.8	70.0	130	----
QC-2363816-003	RM	Sodium	7440-23-5	E475	9620 mg/kg	99.5	70.0	130	----
QC-2363816-003	RM	Strontium	7440-24-6	E475	10.6 mg/kg	97.4	70.0	130	----
QC-2363816-003	RM	Vanadium	7440-62-2	E475	0.269 mg/kg	95.1	70.0	130	----
QC-2363816-003	RM	Zinc	7440-66-6	E475	28.7 mg/kg	95.8	70.0	130	----
Metals (QCLot: 2363817)									
QC-2363817-003	RM	Mercury	7439-97-6	E512	0.281 mg/kg	103	70.0	130	----
Metals (QCLot: 2369460)									
QC-2369460-003	RM	Mercury	7439-97-6	E512A	0.281 mg/kg wwt	102	70.0	130	----
Metals (QCLot: 2369461)									
QC-2369461-003	RM	Aluminum	7429-90-5	E475A	147 mg/kg wwt	91.6	70.0	130	----
QC-2369461-003	RM	Arsenic	7440-38-2	E475A	14.5 mg/kg wwt	95.1	70.0	130	----
QC-2369461-003	RM	Barium	7440-39-3	E475A	0.352 mg/kg wwt	122	70.0	130	----
QC-2369461-003	RM	Boron	7440-42-8	E475A	3.47 mg/kg wwt	88.1	70.0	130	----
QC-2369461-003	RM	Cadmium	7440-43-9	E475A	0.153 mg/kg wwt	96.1	70.0	130	----
QC-2369461-003	RM	Calcium	7440-70-2	E475A	2010 mg/kg wwt	119	70.0	130	----
QC-2369461-003	RM	Cesium	7440-46-2	E475A	0.089 mg/kg wwt	100	70.0	130	----
QC-2369461-003	RM	Copper	7440-50-8	E475A	3.3 mg/kg wwt	94.2	70.0	130	----
QC-2369461-003	RM	Iron	7439-89-6	E475A	102 mg/kg wwt	94.0	70.0	130	----
QC-2369461-003	RM	Lead	7439-92-1	E475A	0.058 mg/kg wwt	96.8	15.0	185	----
QC-2369461-003	RM	Magnesium	7439-95-4	E475A	899 mg/kg wwt	102	70.0	130	----
QC-2369461-003	RM	Manganese	7439-96-5	E475A	0.948 mg/kg wwt	97.0	70.0	130	----
QC-2369461-003	RM	Molybdenum	7439-98-7	E475A	0.134 mg/kg wwt	98.4	70.0	130	----
QC-2369461-003	RM	Phosphorus	7723-14-0	E475A	6700 mg/kg wwt	101	70.0	130	----
QC-2369461-003	RM	Potassium	7440-09-7	E475A	11600 mg/kg wwt	99.3	70.0	130	----
QC-2369461-003	RM	Rubidium	7440-17-7	E475A	2.53 mg/kg wwt	96.9	70.0	130	----
QC-2369461-003	RM	Selenium	7782-49-2	E475A	2.48 mg/kg wwt	100	70.0	130	----
QC-2369461-003	RM	Sodium	7440-23-5	E475A	9620 mg/kg wwt	103	70.0	130	----
QC-2369461-003	RM	Strontium	7440-24-6	E475A	10.6 mg/kg wwt	99.1	70.0	130	----
QC-2369461-003	RM	Vanadium	7440-62-2	E475A	0.269 mg/kg wwt	93.7	70.0	130	----



Sub-Matrix:					Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method					
Metals (QCLot: 2369461) - continued									
QC-2369461-003	RM	Zinc	7440-66-6	E475A	28.7 mg/kg ww	100	70.0	130	----
Metals (QCLot: 2369462)									
QC-2369462-003	RM	Aluminum	7429-90-5	E475	147 mg/kg	91.6	70.0	130	----
QC-2369462-003	RM	Arsenic	7440-38-2	E475	14.5 mg/kg	95.1	70.0	130	----
QC-2369462-003	RM	Barium	7440-39-3	E475	0.352 mg/kg	122	70.0	130	----
QC-2369462-003	RM	Boron	7440-42-8	E475	3.47 mg/kg	88.1	70.0	130	----
QC-2369462-003	RM	Cadmium	7440-43-9	E475	0.153 mg/kg	96.1	70.0	130	----
QC-2369462-003	RM	Calcium	7440-70-2	E475	2010 mg/kg	119	70.0	130	----
QC-2369462-003	RM	Cesium	7440-46-2	E475	0.089 mg/kg	100	70.0	130	----
QC-2369462-003	RM	Copper	7440-50-8	E475	3.3 mg/kg	94.2	70.0	130	----
QC-2369462-003	RM	Iron	7439-89-6	E475	102 mg/kg	94.0	70.0	130	----
QC-2369462-003	RM	Lead	7439-92-1	E475	0.058 mg/kg	96.8	15.0	185	----
QC-2369462-003	RM	Magnesium	7439-95-4	E475	899 mg/kg	102	70.0	130	----
QC-2369462-003	RM	Manganese	7439-96-5	E475	0.948 mg/kg	97.0	70.0	130	----
QC-2369462-003	RM	Molybdenum	7439-98-7	E475	0.134 mg/kg	98.4	70.0	130	----
QC-2369462-003	RM	Phosphorus	7723-14-0	E475	6700 mg/kg	101	70.0	130	----
QC-2369462-003	RM	Potassium	7440-09-7	E475	11600 mg/kg	99.3	70.0	130	----
QC-2369462-003	RM	Rubidium	7440-17-7	E475	2.53 mg/kg	96.9	70.0	130	----
QC-2369462-003	RM	Selenium	7782-49-2	E475	2.48 mg/kg	100	70.0	130	----
QC-2369462-003	RM	Sodium	7440-23-5	E475	9620 mg/kg	103	70.0	130	----
QC-2369462-003	RM	Strontium	7440-24-6	E475	10.6 mg/kg	99.1	70.0	130	----
QC-2369462-003	RM	Vanadium	7440-62-2	E475	0.269 mg/kg	93.7	70.0	130	----
QC-2369462-003	RM	Zinc	7440-66-6	E475	28.7 mg/kg	100	70.0	130	----
Metals (QCLot: 2369463)									
QC-2369463-003	RM	Mercury	7439-97-6	E512	0.281 mg/kg	102	70.0	130	----
Speciated Metals (QCLot: 2396508)									
QC-2396508-003	RM	Methylmercury (as MeHg)	22967-92-6	E538	266 µg/kg	94.3	70.0	130	----
Speciated Metals (QCLot: 2407823)									
QC-2407823-003	RM	Methylmercury (as MeHg)	22967-92-6	E538	266 µg/kg	84.2	70.0	130	----



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Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

COC Number: 22 -

Page 3 of 6

Environmental Division
Thunder Bay
Work Order Reference
TY2510952



Telephone : +1 807 623 6463

Report To Contact and company name below will appear on the final report		Reports / Recipients		Turnaround Time (TAT) Requested	
Company:	G3 Consulting Ltd.	Select Report Format:	☒ PDF ☒ EXCEL ☐ EDD (DIGITAL)	☒ Routine [R] If received by 3pm M-F - no surcharges apply	
Contact:	Greg Thomas	Merge QC/QC Reports with COA	☒ YES ☐ NO ☐ N/A	☐ 4 day [P4] If received by 3pm M-F - 20% rush surcharge	
Phone:	604-598-8501	☒ Compare Results to Criteria on Report - provide details below if box checked		☐ 3 day [P3] If received by 3pm M-F - 25% rush surcharge	
Company address below will appear on the final report		Select Distribution:	☒ EMAIL ☐ MAIL ☐ FAX	☐ 2 day [P2] If received by 3pm M-F - 50% rush surcharge	
Street:	206-8501 182 St	Email 1 or Fax:	hailson@g3consulting.com; cwilson@g3consulting.com	☐ 1 day [E] If received by 3pm M-F - 100% rush surcharge	
City/Province:	Surrey, BC	Email 2:	squashie@g3consulting.com; rferrell@g3consulting.com	☐ Same day [E2] If received by 10am M-S - 200% rush surcharge	
Postal Code:	V4N 1B2	Email 3:	gthomas@g3consulting.com; mtylo@g3consulting.com	Additional fees may apply to rush requests on weekdays	
Invoice To:	Same as Report To ☐ YES ☒ NO	Invoice Recipients		For all tests with rush TATs requested, please call for details	
Copy of Invoice with Report:	☐ YES ☒ NO	Select Invoice Distribution:	☒ EMAIL ☐ MAIL ☐ FAX	Analysis:	
Company:	G3 Consulting Ltd.	Email 1 or Fax:	sjohnson@g3consulting.com	Indicate Filtered (F), Preserved (P) or Filtered (F)	
Contact:		Email 2:	info@g3consulting.com	ANALYSIS	
Project Information		Oil and Gas Required Fields (client use)			
ALS Account # / Quote #:	G3CO100 / WT2025G3CO1000001	AFE/Cost Center:	PO#		
Job #:	2502	Major/Minor Code:	Routing Code:		
PO / AFE:	2502	Requisitioner:			
LSD:		Location:			
ALS Lab Work Order # (ALS use only): TY2510952		ALS Contact:	Sampler:		
ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS
1	25ONG309 FT HLWYS60	9	-Sept-2025	Biota/Tissue	Metals w/ selenium
2	25ONG309 FT HLWSS51	9	-Sept-2025	Biota/Tissue	Total Mercury
3	25ONG309 FT HLWYS52	9	-Sept-2025	Biota/Tissue	Methylmercury
4	25ONG309 FT HLNPS53	9	-Sept-2025	Biota/Tissue	Methoxymercury
5	25ONG309 FT HLWSS54	9	-Sept-2025	Biota/Tissue	Methoxymercury
6	25ONG309 FT HLWSS55	9	-Sept-2025	Biota/Tissue	Methoxymercury
7	25ONG309 FT HLWSS56	9	-Sept-2025	Biota/Tissue	Methoxymercury
8	25ONG309 FT HLWYS57	9	-Sept-2025	Biota/Tissue	Methoxymercury
9	25ONG309 FT HLNPS58	9	-Sept-2025	Biota/Tissue	Methoxymercury
10	25ONG309 FT HLWYS59	9	-Sept-2025	Biota/Tissue	Methoxymercury
11	25ONG309 FT HLNPS60	9	-Sept-2025	Biota/Tissue	Methoxymercury
12	25ONG309 FT HLWSS61	9	-Sept-2025	Biota/Tissue	Methoxymercury
13	25ONG309 FT HLWSS62	9	-Sept-2025	Biota/Tissue	Methoxymercury
14	25ONG309 FT HLWYS63	9	-Sept-2025	Biota/Tissue	Methoxymercury
Drinking Water (DW) Samples (client use)		Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel CDC only)			
Are samples taken from a Regulated DW System? ☐ YES ☐ NO		Are samples for human consumption/ use? ☐ YES ☐ NO			
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (ALS use only)			
Released by:	Date:	Time:	Received by:	Date:	Time:
SHIPMENT RELEASE (client use)		FINAL SHIPMENT RECEPTION (ALS use only)			
Released by:		Date:	Time:	Received by:	Date:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

2x deep



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Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

COC Number: 22

Page 4 of 6

Report To Contact and company name below will appear on the final report		Reports / Recipients		Turnaround Time (TAT) Requested																																																									
Company:	G3 Consulting Ltd.	Select Report Format:	☒ PDF ☒ EXCEL ☐ EDD (DIGITAL)	☒ Routine [R] if received by 3pm M-F - no surcharges apply	APPLY A BARCODE LABEL HERE (ALS use only)																																																								
Contact:	Greg Thomas	Merge COC/CR Reports with COA:	☒ YES ☐ NO ☐ N/A	☐ 4 day [P4] if received by 3pm M-F - 200% rush surcharge minimum																																																									
Phone:	604-598-8501	☒ Compare Results to Criteria on Report - provide details below if box checked		☐ 3 day [P3] if received by 3pm M-F - 250% rush surcharge minimum																																																									
Company address below will appear on the final report		Select Distribution:	☒ EMAIL ☐ MAIL ☐ FAX	☐ 2 day [P2] if received by 3pm M-F - 500% rush surcharge minimum																																																									
Street:	206-8501 182 St	Email 1 or Fax:	kelfonso@g3consulting.com; cwilson@g3consulting.com	☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum																																																									
City/Province:	Surrey, BC	Email 2:	aquashie@g3consulting.com; rfarrel@g3consulting.com	☐ Same day [E2] if received by 10am M-S - 200% rush surcharge.																																																									
Postal Code:	V4N 1B2	Email 3:	gthomas@g3consulting.com; mtylo@g3consulting.com	Additional fees may apply to rush requests on weekends, statutory holidays and for non-routine tests.																																																									
Invoice To:	Same as Report To ☐ YES ☒ NO	Invoice Recipients		Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm am/pm																																																									
Copy of Invoice with Report ☐ YES ☒ NO		Select Invoice Distribution:	☒ EMAIL ☐ MAIL ☐ FAX	For all tests with rush TATs requested, please contact your ALS to confirm availability.																																																									
Company:	G3 Consulting Ltd.	Email 1 or Fax:	sjohnson@g3consulting.com	Analysis Request																																																									
Contact:		Email 2:	info@g3consulting.com	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below																																																									
Project Information		Oil and Gas Required Fields (client use)		<table border="1"> <tr> <th rowspan="5">NUMBER OF CONTAINERS</th> <th colspan="10"></th> <th rowspan="5">SAMPLES ON HOLD</th> <th rowspan="5">EXTENDED STORAGE REQUIRED</th> <th rowspan="5">SUSPECTED HAZARD (see notes)</th> </tr> <tr> <th colspan="10"></th> </tr> <tr> <th colspan="10"></th> </tr> <tr> <th colspan="10"></th> </tr> <tr> <th colspan="10"></th> </tr> </table>				NUMBER OF CONTAINERS											SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)																																								
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ALS Lab Work Order # (ALS use only):		ALS Contact:	Sampler:																																																										
ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type																																																									
14	25ONG309 FT HLWSS64	-Sept-2025		Biota/Tissue	R	R	R	R	R	R																																																			
15	25ONG309 FT HLWSS65	-Sept-2025		Biota/Tissue	R	R																																																							
16	25ONG309 FT HLWSS66	-Sept-2025		Biota/Tissue	R	R																																																							
17	25ONG309 FT HLWSS67	-Sept-2025		Biota/Tissue	R	R																																																							
18	25ONG309 FT HLWSS68	-Sept-2025		Biota/Tissue	R	R																																																							
19	25ONG309 FT HLWSS69	-Sept-2025		Biota/Tissue	R	R																																																							
20	25ONG309 FT HLWSS70	-Sept-2025		Biota/Tissue	R	R																																																							
21	25ONG309 FT HLWSS71	-Sept-2025	12:26	Biota/Tissue	R	R																																																							
22	25ONG309 FT HLWSS72	-Sept-2025		Biota/Tissue	R	R																																																							
23	25ONG309 FT HLWSS73	-Sept-2025		Biota/Tissue	R	R																																																							
24	25ONG309 FT HLWSS74	-Sept-2025		Biota/Tissue	R	R																																																							
25	25ONG309 FT HLWSS75	-Sept-2025		Biota/Tissue	R	R																																																							
26	25ONG309 FT HLWSS76	-Sept-2025		Biota/Tissue	R	R																																																							
27	25ONG309 FT HLWSS77	-Sept-2025		Biota/Tissue	R	R																																																							
Drinking Water (DW) Samples (client use)		Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)		SAMPLE RECEIPT DETAILS (ALS use only)																																																									
Are samples taken from a Regulated DW System? ☐ YES ☐ NO				Cooling Method: ☐ NONE ☐ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED																																																									
Are samples for human consumption/ use? ☐ YES ☐ NO				Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO																																																									
				Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A																																																									
				INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C																																																					
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (ALS use only)		FINAL SHIPMENT RECEPTION (ALS use only)																																																									
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:																																																		

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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JAN 2023 FORM1

Failure to complete all portions of this form may delay analyses. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Intake and Login Verification Form

SAMPLE INTAKE				ACCOUNT INFO VERIFICATION			
Priority/Emergency Service Requested	YES	NO		Priority/Emergency Service Requested	YES	NO	
Time Sensitive Hold Time	YES	NO		Confirmed all as accurate as per COC, Sample Remarks or PM			
Client:				Client	Work Contact	Quote	
SAMPLE RECEIPT INFORMATION				RECEIPT DETAIL			
Mode of Delivery:	Courier	Drop Off		Project	PO	Site/LSD	N
Courier				Overall Description Entered	Yes	NA	
Waybill Number				Received date/time as per COC			
Temperature			Cooler Count	Recipients match CoC or Sample Remarks	Yes	No	
Cooling Method	None	Ice	Ice Packs	Billing Instruction added to remarks	Yes	NA	
SAMPLE MATRIX/BOTTLE INFORMATION				Sample Remarks/Specification Doc checked			
Matrix:	Water	Soil	Air	Submission Issues communicated	Yes	NA	
			Biota	Sample Info communicated via Remarks	Yes	NA	
DW Schedule 24 Bottles Correct?			Yes	No			
DW Metals pH Check <2			Yes	No			
Regulation Circled, Works # present	Yes	No - Reject?		VERIFICATION CHECKLIST			
# of Bottles:	1	Sample Count	26	Planned Event Submission	Yes	No	
Green/white				Sample Name entered as per CoC			
Purple/white				Sampling Date and time entered as per CoC			
Warm red/white				Containers selected in layout order			
Yellow/black				Sales items entered from QUOTE ONLY (and/or verified as correct)			
Light blue/white				Field Data/EC298A removed if not on COC	Yes	NA	
Orange/black				Bottle Allocation Verified			
Others (detail)	26 dish samples			Guideline added or auto-allocated	N		
				Due dates updated			
Comments on Samples and Bottles:				VALIDATION			
HLWYS 59. f. HLWYS 73 - not received				Validation errors resolved?	Yes	No	
Samples Requiring Preservation or Filtering:				Internal Sublet CoC created	Yes	NA	
				Login Comments:			
Layout Staff Initials	AL			Login Staff Initials:			
Date and Time of Layout	25-Sep-23/1:54						

CERTIFICATE OF ANALYSIS

Work Order	: TY2510954		
Client	: G3 Consulting Ltd.	Laboratory	: ALS Environmental - Thunder Bay
Contact	: Greg Thomas	Account Manager	: Colby Coutu
Address	: 206-8501 162nd St. Surrey British Columbia Canada V4N 1B2	Address	: 1081 Barton Street Thunder Bay ON Canada P7B 5N3
Telephone	: 604 598 8501	E-mail	: colby.coutu@alsglobal.com
Project	: 2502	Telephone	: +1 807 623 6463
PO	: 2502	Date Samples Received	: 19-Sep-2025 16:54
C-O-C number	: ----	Date Analysis Commenced	: 23-Nov-2025
Sampler	: ----	Issue Date	: 07-Jan-2026 13:50
Site	: ----		
Quote number	: Dubreuilville Project		
No. of samples received	: 19		
No. of samples analysed	: 19		

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.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Brieanna Allen	Production/Validation Manager	Organics, Burnaby, British Columbia
Cesar Mora	Lab Assistant	Metals, Burnaby, British Columbia
Dan Gebert	Supervisor - Metals Mercury & Speciation	Metals, Burnaby, British Columbia
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Metals, Burnaby, British Columbia
Shahrzad Firoozbakht	Lab Assistant	Metals, Burnaby, British Columbia

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).

Unit	Description
%	percent
% wwt	% wet weight
mg/kg	milligrams per kilogram
mg/kg wwt	milligrams per kilogram wet weight
µg/kg	micrograms per kilogram

<: less than.

>: greater than.

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.

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
DLIS	Detection Limit Adjusted due to insufficient sample.



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWYS78 ----	25ONG309 FT HLWYS79 ----	25ONG309 FT HLWYS80 ----	25ONG309 FT HLWYS8 ----	25ONG309 FT HLWSS9 ----
Client sampling date / time						09-Sep-2025 12:26	09-Sep-2025 12:26	09-Sep-2025 12:26	10-Sep-2025 00:00	10-Sep-2025 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510954-001	TY2510954-002	TY2510954-003	TY2510954-004	TY2510954-005
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.50	%		79.1	79.3	76.6	79.3	78.1
Moisture	----	E144A/VA	2.0	%		79.1	79.3	76.6	79.3	78.1
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt		<1.0	<1.0	<1.0	<1.0	<1.0
Antimony	7440-36-0	E475/VA	0.020	mg/kg		<0.020	<0.020	0.047	<0.020	<0.020
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	0.0110	<0.0040	<0.0040
Arsenic	7440-38-2	E475/VA	0.050	mg/kg		0.141	0.172	0.195	0.188	0.242
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt		0.029	0.036	0.046	0.039	0.053
Barium	7440-39-3	E475/VA	0.050	mg/kg		<0.050	<0.050	<0.050	0.093	<0.050
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt		<0.010	<0.010	<0.010	0.019	<0.010
Beryllium	7440-41-7	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	7440-69-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	7440-42-8	E475/VA	1.0	mg/kg		<1.1 ^{DLIS}	<1.0	<1.0	<1.1 ^{DLIS}	<1.0
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt		<0.23 ^{DLIS}	<0.22 ^{DLIS}	<0.22 ^{DLIS}	<0.22 ^{DLIS}	<0.22 ^{DLIS}
Cadmium	7440-43-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	7440-70-2	E475/VA	20	mg/kg		440	496	480	563	403



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

Client sample ID					25ONG309 FT HLWYS78 ----	25ONG309 FT HLWYS79 ----	25ONG309 FT HLWYS80 ----	25ONG309 FT HLWYS8 ----	25ONG309 FT HLWSS9 ----
Client sampling date / time					09-Sep-2025 12:26	09-Sep-2025 12:26	09-Sep-2025 12:26	10-Sep-2025 00:00	10-Sep-2025 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510954-001	TY2510954-002	TY2510954-003	TY2510954-004	TY2510954-005
					Result	Result	Result	Result	Result
Metals									
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt	91.8	103	112	116	88.3
Cesium	7440-46-2	E475/VA	0.0050	mg/kg	1.06	1.57	1.18	0.871	1.47
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt	0.220	0.325	0.277	0.180	0.322
Chromium	7440-47-3	E475/VA	0.20	mg/kg	<0.20	<0.20	0.33	<0.20	<0.20
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt	<0.040	<0.040	0.077	<0.040	<0.040
Cobalt	7440-48-4	E475/VA	0.020	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Copper	7440-50-8	E475/VA	0.20	mg/kg	0.54	0.61	0.57	0.56	0.53
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt	0.112	0.126	0.133	0.115	0.115
Iron	7439-89-6	E475/VA	5.0	mg/kg	<5.0	6.6	9.2	9.9	6.9
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt	1.0	1.4	2.1	2.0	1.5
Lead	7439-92-1	E475/VA	0.050	mg/kg	<0.050	<0.050	<0.050	0.062	<0.050
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt	<0.010	<0.010	<0.010	0.013	<0.010
Lithium	7439-93-2	E475/VA	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	7439-95-4	E475/VA	2.0	mg/kg	1190	1400	1510	1540	1560
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt	248	289	352	318	342
Manganese	7439-96-5	E475/VA	0.050	mg/kg	0.306	0.272	0.393	0.436	0.255
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt	0.064	0.056	0.092	0.090	0.056
Mercury	7439-97-6	E512/VA	0.010	mg/kg	2.96	3.07	2.40	2.66	3.03



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWYS78 ----	25ONG309 FT HLWYS79 ----	25ONG309 FT HLWYS80 ----	25ONG309 FT HLWYS8 ----	25ONG309 FT HLWSS9 ----
Client sampling date / time						09-Sep-2025 12:26	09-Sep-2025 12:26	09-Sep-2025 12:26	10-Sep-2025 00:00	10-Sep-2025 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510954-001	TY2510954-002	TY2510954-003	TY2510954-004	TY2510954-005
						Result	Result	Result	Result	Result
Metals										
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt		0.619	0.634	0.561	0.550	0.663
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg		<0.040	<0.040	<0.040	<0.040	<0.040
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel	7440-02-0	E475/VA	0.20	mg/kg		<0.20	0.32	<0.20	<0.20	<0.20
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt		<0.040	0.067	0.041	<0.040	<0.040
Phosphorus	7723-14-0	E475/VA	20	mg/kg		10500	10200	10000	10600	11300
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt		2190	2110	2340	2190	2480
Potassium	7440-09-7	E475/VA	20	mg/kg		21000	20000	20000	20200	22200
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt		4380	4140	4680	4180	4860
Rubidium	7440-17-7	E475/VA	0.050	mg/kg		69.5	77.9	73.7	57.0	77.6
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt		14.5	16.1	17.2	11.8	17.0
Selenium	7782-49-2	E475/VA	0.10	mg/kg		0.87	1.13	0.97	1.10	1.01
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt		0.182	0.233	0.227	0.227	0.220
Sodium	7440-23-5	E475/VA	20	mg/kg		1790	2830	1470	2430	1800
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt		374	585	345	502	395
Strontium	7440-24-6	E475/VA	0.10	mg/kg		0.18	0.33	0.25	0.32	0.19
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt		0.037	0.068	0.059	0.066	0.042
Tellurium	13494-80-9	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	7440-28-0	E475/VA	0.0020	mg/kg		0.0190	0.0185	0.0229	0.0159	0.0242



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLWYS78 ----	25ONG309 FT HLWYS79 ----	25ONG309 FT HLWYS80 ----	25ONG309 FT HLWYS8 ----	25ONG309 FT HLWSS9 ----
Client sampling date / time						09-Sep-2025 12:26	09-Sep-2025 12:26	09-Sep-2025 12:26	10-Sep-2025 00:00	10-Sep-2025 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510954-001	TY2510954-002	TY2510954-003	TY2510954-004	TY2510954-005
						Result	Result	Result	Result	Result
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt		0.00396	0.00383	0.00534	0.00328	0.00529
Tin	7440-31-5	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Uranium	7440-61-1	E475/VA	0.0020	mg/kg		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Vanadium	7440-62-2	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Zinc	7440-66-6	E475/VA	1.0	mg/kg		16.9	20.4	17.1	17.0	16.3
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt		3.52	4.21	3.99	3.51	3.57
Zirconium	7440-67-7	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg		1230	1400	907	1190	1450
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt		<0.50	<0.50	<0.50	<0.50	<0.50

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



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLNPS10	25ONG309 FT HLWSS11	25ONG309 FT HLWSS12	25ONG309 FT HLWSS13	25ONG309 FT HLLWS14
					Client sampling date / time	10-Sep-2025 00:00	10-Sep-2025 00:00	10-Sep-2025 00:00	10-Sep-2025 00:00	10-Sep-2025 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510954-006	TY2510954-007	TY2510954-008	TY2510954-009	TY2510954-010
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.50	%		79.8	80.8	79.7	81.3	80.0
Moisture	----	E144A/VA	2.0	%		79.8	80.8	79.7	81.3	80.0
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt		<1.0	<1.0	<1.0	<1.0	<1.0
Antimony	7440-36-0	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Arsenic	7440-38-2	E475/VA	0.050	mg/kg		0.118	0.154	0.134	0.135	0.427
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt		0.024	0.029	0.027	0.025	0.085
Barium	7440-39-3	E475/VA	0.050	mg/kg		<0.050	0.064	0.065	0.096	<0.050
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt		<0.010	0.012	0.013	0.018	<0.010
Beryllium	7440-41-7	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	7440-69-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	7440-42-8	E475/VA	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.1 DLIS
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt		<0.20	<0.20	<0.20	<0.20	<0.23 DLIS
Cadmium	7440-43-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	7440-70-2	E475/VA	20	mg/kg		641	399	446	499	495



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

Client sample ID					25ONG309 FT HLNPS10	25ONG309 FT HLWSS11	25ONG309 FT HLWSS12	25ONG309 FT HLWSS13	25ONG309 FT HLLWS14
Client sampling date / time					10-Sep-2025 00:00	10-Sep-2025 00:00	10-Sep-2025 00:00	10-Sep-2025 00:00	10-Sep-2025 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510954-006	TY2510954-007	TY2510954-008	TY2510954-009	TY2510954-010
					Result	Result	Result	Result	Result
Metals									
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt	129	76.4	90.5	93.1	99.0
Cesium	7440-46-2	E475/VA	0.0050	mg/kg	1.50	0.777	0.705	0.438	1.27
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt	0.304	0.149	0.143	0.0817	0.253
Chromium	7440-47-3	E475/VA	0.20	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt	<0.040	<0.040	<0.040	<0.040	<0.040
Cobalt	7440-48-4	E475/VA	0.020	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Copper	7440-50-8	E475/VA	0.20	mg/kg	0.68	0.77	1.00	0.97	0.48
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt	0.138	0.148	0.203	0.181	0.096
Iron	7439-89-6	E475/VA	5.0	mg/kg	7.6	13.2	23.3	16.2	10.9
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt	1.5	2.5	4.7	3.0	2.2
Lead	7439-92-1	E475/VA	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt	<0.010	<0.010	<0.010	<0.010	<0.010
Lithium	7439-93-2	E475/VA	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	7439-95-4	E475/VA	2.0	mg/kg	1670	1500	2010	1630	1320
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt	338	287	408	304	263
Manganese	7439-96-5	E475/VA	0.050	mg/kg	0.586	0.429	0.494	0.837	0.436
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt	0.118	0.082	0.100	0.156	0.087
Mercury	7439-97-6	E512/VA	0.010	mg/kg	3.78	2.34	1.22	1.12	0.942



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLNPS10	25ONG309 FT HLWSS11	25ONG309 FT HLWSS12	25ONG309 FT HLWSS13	25ONG309 FT HLLWS14
					Client sampling date / time	10-Sep-2025 00:00	10-Sep-2025 00:00	10-Sep-2025 00:00	10-Sep-2025 00:00	10-Sep-2025 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510954-006	TY2510954-007	TY2510954-008	TY2510954-009	TY2510954-010
						Result	Result	Result	Result	Result
Metals										
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt		0.765	0.449	0.248	0.209	0.189
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg		<0.040	<0.040	<0.040	<0.040	<0.040
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel	7440-02-0	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	0.25	<0.20
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	0.047	<0.040
Phosphorus	7723-14-0	E475/VA	20	mg/kg		12000	11000	11000	12300	11200
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt		2430	2100	2230	2300	2240
Potassium	7440-09-7	E475/VA	20	mg/kg		23100	22600	21300	25900	20700
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt		4660	4340	4320	4830	4150
Rubidium	7440-17-7	E475/VA	0.050	mg/kg		46.6	32.3	32.7	24.8	39.0
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt		9.42	6.20	6.63	4.64	7.81
Selenium	7782-49-2	E475/VA	0.10	mg/kg		0.99	1.27	1.28	1.00	1.36
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt		0.199	0.243	0.260	0.187	0.272
Sodium	7440-23-5	E475/VA	20	mg/kg		1510	1860	1620	1080	2750
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt		304	356	329	201	551
Strontium	7440-24-6	E475/VA	0.10	mg/kg		0.37	0.39	0.33	0.33	0.65
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt		0.076	0.074	0.066	0.062	0.130
Tellurium	13494-80-9	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	7440-28-0	E475/VA	0.0020	mg/kg		0.0090	0.0041	0.0043	0.0053	0.0081



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLNPS10 ----	25ONG309 FT HLWSS11 ----	25ONG309 FT HLWSS12 ----	25ONG309 FT HLWSS13 ----	25ONG309 FT HLLWS14 ----
Client sampling date / time						10-Sep-2025 00:00	10-Sep-2025 00:00	10-Sep-2025 00:00	10-Sep-2025 00:00	10-Sep-2025 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510954-006	TY2510954-007	TY2510954-008	TY2510954-009	TY2510954-010
						Result	Result	Result	Result	Result
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt		0.00183	0.00079	0.00088	0.00098	0.00163
Tin	7440-31-5	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Uranium	7440-61-1	E475/VA	0.0020	mg/kg		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Vanadium	7440-62-2	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Zinc	7440-66-6	E475/VA	1.0	mg/kg		16.7	13.1	18.1	15.8	12.9
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt		3.37	2.50	3.68	2.94	2.59
Zirconium	7440-67-7	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg		1850	1090	597	580	380
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt		<0.50	0.56	<0.50	<0.50	<0.50

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



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLNPS15	25ONG309 FT HLNPS16	25ONG309 FT HLNPS17	25ONG309 FT HLNPS18	25ONG309 FT HLWSS19
					Client sampling date / time	10-Sep-2025 00:00	10-Sep-2025 00:00	10-Sep-2025 00:00	10-Sep-2025 16:00	10-Sep-2025 16:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510954-011	TY2510954-012	TY2510954-013	TY2510954-014	TY2510954-015
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.50	%		76.4	77.0	80.2	77.5	79.4
Moisture	----	E144A/VA	2.0	%		76.4	77.0	80.2	77.5	79.4
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg		<5.0	<5.0	<5.0	10.6	<5.0
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt		<1.0	<1.0	<1.0	2.4	<1.0
Antimony	7440-36-0	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Arsenic	7440-38-2	E475/VA	0.050	mg/kg		0.254	0.187	0.581	0.111	0.125
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt		0.060	0.043	0.115	0.025	0.026
Barium	7440-39-3	E475/VA	0.050	mg/kg		0.055	<0.050	<0.050	<0.050	0.066
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt		0.013	<0.010	<0.010	<0.010	0.013
Beryllium	7440-41-7	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	7440-69-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	7440-42-8	E475/VA	1.0	mg/kg		<1.0	<1.0	<1.0	<1.1 ^{DLIS}	<1.0
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt		<0.24 ^{DLIS}	<0.23 ^{DLIS}	<0.21 ^{DLIS}	<0.25 ^{DLIS}	<0.20
Cadmium	7440-43-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	7440-70-2	E475/VA	20	mg/kg		806	598	765	811	409



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLNPS15	25ONG309 FT HLNPS16	25ONG309 FT HLNPS17	25ONG309 FT HLNPS18	25ONG309 FT HLWSS19
					Client sampling date / time	10-Sep-2025 00:00	10-Sep-2025 00:00	10-Sep-2025 00:00	10-Sep-2025 16:00	10-Sep-2025 16:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510954-011	TY2510954-012	TY2510954-013	TY2510954-014	TY2510954-015
						Result	Result	Result	Result	Result
Metals										
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt		190	138	151	182	84.0
Cesium	7440-46-2	E475/VA	0.0050	mg/kg		0.985	0.856	1.57	1.21	0.707
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt		0.233	0.197	0.310	0.272	0.145
Chromium	7440-47-3	E475/VA	0.20	mg/kg		0.78	0.37	<0.20	<0.20	<0.20
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt		0.185	0.084	<0.040	<0.040	<0.040
Cobalt	7440-48-4	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Copper	7440-50-8	E475/VA	0.20	mg/kg		0.51	0.41	0.68	0.47	0.71
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt		0.119	0.095	0.134	0.105	0.145
Iron	7439-89-6	E475/VA	5.0	mg/kg		13.2	9.5	10.5	14.0	12.2
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt		3.1	2.2	2.1	3.1	2.5
Lead	7439-92-1	E475/VA	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt		<0.010	<0.010	<0.010	<0.010	<0.010
Lithium	7439-93-2	E475/VA	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt		<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	7439-95-4	E475/VA	2.0	mg/kg		1430	1400	1580	1550	1500
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt		338	322	313	348	307
Manganese	7439-96-5	E475/VA	0.050	mg/kg		0.394	0.454	0.630	0.568	0.605
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt		0.093	0.105	0.124	0.128	0.124
Mercury	7439-97-6	E512/VA	0.010	mg/kg		3.32	4.42	2.86	3.93	2.85



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLNPS15	25ONG309 FT HLNPS16	25ONG309 FT HLNPS17	25ONG309 FT HLNPS18	25ONG309 FT HLWSS19
					Client sampling date / time	10-Sep-2025 00:00	10-Sep-2025 00:00	10-Sep-2025 00:00	10-Sep-2025 16:00	10-Sep-2025 16:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510954-011	TY2510954-012	TY2510954-013	TY2510954-014	TY2510954-015
						Result	Result	Result	Result	Result
Metals										
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt		0.785	1.02	0.566	0.883	0.586
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg		<0.040	<0.040	<0.040	<0.040	<0.040
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel	7440-02-0	E475/VA	0.20	mg/kg		1.11	<0.20	<0.20	<0.20	<0.20
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt		0.263	<0.040	<0.040	<0.040	<0.040
Phosphorus	7723-14-0	E475/VA	20	mg/kg		10000	10200	13000	10900	10700
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt		2370	2340	2560	2440	2200
Potassium	7440-09-7	E475/VA	20	mg/kg		15100	18900	23900	19600	20700
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt		3570	4360	4730	4390	4260
Rubidium	7440-17-7	E475/VA	0.050	mg/kg		31.4	36.6	47.6	45.2	28.5
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt		7.42	8.43	9.41	10.1	5.85
Selenium	7782-49-2	E475/VA	0.10	mg/kg		0.97	0.88	1.04	0.98	1.05
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt		0.229	0.203	0.206	0.219	0.215
Sodium	7440-23-5	E475/VA	20	mg/kg		2630	1260	2260	1700	2030
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt		623	291	447	381	417
Strontium	7440-24-6	E475/VA	0.10	mg/kg		0.81	0.61	0.66	0.55	0.30
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt		0.192	0.141	0.131	0.124	0.062
Tellurium	13494-80-9	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	7440-28-0	E475/VA	0.0020	mg/kg		0.0086	0.0150	0.0154	0.0153	0.0051



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLNPS15 ----	25ONG309 FT HLNPS16 ----	25ONG309 FT HLNPS17 ----	25ONG309 FT HLNPS18 ----	25ONG309 FT HLWSS19 ----
Client sampling date / time						10-Sep-2025 00:00	10-Sep-2025 00:00	10-Sep-2025 00:00	10-Sep-2025 16:00	10-Sep-2025 16:00
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510954-011	TY2510954-012	TY2510954-013	TY2510954-014	TY2510954-015
						Result	Result	Result	Result	Result
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt		0.00202	0.00346	0.00304	0.00343	0.00104
Tin	7440-31-5	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Uranium	7440-61-1	E475/VA	0.0020	mg/kg		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Vanadium	7440-62-2	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	<0.020
Zinc	7440-66-6	E475/VA	1.0	mg/kg		26.0	14.7	20.3	20.0	12.5
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt		6.15	3.39	4.01	4.48	2.56
Zirconium	7440-67-7	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	<0.040
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg		3130	1860	2670	1860	1420
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt		<0.50	<0.50	<0.50	<0.50	<0.50

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



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLLWS20 ----	25ONG309 FT HLLWS21 ----	25ONG309 FT HLWSS26 ----	25ONG309 FT HLWLS27 ----	----
Client sampling date / time						10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510954-016	TY2510954-017	TY2510954-018	TY2510954-019	----
						Result	Result	Result	Result	----
Physical Tests										
Moisture	----	E144/VA	0.50	%		80.8	80.4	85.4	77.0	----
Moisture	----	E144A/VA	2.0	%		80.8	80.4	85.4	77.0	----
Metals										
Aluminum	7429-90-5	E475/VA	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	----
Aluminum	7429-90-5	E475A/VA	1.0	mg/kg wwt		<1.0	<1.0	<1.0	<1.0	----
Antimony	7440-36-0	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	----
Antimony	7440-36-0	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	----
Arsenic	7440-38-2	E475/VA	0.050	mg/kg		0.442	0.235	0.177	0.171	----
Arsenic	7440-38-2	E475A/VA	0.010	mg/kg wwt		0.085	0.046	0.026	0.039	----
Barium	7440-39-3	E475/VA	0.050	mg/kg		<0.050	<0.050	0.186	<0.050	----
Barium	7440-39-3	E475A/VA	0.010	mg/kg wwt		<0.010	<0.010	0.027	<0.010	----
Beryllium	7440-41-7	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	----
Beryllium	7440-41-7	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	----
Bismuth	7440-69-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	----
Bismuth	7440-69-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	----
Boron	7440-42-8	E475/VA	1.0	mg/kg		<1.1 ^{DLIS}	<1.0	<1.0	<1.0	----
Boron	7440-42-8	E475A/VA	0.20	mg/kg wwt		<0.21 ^{DLIS}	<0.20	<0.20	<0.21 ^{DLIS}	----
Cadmium	7440-43-9	E475/VA	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	----
Cadmium	7440-43-9	E475A/VA	0.0020	mg/kg wwt		<0.0020	<0.0020	<0.0020	<0.0020	----
Calcium	7440-70-2	E475/VA	20	mg/kg		507	537	491	476	----



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

Sub-Matrix: Tissue (Matrix: Biota)					Client sample ID	25ONG309 FT HLLWS20 ----	25ONG309 FT HLLWS21 ----	25ONG309 FT HLWSS26 ----	25ONG309 FT HLWLS27 ----	----
Client sampling date / time					10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	----	
Analyte	CAS Number	Method/Lab	LOR	Unit	TY2510954-016	TY2510954-017	TY2510954-018	TY2510954-019	----	
					Result	Result	Result	Result	----	
Metals										
Calcium	7440-70-2	E475A/VA	4.0	mg/kg wwt	97.3	105	71.7	109	----	
Cesium	7440-46-2	E475/VA	0.0050	mg/kg	1.23	0.332	0.705	0.244	----	
Cesium	7440-46-2	E475A/VA	0.0010	mg/kg wwt	0.236	0.0652	0.103	0.0560	----	
Chromium	7440-47-3	E475/VA	0.20	mg/kg	<0.20	<0.20	<0.20	<0.20	----	
Chromium	7440-47-3	E475A/VA	0.040	mg/kg wwt	<0.040	<0.040	<0.040	<0.040	----	
Cobalt	7440-48-4	E475/VA	0.020	mg/kg	<0.020	<0.020	<0.020	<0.020	----	
Cobalt	7440-48-4	E475A/VA	0.0040	mg/kg wwt	<0.0040	<0.0040	<0.0040	0.0041	----	
Copper	7440-50-8	E475/VA	0.20	mg/kg	0.67	0.53	1.16	0.50	----	
Copper	7440-50-8	E475A/VA	0.040	mg/kg wwt	0.129	0.103	0.169	0.115	----	
Iron	7439-89-6	E475/VA	5.0	mg/kg	11.4	11.3	20.5	13.0	----	
Iron	7439-89-6	E475A/VA	1.0	mg/kg wwt	2.2	2.2	3.0	3.0	----	
Lead	7439-92-1	E475/VA	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	----	
Lead	7439-92-1	E475A/VA	0.010	mg/kg wwt	<0.010	<0.010	<0.010	<0.010	----	
Lithium	7439-93-2	E475/VA	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	----	
Lithium	7439-93-2	E475A/VA	0.10	mg/kg wwt	<0.10	<0.10	<0.10	<0.10	----	
Magnesium	7439-95-4	E475/VA	2.0	mg/kg	1380	1310	1800	1310	----	
Magnesium	7439-95-4	E475A/VA	0.40	mg/kg wwt	265	256	263	302	----	
Manganese	7439-96-5	E475/VA	0.050	mg/kg	0.697	0.432	0.755	0.755	----	
Manganese	7439-96-5	E475A/VA	0.010	mg/kg wwt	0.134	0.085	0.110	0.174	----	
Mercury	7439-97-6	E512/VA	0.010	mg/kg	0.935	1.13	1.11	1.34	----	



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLLWS20 ----	25ONG309 FT HLLWS21 ----	25ONG309 FT HLWSS26 ----	25ONG309 FT HLWLS27 ----	----
Client sampling date / time						10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510954-016	TY2510954-017	TY2510954-018	TY2510954-019	----
						Result	Result	Result	Result	----
Metals										
Mercury	7439-97-6	E512A/VA	0.0020	mg/kg wwt		0.180	0.223	0.162	0.308	----
Molybdenum	7439-98-7	E475/VA	0.040	mg/kg		<0.040	<0.040	<0.040	<0.040	----
Molybdenum	7439-98-7	E475A/VA	0.0080	mg/kg wwt		<0.0080	<0.0080	<0.0080	<0.0080	----
Nickel	7440-02-0	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	----
Nickel	7440-02-0	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	----
Phosphorus	7723-14-0	E475/VA	20	mg/kg		12300	10800	14500	9790	----
Phosphorus	7723-14-0	E475A/VA	4.0	mg/kg wwt		2360	2120	2110	2250	----
Potassium	7440-09-7	E475/VA	20	mg/kg		24600	22100	28700	18200	----
Potassium	7440-09-7	E475A/VA	4.0	mg/kg wwt		4710	4340	4190	4190	----
Rubidium	7440-17-7	E475/VA	0.050	mg/kg		58.9	23.4	32.4	21.1	----
Rubidium	7440-17-7	E475A/VA	0.010	mg/kg wwt		11.3	4.59	4.74	4.86	----
Selenium	7782-49-2	E475/VA	0.10	mg/kg		1.30	1.17	1.26	1.37	----
Selenium	7782-49-2	E475A/VA	0.020	mg/kg wwt		0.249	0.231	0.183	0.315	----
Sodium	7440-23-5	E475/VA	20	mg/kg		1700	2670	2860	2410	----
Sodium	7440-23-5	E475A/VA	4.0	mg/kg wwt		327	524	418	553	----
Strontium	7440-24-6	E475/VA	0.10	mg/kg		0.74	0.86	0.38	0.70	----
Strontium	7440-24-6	E475A/VA	0.020	mg/kg wwt		0.143	0.170	0.056	0.161	----
Tellurium	13494-80-9	E475/VA	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	----
Tellurium	13494-80-9	E475A/VA	0.0040	mg/kg wwt		<0.0040	<0.0040	<0.0040	<0.0040	----
Thallium	7440-28-0	E475/VA	0.0020	mg/kg		0.0110	0.0067	<0.0020	0.0105	----



Analytical Results

Sub-Matrix: Tissue
 (Matrix: Biota)

					Client sample ID	25ONG309 FT HLLWS20 ----	25ONG309 FT HLLWS21 ----	25ONG309 FT HLWSS26 ----	25ONG309 FT HLWLS27 ----	----
Client sampling date / time						10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	10-Sep-2025 16:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit		TY2510954-016	TY2510954-017	TY2510954-018	TY2510954-019	----
						Result	Result	Result	Result	----
Metals										
Thallium	7440-28-0	E475A/VA	0.00040	mg/kg wwt		0.00210	0.00131	<0.00040	0.00241	----
Tin	7440-31-5	E475/VA	0.10	mg/kg		0.13	<0.10	0.17	<0.10	----
Tin	7440-31-5	E475A/VA	0.020	mg/kg wwt		0.024	<0.020	0.025	<0.020	----
Uranium	7440-61-1	E475/VA	0.0020	mg/kg		<0.0020	<0.0020	<0.0020	<0.0020	----
Uranium	7440-61-1	E475A/VA	0.00040	mg/kg wwt		<0.00040	<0.00040	<0.00040	<0.00040	----
Vanadium	7440-62-2	E475/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	----
Vanadium	7440-62-2	E475A/VA	0.020	mg/kg wwt		<0.020	<0.020	<0.020	<0.020	----
Zinc	7440-66-6	E475/VA	1.0	mg/kg		14.6	12.5	14.8	12.4	----
Zinc	7440-66-6	E475A/VA	0.20	mg/kg wwt		2.80	2.46	2.16	2.86	----
Zirconium	7440-67-7	E475/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	----
Zirconium	7440-67-7	E475A/VA	0.040	mg/kg wwt		<0.040	<0.040	<0.040	<0.040	----
Speciated Metals										
Methylmercury (as MeHg)	22967-92-6	E538/VA	5.0	µg/kg		460	482	438	519	----
Aggregate Organics										
Lipid content	----	E564B/VA	0.50	% wwt		<0.50	2.96	<0.50	<0.50	----

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

Quality Control Interpretive Report

Work Order : **TY2510954**

Client : G3 Consulting Ltd.
Contact : Greg Thomas
Address : 206-8501 162nd St.
Surrey BC Canada V4N 1B2
Telephone : 604 598 8501
Project : 2502
PO : 2502
C-O-C number : ----
Sampler : ----
Site : ----
Quote number : Dubreuilville Project
No. of samples received : 19
No. of samples analysed : 19

Laboratory : ALS Environmental - Thunder Bay
Account Manager : Colby Coutu
Address : 1081 Barton Street
Thunder Bay ON Canada P7B 5N3
Telephone : +1 807 623 6463
Date Samples Received : 19-Sep-2025 16:54
Issue Date : 07-Jan-2026 13:50

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 Services 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 Laboratory Control Sample Duplicate (LCSD) outliers occur
- No Matrix Spike outliers occur.
- No Matrix Spike Duplicate (MSD) 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)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- Quality Control Sample Frequency Outliers occur - please see following pages for full details.



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: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Aggregate Organics : Lipids by Gravimetry												
LDPE bag												
25ONG309 FT HLWYS78	001	2351720	E564B	09-Sep-2025	23-Nov-2025	365 days	75 days	✔	26-Nov-2025	365 days	78 days	✔
25ONG309 FT HLWYS79	002	2351720	E564B	09-Sep-2025	23-Nov-2025	365 days	75 days	✔	26-Nov-2025	365 days	78 days	✔
25ONG309 FT HLWYS80	003	2351720	E564B	09-Sep-2025	23-Nov-2025	365 days	75 days	✔	26-Nov-2025	365 days	78 days	✔
25ONG309 FT HLWYS8	004	2351720	E564B	10-Sep-2025	23-Nov-2025	365 days	74 days	✔	26-Nov-2025	365 days	77 days	✔
25ONG309 FT HLWSS9	005	2351720	E564B	10-Sep-2025	23-Nov-2025	365 days	74 days	✔	26-Nov-2025	365 days	77 days	✔
25ONG309 FT HLNPS10	006	2351720	E564B	10-Sep-2025	23-Nov-2025	365 days	74 days	✔	26-Nov-2025	365 days	77 days	✔
25ONG309 FT HLWSS11	007	2351720	E564B	10-Sep-2025	23-Nov-2025	365 days	74 days	✔	26-Nov-2025	365 days	77 days	✔
25ONG309 FT HLWSS12	008	2351720	E564B	10-Sep-2025	23-Nov-2025	365 days	74 days	✔	26-Nov-2025	365 days	77 days	✔
25ONG309 FT HLWSS13	009	2351722	E564B	10-Sep-2025	23-Nov-2025	365 days	74 days	✔	25-Nov-2025	365 days	76 days	✔
25ONG309 FT HLLWS14	010	2351722	E564B	10-Sep-2025	23-Nov-2025	365 days	74 days	✔	25-Nov-2025	365 days	76 days	✔
25ONG309 FT HLNPS15	011	2351722	E564B	10-Sep-2025	23-Nov-2025	365 days	74 days	✔	25-Nov-2025	365 days	76 days	✔
25ONG309 FT HLNPS16	012	2351722	E564B	10-Sep-2025	23-Nov-2025	365 days	74 days	✔	25-Nov-2025	365 days	76 days	✔
25ONG309 FT HLNPS17	013	2351722	E564B	10-Sep-2025	23-Nov-2025	365 days	74 days	✔	25-Nov-2025	365 days	76 days	✔



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Aggregate Organics : Lipids by Gravimetry												
LDPE bag												
25ONG309 FT HLNPS18	014	2351722	E564B	10-Sep-2025	23-Nov-2025	365 days	74 days	✔	25-Nov-2025	365 days	76 days	✔
25ONG309 FT HLWSS19	015	2351722	E564B	10-Sep-2025	23-Nov-2025	365 days	74 days	✔	25-Nov-2025	365 days	76 days	✔
25ONG309 FT HLLWS20	016	2351722	E564B	10-Sep-2025	23-Nov-2025	365 days	74 days	✔	25-Nov-2025	365 days	76 days	✔
25ONG309 FT HLLWS21	017	2351722	E564B	10-Sep-2025	23-Nov-2025	365 days	74 days	✔	25-Nov-2025	365 days	76 days	✔
25ONG309 FT HLWSS26	018	2351722	E564B	10-Sep-2025	23-Nov-2025	365 days	74 days	✔	25-Nov-2025	365 days	76 days	✔
25ONG309 FT HLWLS27	019	2351722	E564B	10-Sep-2025	23-Nov-2025	365 days	74 days	✔	25-Nov-2025	365 days	76 days	✔
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)												
LDPE bag												
25ONG309 FT HLWYS78	001	2369470	E512	09-Sep-2025	05-Dec-2025	365 days	86 days	✔	08-Dec-2025	365 days	90 days	✔
25ONG309 FT HLWYS79	002	2369470	E512	09-Sep-2025	05-Dec-2025	365 days	86 days	✔	08-Dec-2025	365 days	90 days	✔
25ONG309 FT HLWYS80	003	2369470	E512	09-Sep-2025	05-Dec-2025	365 days	86 days	✔	08-Dec-2025	365 days	90 days	✔
25ONG309 FT HLWYS8	004	2369470	E512	10-Sep-2025	05-Dec-2025	365 days	85 days	✔	08-Dec-2025	365 days	89 days	✔
25ONG309 FT HLWSS9	005	2369470	E512	10-Sep-2025	05-Dec-2025	365 days	85 days	✔	08-Dec-2025	365 days	89 days	✔
25ONG309 FT HLNPS10	006	2369470	E512	10-Sep-2025	05-Dec-2025	365 days	85 days	✔	08-Dec-2025	365 days	89 days	✔
25ONG309 FT HLWSS11	007	2369470	E512	10-Sep-2025	05-Dec-2025	365 days	85 days	✔	08-Dec-2025	365 days	89 days	✔
25ONG309 FT HLWSS12	008	2369470	E512	10-Sep-2025	05-Dec-2025	365 days	85 days	✔	08-Dec-2025	365 days	89 days	✔
25ONG309 FT HLWSS13	009	2369470	E512	10-Sep-2025	05-Dec-2025	365 days	85 days	✔	08-Dec-2025	365 days	89 days	✔
25ONG309 FT HLLWS14	010	2369470	E512	10-Sep-2025	05-Dec-2025	365 days	85 days	✔	08-Dec-2025	365 days	89 days	✔



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Metals : Mercury in Biota by CVAAS (DRY units, Biopsy)												
LDPE bag												
25ONG309 FT HLNPS15	011	2369470	E512	10-Sep-2025	05-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLNPS16	012	2369470	E512	10-Sep-2025	05-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLNPS17	013	2369470	E512	10-Sep-2025	05-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLNPS18	014	2369470	E512	10-Sep-2025	05-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLWSS19	015	2369470	E512	10-Sep-2025	05-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLLWS20	016	2369470	E512	10-Sep-2025	05-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLLWS21	017	2369470	E512	10-Sep-2025	05-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLWSS26	018	2369470	E512	10-Sep-2025	05-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLWLS27	019	2369470	E512	10-Sep-2025	05-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	89 days	✓
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)												
LDPE bag												
25ONG309 FT HLWYS78	001	2369467	E512A	09-Sep-2025	05-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	90 days	✓
25ONG309 FT HLWYS79	002	2369467	E512A	09-Sep-2025	05-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	90 days	✓
25ONG309 FT HLWYS80	003	2369467	E512A	09-Sep-2025	05-Dec-2025	365 days	86 days	✓	08-Dec-2025	365 days	90 days	✓
25ONG309 FT HLWYS8	004	2369467	E512A	10-Sep-2025	05-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLWSS9	005	2369467	E512A	10-Sep-2025	05-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLNPS10	006	2369467	E512A	10-Sep-2025	05-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLWSS11	007	2369467	E512A	10-Sep-2025	05-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	89 days	✓



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Metals : Mercury in Biota by CVAAS (Wet Weight, Biopsy)												
LDPE bag												
25ONG309 FT HLWSS12	008	2369467	E512A	10-Sep-2025	05-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLWSS13	009	2369467	E512A	10-Sep-2025	05-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLLWS14	010	2369467	E512A	10-Sep-2025	05-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLNPS15	011	2369467	E512A	10-Sep-2025	05-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLNPS16	012	2369467	E512A	10-Sep-2025	05-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLNPS17	013	2369467	E512A	10-Sep-2025	05-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLNPS18	014	2369467	E512A	10-Sep-2025	05-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLWSS19	015	2369467	E512A	10-Sep-2025	05-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLLWS20	016	2369467	E512A	10-Sep-2025	05-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLLWS21	017	2369467	E512A	10-Sep-2025	05-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLWSS26	018	2369467	E512A	10-Sep-2025	05-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	89 days	✓
25ONG309 FT HLWLS27	019	2369467	E512A	10-Sep-2025	05-Dec-2025	365 days	85 days	✓	08-Dec-2025	365 days	89 days	✓
Metals : Metals by CRC ICPMS (DRY units, Biopsy)												
LDPE bag												
25ONG309 FT HLWYS78	001	2369469	E475	09-Sep-2025	05-Dec-2025	730 days	86 days	✓	05-Dec-2025	730 days	86 days	✓
25ONG309 FT HLWYS79	002	2369469	E475	09-Sep-2025	05-Dec-2025	730 days	86 days	✓	05-Dec-2025	730 days	86 days	✓
25ONG309 FT HLWYS80	003	2369469	E475	09-Sep-2025	05-Dec-2025	730 days	86 days	✓	05-Dec-2025	730 days	86 days	✓
25ONG309 FT HLWYS8	004	2369469	E475	10-Sep-2025	05-Dec-2025	730 days	85 days	✓	05-Dec-2025	730 days	86 days	✓



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Metals : Metals by CRC ICPMS (DRY units, Biopsy)												
LDPE bag												
25ONG309 FT HLWSS9	005	2369469	E475	10-Sep-2025	05-Dec-2025	730 days	85 days	✓	05-Dec-2025	730 days	86 days	✓
25ONG309 FT HLNPS10	006	2369469	E475	10-Sep-2025	05-Dec-2025	730 days	85 days	✓	05-Dec-2025	730 days	86 days	✓
25ONG309 FT HLWSS11	007	2369469	E475	10-Sep-2025	05-Dec-2025	730 days	85 days	✓	05-Dec-2025	730 days	86 days	✓
25ONG309 FT HLWSS12	008	2369469	E475	10-Sep-2025	05-Dec-2025	730 days	85 days	✓	05-Dec-2025	730 days	86 days	✓
25ONG309 FT HLWSS13	009	2369469	E475	10-Sep-2025	05-Dec-2025	730 days	85 days	✓	05-Dec-2025	730 days	86 days	✓
25ONG309 FT HLLWS14	010	2369469	E475	10-Sep-2025	05-Dec-2025	730 days	85 days	✓	05-Dec-2025	730 days	86 days	✓
25ONG309 FT HLNPS15	011	2369469	E475	10-Sep-2025	05-Dec-2025	730 days	85 days	✓	05-Dec-2025	730 days	86 days	✓
25ONG309 FT HLNPS16	012	2369469	E475	10-Sep-2025	05-Dec-2025	730 days	85 days	✓	05-Dec-2025	730 days	86 days	✓
25ONG309 FT HLNPS17	013	2369469	E475	10-Sep-2025	05-Dec-2025	730 days	85 days	✓	05-Dec-2025	730 days	86 days	✓
25ONG309 FT HLNPS18	014	2369469	E475	10-Sep-2025	05-Dec-2025	730 days	85 days	✓	05-Dec-2025	730 days	85 days	✓
25ONG309 FT HLWSS19	015	2369469	E475	10-Sep-2025	05-Dec-2025	730 days	85 days	✓	05-Dec-2025	730 days	85 days	✓
25ONG309 FT HLLWS20	016	2369469	E475	10-Sep-2025	05-Dec-2025	730 days	85 days	✓	05-Dec-2025	730 days	85 days	✓
25ONG309 FT HLLWS21	017	2369469	E475	10-Sep-2025	05-Dec-2025	730 days	85 days	✓	05-Dec-2025	730 days	85 days	✓
25ONG309 FT HLWSS26	018	2369469	E475	10-Sep-2025	05-Dec-2025	730 days	85 days	✓	05-Dec-2025	730 days	85 days	✓
25ONG309 FT HLWLS27	019	2369469	E475	10-Sep-2025	05-Dec-2025	730 days	85 days	✓	05-Dec-2025	730 days	85 days	✓
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)												
LDPE bag												
25ONG309 FT HLWYS78	001	2369468	E475A	09-Sep-2025	05-Dec-2025	730 days	86 days	✓	05-Dec-2025	730 days	87 days	✓



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method						Extraction / Preparation			Analysis				
Container						Preparation Date	Holding Times			Analysis Date	Holding Times		
Client sample ID							Rec	Actual			Rec	Actual	
Metals : Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)													
LDPE bag													
25ONG309 FT HLWYS79	002	2369468	E475A	09-Sep-2025	05-Dec-2025	730 days	86 days	✔	05-Dec-2025	730 days	87 days	✔	
25ONG309 FT HLWYS80	003	2369468	E475A	09-Sep-2025	05-Dec-2025	730 days	86 days	✔	05-Dec-2025	730 days	87 days	✔	
25ONG309 FT HLWYS8	004	2369468	E475A	10-Sep-2025	05-Dec-2025	730 days	85 days	✔	05-Dec-2025	730 days	86 days	✔	
25ONG309 FT HLWSS9	005	2369468	E475A	10-Sep-2025	05-Dec-2025	730 days	85 days	✔	05-Dec-2025	730 days	86 days	✔	
25ONG309 FT HLNPS10	006	2369468	E475A	10-Sep-2025	05-Dec-2025	730 days	85 days	✔	05-Dec-2025	730 days	86 days	✔	
25ONG309 FT HLWSS11	007	2369468	E475A	10-Sep-2025	05-Dec-2025	730 days	85 days	✔	05-Dec-2025	730 days	86 days	✔	
25ONG309 FT HLWSS12	008	2369468	E475A	10-Sep-2025	05-Dec-2025	730 days	85 days	✔	05-Dec-2025	730 days	86 days	✔	
25ONG309 FT HLWSS13	009	2369468	E475A	10-Sep-2025	05-Dec-2025	730 days	85 days	✔	05-Dec-2025	730 days	86 days	✔	
25ONG309 FT HLLWS14	010	2369468	E475A	10-Sep-2025	05-Dec-2025	730 days	85 days	✔	05-Dec-2025	730 days	86 days	✔	
25ONG309 FT HLNPS15	011	2369468	E475A	10-Sep-2025	05-Dec-2025	730 days	85 days	✔	05-Dec-2025	730 days	86 days	✔	
25ONG309 FT HLNPS16	012	2369468	E475A	10-Sep-2025	05-Dec-2025	730 days	85 days	✔	05-Dec-2025	730 days	86 days	✔	
25ONG309 FT HLNPS17	013	2369468	E475A	10-Sep-2025	05-Dec-2025	730 days	85 days	✔	05-Dec-2025	730 days	86 days	✔	
25ONG309 FT HLNPS18	014	2369468	E475A	10-Sep-2025	05-Dec-2025	730 days	85 days	✔	05-Dec-2025	730 days	86 days	✔	
25ONG309 FT HLWSS19	015	2369468	E475A	10-Sep-2025	05-Dec-2025	730 days	85 days	✔	05-Dec-2025	730 days	86 days	✔	
25ONG309 FT HLLWS20	016	2369468	E475A	10-Sep-2025	05-Dec-2025	730 days	85 days	✔	05-Dec-2025	730 days	86 days	✔	
25ONG309 FT HLLWS21	017	2369468	E475A	10-Sep-2025	05-Dec-2025	730 days	85 days	✔	05-Dec-2025	730 days	86 days	✔	
25ONG309 FT HLWSS26	018	2369468	E475A	10-Sep-2025	05-Dec-2025	730 days	85 days	✔	05-Dec-2025	730 days	86 days	✔	
25ONG309 FT HLWLS27	019	2369468	E475A	10-Sep-2025	05-Dec-2025	730 days	85 days	✔	05-Dec-2025	730 days	86 days	✔	



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method					Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
Client sample ID						Rec	Actual			Rec	Actual	
Physical Tests : Moisture Content by Gravimetry												
LDPE bag												
25ONG309 FT HLWYS78	001	2369492	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLWYS79	002	2369492	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLWYS80	003	2369492	E144	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLWYS8	004	2369492	E144	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLWSS9	005	2369492	E144	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLNPS10	006	2369492	E144	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLWSS11	007	2369492	E144	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLWSS12	008	2369492	E144	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLWSS13	009	2369492	E144	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLLWS14	010	2369492	E144	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLNPS15	011	2369492	E144	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLNPS16	012	2369492	E144	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLNPS17	013	2369492	E144	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLNPS18	014	2369492	E144	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLWSS19	015	2369492	E144	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLLWS20	016	2369492	E144	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLLWS21	017	2369492	E144	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLWSS26	018	2369492	E144	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLWLS27	019	2369492	E144	10-Sep-2025	----	----	----		04-Dec-2025	----	----	



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Physical Tests : Moisture Content by Gravimetry (Biopsy)												
LDPE bag												
25ONG309 FT HLWYS78	001	2369033	E144A	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLWYS79	002	2369033	E144A	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLWYS80	003	2369033	E144A	09-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLWYS8	004	2369033	E144A	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLWSS9	005	2369033	E144A	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLNPS10	006	2369033	E144A	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLWSS11	007	2369033	E144A	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLWSS12	008	2369033	E144A	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLWSS13	009	2369033	E144A	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLLWS14	010	2369033	E144A	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLNPS15	011	2369033	E144A	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLNPS16	012	2369033	E144A	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLNPS17	013	2369033	E144A	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLNPS18	014	2369033	E144A	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLWSS19	015	2369033	E144A	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLLWS20	016	2369033	E144A	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLLWS21	017	2369033	E144A	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLWSS26	018	2369033	E144A	10-Sep-2025	----	----	----		04-Dec-2025	----	----	
25ONG309 FT HLWLS27	019	2369033	E144A	10-Sep-2025	----	----	----		04-Dec-2025	----	----	



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
Container					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Client sample ID												
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)												
LDPE bag												
25ONG309 FT HLWYS78	001	2361757	E538	09-Sep-2025	02-Dec-2025	365 days	83 days	✔	02-Dec-2025	365 days	0 days	✔
25ONG309 FT HLWYS79	002	2361757	E538	09-Sep-2025	02-Dec-2025	365 days	83 days	✔	02-Dec-2025	365 days	0 days	✔
25ONG309 FT HLWYS80	003	2361757	E538	09-Sep-2025	02-Dec-2025	365 days	83 days	✔	02-Dec-2025	365 days	0 days	✔
25ONG309 FT HLWYS8	004	2361757	E538	10-Sep-2025	02-Dec-2025	365 days	82 days	✔	02-Dec-2025	365 days	0 days	✔
25ONG309 FT HLWSS9	005	2361757	E538	10-Sep-2025	02-Dec-2025	365 days	82 days	✔	02-Dec-2025	365 days	0 days	✔
25ONG309 FT HLNPS10	006	2361757	E538	10-Sep-2025	02-Dec-2025	365 days	82 days	✔	02-Dec-2025	365 days	0 days	✔
25ONG309 FT HLWSS11	007	2361757	E538	10-Sep-2025	02-Dec-2025	365 days	82 days	✔	02-Dec-2025	365 days	0 days	✔
25ONG309 FT HLWSS12	008	2361757	E538	10-Sep-2025	02-Dec-2025	365 days	82 days	✔	02-Dec-2025	365 days	0 days	✔
25ONG309 FT HLWSS13	009	2361757	E538	10-Sep-2025	02-Dec-2025	365 days	82 days	✔	02-Dec-2025	365 days	0 days	✔
25ONG309 FT HLLWS14	010	2396508	E538	10-Sep-2025	02-Dec-2025	365 days	82 days	✔	02-Dec-2025	365 days	0 days	✔
25ONG309 FT HLNPS15	011	2361757	E538	10-Sep-2025	02-Dec-2025	365 days	82 days	✔	02-Dec-2025	365 days	0 days	✔
25ONG309 FT HLNPS16	012	2361757	E538	10-Sep-2025	02-Dec-2025	365 days	82 days	✔	02-Dec-2025	365 days	0 days	✔
25ONG309 FT HLNPS17	013	2361757	E538	10-Sep-2025	02-Dec-2025	365 days	82 days	✔	02-Dec-2025	365 days	0 days	✔
25ONG309 FT HLNPS18	014	2361757	E538	10-Sep-2025	02-Dec-2025	365 days	82 days	✔	02-Dec-2025	365 days	0 days	✔
25ONG309 FT HLWSS19	015	2361757	E538	10-Sep-2025	02-Dec-2025	365 days	82 days	✔	02-Dec-2025	365 days	0 days	✔
25ONG309 FT HLLWS20	016	2361757	E538	10-Sep-2025	02-Dec-2025	365 days	82 days	✔	02-Dec-2025	365 days	0 days	✔
25ONG309 FT HLLWS21	017	2361757	E538	10-Sep-2025	02-Dec-2025	365 days	82 days	✔	02-Dec-2025	365 days	0 days	✔
25ONG309 FT HLWSS26	018	2361757	E538	10-Sep-2025	02-Dec-2025	365 days	82 days	✔	02-Dec-2025	365 days	0 days	✔



Matrix: Biota

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method						Extraction / Preparation			Analysis				
Container						Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
Client sample ID							Rec	Actual			Rec	Actual	
Speciated Metals : Methylmercury in Biota by GCAFS (DRY units, Routine)													
LDPE bag													
25ONG309 FT HLWLS27	019	2361757	E538	10-Sep-2025	02-Dec-2025	365 days	82 days	✓	02-Dec-2025	365 days	0 days	✓	

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: Biota

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)							
Moisture Content by Gravimetry	E144	2369492	0	19	0.0	5.0	✖
Methylmercury in Biota by GCAFS (DRY units, Routine)	E538	2361757	2	38	5.3	5.0	✔
Lipids by Gravimetry	E564B	2351720	2	31	6.5	5.0	✔
Laboratory Control Samples (LCS)							
Moisture Content by Gravimetry	E144	2369492	1	19	5.3	5.0	✔
Moisture Content by Gravimetry (Biopsy)	E144A	2369033	1	19	5.3	5.0	✔
Metals by CRC ICPMS (DRY units, Biopsy)	E475	2369469	2	19	10.5	10.0	✔
Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)	E475A	2369468	2	19	10.5	10.0	✔
Mercury in Biota by CVAAS (DRY units, Biopsy)	E512	2369470	2	19	10.5	10.0	✔
Mercury in Biota by CVAAS (Wet Weight, Biopsy)	E512A	2369467	2	19	10.5	10.0	✔
Methylmercury in Biota by GCAFS (DRY units, Routine)	E538	2361757	4	38	10.5	10.0	✔
Lipids by Gravimetry	E564B	2351720	2	31	6.5	5.0	✔
Method Blanks (MB)							
Moisture Content by Gravimetry	E144	2369492	1	19	5.3	5.0	✔
Moisture Content by Gravimetry (Biopsy)	E144A	2369033	1	19	5.3	5.0	✔
Metals by CRC ICPMS (DRY units, Biopsy)	E475	2369469	1	19	5.3	5.0	✔
Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)	E475A	2369468	1	19	5.3	5.0	✔
Mercury in Biota by CVAAS (DRY units, Biopsy)	E512	2369470	1	19	5.3	5.0	✔
Mercury in Biota by CVAAS (Wet Weight, Biopsy)	E512A	2369467	1	19	5.3	5.0	✔
Methylmercury in Biota by GCAFS (DRY units, Routine)	E538	2361757	2	38	5.3	5.0	✔
Lipids by Gravimetry	E564B	2351720	2	31	6.5	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
Lipids by Gravimetry	E564B ALS Environmental - Thunder Bay	Biota	EPA 8290A (mod)	Lipids are extracted from the sample, after which the extract is evaporated in a pre-weighed container and the mass of the residue is determined gravimetrically.
Mercury in Biota by CVAAS (DRY units, Biopsy)	E512 ALS Environmental - Thunder Bay	Biota	EPA 200.3/1631 Appendix (mod)	Samples are digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Analysis is by CVAAS.
Mercury in Biota by CVAAS (Wet Weight, Biopsy)	E512A ALS Environmental - Thunder Bay	Biota	EPA 200.3/1631 Appendix (mod)	Samples are homogenized digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Analysis is by CVAAS.
Metals by CRC ICPMS (DRY units, Biopsy)	E475 ALS Environmental - Thunder Bay	Biota	EPA 200.3/6020B (mod)	Samples are digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Analysis is by Collision/Reaction Cell ICPMS: This method employs a strong acid/peroxide digestion, and is intended to provide a conservative estimate of bio-available metals. Near complete recoveries are achieved for most toxicologically important metals, but elements associated with recalcitrant minerals may be only partially recovered.
Metals in Biota by CRC ICPMS (Wet Weight, Biopsy)	E475A ALS Environmental - Thunder Bay	Biota	EPA 200.3/6020B (mod)	Samples are digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Analysis is by Collision/Reaction Cell ICPMS. Method Limitation: This method employs a strong acid/peroxide digestion, and is intended to provide a conservative estimate of bio-available metals. Near complete recoveries are achieved for most toxicologically important metals, but elements associated with recalcitrant minerals may be only partially recovered.
Methylmercury in Biota by GCAFS (DRY units, Routine)	E538 ALS Environmental - Thunder Bay	Biota	Liang et al. (1994)/EPA 1630 (mod)	This method follows the procedures published by Liang, Bloom and Horvat in Clinical Chemistry (Vol 40, No 4, 1994). Samples are homogenized and then digested in a methanolic potassium hydroxide solution. An aliquot of the digestate is analyzed by aqueous phase ethylation, purge and trap, desorption and GC separation. The separated species are then pyrolyzed to elemental Hg and quantified by cold vapour atomic fluorescence spectroscopy. Results are reported "as MeHg".
Moisture Content by Gravimetry	E144 ALS Environmental - Thunder Bay	Biota	ASTM Method D4638-16 (mod)	Moisture is measured gravimetrically by drying the sample at 105°C. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
Moisture Content by Gravimetry (Biopsy)	E144A ALS Environmental - Thunder Bay	Biota	ASTM Method D4638-16 (mod)	Moisture is measured gravimetrically by drying the sample at <60°C for a minimum of 3 days to constant weight. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Lipids Extraction by Tumbler	EP564 ALS Environmental - Thunder Bay	Biota	EPA 3570 (mod)	A homogenized biota sample is extracted with dichloromethane by a rotary extractor to yield sample's lipid content.
Metals and Mercury Biota Digestion (Biopsy)	EP475 ALS Environmental - Thunder Bay	Biota	EPA 200.3/200.8 (mod)	Samples are digested with nitric acid, hydrochloric acid, and hydrogen peroxide. Method Limitation: This method employs a strong acid/peroxide digestion, and is intended to provide a conservative estimate of bio-available metals. Near complete recoveries are achieved for most toxicologically important metals, but elements associated with recalcitrant minerals may be only partially recovered.
Methylmercury Biota Preparation	EP538 ALS Environmental - Thunder Bay	Biota	Liang et al. (1994)	This method follows the procedures published by Liang, Bloom and Horvat in Clinical Chemistry (Vol 40, No 4, 1994). Samples are homogenized and then digested in a methanolic potassium hydroxide solution.

QUALITY CONTROL REPORT

Work Order	: TY2510954	Page	: 1 of 10
Client	: G3 Consulting Ltd.	Laboratory	: ALS Environmental - Thunder Bay
Contact	: Greg Thomas	Account Manager	: Colby Coutu
Address	: 206-8501 162nd St. Surrey BC Canada V4N 1B2	Address	: 1081 Barton Street Thunder Bay, Ontario Canada P7B 5N3
Telephone	: 604 598 8501	Telephone	: +1 807 623 6463
Project	: 2502	Date Samples Received	: 19-Sep-2025 16:54
PO	: 2502	Date Analysis Commenced	: 23-Nov-2025
C-O-C number	: ----	Issue Date	: 07-Jan-2026 13:50
Sampler	: ----		
Site	: ----		
Quote number	: Dubreuilville Project		
No. of samples received	: 19		
No. of samples analysed	: 19		

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
- Reference Material (RM) 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
Brianna Allen	Production/Validation Manager	Vancouver Organics, Burnaby, British Columbia
Cesar Mora	Lab Assistant	Vancouver Metals, Burnaby, British Columbia
Dan Gebert	Supervisor - Metals Mercury & Speciation	Vancouver Metals, Burnaby, British Columbia
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Vancouver Metals, Burnaby, British Columbia
Shahrzad Firoozbakht	Lab Assistant	Vancouver Metals, Burnaby, British Columbia



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: Biota					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
Speciated Metals (QC Lot: 2361757)											
TY2510954-001	25ONG309 FT HLWYS78	Methylmercury (as MeHg)	22967-92-6	E538	5.0	µg/kg	1230	1340	8.61%	30%	----
Speciated Metals (QC Lot: 2396508)											
TY2510952-001	Anonymous	Methylmercury (as MeHg)	22967-92-6	E538	5.0	µg/kg	961	922	4.18%	30%	----
Aggregate Organics (QC Lot: 2351720)											
TY2510952-022	Anonymous	Lipid content	----	E564B	0.50	% wwt	<0.50	<0.50	0	Diff <2x LOR	----
Aggregate Organics (QC Lot: 2351722)											
TY2510954-012	25ONG309 FT HLNPS16	Lipid content	----	E564B	0.50	% wwt	<0.50	<0.50	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: Biota

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 2369033)						
Moisture	---	E144A	2	%	<2.0	---
Physical Tests (QCLot: 2369492)						
Moisture	---	E144	0.5	%	<0.50	---
Metals (QCLot: 2369467)						
Mercury	7439-97-6	E512A	0.002	mg/kg wwt	<0.0020	---
Metals (QCLot: 2369468)						
Aluminum	7429-90-5	E475A	1	mg/kg wwt	<1.0	---
Antimony	7440-36-0	E475A	0.004	mg/kg wwt	<0.0040	---
Arsenic	7440-38-2	E475A	0.01	mg/kg wwt	<0.010	---
Barium	7440-39-3	E475A	0.01	mg/kg wwt	<0.010	---
Beryllium	7440-41-7	E475A	0.002	mg/kg wwt	<0.0020	---
Bismuth	7440-69-9	E475A	0.002	mg/kg wwt	<0.0020	---
Boron	7440-42-8	E475A	0.2	mg/kg wwt	<0.20	---
Cadmium	7440-43-9	E475A	0.002	mg/kg wwt	<0.0020	---
Calcium	7440-70-2	E475A	4	mg/kg wwt	<4.0	---
Cesium	7440-46-2	E475A	0.001	mg/kg wwt	<0.0010	---
Chromium	7440-47-3	E475A	0.04	mg/kg wwt	<0.040	---
Cobalt	7440-48-4	E475A	0.004	mg/kg wwt	<0.0040	---
Copper	7440-50-8	E475A	0.04	mg/kg wwt	<0.040	---
Iron	7439-89-6	E475A	1	mg/kg wwt	<1.0	---
Lead	7439-92-1	E475A	0.01	mg/kg wwt	<0.010	---
Lithium	7439-93-2	E475A	0.1	mg/kg wwt	<0.10	---
Magnesium	7439-95-4	E475A	0.4	mg/kg wwt	<0.40	---
Manganese	7439-96-5	E475A	0.01	mg/kg wwt	<0.010	---
Molybdenum	7439-98-7	E475A	0.008	mg/kg wwt	<0.0080	---
Nickel	7440-02-0	E475A	0.04	mg/kg wwt	<0.040	---
Phosphorus	7723-14-0	E475A	4	mg/kg wwt	<4.0	---
Potassium	7440-09-7	E475A	4	mg/kg wwt	<4.0	---
Rubidium	7440-17-7	E475A	0.01	mg/kg wwt	<0.010	---
Selenium	7782-49-2	E475A	0.02	mg/kg wwt	<0.020	---
Sodium	7440-23-5	E475A	4	mg/kg wwt	<4.0	---



Sub-Matrix: Biota

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 2369468) - continued						
Strontium	7440-24-6	E475A	0.02	mg/kg wwt	<0.020	----
Tellurium	13494-80-9	E475A	0.004	mg/kg wwt	<0.0040	----
Thallium	7440-28-0	E475A	0.0004	mg/kg wwt	<0.00040	----
Tin	7440-31-5	E475A	0.02	mg/kg wwt	<0.020	----
Uranium	7440-61-1	E475A	0.0004	mg/kg wwt	<0.00040	----
Vanadium	7440-62-2	E475A	0.02	mg/kg wwt	<0.020	----
Zinc	7440-66-6	E475A	0.2	mg/kg wwt	<0.20	----
Zirconium	7440-67-7	E475A	0.04	mg/kg wwt	<0.040	----
Metals (QCLot: 2369469)						
Aluminum	7429-90-5	E475	5	mg/kg	<5.0	----
Antimony	7440-36-0	E475	0.02	mg/kg	<0.020	----
Arsenic	7440-38-2	E475	0.05	mg/kg	<0.050	----
Barium	7440-39-3	E475	0.05	mg/kg	<0.050	----
Beryllium	7440-41-7	E475	0.01	mg/kg	<0.010	----
Bismuth	7440-69-9	E475	0.01	mg/kg	<0.010	----
Boron	7440-42-8	E475	1	mg/kg	<1.0	----
Cadmium	7440-43-9	E475	0.01	mg/kg	<0.010	----
Calcium	7440-70-2	E475	20	mg/kg	<20	----
Cesium	7440-46-2	E475	0.005	mg/kg	<0.0050	----
Chromium	7440-47-3	E475	0.2	mg/kg	<0.20	----
Cobalt	7440-48-4	E475	0.02	mg/kg	<0.020	----
Copper	7440-50-8	E475	0.2	mg/kg	<0.20	----
Iron	7439-89-6	E475	5	mg/kg	<5.0	----
Lead	7439-92-1	E475	0.05	mg/kg	<0.050	----
Lithium	7439-93-2	E475	0.5	mg/kg	<0.50	----
Magnesium	7439-95-4	E475	2	mg/kg	<2.0	----
Manganese	7439-96-5	E475	0.05	mg/kg	<0.050	----
Molybdenum	7439-98-7	E475	0.04	mg/kg	<0.040	----
Nickel	7440-02-0	E475	0.2	mg/kg	<0.20	----
Phosphorus	7723-14-0	E475	20	mg/kg	<20	----
Potassium	7440-09-7	E475	20	mg/kg	<20	----
Rubidium	7440-17-7	E475	0.05	mg/kg	<0.050	----
Selenium	7782-49-2	E475	0.1	mg/kg	<0.10	----
Sodium	7440-23-5	E475	20	mg/kg	<20	----
Strontium	7440-24-6	E475	0.1	mg/kg	<0.10	----



Sub-Matrix: Biota

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 2369469) - continued						
Tellurium	13494-80-9	E475	0.02	mg/kg	<0.020	----
Thallium	7440-28-0	E475	0.002	mg/kg	<0.0020	----
Tin	7440-31-5	E475	0.1	mg/kg	<0.10	----
Uranium	7440-61-1	E475	0.002	mg/kg	<0.0020	----
Vanadium	7440-62-2	E475	0.1	mg/kg	<0.10	----
Zinc	7440-66-6	E475	1	mg/kg	<1.0	----
Zirconium	7440-67-7	E475	0.2	mg/kg	<0.20	----
Metals (QCLot: 2369470)						
Mercury	7439-97-6	E512	0.01	mg/kg	<0.010	----
Speciated Metals (QCLot: 2361757)						
Methylmercury (as MeHg)	22967-92-6	E538	5	µg/kg	<5.0	----
Speciated Metals (QCLot: 2396508)						
Methylmercury (as MeHg)	22967-92-6	E538	5	µg/kg	<5.0	----
Aggregate Organics (QCLot: 2351720)						
Lipid content	----	E564B	0.5	% wwt	<0.50	----
Aggregate Organics (QCLot: 2351722)						
Lipid content	----	E564B	0.5	% wwt	<0.50	----



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: Biota

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 2369033)									
Moisture	----	E144A	2	%	100 %	101	90.0	110	----
Physical Tests (QCLot: 2369492)									
Moisture	----	E144	0.5	%	100 %	101	90.0	110	----
Metals (QCLot: 2369467)									
Mercury	7439-97-6	E512A	0.002	mg/kg wwt	0.05 mg/kg wwt	105	80.0	120	----
Metals (QCLot: 2369468)									
Aluminum	7429-90-5	E475A	1	mg/kg wwt	50 mg/kg wwt	108	80.0	120	----
Antimony	7440-36-0	E475A	0.004	mg/kg wwt	25 mg/kg wwt	103	80.0	120	----
Arsenic	7440-38-2	E475A	0.01	mg/kg wwt	25 mg/kg wwt	104	80.0	120	----
Barium	7440-39-3	E475A	0.01	mg/kg wwt	6.25 mg/kg wwt	105	80.0	120	----
Beryllium	7440-41-7	E475A	0.002	mg/kg wwt	2.5 mg/kg wwt	102	80.0	120	----
Bismuth	7440-69-9	E475A	0.002	mg/kg wwt	25 mg/kg wwt	105	80.0	120	----
Boron	7440-42-8	E475A	0.2	mg/kg wwt	25 mg/kg wwt	104	80.0	120	----
Cadmium	7440-43-9	E475A	0.002	mg/kg wwt	2.5 mg/kg wwt	103	80.0	120	----
Calcium	7440-70-2	E475A	4	mg/kg wwt	1250 mg/kg wwt	105	80.0	120	----
Cesium	7440-46-2	E475A	0.001	mg/kg wwt	1.25 mg/kg wwt	110	80.0	120	----
Chromium	7440-47-3	E475A	0.04	mg/kg wwt	6.25 mg/kg wwt	106	80.0	120	----
Cobalt	7440-48-4	E475A	0.004	mg/kg wwt	6.25 mg/kg wwt	105	80.0	120	----
Copper	7440-50-8	E475A	0.04	mg/kg wwt	6.25 mg/kg wwt	102	80.0	120	----
Iron	7439-89-6	E475A	1	mg/kg wwt	25 mg/kg wwt	105	80.0	120	----
Lead	7439-92-1	E475A	0.01	mg/kg wwt	12.5 mg/kg wwt	106	80.0	120	----
Lithium	7439-93-2	E475A	0.1	mg/kg wwt	6.25 mg/kg wwt	112	80.0	120	----
Magnesium	7439-95-4	E475A	0.4	mg/kg wwt	1250 mg/kg wwt	110	80.0	120	----
Manganese	7439-96-5	E475A	0.01	mg/kg wwt	6.25 mg/kg wwt	106	80.0	120	----
Molybdenum	7439-98-7	E475A	0.008	mg/kg wwt	6.25 mg/kg wwt	110	80.0	120	----
Nickel	7440-02-0	E475A	0.04	mg/kg wwt	12.5 mg/kg wwt	102	80.0	120	----
Phosphorus	7723-14-0	E475A	4	mg/kg wwt	250 mg/kg wwt	107	80.0	120	----
Potassium	7440-09-7	E475A	4	mg/kg wwt	1250 mg/kg wwt	108	80.0	120	----
Rubidium	7440-17-7	E475A	0.01	mg/kg wwt	2.5 mg/kg wwt	107	80.0	120	----
Selenium	7782-49-2	E475A	0.02	mg/kg wwt	25 mg/kg wwt	99.5	80.0	120	----
Sodium	7440-23-5	E475A	4	mg/kg wwt	1250 mg/kg wwt	113	80.0	120	----
Strontium	7440-24-6	E475A	0.02	mg/kg wwt	6.25 mg/kg wwt	106	80.0	120	----



Sub-Matrix: Biota

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 2369468) - continued									
Tellurium	13494-80-9	E475A	0.004	mg/kg wwt	2.5 mg/kg wwt	101	80.0	120	----
Thallium	7440-28-0	E475A	0.0004	mg/kg wwt	25 mg/kg wwt	104	80.0	120	----
Tin	7440-31-5	E475A	0.02	mg/kg wwt	12.5 mg/kg wwt	105	80.0	120	----
Uranium	7440-61-1	E475A	0.0004	mg/kg wwt	0.125 mg/kg wwt	110	80.0	120	----
Vanadium	7440-62-2	E475A	0.02	mg/kg wwt	12.5 mg/kg wwt	109	80.0	120	----
Zinc	7440-66-6	E475A	0.2	mg/kg wwt	12.5 mg/kg wwt	100	80.0	120	----
Zirconium	7440-67-7	E475A	0.04	mg/kg wwt	2.5 mg/kg wwt	112	80.0	120	----
Metals (QCLot: 2369469)									
Aluminum	7429-90-5	E475	5	mg/kg	50 mg/kg	108	80.0	120	----
Antimony	7440-36-0	E475	0.02	mg/kg	25 mg/kg	103	80.0	120	----
Arsenic	7440-38-2	E475	0.05	mg/kg	25 mg/kg	104	80.0	120	----
Barium	7440-39-3	E475	0.05	mg/kg	6.25 mg/kg	105	80.0	120	----
Beryllium	7440-41-7	E475	0.01	mg/kg	2.5 mg/kg	102	80.0	120	----
Bismuth	7440-69-9	E475	0.01	mg/kg	25 mg/kg	105	80.0	120	----
Boron	7440-42-8	E475	1	mg/kg	25 mg/kg	104	80.0	120	----
Cadmium	7440-43-9	E475	0.01	mg/kg	2.5 mg/kg	103	80.0	120	----
Calcium	7440-70-2	E475	20	mg/kg	1250 mg/kg	105	80.0	120	----
Cesium	7440-46-2	E475	0.005	mg/kg	1.25 mg/kg	110	80.0	120	----
Chromium	7440-47-3	E475	0.2	mg/kg	6.25 mg/kg	106	80.0	120	----
Cobalt	7440-48-4	E475	0.02	mg/kg	6.25 mg/kg	105	80.0	120	----
Copper	7440-50-8	E475	0.2	mg/kg	6.25 mg/kg	102	80.0	120	----
Iron	7439-89-6	E475	5	mg/kg	25 mg/kg	105	80.0	120	----
Lead	7439-92-1	E475	0.05	mg/kg	12.5 mg/kg	106	80.0	120	----
Lithium	7439-93-2	E475	0.5	mg/kg	6.25 mg/kg	112	80.0	120	----
Magnesium	7439-95-4	E475	2	mg/kg	1250 mg/kg	110	80.0	120	----
Manganese	7439-96-5	E475	0.05	mg/kg	6.25 mg/kg	106	80.0	120	----
Molybdenum	7439-98-7	E475	0.04	mg/kg	6.25 mg/kg	110	80.0	120	----
Nickel	7440-02-0	E475	0.2	mg/kg	12.5 mg/kg	102	80.0	120	----
Phosphorus	7723-14-0	E475	20	mg/kg	250 mg/kg	107	80.0	120	----
Potassium	7440-09-7	E475	20	mg/kg	1250 mg/kg	108	80.0	120	----
Rubidium	7440-17-7	E475	0.05	mg/kg	2.5 mg/kg	107	80.0	120	----
Selenium	7782-49-2	E475	0.1	mg/kg	25 mg/kg	99.5	80.0	120	----
Sodium	7440-23-5	E475	20	mg/kg	1250 mg/kg	113	80.0	120	----
Strontium	7440-24-6	E475	0.1	mg/kg	6.25 mg/kg	106	80.0	120	----
Tellurium	13494-80-9	E475	0.02	mg/kg	2.5 mg/kg	101	80.0	120	----
Thallium	7440-28-0	E475	0.002	mg/kg	25 mg/kg	104	80.0	120	----



Sub-Matrix: Biota

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 2369469) - continued									
Tin	7440-31-5	E475	0.1	mg/kg	12.5 mg/kg	105	80.0	120	----
Uranium	7440-61-1	E475	0.002	mg/kg	0.125 mg/kg	110	80.0	120	----
Vanadium	7440-62-2	E475	0.1	mg/kg	12.5 mg/kg	109	80.0	120	----
Zinc	7440-66-6	E475	1	mg/kg	12.5 mg/kg	100	80.0	120	----
Zirconium	7440-67-7	E475	0.2	mg/kg	2.5 mg/kg	112	80.0	120	----
Metals (QCLot: 2369470)									
Mercury	7439-97-6	E512	0.01	mg/kg	0.05 mg/kg	105	80.0	120	----
Speciated Metals (QCLot: 2361757)									
Methylmercury (as MeHg)	22967-92-6	E538	5	µg/kg	100 µg/kg	76.5	70.0	130	----
Speciated Metals (QCLot: 2396508)									
Methylmercury (as MeHg)	22967-92-6	E538	5	µg/kg	100 µg/kg	100.0	70.0	130	----
Aggregate Organics (QCLot: 2351720)									
Lipid content	----	E564B	0.5	% wwt	100 % wwt	96.0	70.0	130	----
Aggregate Organics (QCLot: 2351722)									
Lipid content	----	E564B	0.5	% wwt	99 % wwt	91.5	70.0	130	----



Reference Material (RM) Report

A Reference Material (RM) is a homogenous material with known and well-established analyte concentrations. RMs are processed in an identical manner to test samples, and are used to monitor and control the accuracy and precision of a test method for a typical sample matrix. RM results are expressed as percent recovery of the target analyte concentration. RM targets may be certified target concentrations provided by the RM supplier, or may be ALS long-term mean values (for empirical test methods).

Sub-Matrix:

Sub-Matrix:					Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method					
Metals (QCLot: 2369467)									
QC-2369467-003	RM	Mercury	7439-97-6	E512A	0.281 mg/kg wwt	107	70.0	130	----
Metals (QCLot: 2369468)									
QC-2369468-003	RM	Aluminum	7429-90-5	E475A	147 mg/kg wwt	89.7	70.0	130	----
QC-2369468-003	RM	Arsenic	7440-38-2	E475A	14.5 mg/kg wwt	95.7	70.0	130	----
QC-2369468-003	RM	Barium	7440-39-3	E475A	0.352 mg/kg wwt	102	70.0	130	----
QC-2369468-003	RM	Boron	7440-42-8	E475A	3.47 mg/kg wwt	91.8	70.0	130	----
QC-2369468-003	RM	Cadmium	7440-43-9	E475A	0.153 mg/kg wwt	95.7	70.0	130	----
QC-2369468-003	RM	Calcium	7440-70-2	E475A	2010 mg/kg wwt	104	70.0	130	----
QC-2369468-003	RM	Cesium	7440-46-2	E475A	0.089 mg/kg wwt	104	70.0	130	----
QC-2369468-003	RM	Copper	7440-50-8	E475A	3.3 mg/kg wwt	95.3	70.0	130	----
QC-2369468-003	RM	Iron	7439-89-6	E475A	102 mg/kg wwt	93.9	70.0	130	----
QC-2369468-003	RM	Lead	7439-92-1	E475A	0.058 mg/kg wwt	100	15.0	185	----
QC-2369468-003	RM	Magnesium	7439-95-4	E475A	899 mg/kg wwt	100	70.0	130	----
QC-2369468-003	RM	Manganese	7439-96-5	E475A	0.948 mg/kg wwt	99.8	70.0	130	----
QC-2369468-003	RM	Molybdenum	7439-98-7	E475A	0.134 mg/kg wwt	104	70.0	130	----
QC-2369468-003	RM	Phosphorus	7723-14-0	E475A	6700 mg/kg wwt	102	70.0	130	----
QC-2369468-003	RM	Potassium	7440-09-7	E475A	11600 mg/kg wwt	102	70.0	130	----
QC-2369468-003	RM	Rubidium	7440-17-7	E475A	2.53 mg/kg wwt	99.5	70.0	130	----
QC-2369468-003	RM	Selenium	7782-49-2	E475A	2.48 mg/kg wwt	102	70.0	130	----
QC-2369468-003	RM	Sodium	7440-23-5	E475A	9620 mg/kg wwt	103	70.0	130	----
QC-2369468-003	RM	Strontium	7440-24-6	E475A	10.6 mg/kg wwt	101	70.0	130	----
QC-2369468-003	RM	Vanadium	7440-62-2	E475A	0.269 mg/kg wwt	92.3	70.0	130	----
QC-2369468-003	RM	Zinc	7440-66-6	E475A	28.7 mg/kg wwt	102	70.0	130	----
Metals (QCLot: 2369469)									
QC-2369469-003	RM	Aluminum	7429-90-5	E475	147 mg/kg	89.7	70.0	130	----
QC-2369469-003	RM	Arsenic	7440-38-2	E475	14.5 mg/kg	95.7	70.0	130	----
QC-2369469-003	RM	Barium	7440-39-3	E475	0.352 mg/kg	102	70.0	130	----
QC-2369469-003	RM	Boron	7440-42-8	E475	3.47 mg/kg	91.8	70.0	130	----
QC-2369469-003	RM	Cadmium	7440-43-9	E475	0.153 mg/kg	95.7	70.0	130	----
QC-2369469-003	RM	Calcium	7440-70-2	E475	2010 mg/kg	104	70.0	130	----
QC-2369469-003	RM	Cesium	7440-46-2	E475	0.089 mg/kg	104	70.0	130	----
QC-2369469-003	RM	Copper	7440-50-8	E475	3.3 mg/kg	95.3	70.0	130	----
QC-2369469-003	RM	Iron	7439-89-6	E475	102 mg/kg	93.9	70.0	130	----



Sub-Matrix:					Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method					
Metals (QCLot: 2369469) - continued									
QC-2369469-003	RM	Lead	7439-92-1	E475	0.058 mg/kg	100	15.0	185	----
QC-2369469-003	RM	Magnesium	7439-95-4	E475	899 mg/kg	100	70.0	130	----
QC-2369469-003	RM	Manganese	7439-96-5	E475	0.948 mg/kg	99.8	70.0	130	----
QC-2369469-003	RM	Molybdenum	7439-98-7	E475	0.134 mg/kg	104	70.0	130	----
QC-2369469-003	RM	Phosphorus	7723-14-0	E475	6700 mg/kg	102	70.0	130	----
QC-2369469-003	RM	Potassium	7440-09-7	E475	11600 mg/kg	102	70.0	130	----
QC-2369469-003	RM	Rubidium	7440-17-7	E475	2.53 mg/kg	99.5	70.0	130	----
QC-2369469-003	RM	Selenium	7782-49-2	E475	2.48 mg/kg	102	70.0	130	----
QC-2369469-003	RM	Sodium	7440-23-5	E475	9620 mg/kg	103	70.0	130	----
QC-2369469-003	RM	Strontium	7440-24-6	E475	10.6 mg/kg	101	70.0	130	----
QC-2369469-003	RM	Vanadium	7440-62-2	E475	0.269 mg/kg	92.3	70.0	130	----
QC-2369469-003	RM	Zinc	7440-66-6	E475	28.7 mg/kg	102	70.0	130	----
Metals (QCLot: 2369470)									
QC-2369470-003	RM	Mercury	7439-97-6	E512	0.281 mg/kg	107	70.0	130	----
Speciated Metals (QCLot: 2361757)									
QC-2361757-003	RM	Methylmercury (as MeHg)	22967-92-6	E538	266 µg/kg	88.7	70.0	130	----
Speciated Metals (QCLot: 2396508)									
QC-2396508-003	RM	Methylmercury (as MeHg)	22967-92-6	E538	266 µg/kg	94.3	70.0	130	----



COC Number: 22 -

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Canada Toll Free: 1 800 668 9878

Environmental Division
Thunder Bay
Work Order Reference
TY2510954



Telephone : +1 807 623 6463

[illegible]

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW CQC form**

JAN 30 1993



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Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

COC Number: 22 -

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Report To Contact and company name below will appear on the final report		Reports / Recipients		Turnaround Time (TAT) Requested																																													
Company:	G3 Consulting Ltd.	Select Report Format:	☒ PDF ☒ EXCEL ☐ EDD (DIGITAL)	☒ Routine (R) if received by 3pm M-F - no surcharges apply	AFFIX ALS BARCODE LABEL HERE (ALS use only)																																												
Contact:	Greg Thomas	Merge QC/QC Reports with COA	☒ YES ☐ NO ☐ N/A	☐ 1 day (P1) if received by 3pm M-F - 25% rush surcharge minimum																																													
Phone:	604-598-8501	☒ Compare Results to Criteria on Report - provide details below if box checked		☐ 3 day (P3) if received by 3pm M-F - 25% rush surcharge minimum																																													
Company address below will appear on the final report		Select Distribution:	☒ EMAIL ☐ MAIL ☐ FAX	☐ 2 day (P2) if received by 3pm M-F - 50% rush surcharge minimum																																													
Street:	206-8501 162 St	Email 1 or Fax:	kalfonso@g3consulting.com; cwilson@g3consulting.com	☐ 1 day (E) if received by 3pm M-F - 100% rush surcharge minimum																																													
City/Province:	Surrey, BC	Email 2:	sqwashie@g3consulting.com; rfranel@g3consulting.com	☐ Same day (E2) if received by 10am M-S - 200% rush surcharge																																													
Postal Code:	V4N 1B2	Email 3:	gthomas@g3consulting.com; mtylo@g3consulting.com	Additional fees may apply to rush requests on weekends, statutory holidays and for non-routine tests.																																													
Invoice To:	Same as Report To ☐ YES ☒ NO	Invoice Recipients		Date and Time Required for all E&P TATs: dd-mm-yy hh:mm am/pm																																													
Copy of Invoice with Report:	☐ YES ☒ NO	Select Invoice Distribution:	☒ EMAIL ☐ MAIL ☐ FAX	For all tests with rush TATs requested, please contact your AM to confirm availability.																																													
Company:	G3 Consulting Ltd.	Email 1 or Fax:	sjohnson@g3consulting.com	Analysis Request																																													
Contact:		Email 2:	info@g3consulting.com	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below																																													
Project Information		Oil and Gas Required Fields (client use)		<table border="1"> <tr> <th rowspan="4">NUMBER OF CONTAINERS</th> <th colspan="10"></th> <th rowspan="4">SAMPLES ON HOLD</th> <th rowspan="4">EXTENDED STORAGE REQUIRED</th> <th rowspan="4">SUSPECTED HAZARD (see notes)</th> </tr> <tr> <th colspan="10"></th> </tr> <tr> <th colspan="10"></th> </tr> <tr> <th colspan="10"></th> </tr> </table>		NUMBER OF CONTAINERS											SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)																														
NUMBER OF CONTAINERS											SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)																																				
ALS Account # / Quote #:	G3CO100 / WT2025G3CO1000001	AFE/Coat Center:	PO#																																														
Job #:	2502	Major/Minor Code:	Routing Code:																																														
PO / AFE:	2502	Requisitioner:																																															
LSD:		Location:																																															
ALS Lab Work Order # (ALS use only):		ALS Contact:	Sampler:																																														
ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type																																													
4	25ONG309 FT HLWYSB	10-Sept-2025		Biota/Tissue	R R R R																																												
5	25ONG309 FT HLWSS9	-Sept-2025		Biota/Tissue	R R																																												
6	25ONG309 FT HLNPS10	-Sept-2025		Biota/Tissue	R R																																												
7	25ONG309 FT HLWSS11	-Sept-2025		Biota/Tissue	R R																																												
8	25ONG309 FT HLWSS12	-Sept-2025		Biota/Tissue	R R																																												
9	25ONG309 FT HLWSS13	-Sept-2025		Biota/Tissue	R R																																												
10	25ONG309 FT HLWSS14	-Sept-2025		Biota/Tissue	R R																																												
11	25ONG309 FT HLNPS15	-Sept-2025		Biota/Tissue	R R																																												
12	25ONG309 FT HLNPS16	-Sept-2025		Biota/Tissue	R R																																												
13	25ONG309 FT HLNPS17	-Sept-2025		Biota/Tissue	R R																																												
14	25ONG309 FT HLNPS18	10-Sept-2025	16:00	Biota/Tissue	R R																																												
15	25ONG309 FT HLWSS19	-Sept-2025		Biota/Tissue	R R																																												
16	25ONG309 FT HLWSS20	-Sept-2025		Biota/Tissue	R R																																												
17	25ONG309 FT HLWSS21	-Sept-2025		Biota/Tissue	R R																																												
Drinking Water (DW) Samples¹ (client use)		Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)																																															
Are samples taken from a Regulated DW System? ☐ YES ☐ NO																																																	
Are samples for human consumption/ use? ☐ YES ☐ NO																																																	
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (ALS use only)																																															
Released by:	Date:	Time:	Received by:	Date:	Time:																																												
FINAL SHIPMENT RECEPTION (ALS use only)																																																	
Received by:		Date:	Time:																																														

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

JAN 2017 PRINT

Intake and Login Verification Form

SAMPLE INTAKE						ACCOUNT INFO VERIFICATION			
Priority/Emergency Service Requested		YES		NO		Priority/Emergency Service Requested		YES ☒ NO ☒	
Time Sensitive Hold Time		YES		NO		Confirmed all as accurate as per COC, Sample Remarks or PM			
Client:						Client		Work Contact	
								Quote	
SAMPLE RECEIPT INFORMATION						RECEIPT DETAIL			
Mode of Delivery:		Courier		Drop Off		Project		PO	
Courier						Site/LSD		N	
Waybill Number						Overall Description Entered		Yes ☒ NA ☒	
Temperature				Cooler Count		Received date/time as per COC			
Cooling Method		None		Ice		Recipients match CoC or Sample Remarks		Yes ☒ No ☒	
				Ice Packs		Billing Instruction added to remarks		Yes ☒ NA ☒	
SAMPLE MATRIX/BOTTLE INFORMATION						Sample Remarks/Specification Doc checked			
Matrix:		Water		Soil		Air		Biota	
								Other	
DW Schedule 24 Bottles Correct?		Yes		No		Submission Issues communicated		Yes ☒ NA ☒	
DW Metals pH Check <2		Yes		No		Sample Info communicated via Remarks		Yes ☒ NA ☒	
Regulation Circled, Works # present		Yes		No - Reject?		VERIFICATION CHECKLIST			
# of Bottles:		1		Sample Count		19		Planned Event Submission	
Green/white						Sample Name entered as per CoC		Yes ☒ No ☒	
Purple/white						Sampling Date and time entered as per CoC		✓	
Warm red/white						Containers selected in layout order		✓	
Yellow/black						Sales items entered from QUOTE ONLY (and/or verified as correct)		✓	
Light blue/white						Field Data/EC298A removed if not on COC		Yes ☒ NA ☒	
Orange/black						Bottle Allocation Verified		✓	
Others (detail)		19 Fish Issues				Guideline added or auto-allocated		✓	
Comments on Samples and Bottles:		Lair 2 fr - HLEW 3526, HCWL 527 not on COC, received Sept 10				Due dates updated		✓	
Samples Requiring Preservation or Filtering:						VALIDATION			
Layout Staff Initials		AC				Validation errors resolved?		Yes ☒ No ☒	
Date and Time of Layout		25-Sep-25 / 0:00				Internal Sublet CoC created		Yes ☒ NA ☒	
						Login Comments:			
						Login Staff Initials:			

APPENDIX 6

IAAC Decision Statement

Decision Statement
Issued under Section 54 of the *Canadian Environmental Assessment Act, 2012*

to
Prodigy Gold Incorporated
c/o Kyle Stanfield, Director Environment and Community Relations

3 Dree Road, Box 209
Dubreuilville, ONTARIO
POS 1B0

for the
Magino Gold Project

Description of the Designated Project

Prodigy Gold Incorporated, a wholly-owned subsidiary of Argonaut Gold Incorporated, is proposing the construction, operation, decommissioning and abandonment of an open-pit gold mine and metal mill located 14 kilometres south-east of Dubreuilville, Ontario. Mining would occur over 10 years with an ore production capacity of 45 200 tonnes per day. The on-site metal mill would have an ore input capacity of 35 000 tonnes per day and would operate for approximately 12 to 15 years.

Conduct of the environmental assessment

The Canadian Environmental Assessment Agency (the Agency) conducted an environmental assessment of the Designated Project in accordance with the requirements of the *Canadian Environmental Assessment Act, 2012*. The Agency commenced the environmental assessment on September 3, 2013, and submitted its report to me in my capacity as Minister of Environment and Climate Change.

Decision on environmental effects referred to in subsection 5(1) of the *Canadian Environmental Assessment Act, 2012*

In accordance with paragraph 52(1)(a) of the *Canadian Environmental Assessment Act, 2012*, after considering the report of the Agency on the Designated Project and the implementation of mitigation measures that I consider appropriate, I have determined that the Designated Project is not likely to cause significant adverse environmental effects referred to in subsection 5(1) of the *Canadian Environmental Assessment Act, 2012*.

In accordance with subsection 53(1) of the *Canadian Environmental Assessment Act, 2012*, I have established the conditions below in relation to the environmental effects referred to in subsection 5(1) of the *Canadian Environmental Assessment Act, 2012*, with which the Proponent must comply.

Decision on environmental effects referred to in subsection 5(2) of the *Canadian Environmental Assessment Act, 2012*

The carrying out of the Designated Project may require the following federal authorities to exercise a power or perform a duty or function conferred on them under an Act of Parliament other than the *Canadian Environmental Assessment Act, 2012*:

- The Minister of Fisheries and Oceans may issue authorization(s) under paragraph 35(2)(b) of the *Fisheries Act*;
- The Minister of Environment and Climate Change may propose an amendment under Schedule 2 of the *Metal and Diamond Mining Effluent Regulations*;
- The Minister of Transport may issue an exemption by order under section 24 of the *Navigation Protection Act*; and
- The Minister of Natural Resources may issue a licence under subsection 7(1) of the *Explosives Act*.

In accordance with paragraph 52(1)(b) of the *Canadian Environmental Assessment Act, 2012*, after considering the report of the Agency on the Designated Project and the implementation of mitigation measures that I consider appropriate, I have determined that the Designated Project is not likely to cause significant adverse environmental effects referred to in subsection 5(2) of the *Canadian Environmental Assessment Act, 2012*.

In accordance with subsection 53(2) of the *Canadian Environmental Assessment Act, 2012*, I have established the conditions below in relation to the environmental effects referred to in subsection 5(2) of the *Canadian Environmental Assessment Act, 2012*, with which the Proponent must comply.

Consultation with Indigenous groups

In establishing the conditions below in relation to the environmental effects referred to in subsections 5(1) and 5(2) of the *Canadian Environmental Assessment Act, 2012*, I took into account the concerns and interests identified in the consultation process with Indigenous groups. I also considered the measures to address these concerns and interests that have been identified in the environmental assessment and consultation processes. I am satisfied that the consultation process undertaken is consistent with the honour of the Crown and, with the conditions I have established, that the concerns and interests of Indigenous groups are appropriately accommodated for the purpose of issuing this Decision Statement.

1 Definitions

- 1.1 *Agency* means the Canadian Environmental Assessment Agency.
- 1.2 *Baseline* means the environmental conditions prior to initiating construction of the Designated Project as described in the Environmental Impact Statement.
- 1.3 *Construction* means the phase of the Designated Project during which the Proponent undertakes the site preparation, building or installation of any components of the Designated Project, including periods during which these activities may temporarily cease.
- 1.4 *Contact water* means water which has come into contact with any mine site components.

- 1.5 *Days* means calendar days.
- 1.6 *Decommissioning* means the phase of the Designated Project during which the Proponent permanently ceases commercial production and commences removal from service of any components of the Designated Project, and that continues until the Proponent completes the reclamation of the site of the Designated Project and the open-pit lake is connected with Goudreau Lake.
- 1.7 *Designated Project* means the Magino Gold Project as described in section 2 of the environmental assessment report prepared by the Canadian Environmental Assessment Agency (Canadian Environmental Assessment Registry Reference Number 80044, Document Number 46) and the Supplemental Impact Assessment Report for the Magino Gold Project prepared by Prodigy Gold Incorporated (Canadian Environmental Assessment Registry Reference Number 80044; Document Number 60).
- 1.8 *Effluent* means “effluent” as defined in subsection 1(1) of the *Metal and Diamond Mining Effluent Regulations*.
- 1.9 *Environment and Climate Change Canada* means the Department of the Environment as established under subsection 2(1) of the *Department of the Environment Act*.
- 1.10 *Environmental assessment* means “environmental assessment” as defined in subsection 2(1) of the *Canadian Environmental Assessment Act, 2012*.
- 1.11 *Environmental effects* means “environmental effects” as described in section 5 of the *Canadian Environmental Assessment Act, 2012*.
- 1.12 *Environmental Impact Statement* means the June 2017 document entitled *Environmental Impact Statement* (Canadian Environmental Assessment Registry Reference Number 80044, Document Number 19).
- 1.13 *Fish* means “fish” as defined in subsection 2(1) of the *Fisheries Act*.
- 1.14 *Fish habitat* means “fish habitat” as defined in subsection 2(1) of the *Fisheries Act*.
- 1.15 *Fisheries and Oceans Canada* means the Department of Fisheries and Oceans as established under subsection 2(1) of the *Department of Fisheries and Oceans Act*.
- 1.16 *Follow-up program* means “follow-up program” as defined in subsection 2(1) of the *Canadian Environmental Assessment Act, 2012*.
- 1.17 *Heritage value* means the aesthetic, historic, scientific, cultural, social or spiritual importance or significance for past, present or future generations.
- 1.18 *Indigenous groups* means the following Aboriginal Peoples: Batchewana First Nation, Garden River First Nation, the Métis Nation of Ontario, Michipicoten First Nation, Missanabie Cree First Nation and the Red Sky Métis Independent Nation.

- 1.19 *Listed species at risk* means a species that is listed on the List of Wildlife Species at Risk set out in Schedule 1 of the *Species at Risk Act*.
- 1.20 *Migratory bird* means “migratory bird” as defined in subsection 2(1) of the *Migratory Birds Convention Act, 1994*.
- 1.21 *Mitigation measures* means “mitigation measures” as defined in subsection 2(1) of the *Canadian Environmental Assessment Act, 2012*.
- 1.22 *Offsetting plan* means “offsetting plan” as defined in section 1 of the *Applications for Authorization under paragraph 35(2)(b) of the Fisheries Act Regulations* and “compensation plan” as described in subsection 27.1 of the *Metal and Diamond Mining Effluent Regulations*.
- 1.23 *Operation* means the phase of the Designated Project during which the commercial production takes place, including periods during which commercial production may temporarily cease, and which continues until the start of decommissioning.
- 1.24 *Progressive reclamation* means reclamation which is carried out by the Proponent concurrently with all phases of the Designated Project to progressively return any physically disturbed areas to a state as close to the baseline as possible, as soon after the disturbance as practical.
- 1.25 *Project study area* means the area labelled “project study area” by the Proponent on figure 4-9 of the Environmental Impact Statement.
- 1.26 *Proponent* means Prodigy Gold Incorporated and its successors or assigns.
- 1.27 *Qualified individual* means someone who, through education, experience and knowledge relevant to a particular matter, may be relied on by the Proponent to provide advice within his or her area of expertise. Knowledge relevant to a particular matter may include community and Indigenous traditional knowledge.
- 1.28 *Record* means “record” as defined in subsection 2(1) of the *Canadian Environmental Assessment Act, 2012*.
- 1.29 *Relevant authorities* means federal and/or provincial authorities that are in possession of specialist or expert information or knowledge, or that have a responsibility for the administration of a law or regulation, with respect to the subject matter of a condition set out in this Decision Statement.
- 1.30 *Reporting year* means January 1 of a calendar year through December 31 of the same calendar year.
- 1.31 *Serious harm* means “serious harm” as defined in subsection 2(2) of the *Fisheries Act*.
- 1.32 *Structure, site or thing of historical, archeological, paleontological or architectural significance* means a structure, site or thing that is determined by a qualified individual, on the basis of heritage value, to be associated with an aspect of the history or culture of the people of Canada, including Indigenous groups.

- 1.33 *Wetland* means land saturated with water long enough to promote formation of water altered soils, growth of water-tolerant vegetation and various kinds of biological activity that is adapted to the wet environment.

Conditions

These conditions are established for the sole purpose of the Decision Statement issued under the *Canadian Environmental Assessment Act, 2012*. They do not relieve the Proponent from any obligation to comply with other legislative or other legal requirements of the federal, provincial, or local governments. Nothing in this Decision Statement shall be construed as reducing, increasing, or otherwise affecting what may be required of the Proponent to comply with all applicable legislative or legal requirements.

2 General conditions

- 2.1 The Proponent shall ensure that its actions in meeting the conditions set out in this Decision Statement during all phases of the Designated Project are considered in a careful and precautionary manner, promote sustainable development, are informed by the best information and knowledge available at the time the Proponent takes action, including community and Indigenous traditional knowledge, are based on methods and models that are recognized by standard-setting bodies, are undertaken by qualified individuals, and have applied the best available economically and technically feasible technologies.

Consultation

- 2.2 The Proponent shall, where consultation is a requirement of a condition set out in this Decision Statement:
- 2.2.1 provide a written notice of the opportunity for the party or parties being consulted to present their views and information on the subject of the consultation;
 - 2.2.2 provide all information available and relevant on the scope and the subject matter of the consultation and a period of time taking into account the views of the party or parties being consulted, not to be less than 15 days, to prepare their views and information;
 - 2.2.3 undertake an impartial consideration of all views and information presented by the party or parties being consulted on the subject matter of the consultation; and
 - 2.2.4 advise in a timely manner the party or parties being consulted on how the views and information received have been considered by the Proponent.
- 2.3 The Proponent shall, where consultation with Indigenous groups is a requirement of a condition set out in this Decision Statement, communicate with each Indigenous group with respect to the manner to satisfy the consultation requirements referred to in condition 2.2, including methods of notification, the type of information and the period of time to be provided when seeking input, the process to be used by the Proponent to undertake impartial consideration of all views and information presented on the subject of the consultation, and the period of time and the means to advise Indigenous groups of how their views and information were considered by the Proponent.

Follow-up and adaptive management

- 2.4 The Proponent shall, where a follow-up program is a requirement of a condition set out in this Decision Statement, determine, as part of the development of each follow-up program and in consultation with the party or parties being consulted during the development, the following information:
 - 2.4.1 the methodology, location, frequency, timing and duration of monitoring associated with the follow-up program;
 - 2.4.2 the scope, content and frequency of reporting of the results of the follow-up program;
 - 2.4.3 the levels of environmental change relative to baseline conditions that would require the Proponent to implement modified or additional mitigation measure(s), including instances where the Proponent may require Designated Project activities to be stopped; and
 - 2.4.4 the technically and economically feasible mitigation measures to be implemented by the Proponent if monitoring conducted as part of the follow-up program shows that the levels of environmental change referred to in condition 2.4.3 have been reached or exceeded and the timing for implementing the modified or additional mitigation measures.
- 2.5 The Proponent shall maintain the information referred to in condition 2.4 during the implementation of each follow-up program in consultation with the party or parties being consulted during the development of each follow-up program.
- 2.6 The Proponent shall provide the follow-up programs referred to in conditions 3.16, 3.17, 3.18, 3.19, 4.4, 4.5, 5.3, 5.4, 6.5, 6.6, 7.2 and 7.3 to the Agency and to the party or parties being consulted during the development of each follow-up program prior to the implementation of each follow-up program. The Proponent shall also provide any update(s) to the Agency and to the party or parties being consulted during the development of each follow-up program within 30 days of the follow-up program being updated.
- 2.7 The Proponent shall, where a follow-up program is a requirement of a condition set out in this Decision Statement and in consultation with the party or parties being consulted during the development of the follow-up program:
 - 2.7.1 conduct the follow-up program according to the information determined pursuant to condition 2.4;
 - 2.7.2 undertake monitoring and analysis to verify the accuracy of the environmental assessment as it pertains to the particular condition and/or to determine the effectiveness of any mitigation measure(s);
 - 2.7.3 determine whether modified or additional mitigation measures are required based on the monitoring and analysis undertaken pursuant to condition 2.7.2; and
 - 2.7.4 if modified or additional mitigation measures are required pursuant to condition 2.7.3, develop and implement these mitigation measures in a timely manner and monitor them pursuant to condition 2.7.2.
- 2.8 Where consultation with Indigenous groups is a requirement of a follow-up program, the Proponent shall discuss with each Indigenous group opportunities for their participation in the

development and implementation of the follow-up program, including the analysis of the follow-up results and whether modified or additional mitigation measures are required, as set out in condition 2.7.

Annual reporting

- 2.9 The Proponent shall, commencing in the reporting year during which the Proponent begins the implementation of the conditions set out in this Decision Statement, prepare an annual report that sets out:
- 2.9.1 the activities undertaken by the Proponent in the reporting year to comply with each of the conditions set out in this Decision Statement;
 - 2.9.2 how the Proponent complied with condition 2.1;
 - 2.9.3 for conditions set out in this Decision Statement for which consultation is a requirement, how the Proponent considered any views and information that the Proponent received during or as a result of the consultation;
 - 2.9.4 the information referred to in conditions 2.4 and 2.5 for each follow-up program;
 - 2.9.5 the results of the follow-up program requirements identified in conditions 3.16, 3.17, 3.18, 3.19, 4.4, 4.5, 5.3, 5.4, 6.5, 6.6, 7.2 and 7.3;
 - 2.9.6 any modified or additional mitigation measures implemented or proposed to be implemented by the Proponent, as determined under condition 2.7;
 - 2.9.7 any change(s) to the Designated Project in the reporting year for which the Proponent determined that condition 2.14 did not apply.
- 2.10 The Proponent shall submit to the Agency the annual report referred to in condition 2.9, including a plain language executive summary in both official languages, no later than March 31 following the reporting year to which the annual report applies.

Information sharing

- 2.11 The Proponent shall publish on the Internet, or any medium which is publicly available, the annual reports and the executive summaries referred to in conditions 2.9 and 2.10, the offsetting plan(s) referred to in condition 3.14, the reports related to accidents and malfunctions referred to in conditions 8.4.2 and 8.4.3, the communication plans referred to in conditions 6.1 and 8.5, the schedules referred to in conditions 9.1, and 9.2, and any update(s) or revision(s) to the above documents, upon submission of these documents to the parties referenced in the respective conditions. The Proponent shall keep these documents publicly available for 25 years following the end of operation, or until the end of decommissioning of the Designated Project, whichever comes first. The Proponent shall notify the Agency and Indigenous groups of the availability of these documents within 48 hours of their publication.
- 2.12 When the development of a plan is a requirement of a condition set out in this Decision Statement, the Proponent shall submit the plan to the Agency prior to construction, unless otherwise required through the condition.

Change of Proponent

- 2.13 The Proponent shall notify the Agency and Indigenous groups in writing no later than 30 days after the day on which there is a transfer of ownership, care, control or management of the Designated Project in whole or in part.

Change to the Designated Project

- 2.14 If the Proponent is proposing to carry out the Designated Project in a manner other than described in condition 1.7, the Proponent shall notify the Agency in writing in advance of carrying out the proposed activities. As part of the notification, the Proponent shall provide:
- 2.14.1 a description of the proposed change(s) to the Designated Project and the environmental effects that may result from the proposed change(s);
 - 2.14.2 any modified or additional measure to mitigate any environmental effect that may result from the proposed change(s) and any modified or additional follow-up requirement; and
 - 2.14.3 an explanation of how, taking into account any modified or additional mitigation measure referred to in condition 2.14.2, the environmental effects that may result from the proposed change(s) may differ from the environmental effects of the Designated Project identified during the environmental assessment.
- 2.15 The Proponent shall provide to the Agency any additional information required by the Agency about the proposed change(s) referred to in condition 2.14, which may include the results of consultation with Indigenous groups and relevant authorities on the proposed change(s) and environmental effects referred to in condition 2.14.1 and the modified or additional mitigation measures and follow-up requirements referred to in condition 2.14.2.

3 Fish and fish habitat

- 3.1 The Proponent shall develop, prior to construction, and implement, during all phases of the Designated Project, measures to control erosion and sedimentation within the project study area. The Proponent shall submit these measures to the Agency before implementing them. Among other measures, the Proponent shall:
- 3.1.1 use ditches and diversion berms to maintain stream bank stability; and
 - 3.1.2 use physical barriers to reduce runoff from disturbed areas.
- 3.2 The Proponent shall comply with the *Metal and Diamond Mining Effluent Regulations* and the pollution prevention provisions of the *Fisheries Act*.
- 3.3 The Proponent shall collect, during construction and operation, contact water for reuse in Designated Project activities, and treat excess contact water that cannot be reused.
- 3.4 The Proponent shall control the flow at which excess water referred to in condition 3.3 is discharged to limit disturbance of lake bed material.
- 3.5 The Proponent shall install, prior to operation, and use a cyanide destruction circuit during operation to reduce cyanide concentrations in tailings before the tailings are directed to the tailings management facility.

- 3.6 The Proponent shall, after the end of operation and until the open-pit lake is filled, collect and direct contact water to the open-pit lake.
- 3.7 The Proponent shall, prior to operation, implement seepage control measures at the tailings management facility and maintain these measures during operation and decommissioning.
- 3.8 The proponent shall not connect the open-pit lake until such time as water in the open-pit lake complies with the pollution prevention provisions of the *Fisheries Act*.
- 3.9 The Proponent shall treat water taking into account the Canadian Council of Ministers of the Environment's *Canadian Water Quality Guidelines for Protection of Aquatic Life*.
- 3.10 The Proponent shall develop, prior to the start of blasting activities in or near water and in consultation with Indigenous groups, and implement, during blasting activities in or near water, mitigation measures to avoid or prevent adverse effects to fish and fish habitat from the use of explosives in a manner consistent with the *Fisheries Act* and its regulations. When developing these measures, the Proponent shall take into account Fisheries and Oceans Canada's *Measures to avoid causing harm to fish and fish habitat including aquatic species at risk* as it pertains to the use of explosives in or near water. The Proponent shall submit these measures to the Agency before implementing them.
- 3.11 The Proponent shall conduct in-water construction activities during timing windows of least risk for the area, unless otherwise agreed to by relevant federal and provincial authorities. If in-water construction activities cannot be conducted during identified timing windows of least risk, the Proponent shall develop and implement additional mitigation measures, in consultation with Indigenous groups and Fisheries and Oceans Canada, to protect fish during sensitive life stages.
- 3.12 The Proponent shall salvage and relocate fish prior to conducting any Designated Project activity requiring removal of fish habitat in a manner consistent with any license issued under the *Fisheries Act* and its regulations. The Proponent shall salvage and relocate fish in consultation with Indigenous groups and to the satisfaction of Fisheries and Oceans Canada and other relevant authorities.
- 3.13 The Proponent shall design, install and operate the water intake structures in Goudreau Lake in a manner which reduces the incidental capture of fish by entrainment and impingement through the use of an appropriately sized fish screen, taking into account Fisheries and Oceans Canada's *Freshwater Intake End-of-Pipe Fish Screen Guideline* and in a manner consistent with the *Fisheries Act* and its regulations.
- 3.14 The Proponent shall develop, to the satisfaction of Fisheries and Oceans Canada and Environment and Climate Change Canada and in consultation with Indigenous groups, any offsetting plan(s) related to any residual serious harm to fish associated with the carrying out of the Designated Project. The Proponent shall implement the plan. The Proponent shall submit any approved offsetting plan(s) to the Agency prior to implementation.
- 3.15 The Proponent shall, for any fish habitat offsetting measure(s) proposed in any offsetting plan(s) referred to in condition 3.14 that may cause adverse environmental effects not considered in the environmental assessment, develop and implement, following consultation with Indigenous groups, Fisheries and Oceans Canada and Environment and Climate Change Canada, measures to

mitigate those effects. The Proponent shall submit these measures to the Agency before implementing them.

- 3.16 The Proponent shall develop, prior to the start of blasting activities in or near water and in consultation with Indigenous groups and relevant authorities, a follow-up program to determine the effectiveness of the mitigation measures as it pertains to the adverse environmental effects on fish and fish habitat, including spawning habitat, caused by blasting. The Proponent shall implement the follow-up program during blasting activities. As part of the implementation of the follow-up program, the Proponent shall:
- 3.16.1 monitor instantaneous pressure and particle velocity during the first blasting event;
 - 3.16.2 if results of the monitoring referred to in condition 3.16.1 indicate an instantaneous pressure change greater than 100 kiloPascals in the swimbladder of fish or that blasting produces a peak particle velocity greater than 13 millimetre per second in a spawning bed, develop, prior to the next blasting event and in consultation with relevant authorities, modified or additional mitigation measures pursuant to condition 2.7 in order to protect fish and fish habitat, including spawning habitat; and
 - 3.16.3 implement the modified or additional mitigation measures referred to in condition 3.16.2 during all subsequent blasting events. The Proponent shall submit these measures to the Agency before implementing them.
- 3.17 The Proponent shall develop, prior to construction and in consultation with Indigenous groups and relevant authorities, a follow-up program to determine the effectiveness of the mitigation measures for the salvage and relocation of fish and as it pertains to the incidental capture of fish by entrainment and impingement from the Designated Project. The Proponent shall implement the follow-up program during all phases of the Designated Project.
- 3.18 The Proponent shall develop, prior to construction and in consultation with Indigenous groups and relevant authorities, a follow-up program to verify the accuracy of the environmental assessment and to determine the effectiveness of the mitigation measures as it pertains to adverse environmental effects on fish and fish habitat caused by changes in water and sediment quality in Otto Lake and Herman Lake. The Proponent shall implement the follow-up program during all phases of the Designated Project, including the environmental effects monitoring requirements set out in Schedule 5 of the *Metal and Diamond Mining Effluent Regulations*. As part of the implementation of the follow-up program, the Proponent shall:
- 3.18.1 monitor, at least quarterly, concentrations of total phosphorus, mercury, copper, silver, sulphate and ammonia in water during operation;
 - 3.18.2 monitor, at least annually, concentrations of copper, arsenic, cadmium, manganese, mercury and total phosphorus in sediments during operation;
 - 3.18.3 monitor fish health through fish tissue sampling and fish population studies. Monitoring shall include lower trophic level indicator species and shall include monitoring of fish abundance, fish population structure and other fish health metrics that shall be determined in consultation in Indigenous groups and relevant authorities. The Proponent shall conduct monitoring for one year prior to operation and at least twice a year for the first three years of operation and shall:

- 3.18.3.1 if the results of monitoring during the first three years of operation demonstrate that no adverse environmental effects to fish and fish habitat from Designated Project activities are occurring, continue monitoring every three years after the first three years for a duration that shall be determined in consultation with Indigenous groups and relevant authorities; or
 - 3.18.3.2 if the results of monitoring during the first three years of operation demonstrate that adverse environmental effects to fish and fish habitat from Designated Project activities are occurring, determine, in consultation with Indigenous groups and relevant authorities, with what frequency and for what duration additional monitoring shall occur;
- 3.18.4 monitor nutrient levels, algae abundance, and dissolved oxygen levels. In doing so the Proponent shall:
 - 3.18.4.1 conduct monitoring one year prior to operation;
 - 3.18.4.2 conduct monitoring at least twice a year for the first three years of operation and:
 - 3.18.4.2.1 if the results of the monitoring referred to in condition 3.18.4.2 demonstrate a statistically significant change with the results of monitoring referred to in condition 3.18.4.1, conduct a fish habitat utilization survey to verify that these changes do not cause adverse environmental effects to fish and fish habitat. The Proponent shall determine the methodology, the frequency and the duration of this survey in consultation with Indigenous groups and relevant authorities.
 - 3.18.4.3 after the third year of operation, the Proponent shall:
 - 3.18.4.3.1 continue monitoring of nutrient levels, algae abundance and dissolved oxygen levels every three years for a duration that shall be determined in consultation with Indigenous groups and relevant authorities, if the results of monitoring referred to in condition 3.18.4.2 demonstrate that no adverse environmental effects to fish and fish habitat from Designated Project activities are occurring; or
 - 3.18.4.3.2 continue monitoring at a frequency and duration that shall be determined in consultation with Indigenous groups and relevant authorities, if the results of monitoring referred to in condition 3.18.4.2 demonstrate that adverse environmental effects to fish and fish habitat from Designated Project activities are occurring.
- 3.18.5 if results of the monitoring referred to in conditions 3.18.1, 3.18.2, 3.18.3 or 3.18.4 or the results of the fish habitat utilization survey referred to in condition 3.18.4.2.1 demonstrate that modified or additional mitigation measures are required to protect fish and fish habitat from changes to water and sediment quality, develop and implement modified or additional mitigation measures pursuant to condition 2.7, which shall include, at a minimum, the installation and use of an effluent treatment facility. The Proponent shall submit these measures to the Agency before implementing them.

- 3.19 The Proponent shall develop, prior to construction and in consultation with Indigenous groups and relevant authorities, a follow-up program to verify the accuracy of the environmental assessment and to determine the effectiveness of the mitigation measures as it pertains to the adverse environmental effects on fish and fish habitat in Otto Lake, Herman Lake and Goudreau Lake from changes in groundwater quality caused by the Designated Project. The Proponent shall implement the follow-up program during all phases of the Designated Project in consultation with Indigenous groups. As part of the implementation of the follow-up program, the Proponent shall:
- 3.19.1 monitor groundwater quality using as benchmarks the comparative standards for water quality identified by the Proponent in Table 7-54 of the Environmental Impact Statement; and
- 3.19.2 if the results of the monitoring referred to in condition 3.19.1 demonstrate that modified or additional mitigation measures are required to mitigate adverse environmental effects on fish and fish habitat of changes in groundwater quality caused by the Designated Project, develop and implement modified or additional mitigation measures pursuant to condition 2.7. The Proponent shall submit these measures to the Agency before implementing them.

4 Migratory birds

- 4.1 The Proponent shall carry out the Designated Project in a manner that protects migratory birds and avoids harming, killing or disturbing migratory birds or destroying, disturbing or taking their nests or eggs. In this regard, the Proponent shall take into account Environment and Climate Change Canada's *Avoidance Guidelines* and the risk of incidental take. The Proponent's actions when carrying out the Designated Project shall be in compliance with the *Migratory Birds Convention Act, 1994*, the *Migratory Birds Regulations* and with the *Species at Risk Act*.
- 4.2 The Proponent shall control lighting required during all phases of the Designated Project, including direction, timing and intensity, to avoid adverse environmental effects on migratory birds, while meeting health and safety requirements.
- 4.3 The Proponent shall undertake, in consultation with Indigenous groups and relevant authorities, progressive reclamation of the project study area. The Proponent shall identify, prior to the start of progressive reclamation and in consultation with Indigenous groups and relevant authorities, plant species native to the area of the Designated Project to use for revegetation as part of the progressive reclamation, including species suitable to create habitat for migratory birds.
- 4.4 The Proponent shall develop, prior to construction and in consultation with Indigenous groups and relevant authorities, a follow-up program to verify the accuracy of the environmental assessment as it pertains to the use by migratory birds of surface water facilities in the project study area. As part of the implementation of the follow-up program, the Proponent shall:
- 4.4.1 monitor, at times migratory birds may be present in the project study area, the use by migratory birds of the tailings management facility and the water quality control pond during all phases of the Designated Project until such time that water quality in the tailings management facility and the water quality control pond meet legislative requirements and water quality objectives. The water quality objectives are to be

established using an ecological risk-based approach, developed in consultation with Indigenous groups and relevant authorities;

- 4.4.2 monitor, at times migratory birds may be present in the project study area, the use by migratory birds of the open-pit lake during decommissioning. The Proponent shall determine, in consultation with indigenous groups and relevant authorities, the frequency and duration of the monitoring during decommissioning; and
 - 4.4.3 if results of the monitoring referred to in conditions 4.4.1 or 4.4.2 indicate that migratory birds use the tailings management facility, the water quality control pond or the open-pit lake, develop, in consultation with Indigenous groups, and implement deterrence measures pursuant to condition 2.7. The Proponent shall submit these measures to the Agency before implementing them.
- 4.5 The Proponent shall develop, prior to construction and in consultation with Indigenous groups and relevant authorities, a follow-up program to verify the accuracy of the environmental assessment and to determine the effectiveness of the mitigation measures to avoid harm to migratory birds, their eggs, and nests, including the mitigation measures used to comply with conditions 4.1 to 4.3. As part of the development of the follow-up program, the Proponent shall identify performance indicators that shall be used by the Proponent to evaluate the effectiveness of the progressive reclamation referred to in condition 4.3. The Proponent shall implement the follow-up program during all phases of the Designated Project. As part of the implementation of the follow-up program, the Proponent shall:
- 4.5.1 conduct migratory bird surveys annually for the first three years following completion of construction to assess changes in migratory bird populations caused by the Designated Project. The Proponent shall determine the methodology for the migratory bird surveys in consultation with Indigenous groups and relevant authorities. The Proponent shall determine, in consultation with Indigenous groups and relevant authorities and based on the results of the initial surveys, if additional surveys are required after the first three years following completion of construction and at what frequency and in which locations these additional surveys shall occur; and
 - 4.5.2 monitor the effectiveness of the progressive reclamation referred to in condition 4.3, including the establishment of native plant species to create habitat for migratory birds, annually during operation and during the first three years of decommissioning and every five years thereafter. The Proponent shall monitor the effectiveness of the progressive reclamation referred to in condition 4.3 until the Proponent has determined, in consultation with Indigenous groups and relevant authorities, that the performance indicators have been met.

5 Health of Indigenous Peoples

- 5.1 The Proponent shall develop, prior to construction, measures to mitigate emissions of dust and fugitive particulate generated by the Designated Project, including dust associated with mine vehicles on roads located within the property boundary, that take into account the standards and criteria set out in the Canadian Council of Ministers of the Environment's *Canadian Ambient Air Quality Standards* and Ontario's *Ambient Air Quality Criteria*. The Proponent shall submit these

measures to the Agency before implementing them. The Proponent shall implement these measures during construction, operation and the first three years of decommissioning.

- 5.2 The Proponent shall undertake reagent handling and ore processing activities in an enclosed space equipped with a dust collection system.
- 5.3 The Proponent shall develop, prior to construction and in consultation with Indigenous groups and relevant authorities, a follow-up program to verify the accuracy of the environmental assessment and to determine the effectiveness of the mitigation measures as it pertains to the adverse environmental effects on the health of Indigenous Peoples caused by increased concentration of air contaminants, including total suspended particulates, particulate matter (PM₁₀), fine particulate matter (PM_{2.5}), sulphur dioxide, nitrogen dioxide and cadmium. As part of the follow-up program, the Proponent shall:
 - 5.3.1 identify, prior to construction, monitoring locations for air contaminants within areas used by Indigenous groups for traditional purposes for which maximum concentrations of air contaminants were predicted by the Proponent during the environmental assessment, as identified in Appendix N of the final response to Information Request 01 (Canadian Environmental Assessment Registry Reference Number 80044, Document Number 26);
 - 5.3.2 monitor, during construction, operation and the first three years of decommissioning, air contaminants at the monitoring locations identified pursuant to condition 5.3.1, using as benchmarks the standards and criteria set out in the Canadian Council of Ministers of the Environment's *Canadian Ambient Air Quality Standards* and Ontario's *Ambient Air Quality Criteria*. The Proponent shall monitor fine particulate matter (PM_{2.5}) in real-time, particulate matter (PM₁₀) and cadmium at a minimum every 6 days and total suspended particulates, sulphur dioxide and nitrogen dioxide at a frequency that shall allow the Proponent to monitor adverse environmental effects on human health. The Proponent shall determine the frequency of monitoring for total suspended particulates, sulphur dioxide and nitrogen dioxide in consultation with Indigenous groups and relevant authorities during the development of the follow-up program;
 - 5.3.3 notify the Agency and Indigenous groups in writing within 24 hours of any exceedance(s) observed by the Proponent during monitoring referred to in condition 5.3.2 of 1-hour limits or 24-hour limits of the standards and criteria set out in the Canadian Council of Ministers of the Environment's *Canadian Ambient Air Quality Standards* and Ontario's *Ambient Air Quality Criteria*, except for fine particulate matter (PM_{2.5}); and
 - 5.3.4 determine, in consultation with Indigenous groups and relevant authorities, the thresholds for concentration of fine particulate matter (PM_{2.5}) above which the Proponent shall notify Indigenous groups.
- 5.4 The Proponent shall develop, prior to construction and in consultation with Indigenous groups and relevant authorities, a follow-up program to verify the accuracy of the environmental assessment and to determine the effectiveness of mitigation measures as it pertains to the adverse environmental effects on health of Indigenous Peoples caused by contamination of water and fish. As part of the follow-up program, the Proponent shall:
 - 5.4.1 identify, prior to construction, fish species that shall be monitored, waterbodies where Indigenous use is expected and where contaminants shall be monitored;

- 5.4.2 monitor mercury, methylmercury, cobalt, lead and arsenic in surface water in Otto Lake and other downstream waterbodies identified pursuant to condition 5.4.1 during all phases of the Designated Project;
- 5.4.3 monitor mercury, methylmercury, cobalt, lead and arsenic in surface water in Goudreau Lake and other downstream waterbodies identified pursuant to condition 5.4.1 during decommissioning;
- 5.4.4 monitor mercury, methylmercury, lead, arsenic and cobalt in fish tissue in Otto Lake and other downstream waterbodies identified pursuant to condition 5.4.1 every three years during all phases of the Designated Project, starting the first year of construction, and every five years until the end of decommissioning. The Proponent shall determine, in consultation with Indigenous groups and relevant authorities, if additional monitoring must be implemented after the end of decommissioning; and
- 5.4.5 monitor mercury, methylmercury, lead, arsenic and cobalt in fish tissue in Goudreau Lake and other downstream waterbodies identified pursuant to condition 5.4.1 every three years starting at the beginning of decommissioning and for a duration that shall be determined in consultation with Indigenous groups and relevant authorities.

6 Current use of lands and resources for traditional purposes

- 6.1 The Proponent shall develop, prior to construction and in consultation with Indigenous groups, a communication plan to share information related to the Designated Project and the adverse environmental effects of the Designated Project with Indigenous groups. The Proponent shall implement and maintain the communication plan up to date during all phases of the Designated Project. The communication plan shall include procedures, including timing and methods, for sharing information on the following:
 - 6.1.1 the location and timing of Designated Project activities that may affect quality of experience to Indigenous uses of lands for traditional purposes caused by changes in dust, noise or light within the property boundary and that may permanently or temporarily affect navigation within the project study area;
 - 6.1.2 the results of the follow-up program referred to in conditions 3.16, 3.17, 3.18, 3.19, 4.4, 4.5, 5.3, 5.4, 6.5, 6.6, 7.2, and 7.3, including any potential health risks, in plain language, and the modified or additional mitigation measures developed and implemented by the Proponent pursuant to condition 2.7 for each follow-up program.
- 6.2 The Proponent shall develop, as part of the communication plan referred to in condition in 6.1, procedures for Indigenous groups to provide feedback to the Proponent about adverse environmental effects caused by the Designated Project related to access to and use of lands for traditional purposes, and procedures for the Proponent to document and respond in a timely manner to the feedback received and demonstrate how issues have been addressed, including through the implementation of additional or modified mitigation measures. The Proponent shall implement these procedures during all phases of the Designated Project.
- 6.3 The Proponent shall develop, prior to construction and in consultation with Indigenous groups, a Historic Resources Management Plan for structures, sites, or things of historical, archaeological, paleontological, or architectural significance. The Proponent shall implement the plan during all

phases of the Designated Project. As part of the plan, for any previously unidentified structures, sites or things of historical, archaeological, paleontological or architectural significance discovered within the property boundary by the Proponent or brought to the attention of the Proponent by an Indigenous group or another party during any phase of the Designated project, the Proponent shall:

- 6.3.1 immediately halt work at the location of the discovery, except for actions required to be undertaken to protect the integrity of the discovery;
- 6.3.2 delineate an area with a radius of at least 30 metres around the discovery as a no-work zone and monitor any work conducted within 50 metres around the discovery;
- 6.3.3 conduct an assessment at the location of the discovery;
- 6.3.4 inform the Agency and Indigenous groups within 24 hours of the discovery, and allow Indigenous groups to monitor and participate in the archeological work; and
- 6.3.5 consult Indigenous groups and relevant authorities on the manner by which to comply with all applicable legislative or legal requirements and associated regulations and protocols respecting the discovery, recording, transferring and safekeeping of previously unidentified structures, sites or things of historical, archaeological, paleontological or architectural significance.

6.4 As part of the progressive reclamation referred to in condition 4.3, the Proponent shall:

- 6.4.1 identify, prior to the start of progressive reclamation and in consultation with Indigenous groups and relevant authorities, species of interest to Indigenous peoples to use for revegetation as part of the progressive reclamation; and
- 6.4.2 develop, prior to the start of progressive reclamation and in consultation with Indigenous groups and relevant authorities, and implement, during all phases of the Designated Project, measures to manage the spread of invasive species. The Proponent shall submit these measures to the Agency before implementing them.

6.5 The Proponent shall develop, prior to construction and in consultation with Indigenous groups and relevant authorities, and implement, during all phases of the Designated Project, a follow-up program to verify the accuracy of the environmental assessment as it pertains to the adverse environmental effects of the Designated Project on the current use of lands and resources for traditional purposes caused by changes in the use of the project study area by mammals, including black bear (*Ursus americanus*) and moose (*Alces alces*). As part of the development of the follow-up program, the Proponent shall identify, in consultation with Indigenous groups and relevant authorities, species of mammals, in addition to black bear (*Ursus americanus*) and moose (*Alces alces*), that shall be monitored. If the results of the monitoring indicate that these mammal species use the property, the Proponent shall implement modified or additional mitigation measures pursuant to condition 2.7 to prevent the identified species of mammals from accessing Designated Project components.

6.6 The Proponent shall develop, prior to construction and in consultation with Indigenous groups and relevant authorities, and implement during all phases of the Designated Project, a follow-up program to verify the accuracy of the environmental assessment and determine the effectiveness of mitigation measures, including the mitigation measures referred to in conditions 6.1 to 6.4, as

it pertains to the adverse environmental effects of the Designated Project on the current use of lands and resources for traditional purposes. The Proponent shall implement the follow-up program during all phases of the Designated Project.

7 Wetlands

- 7.1 The Proponent shall restore a minimum of 40 hectares of wetland within the property boundary. The Proponent shall determine, in consultation with Environment and Climate Change Canada, methods for restoration that are technically and economically feasible and that are appropriate for the project study area.
- 7.2 The Proponent shall develop, prior to construction and in consultation with Indigenous groups and relevant authorities, a follow-up program to determine the effectiveness of restoration referred to in condition 7.1. As part of the development of the follow-up program, the Proponent shall identify performance indicators that shall be used by the Proponent to evaluate the effectiveness of the restoration. The Proponent shall monitor the effectiveness of the restoration from the start of the restoration until performance indicators are met.
- 7.3 The Proponent shall develop, prior to construction and in consultation with Indigenous groups and relevant authorities, a follow-up program to verify the accuracy of the environmental assessment as it pertains to the presence of snapping turtle (*Chelydra serpentina*) or snapping turtle eggs within the project study area. The Proponent shall implement the follow-up program during construction and operation. If the Proponent observes snapping turtle or snapping turtle eggs, the Proponent shall develop, in consultation with Indigenous groups and relevant authorities, modified or additional mitigation measures pursuant to condition 2.7, which shall include, at a minimum, the installation of exclusion fences around snapping turtle habitat, if technically feasible, or the relocation of snapping turtles outside of the project study area. The Proponent shall submit these measures to the Agency before implementing them.

8 Accidents and malfunctions

- 8.1 The Proponent shall take all reasonable measures to prevent accidents and malfunctions that may result in adverse environmental effects.
- 8.2 The Proponent shall, prior to construction, consult with Indigenous groups and relevant authorities on the measures to be implemented to prevent accidents and malfunctions.
- 8.3 The Proponent shall, prior to construction and in consultation with Indigenous groups and relevant authorities, develop an accident and malfunction response plan in relation to the Designated Project. The accident and malfunction plan shall include:
 - 8.3.1 the types of accidents and malfunctions that may cause adverse environmental effects;
 - 8.3.2 the measures to be implemented in response to each type of accident and malfunction referred to in condition 8.3.1 to mitigate any adverse environmental effect(s) caused by the accident or malfunction; and
 - 8.3.3 the role of Indigenous groups in the implementation of the accident and malfunction plan.

- 8.4 In the event of an accident or malfunction with the potential to cause adverse environmental effects, the Proponent shall immediately implement the measures appropriate to the accident or malfunction as described in the accident and malfunction response plan referred to in condition 8.3.2 and shall:
- 8.4.1 notify, as soon as possible, Indigenous groups and relevant authorities of the accident or malfunction, and notify the Agency in writing no later than 24 hours following the accident or malfunction. For the notification to Indigenous groups and the Agency, the Proponent shall specify:
 - 8.4.1.1 the date the accident or malfunction occurred;
 - 8.4.1.2 a description of the accident or malfunction;
 - 8.4.1.3 a list of any substances potentially released in the environment as a result of the accident or malfunction.
 - 8.4.2 submit a written report to the Agency no later than 30 days after the day on which the accident or malfunction occurred. The written report shall include:
 - 8.4.2.1 a detailed description of the accident or malfunction and of its adverse environmental effects and any associated potential health risks;
 - 8.4.2.2 a description of the measures that were taken by the Proponent to mitigate the adverse environmental effects caused by the accident or malfunction;
 - 8.4.2.3 any view(s) from Indigenous groups and advice from relevant authorities received with respect to the accident or malfunction, its adverse environmental effects, the associated potential health risks and the measures taken by the Proponent to mitigate these adverse environmental effects;
 - 8.4.2.4 a description of any residual adverse environmental effects and any modified or additional measures required by the Proponent to mitigate residual adverse environmental effects; and
 - 8.4.2.5 details concerning the implementation of the accident or malfunction response plan referred to in condition 8.3.
 - 8.4.3 submit a written report to the Agency no later than 90 days after the day on which the accident or malfunction occurred that includes a description of changes made to avoid a subsequent occurrence of the accident or malfunction and of the modified or additional measure(s) implemented by the Proponent to mitigate and monitor residual adverse environmental effects and to carry out any required progressive reclamation, taking into account the information submitted in the written report pursuant to condition 8.4.2. The report shall include all additional views from Indigenous groups and advice from relevant authorities received by the Proponent since the views and advice referred to in condition 9.4.2.3 were received by the Proponent.
- 8.5 The Proponent shall develop a communication plan in consultation with Indigenous groups. The Proponent shall develop the communication plan prior to construction and shall implement and keep it up to date during all phases of the Designated Project. The plan shall include:
- 8.5.1 the types of accident and malfunction requiring the Proponent to notify the respective Indigenous groups;

- 8.5.2 the manner by which Indigenous groups shall be notified by the Proponent of an accident or malfunction and of any opportunities for the Indigenous groups to assist in the response to the accident or malfunction; and
- 8.5.3 the contact information of the representatives of the Proponent that the Indigenous groups may contact and of the representatives of the respective Indigenous groups to which the Proponent provides notification.

9 Schedules

- 9.1 The Proponent shall submit to the Agency a schedule for all conditions set out in this Decision Statement no later than 60 days prior to the start of construction. This schedule shall detail all activities planned to fulfill each condition set out in this Decision Statement and the commencement and estimated completion month(s) and year(s) for each of these activities.
- 9.2 The Proponent shall submit to the Agency a schedule outlining all activities required to carry out all phases of the Designated Project no later than 60 days prior to the start of construction. The schedule shall indicate the commencement and estimated completion month(s) and year(s) and duration of each of these activities.
- 9.3 The Proponent shall submit to the Agency in writing an update to schedules referred to in conditions 9.1 and 9.2 every year no later than March 31, until completion of all activities referred to in each schedule.
- 9.4 The Proponent shall provide to the Agency revised schedules if any change is made to the initial schedules referred to in conditions 9.1 and 9.2 or to any subsequent update(s) referred to in condition 9.3, upon revision of the schedules.
- 9.5 The Proponent shall provide Indigenous groups with the schedules referred to in conditions 9.1 and 9.2 and the updates or revisions to the initial schedules pursuant to condition 9.3 and 9.4 at the same time the Proponent provides these documents to the Agency.

10 Record keeping

- 10.1 The Proponent shall maintain all records relevant to the implementation of the conditions set out in this Decision Statement. The Proponent shall retain the records and make them available to the Agency throughout construction and operation and for 25 years following the end of operation or until the end of decommissioning of the Designated Project, whichever comes first. The Proponent shall provide the aforementioned records to the Agency upon demand within a timeframe specified by the Agency.
- 10.2 The Proponent shall retain all records referred to in condition 10.1 at a facility in Canada and shall provide the address of the facility to the Agency. The Proponent shall notify the Agency at least 30 days prior to any change to the physical location of the facility where the records are retained, and shall provide to the Agency the address of the new location.

- 10.3 The Proponent shall notify the Agency of any change to the contact information of the Proponent included in this Decision Statement.

11 Greenhouse Gas Management Plan

- 11.1 The Proponent shall develop in consultation with Environment and Climate Change Canada and any other relevant authorities, and implement within six months of the commencement of operations and until the end of decommissioning, a greenhouse gas management plan to reduce the Designated Project's greenhouse gas emissions. The Proponent shall take into account applicable provincial and federal greenhouse gas reduction strategies when developing and implementing the plan. As part of the development of the plan, the Proponent shall:
- 11.1.1 identify the sources of greenhouse gas emissions applicable to the Designated Project covered by the greenhouse gas management plan;
 - 11.1.2 for each source of emissions identified pursuant to condition 11.1.1, identify feasible alternatives, including the best available technologies and best environmental practices (BAT/BEP) applicable to that source, taking into account the BAT/BEP determination process as described in the Government of Canada's Strategic Assessment of Climate Change and other available guidance documents issued by Environment and Climate Change Canada;
 - 11.1.3 establish greenhouse gas emission targets that aim to reduce the Designated Project's overall emissions, taking into account the emission of greenhouse gases from the on-site liquid natural gas power plant and the implementation of alternatives identified pursuant to condition 11.1.2; and
 - 11.1.4 reassess annually and report to the Agency as part of the annual report the feasibility of acquiring as much electricity from the grid, or from other lower-carbon alternatives, as possible;
 - 11.1.4.1 as part of the reporting, the Proponent shall include the total quantity of electricity used by the Designated Project, including the quantities used from the on-site liquefied natural gas power plant, the electrical grid, and other low-carbon alternatives during the reporting year. The Proponent shall also include any change in quantity of electricity used from each source from the previous year and an explanation of the change;
 - 11.1.4.2 the Proponent shall continue reporting, in accordance with condition 11.1.4, until the electricity produced by the on-site liquefied natural gas power plant is fully replaced by grid electricity or other low-carbon alternatives.
- 11.2 The Proponent shall review the plan developed pursuant to condition 11.1, every three years from the commencement of operations and until the end of decommissioning. The Proponent shall provide any updated plan to the Agency and Environment and Climate Change Canada within 30 days of any revision of the plan.

11.2.1 The Proponent shall provide a copy of the plan, and any revised version of the plan, to Indigenous groups upon request.

Issuance

This Decision Statement is issued in Ottawa, Ontario by:

< Original signed by >

January 24, 2019

Date _____

The Honourable Catherine McKenna
Minister of the Environment

Amendment

This Decision Statement is amended in Ottawa, Ontario by:

< Original signed by >

August 23, 2023

Date _____

The Honourable Steven Guilbeault
Minister of the Environment