2025 SOIL AND VEGETATION MONITORING PROGRAM REPORT

SWAN HILLS TREATMENT CENTRE

EPEA APPROVAL NO. 00001744-03-00, AS AMENDED

Prepared for: **VEOLIA WASTE SERVICES ALBERTA INC.**

Prepared by: **MONTROSE ENVIRONMENTAL SOLUTIONS CANADA INC.**

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EXECUTIVE SUMMARY

Veolia Waste Services Alberta Inc. retained Montrose Environmental Solutions Canada Inc. (Montrose) to complete the 2025 soil and vegetation monitoring program for the Swan Hills Treatment Centre (SHTC), located in the Municipal District of Big Lakes, Alberta. The monitoring program has been in place since the plant began operation in 1987. Monitoring has been completed annually in the spring or fall since 1988.

OBJECTIVES AND SCOPE OF WORK

The objective of the monitoring program is to assess changes in concentrations of chemicals of concern in the forested area surrounding the SHTC. This program was completed in accordance with Section 4.10 of the facility's *Environmental Protection and Enhancement Act* (EPEA) Approval No. 00001744-03-00, as amended.

More specifically, the scope in 2025 was limited to the following:

- Assessing changes in chemical concentrations within nine annual monitoring plots by collecting vegetation samples and comparing the analytical results to those of previous sampling events:
    - Samples of moss and Labrador tea leaves were collected from each plot and analyzed for inorganic and organic parameters (Table 1a)
- Collecting moss bags from 15 moss bag plots and deploying unexposed moss bags at these plots for collection in the following year:
    - Assessing lichen health at the 15 moss bag plot locations to determine if emissions from the SHTC are having a deleterious effect on air quality as it relates to lichen health.
- Collecting moss bags from three additional sites situated around the SHTC's fenceline.
- Completing plot maintenance on those plots with identified maintenance issues.

Changes to the scope for 2025 are outlined below and are consistent with the recommendations made in the February 2025 Technical Meeting and 2024 Soil and Vegetation Monitoring Program Report (Montrose 2025).

- Annual soil and vegetation plot 117 was shifted to the expanded program.
- Moss Bag plot MB22 was removed from the program, and the moss bag holder was shifted to Plot 114 creating a new moss bag plot titled MB114. A moss bag was deployed at MB114 for the first time in June 2025 to be collected in 2026.

METHODS

The monitoring program is based on a 5-year cycle. The 2025 monitoring program represents Year 1 of the monitoring cycle; therefore, the annual plots and moss bag plots were all sampled.

The methodology employed during the monitoring program is provided in Appendix A. Only details specific to the 2025 program are discussed below.

The analytical methods include the analysis of polychlorinated biphenyls (PCBs), polychlorinated dibenzodioxins (PCDD)/polychlorinated dibenzofurans (PCDF), and metals in the live moss and Labrador tea. Metals were also analyzed in the moss bags.

RESULTS

Overall, the monitoring program indicates that historical emissions from the facility have caused certain metals and polychlorinated compounds to accumulate in the surrounding terrestrial environment. However, current emissions from the SHTC do not appear to result in a continued accumulation of these parameters of concern in the surrounding environment. A nearby forest fire which occurred in the early summer of 2025 appears to have contributed to emissions and deposition of metals, as well as PCBs and PCDD/DF.

The following summarizes the results of the 2025 monitoring program.

Moss

- The median ten-year concentrations of metals (one or more of antimony, arsenic, cadmium, chromium, copper, lead, mercury, molybdenum, nickel, silver, tin, and zinc) have been elevated at plots near the SHTC (plots 4, 109, and 114). Metal concentrations are below the *Alberta Tier 1 Soil Guidelines* (Tier 1; EPA 2024) protective of the eco soil contact pathway providing assurance that current metal levels are not affecting plant productivity and health.
    - At background plots the concentrations of cadmium, copper, and silver were elevated in the live moss. This may be a result of emissions from the nearby forest fire.
    - Aluminum, arsenic, cadmium, chromium, lead, nickel, and zinc were elevated relative to historical values at plot 402. This plot is the furthest downwind of all the monitoring plots with contaminant concentrations typically approaching background levels and it is unlikely that the SHTC is the source of this increase in metals.
    - There was no discernable increase in mercury in the live moss in 2025:
        - The live moss sample collected from plot 4 was extracted and analyzed twice for mercury in 2025. The original result was elevated relative to the historical range but not the concentration in the re-analyzed sample, indicating that the original result may be anomalous.
    - Zinc concentrations in the live moss have increased historically at plots 4, 114, 117, and 123 but have stabilized since 2020.
- Polychlorinated organic compounds (PCBs and PCDD/DF) are most elevated at the plots surrounding the SHTC.
    - PCB concentrations increased at most plots including the background locations in 2025. 2025 PCB concentrations were near or below historical median values at all plots except the background locations.
    - A similar yearly increase was observed in PCDD/DF TEQ and total TEQ values in 2025. There is a decreasing long-term trend in TEQ values at most plots.

Labrador Tea

- The median ten-year concentration of antimony, arsenic, cadmium, chromium, lead, molybdenum, nickel, and zinc are elevated at the plots near the SHTC.
    - Metal concentrations at the background plots were within historical ranges with the exception of zinc concentrations which were elevated relative to historical levels, which may reflect emissions from the nearby forest fire that was active in the early summer of 2025.

- Aluminum, cadmium, copper, and nickel at plot 114 were elevated in the Labrador tea leaves although all the parameters except for nickel were within the historical range. Nickel concentrations have been elevated but constant between 2020 and 2025.
- Mercury concentrations were within historical ranges.
- Zinc concentrations at plots 4, 114, 123, and 402 were elevated in 2025 relative to historical values, but were still within the overall historical range for each plot.

- Polychlorinated organic compounds (PCBs) are elevated at the plots surrounding the SHTC. Whereas there is no current spatial trend observed for the PCDD/DF TEQ (expressed as a total TEQ value).
  - PCB concentrations increased at most plots, between 2024 and 2025, but only the background plots (plot 70 and 71) were elevated relative to the historical range. There is a still a long-term decreasing trend in PCB concentrations at all plots.
  - PCB TEQ values also increased at most plots between 2024 and 2025 but only the values at plots 70 and 71 were elevated relative to the historical range.
  - PCDD/DF TEQ values increased in 2025 relative to 2024 and historical median concentrations due to forest fire activity. A similar trend was observed in the total TEQ value.

Ambient Air Monitoring

- In the moss bags there was no statistically significant differences in metal concentrations between Zones 1 and 2 and there were no obvious differences in metal concentrations between moss bag plots.
- Between 2024 and 2025 moss bags were also deployed at fenceline air monitoring Sites 1 (downwind of the Solidification and Stabilization building), 5 (upwind of the SHTC), and 9 (downwind of the landfill). Metal concentrations were greatest at Site 1 and 9:
  - Site 1 (Stabilization and Solidification Building) - Metal concentrations at Site 1 were generally elevated relative to previous years (2023 to 2024), including the concentration of the metals that are characteristically elevated in fly ash (arsenic, copper, lead, tin, and zinc). This increase correlates with an increase in fly ash solidification between June 2024 and June 2025.
  - Site 5 and Site 9 – Metal concentrations were comparable to previous years.
- A decrease in vigour was only observed at 3 of the 45-lichen sub-sites and overall, the vitality of lichen appeared to be unchanged relative to the previous monitoring period in 2024. Overall, there is no evidence that emissions from the SHTC are affecting lichen health.

Recommendations

In 2026 the annual plots will be sampled and analyzed as per the updated monitoring schedule in Appendix A1. Moss bags will be collected and deployed from the moss bag plots. Samples of the live moss and Labrador tea leaves will be collected from the annual monitoring plots. Typically in even numbered monitoring years the live moss will only be analyzed if TEQ levels in the Labrador tea at those plots near the SHTC (plots 4, 11, 109, and 114) exceed the 75th percentile of historical values (last 10 years of data). In 2026 the live moss will be analyzed for metals, PCBs and dioxins/furans regardless of the trigger, to verify increases in PCBs observed in 2025.

A facility upset resulting in offsite emissions of significant magnitude would result in soil and vegetation sampling at selected sites immediately following the incident. The number/location of sites and analytical scope would be based on meteorological conditions and the nature of the release.

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1 INTRODUCTION

Veolia Waste Services Alberta Inc. (Veolia) retained Montrose Environmental Solutions Canada Inc. (Montrose) to complete the 2025 soil and vegetation monitoring program for the Swan Hills Treatment Centre (SHTC), located in the Municipal District of Big Lakes (Figure 1). The monitoring program has been in place since the plant began operation in 1987. Monitoring has been completed annually in the spring or fall since 1988. Baseline samples were collected before operation between 1985 and 1987.

The SHTC treats hazardous waste using incineration, physical/chemical treatment, and solidification/ stabilization technologies.

1.1 Objectives and Scope of Work

Forest environments are considered to be sinks for atmospheric pollutants, with pollutants (such as polychlorinated biphenyls [PCBs]) being deposited on forest vegetation and eventually being stored within the leaf litter (Nizzetto et al. 2008; Wania and Mclachlan 2001). The objective of the monitoring program is to assess changes in concentrations of chemicals of concern in the forested area surrounding the SHTC. This program was completed in accordance with Section 4.10 of the facility's *Environmental Protection and Enhancement Act* (EPEA) Approval No. 00001744-03-00, as amended.

More specifically, the scope in 2025 was limited to the following:

- Assessing changes in chemical concentrations within nine annual monitoring plots by collecting vegetation samples and comparing the analytical results to those of previous sampling events.
    - Samples of moss and Labrador tea leaves were collected from each plot and analyzed for inorganic and organic parameters (Table 1a).
- Collecting moss bags from 15 moss bag plots and deploying unexposed moss bags at these plots for collection in the following year.
- Assessing lichen health at the 15 moss bag plot locations to determine if emissions from the SHTC are having a deleterious effect on air quality as it relates to lichen health.
- Collecting moss bags from three additional sites situated around the SHTC's fenceline.
- Completing plot maintenance on those plots with identified maintenance issues.

Changes to the scope for 2025 are outlined below and in Section 3.1.2. These changes are consistent with the recommendations made in the February 2025 Technical Meeting and 2024 Soil and Vegetation Monitoring Program Report (Montrose 2025).

- Annual soil and vegetation plot 117 was shifted to the expanded program.
- Moss Bag plot MB22 was removed from the program, and the moss bag holder was shifted to Plot 114 creating a new moss bag plot titled MB114. A moss bag was deployed at MB114 for the first time in June 2025 to be collected in 2026.

2 BACKGROUND

This section includes a brief description of the regional setting, the site facilities, and the historical monitoring program.

2.1 Regional Characteristics

Regional characteristics for the area are described in Table A.

TABLE A Regional Characteristics

Topography	Steep slopes and hilly topography generally characterize the area (WPK 2007).
Surface Drainage	The area surrounding the SHTC is drained by the Coutts River system (WPK 2007). Chrystina Lake is situated 1.5 km northeast of the SHTC.
Parent Geological Materials	The glacial till, from which the soils in the area are formed, is stony and generally fine-textured (Lindsay et al. 1963). The average thickness of these deposits is 10 m (Moell C.E. & Associates 1983). Based on previous environmental investigations, the till had a low hydraulic conductivity (WPK 2007).
Soil Types	Grey Luvisols are typically found in well-drained locations and organic soils occur in poorly drained locations within the area (Lindsay et al. 1963).
Vegetation	Three dominant ecosites were identified near the SHTC (HBT 1994) using a preliminary classification system. The ecosites are summarized as follows: • Lodgepole pine/black spruce ecosites associated with Grey Luvisols and Humic Gleysols. • Black spruce/Labrador tea/feather moss ecosites associated with Humic Gleysols. • Black spruce/sedge-cloudberry/sphagnum ecosites associated with Typic and Terric Mesisols.
Land Use	The area surrounding the site is zoned public land within the Green Area of Alberta.

2.2 Facility Operations

The SHTC has operated since 1987 and primarily treats hazardous waste through incineration, physical/chemical treatment, and solidification/stabilization technologies. The SHTC has a large rotary kiln which is used to incinerate organic liquid, sludge, and solid wastes, including those that contain PCBs.

In July 2015, the SHTC obtained approval to treat biomedical waste. These wastes are also treated in the incineration system.

As of May 2021, the SHTC has reduced the quantity of waste it accepts and processes in line with the base scope of operation. Annually the SHTC currently accepts up to 1,500 tonnes of waste; approximately 1,200 tonnes of biomedical waste and 300 tonnes of PCB waste. Other waste streams require approval from Alberta Infrastructure prior to disposal.

2.3 Contaminants of Concern

To assess the effect of facility operation on the surrounding area, there are monitoring programs for surface water bodies and aquatic biota, wildlife, as well as soil and vegetation. The soil and vegetation monitoring program has been completed annually at the site since 1988.

Based on available monitoring results, elevated PCB, polychlorinated dibenzodioxins (PCDD), and polychlorinated dibenzofurans (PCDF) concentrations in the moss and Labrador tea leaves near the SHTC are related to fugitive

emissions from the SHTC (Matrix 2023). Select metal parameters have also been detected as co-contaminants at those plots impacted by chlorinated organic compounds.

Metal or polychlorinated compounds measured in the moss layer are likely representative of the cumulative accumulation of these compounds via atmospheric deposition as studies have demonstrated that mosses do absorb contaminants from the underlying substrate (Kłos et al. 2012, Kosior et al. 2017). It also appears that although the feather moss layer continues to grow (Benscoter and Vitt 2007), the continued uptake of PCBs from the historical moss layer negates any growth related dilution or PCBs are concentrated in the lower portion of the live moss layer.

There appears to be some year-over-year variability in PCB concentrations in the live moss which could be partially explained by spatial heterogeneity; however, there may be other exogenous factors affecting PCB concentrations.

Polychlorinated compounds detected in the Labrador tea leaves are likely representative of compounds deposited from the atmosphere over a 1-year exposure period. This is based on the following rationale:

- Only the less chlorinated PCB congeners are translocated through the xylem in vascular plants (Liu and Schnoor 2008). The PCBs in the Labrador tea leaves near the SHTC tend to be penta- to octa-chlorinated congeners, indicating that root uptake is an unlikely source.
- It is unlikely that PCBs have been stored in the plant from past deposition events (Trapp et al. 2001).
- The most common pathway for atmospherically deposited PCBs to be assimilated by vegetation is through the leaf (Undeman et al. 2009).

Based on the most recent air modelling report for the SHTC (Zelt PSI 2022), the effect of emissions from the SHTC would be most evident at Plots 4, 11, 109, and 114 with PCB concentrations in the air being most concentrated in the vicinity of Plots 4 and 109. The predicted deposition zones for PCBs are supported by the historical spatial distribution of PCBs in the vegetation surrounding the SHTC.

Further discussion of historical results and long-term trends are included in Section 4.

2.4 Accidental Releases to Air

In 2021, the SHTC did have two accidental releases of organic vapours from a valve at the organic tank farm (EPA reference numbers 377133 and 376458); however, the duration of these releases was <24 hours in each instance. A manual stack survey conducted between June 23 and 25, 2021, identified that the stack on the kiln had exceeded the mercury emission limit (EPA reference number 383610). Mitigations were enacted following these incidents to prevent the issues from re-occurring and these mitigations were documented in follow-up letters provided to EPA in 2021.

On March 11, 2024, Veolia was notified that the total PCDD/PCDF Toxicity Equivalent emission results obtained for the manual stack survey performed December 5 to 6, 2023 exceeded the TEQ emission limit of 80 pg/m^3; the average result was 239.71 pg/m^3. The retest performed April 16-17, 2024 and subsequent stack test performed October 26-27, 2024 were below the emission limits (Veolia 2024). Veolia was also informed that the mercury emission results obtained for the manual stack survey performed December 11 to 12, 2023 exceeded the emission limit for mercury (20 µg/m^3); the average result was 21.0571 µg/m^3. These results were reported to EPA immediately under Reference number 425780 (Veolia 2024).

In 2025 there were 5 instances where 24 hour average mercury emissions from the kiln's stack exceeded the 20 ug/m^3 limit (Veolia 2026b). There is a mercury analyzer which continuously monitors mercury in the SHTC's stack emissions. Waste feeds were stopped after the limits were exceeded, and it is expected that there was limited mercury emitted to the atmosphere.

3 METHODS

Montrose personnel were required to comply with legislated, Montrose, and Veolia health and safety standards.

The monitoring program is based on a 5-year cycle. The 2025 monitoring program represents year 1 of the current monitoring cycle.

The methodology employed during the monitoring program is provided in Appendix A. Only details specific to the 2025 program or supplemental work completed in 2025 are discussed below.

3.1 Sampling Program

The field sampling program was completed between June 16 and 18, 2025, as per the monitoring protocol provided in Appendix A. Monitoring plots are shown on Figure 2, coordinates are provided in Table 1a, and plot location maps are provided in Appendix B.

- Plot maintenance is documented in Table 1b.
- Acid washed moss bags were collected from all moss bag locations in 2025. The moss bags were replaced with unexposed moss to be collected in 2026.
- Additional work completed on this program in 2025 is summarized below.

Changes to the monitoring program are summarized in Section 3.1.2.

3.1.1 Fenceline Moss Bag Monitoring

Moss bags were deployed at fenceline air monitoring Sites 1, 5A, and 9 in June 2024 to collect data on metal deposition immediately upwind and downwind of the SHTC (Figure 3). Site 5A is situated upwind of the facility near the kiln. The moss bags were collected in June 2025 for metals analysis and new moss bags were deployed.

3.1.2 Monitoring Program Changes

In 2025 the following changes were implemented, as described in the 2024 monitoring program report (Montrose 2025) and technical presentation held with Alberta Environment and Parks (EPA) on February 19, 2025.

- Soil and vegetation plot 117 was shifted to the expanded program.
- Moss Bag plot MB22 was removed from the program, and the moss bag holder was shifted to Plot 114 creating a new moss bag plot titled MB114. A moss bag was deployed at MB114 for the first time in June 2025 to be collected in 2026.

3.2 Analytical Program

The analytical methods for the moss and Labrador tea leaf samples are summarized in Table 1c. Samples were submitted to ALS laboratories in Edmonton, Alberta, for analysis.

3.3 Data Evaluation

The R statistical software (R Core Team 2021) was used to analyze the data. The methodology for data analysis is summarized in the monitoring protocol appended to this report (Appendix A, Section 3.5 of the monitoring protocol). When evaluating spatial trends, the most recent 10 years of data are included in the analysis.

Control charts were constructed to evaluate trends in key metal parameters, PCB concentrations and toxic equivalence (TEQ) values. Transformations were employed to normalize the data; however, the units shown on the y-axis of the control charts are untransformed. For most plots, PCB, metal, and TEQ data between 2003 to 2013 appeared stable and was used as a baseline for the control charts. The upper and lower control limits depicted in the charts were calculated by adding or subtracting 2 standard deviations from the mean of the baseline values. The purpose of the control charts is to provide another means to flag increasing or decreasing trends in the data.

Control charts were created for metal parameters where enough historical data was present in both sample matrices. Metal parameters at certain plots did not have a stable series of historical data points and control limits could not be calculated.

Soil results were compared to the *Alberta Tier 1 Soil and Groundwater Remediation Guidelines* (Tier 1; EPA 2024).

4 MONITORING PROGRAM RESULTS

There were several forest fires in the Swan Hills area in 2023. More recently a forest fire also occurred north of the town of Swan Hills in May 2025 (Fire Label SWF076). The effect that emissions from the forest fires have had on the surrounding terrestrial environment is discussed where relevant in this section.

The results of 2025 monitoring program are discussed in the following subsections. Results are tabulated in Tables 2 to 13 and in the laboratory reports (Appendix C). A comparison of the 2025 data to the previous year, results of the Mann-Kendall trend analysis and summary statistics (maximum/minimum, median, and 25th/75th percentiles) are provided in Appendix D.

Graphs depicting the historical (box plots) and temporal trends (trend graphs) at the soil and vegetation plots are provided in Appendix E. Control charts for select metals, PCB and TEQ values at Plots 4, 11, 109, and 114 are provided in Appendix F.

The historical inorganic data from previous monitoring programs is tabulated in Appendix G. Historical organic parameter results for the live moss and Labrador tea leaves are tabulated in Tables 6 and 11.

Photographs of the lichen plots are provided in Appendix H and graphs of the moss bag data since 2021 are shown in Appendix I.

4.1 Nutrients (Tables 3 and 8)

There were no notable trends in nutrient, pH or EC values in the live moss or Labrador tea compared to historical values for each plot (Appendix G, Tables G2 and G4).

Differences between the current and historical data at plots 11, 109, and 110 appears to be due to sample heterogeneity and is discussed further in Section 4.5.

4.2 Metals (Tables 2, 7, and 12)

Since the analytical method was updated in 2019, the detection limit for most metal parameters has decreased and the precision of the results appears to have increased.

Trends in the following key metal parameters have been evaluated further graphically and statistically: aluminum (Al), antimony (Sb), arsenic (As), cadmium (Cd), chromium (Cr), copper (Cu), lead (Pb), mercury (Hg), molybdenum (Mo), nickel (Ni), silver (Ag), tin (Sn), and zinc (Zn) (see Appendices D and E). These parameters are considered indicators that atmospheric pollutants are being emitted from the SHTC and could be accumulating in the surrounding vegetation (moss and Labrador tea). Control charts were also developed for metals that have been found to be elevated in the vegetation near the SHTC (Appendix F).

Concentrations of barium (Ba), beryllium (Be), boron (B), cobalt (Co), iron (Fe), manganese (Mn), selenium (Se), thallium (Tl), uranium (U), and vanadium (V) have been comparable to background levels and are not a focus for statistical analysis. The concentrations of lithium (Li), strontium (Sr), zirconium (Zr), and titanium (Ti) are tabulated in both the current and historical results tables but are not considered to be contaminants of concern and are not discussed further.

Most elevated metal concentrations occurred at plot 402 in 2025; however, this plot is the furthest downwind of the SHTC and trends in metals at this plot reflect another source. The trends in metals at this plot are discussed in Section 4.2.2.

Metal concentrations in the samples collected from the live moss and Labrador tea leaves at plots 11, 109, and 110 were lower then historical ranges for most metal parameters. ALS re-extracted and re-analyzed the sample aliquots and confirmed the results. At Montrose's request ALS also extracted and analyzed a new aliquot for metals; the results from this analysis are shown on tables 2 and 7 and denoted with a "R". The concentrations in this new aliquot were greater than the original sub-sample, but the cause of the difference between aliquots is uncertain. ALS suggested that the original sample results would be the most representative as there is the potential for bias as the sample volume decreases with subsequent sub-sampling. The original values have been utilized in the data analysis as per the laboratory's recommendation (ALS Canada, November 24, 2025, pers. comm.).

4.2.1 Spatial Trends

The following metal parameters in the live moss have demonstrated a discernible spatial trend over the past 10 years with several metals being elevated in plots near the SHTC (Appendix D and E):

- Antimony, arsenic, cadmium, chromium, copper, lead, mercury, molybdenum, nickel, silver, tin, and zinc have been elevated in the live moss.

- One or more of antimony, arsenic, cadmium, chromium, lead, molybdenum, nickel, and zinc have been elevated in the Labrador tea leaves.
    - Antimony has been elevated at Plot 4 since 2019 when the detection limit for the analytical method decreased from 0.1 mg/kg to 0.01 mg/kg (Figure E.3 and Appendix G).
    - In 2025 antimony, mercury and nickel concentrations at plots near the SHTC were comparable to background plots.

4.2.2 Temporal Trends

Metal concentrations at plot 109 (live moss and Labrador tea) were low relative to historical values in 2025. Metal concentrations in laboratory duplicates of the live moss from this plot were variable and the variability in these values is discussed further in Section 4.5.

Table B summarizes increasing temporal trends for key metal parameters. Detailed statistical information is provided in Appendix D.

TABLE B Summary Temporal Trends Key Metal Parameters

Parameter	Annual Vegetation Plots			
	>40% Change From Previous Year[1]	Exceeds Historic Values[2]	Increasing Trend - Visual Assessment[3]	Increasing Trend - Mann-Kendall[4]
Moss				
Aluminum	Plot 402	Plot 123 and 402	No	No
Antimony	No	No	No	No
Arsenic	Plot 402	Plot 402	No	Plot 402
Cadmium	No	Plot 70, 123, and 402	No	No
Chromium	Plot 402	Plot 402	No	No
Copper	Plot 70	Plot 70	No	No
Lead	Plot 402	Plot 402	No	No
Mercury	Plots 4 and 70	Plot 4	No	No
Molybdenum	No	No	No	No
Nickel	Plot 402	Plot 402	No	No
Silver	Plot 70 and 123	Plot 70	No	No
Tin	Plots 71 and 123	No	No	No
Zinc	No	Plot 402	No	Plots 4, 114, 117, and 123
Labrador Tea				
Aluminum	Plots 114 and 402	Plot 114	No	No
Antimony	No	No	No	No
Arsenic	Plot 123	No	No	No
Cadmium	Plot 71, 114, and 123	Plot 114	No	No
Chromium	Plots 71 and 402	No	No	No
Copper	No	Plot 114	No	No
Lead	Plot 110, 114, and 123	No	No	No
Mercury	No	No	No	No
Molybdenum	Plots 71 and 114	No	No	No
Nickel	Plot 402	Plot 114 and 123	No	Plot 114
Silver	No	No	No	No
Tin	No	No	No	No

Parameter	Annual Vegetation Plots			
	>40% Change From Previous Year[1]	Exceeds Historic Values[2]	Increasing Trend - Visual Assessment[3]	Increasing Trend - Mann-Kendall[4]
Zinc	No	Plot 4, 70, 71, 114, 123, and 402	No	No

*Long Term >5 year increasing trend
[1]Year over year concentration increase exceeds 40%
[2]Exceeds 75th percentile of historic values
[3]Increasing trends were assessed visually using the 5-year trend graphs provided in Appendix E and control charts provided in Appendix F
[4]A Mann-Kendal result was considered significant if the p-value associated with the test result was less than 0.05

Metal parameter results are only discussed if they exceed the 75th percentile of historic values or if increasing trends are apparent.

Live Moss

- Background plot 70 (situated southwest of the SHTC) had cadmium, copper, and silver concentrations that were elevated in 2025 which may reflect emissions from the nearby forest fire that was active in the early summer.
- Aluminum, arsenic, cadmium, chromium, lead, nickel, and zinc were elevated relative to historical values at plot 402. This plot is the furthest downwind of all the monitoring plots with contaminant concentrations typically approaching background levels.
    - A significant increasing trend was noted for arsenic although this is statistical result is likely affected by elevated arsenic levels in two recent monitoring periods (2022 and 2025) and does not represent a trend.
- Aluminum and Cadmium at plot 123 were elevated relative to the 75th percentile of historical values but still within the historical maximums.
- The mercury concentration in the live moss at plot 4 was initially reported to be 0.817 mg/kg, this result is shown in the graphs and summary statistics appended to this report. This sample was re-extracted and analyzed and the resulting mercury concentration decreased to 0.32 mg/kg which was comparable to the historic mean. The laboratory confirmed they did not discover quality control issues in the original or supplemental analysis; it is possible the initial mercury concentration for this sample was an anomaly. Both results are provided in the tables, and the initial result is utilized on the trend graphs and statistics.
- Zinc concentrations have a statistically significant increasing trend at Plots 4, 114, 117, and 123. Although zinc concentrations have been stable between 2020 and 2025 at these monitoring plots.
    - Note: duplicate samples were collected from plot 109 and then two aliquots (subsamples) were analyzed from each duplicate resulting in the moss from this plot being analyzed four times. One of four results had an elevated zinc concentration as shown on Table 2, however, this is considered anomalous as it does not align with the other 3 results.

Labrador Tea

- Metal concentrations at the background plots (plots 70 and 71) were within historical ranges with the exception that zinc concentrations were elevated relative to historical levels which may reflect emissions from the nearby forest fire that was active in the early summer.

- Aluminum, cadmium, copper, and nickel at plot 114 were elevated in the Labrador tea leaves although all the parameters except for nickel were within the historical maximums. Nickel concentrations have been elevated but constant between 2020 and 2025.
- Mercury concentrations were within historical ranges.
- Nickel concentrations in the Labrador tea leaves at plot 123 were also elevated. Although nickel has only been detectable since 2018 when the laboratory detection limit decreased. Since 2018 nickel concentrations at plot 123 have ranged between a relatively narrow range of 0.72 to 1, concentrations in 2025 (0.98 mg/kg) were near the maximum of that narrow range.
- Zinc concentrations at plots 4, 114, 123, and 402 were elevated in 2025 relative to historical values. But still within the overall historical range for each plot.

4.2.3 Moss Bags

The peat moss deployed in June 2024, was acid washed at Alberta Innovates (Appendix A; Table A1.3). The peat moss is deployed for a 1-year exposure period and the date listed in Table 12 is the date the moss was collected.

Based on the moss bag data there were several parameters that were statistically greater in the exposed versus unexposed moss bags (Appendix D; Table D.3). However, there were no statistically significant differences between Zone 1 and 2 for the metals that had accumulated in the moss bags. The moss bag data does not demonstrate that metals, including mercury, are being deposited near the SHTC at statistically significant rates.

The moss bag data collected from 2019 onward is presented on the graphs in Appendix I; 2019 is the year when acid washing was incorporated in moss bag preparation. Moss bag data from 2021 was omitted from the graphs in Appendix I as the acid washing step was less effective in reducing baseline metal levels in the peat moss deployed the year prior. There are no visible trends in the moss bag data, although aluminum and zinc did increase at most plots in Zones 1 and 2, in 2025.

In June 2024 moss bags were also deployed at air monitoring Sites 1 (downwind of the Stabilization and Solidification Building), 5 (upwind of the SHTC), and 9 (downwind of the landfill). The moss bags were collected in June 2025. The results are summarized below:

- Site 1 (Stabilization and Solidification Building) - Metal concentrations at Site 1 were generally elevated relative to previous years (2023 to 2024), including, the concentration of the metals that are characteristically elevated in fly ash (arsenic, copper, lead, tin, and zinc). This increase correlates with an increase in fly ash solidification between June 2024 and June 2025 (Veolia, January 30, 2026, pers. comm.).
- Site 5 (Upwind of SHTC) – Metal concentrations were comparable to previous years.
- Site 9 (landfill) – Metal concentrations were comparable to previous years.

4.2.4 Significance

When evaluating spatial trends in the metals data a 10-year monitoring period is utilized spanning data from 2016 to 2025. In the live moss the median concentration of antimony, arsenic, cadmium, chromium, copper, lead, mercury, molybdenum, nickel, silver, tin, and zinc are elevated relative to background concentrations.

In the Labrador tea, the median concentration of these same metal parameters is elevated with the exception that copper, silver, and tin are not noticeably elevated relative to background conditions.

Metal concentrations in the moss bags were similar between Zones 1 and 2, and increased metal deposition surrounding the SHTC was not detected in 2025. Labrador tea plant roots occur at variable depths (Hebert and Thiffault 2011) but likely mostly occur in the organic or mineral soil layer underlying the moss. Given that metals at plots near the SHTC do not appear to be leaching from the live moss layer into the underlying soil (Matrix 2022), the metal concentrations in the Labrador tea leaves may be reflective of recent atmospheric deposition. However, the moss bags did not detect any significant difference in metal deposition between the SHTC (Zone 1) and the peripheral locations (Zone 2); consequently, at the plots near the SHTC it appears that there may still be some uptake of metals from the live moss layer which is translocated to the Labrador tea leaves.

At background plots the concentrations of cadmium, copper, and silver in the live moss and zinc in the Labrador tea leaves was elevated in 2025. This may be a result of emissions from the nearby forest fire.

Several metal parameters in the live moss at plot 402 were elevated relative to historical values. This plot is 7 km downwind of the SHTC and a similar trend was not observed at nearby plots indicating the SHTC is not the source of this increase in metal parameters.

Zinc concentrations in the live moss have increased historically at plots 4, 114, 117, and 123 but have stabilized since 2020. Zinc concentrations in the Labrador tea leaves were elevated in 2025 at plots 4, 114, 123, and 402; and mean zinc concentrations in the moss bags (Zones 1 and 2) were also greater than 2024. Transient increases in zinc concentrations have been observed when forest fires are active in the area (Montrose 2025). This is supported by an observed increase in zinc at background locations.

Metal concentrations were greater in the moss bags deployed surrounding the SHTCs fenceline at Sites 1, 5, and 9, relative to the more distant moss bag plots. This is likely reflective of fly ash particles that are dispersing from the site at low levels.

Overall, the rate or magnitude of metal deposition near the SHTC may be somewhat elevated relative to background locations. The concentrations measured in the live moss (Matrix 2021) are still below Tier 1 guidelines and there is no evidence that metals are translocating into the underlying soil where most of the plant roots are situated (Matrix 2023) and metal concentrations in voles that frequent the area near the SHTC are not increasing relative to previous monitoring years (WMC 2024).

Specific to mercury, there was no evidence of increased mercury deposition to any monitoring plot in 2025. The live moss sample collected from plot 4 was extracted and analyzed twice for mercury in 2025. The original result was elevated relative to the historical range but not the concentration in the re-analyzed sample, indicating that the original result may be anomalous.

4.3 Polychlorinated Organic Compounds

A summary of key trends for organic parameters (PCBs and PCDD/PCDF) is presented below.

- PCB and TEQ concentrations are greater in the live moss relative to the Labrador tea leaves.
- PCB and TEQ values in the live moss met the Tier 1 soil guidelines protective of natural land uses.

- Generally, PCB compounds with a higher degree of chlorination and higher molecular weight were detected in the live moss and Labrador tea in 2025 This is consistent with previous years and what is understood regarding depositional patterns of PCB congeners from the atmosphere (Wania and Mackay 1996).There are no statistically significant long-term increasing trends for any PCBs or dioxin-like PCBs (PCB TEQ) near the SHTC, based on the Mann-Kendall analysis (Appendix D; Table D.1). The trends in PCDD/DF TEQ were affected by the forest fires in 2025 as discussed below.

A detailed summary of trends is presented below, a statistical evaluation of these trends is presented in Appendices D, E, and F.

4.3.1 Vegetation (Live Moss and Labrador Tea)

Polychlorinated Biphenyls (Appendix E, Figures E.27 and E.28)

Spatially, PCB concentrations in the live moss and Labrador tea are greatest near the SHTC at Plots 4, 11, 109, and 114. PCB concentrations decrease with distance from the SHTC as shown on the box plot. Currently PCB levels in the Labrador tea leaves downwind of the SHTC, near Plot 123, are comparable to background levels. Elevated PCB concentrations in the live moss extend further east with concentrations at Plot 402 approaching background levels.

2025 PCB concentrations in the live moss increased relative to 2024, PCB concentrations in the Labrador tea leaves at select plots (plots 70, 71 109, 110, and 114) also increased relative to 2024. However, PCB concentrations were near or below the historical median values, except for values at background plots 70 and 71 which were near their historical maximums but still orders of magnitude below PCB concentrations at those plots near the SHTC (plot 4, 109, and 114).

There is a statistically significant long-term decreasing trend in PCB concentrations in the live moss and Labrador tea at all plots including background Plot 70 (Appendix D).

Toxic Equivalent Values (Appendix E, Figures E.29 to E.34)

Co-planar PCBs (PCB TEQ) represent a significant proportion of the total TEQ value in those plots situated near the SHTC (Plots 4 and 109) and PCDD/PCDF TEQ becomes proportionally greater with distance. In the Labrador tea which represents more recent emissions PCB TEQ is proportionally greater than PCDD/DF TEQ only at plots 4 and 109. Whereas in the live moss PCB TEQ values are proportionally greater than PCDD/DF TEQ east of the SHTC until plot 123.

Spatially PCB TEQ concentrations are elevated in the live moss and Labrador tea leaves at plots near the SHTC Plots 4, 11, 109, and 114. The PCDD/DF TEQ concentrations are elevated at plots 4, 11, 109, and 114 in the live moss; however, concentrations are not noticeably elevated in the Labrador tea. The total TEQ value represents the combined toxicity of PCDD, PCDF, and dioxin-like PCB compounds, and spatially the total TEQ is elevated near the SHTC.

PCB TEQ, PCDD/DF TEQ, and total TEQ concentrations in the live moss and Labrador tea were similar to or increased relative to 2024 concentrations. Trends are discussed below and summarized in Appendix D (summary statistics) and Appendices E and F (graphs):

- The Mann-Kendall trend analysis indicates that there are statistically significant decreasing trends in PCB TEQ concentrations in the live moss at most of the plots near the SHTC including Plots 4, 11, 109, and 114. Similarly, statistically significant decreasing trends in PCB TEQ are noted in the Labrador tea at Plots 4, 11, 109, and 114. There are statistically significant increasing PCB TEQ trends in the Labrador tea leaves at background Plots 70, 71, and peripheral monitoring Plot 402.
- The 2025 PCDD/DF TEQ values in the live moss and Labrador tea were greater than 2024 values at all plots. Values in the live moss were within the historical range whereas values in the Labrador tea were in the upper percentiles. This increase was most evident at background or peripheral plots that have had lower TEQ concentrations historically. The increase in PCDD/DF TEQ is attributed to the forest fires; this is evident in the Labrador tea leaves where PCDD/DF TEQ values in the background plots are similar to the plots near the SHTC.

  Longer term the Mann-Kendall trend test indicates that there are statistically significant decreasing trends in PCDD/DF TEQ concentrations in the live moss at all plots. A nearly statistically significant decreasing trend in PCDD/DF TEQ was noted in the Labrador tea leaves at Plot 4. There were statistically significant increasing trends in the Labrador tea leaves at peripheral monitoring plots 110, 123, and 402. A review of the data indicates this increasing trend is likely a result of forest fire related increases in PCDD/DF TEQ in 2023 and 2025 which is influencing the test statistic.
- Trends in total TEQ concentrations at the monitoring plots near the SHTC are similar to trends discussed for PCB TEQ concentrations, whereas total TEQ trends at the peripheral plots are affected primarily by changes in PCDD/DF TEQ. Total TEQ concentrations are decreasing in the live moss at most plots, but in the Labrador tea the decreasing trend in total TEQ concentrations is only deemed significant at plot 4. There is a statistically significant increasing trend in total TEQ concentrations in Labrador tea at plots 110, 123, and 402 which is similar to the trend in PCDD/DF TEQ at these plots.

4.3.2 Significance

PCB concentrations increased in 2025 at most plots in the live moss and Labrador tea leaves. The increase in PCB concentrations at plots near the SHTC in 2025 is not related to changes in emissions from the facility which continue to decrease (Veolia 2026) and were within the historical range. Increases in 2025 PCB concentrations at background/peripheral plots appears to be related to emissions from the wildfire. Long term PCB concentrations in live moss near or downwind of the SHTC are decreasing. PCB concentrations in the Labrador tea leaves are also decreasing long-term.

Spatially dioxin-like PCBs (PCB TEQ) are elevated in both the Labrador tea leaves and live moss near the SHTC, whereas PCDD/DF compounds (PCDD/DF TEQ) are only elevated in the live moss near the SHTC. Increases in 2025 PCDD/DF TEQ values appear to be related to emissions from a nearby forest fire. Overall the total TEQ value in the live moss near the SHTC is decreasing.

4.4 Lichen Vitality

In 2025 the health of lichen at the moss bag plots was documented (Table 13) and all three sub-sites were photographed (Appendix H). The following plots appeared to demonstrate a decrease in lichen health in 2025 relative to 2024:

MB4 (4-1) - The health of the lichen at sub-site 4-1 decreased by one rating unit in 2025 relative to 2024. The health of the lichen at subsites 4-2 and 4-3 remained unchanged.

MB11 (11-3) - The health of the lichen at sub-site 11-3 decreased by one rating unit in 2025 relative to 2024. The health of the lichen at subsites 11-1 and 11-2 remained unchanged.

MB26 (26-2) - The health of the lichen at sub-site 26-2 decreased by one rating unit in 2025 relative to 2024. The health of the lichen at subsite 26-1 and 26-3 was unchanged.

An increase in lichen vigour was observed at plots 9-2 and 19-2.

Overall decreased vigour was only observed at three lichen subsites and at all plots at least 2 of 3 lichen sites remained unchanged or had improved health.

4.5 Quality Control Sample Results

4.5.1 Sampling Precision

A summary of quality control (QC) sample results is provided in Tables 14a to 16. An explanation of Montrose's quality assurance/quality control (QA/QC) protocol is provided in Appendix J.

The reproducibility of blind field duplicates was generally considered to be good (RPDs less than 40%). Several duplicate metal parameters values did not meet the "good" criteria in the live moss (Table 14a). Re-analysis did not identify any issues with the laboratory data, and the differences were attributed to sample heterogeneity which has been encountered in the past.

Metals analysis completed on live moss and Labrador tea samples collected from plots 11, 109, and 110 was low relative to historical results (Appendix E). ALS re-extracted and re-analyzed the sample aliquots and confirmed the results. At Montrose's request ALS also extracted and analyzed a new aliquot for metals; the results from this analysis are shown on tables 2 and 7 and denoted with a "R". The concentrations in this new aliquot were greater than the original sub-sample, but the cause of the difference between aliquots is uncertain. ALS suggested that the original sample results would be the most representative as there is the potential for bias as the sample volume decreases with subsequent sub-sampling (ALS Canada, November 24, 2025, pers. comm.).

The concentrations of PCBs were less than the detection limit in all field blanks collected (Table 16), indicating that sample contamination did not occur during sample collection and transport.

4.5.2 Laboratory Quality Assurance

Laboratory QA/QC procedures are summarized in Appendix C. Montrose reviewed the laboratory data and QC results provided by ALS and deemed the data to be reliable.

5 SUMMARY

Overall, the monitoring program indicates that historical emissions from the facility have caused certain metals and polychlorinated compounds to accumulate in the surrounding terrestrial environment. However, current emissions from the SHTC do not appear to result in a continued accumulation of these parameters of concern in the surrounding environment. A nearby forest fire which occurred in the early summer of 2025 appears to have contributed to emissions and deposition of metals, as well as PCBs and PCDD/DF.

The following summarizes the results of the 2025 monitoring program.

Moss

- The median ten-year concentrations of metals (one or more of antimony, arsenic, cadmium, chromium, copper, lead, mercury, molybdenum, nickel, silver, tin, and zinc) have been elevated at plots near the SHTC (plots 4, 109, and 114). Metal concentrations are below the Alberta Tier 1 Soil Guidelines (Tier 1; EPA 2024) protective of the eco soil contact pathway providing assurance that current metal levels are not affecting plant productivity and health.
    - At background plots the concentrations of cadmium, copper, and silver were elevated in the live moss. This may be a result of emissions from the nearby forest fire.
    - Aluminum, arsenic, cadmium, chromium, lead, nickel, and zinc were elevated relative to historical values at plot 402. This plot is the furthest downwind of all the monitoring plots with contaminant concentrations typically approaching background levels and it is unlikely that the SHTC is the source of this increase in metals.
    - There was no discernable increase in mercury in the live moss in 2025.
        - The live moss sample collected from plot 4 was extracted and analyzed twice for mercury in 2025. The original result was elevated relative to the historical range but not the concentration in the re-analyzed sample, indicating that the original result may be anomalous.
    - Zinc concentrations in the live moss have increased historically at plots 4, 114, 117, and 123 but have stabilized since 2020.
- Polychlorinated organic compounds (PCBs and PCDD/DF) are most elevated at the plots surrounding the SHTC.
    - PCB concentrations increased at most plots including the background locations in 2025. 2025 PCB concentrations were near or below historical median values at all plots except the background locations.
    - A similar yearly increase was observed in PCDD/DF TEQ and total TEQ values in 2025. There is a decreasing long-term trend in TEQ values at most plots.

Labrador Tea

- The median ten-year concentration of antimony, arsenic, cadmium, chromium, lead, molybdenum, nickel, and zinc are elevated at the plots near the SHTC. Overall, the rate or magnitude of metal deposition near the SHTC may be somewhat elevated relative to background locations.
    - Metal concentrations at the background plots were within historical ranges with the exception of zinc concentrations which were elevated relative to historical levels, which may reflect emissions from the nearby forest fire that was active in the early summer of 2025.
    - Aluminum, cadmium, copper, and nickel at plot 114 were elevated in the Labrador tea leaves although all the parameters except for nickel were within the historical range. Nickel concentrations have been elevated but constant between 2020 and 2025.
    - Mercury concentrations were within historical ranges.

- Zinc concentrations at plots 4, 114, 123, and 402 were elevated in 2025 relative to historical values, but were still within the overall historical range for each plot.

- Polychlorinated organic compounds (PCBs) are elevated at the plots surrounding the SHTC. Whereas there is no current spatial trend observed for the PCDD/DF(expressed as a total TEQ value).
  - PCB concentrations increased at most plots, between 2024 and 2025, but only the background plots (plot 70 and 71) were elevated relative to the historical range. There is a still a long-term decreasing trend in PCB concentrations at all plots.
  - PCB TEQ values also increased at most plots between 2024 and 2025 but only the values at plots 70 and 71 were elevated relative to the historical range.
  - PCDD/DF TEQ values increased in 2025 relative to 2024 and historical median concentrations due to forest fire activity. A similar trend was observed in the total TEQ value.

Ambient Air Monitoring

- In the moss bags there was no statistically significant differences in metal concentrations between Zones 1 and 2 and there were no obvious differences in metal concentrations between moss bag plots.
- Between 2024 and 2025 moss bags were also deployed at fenceline air monitoring Sites 1 (downwind of the Solidification and Stabilization building), 5 (upwind of the SHTC) and 9 (downwind of the landfill). Metal concentrations were greatest at Site 1 and 9.
  - Site 1 (Stabilization and Solidification Building) - Metal concentrations at Site 1 were generally elevated relative to previous years (2023 to 2024), including, the concentration of the metals that are characteristically elevated in fly ash (arsenic, copper, lead, tin, and zinc). This increase correlates with an increase in fly ash solidification between June 2024 and June 2025.
  - Site 5 and Site 9 – Metal concentrations were comparable to previous years.
- A decrease in vigour was only observed at 3 of the 45-lichen sub-sites and overall, the vitality of lichen appeared to be unchanged relative to the previous monitoring period in 2024. Overall, there is no evidence that emissions from the SHTC are affecting lichen health.

6 RECOMMENDATIONS

In 2026 the annual plots will be sampled and analyzed as per the updated monitoring schedule in Appendix A1. Moss bags will be collected and deployed from the moss bag plots. Samples of the live moss and Labrador tea leaves will be collected from the annual monitoring plots. Typically in even numbered monitoring years the live moss will only be analyzed if TEQ levels in the Labrador tea at those plots near the SHTC (plots 4, 11, 109, and 114) exceed the 75th percentile of historical values (last 10 years of data). In 2026 the live moss will be analyzed for metals, PCBs and dioxins/furans regardless of the trigger, to verify increases in PCBs observed in 2025.

A facility upset resulting in offsite emissions of significant magnitude would result in soil and vegetation sampling at selected sites immediately following the incident. The number/location of sites and analytical scope would be based on meteorological conditions and the nature of the release.

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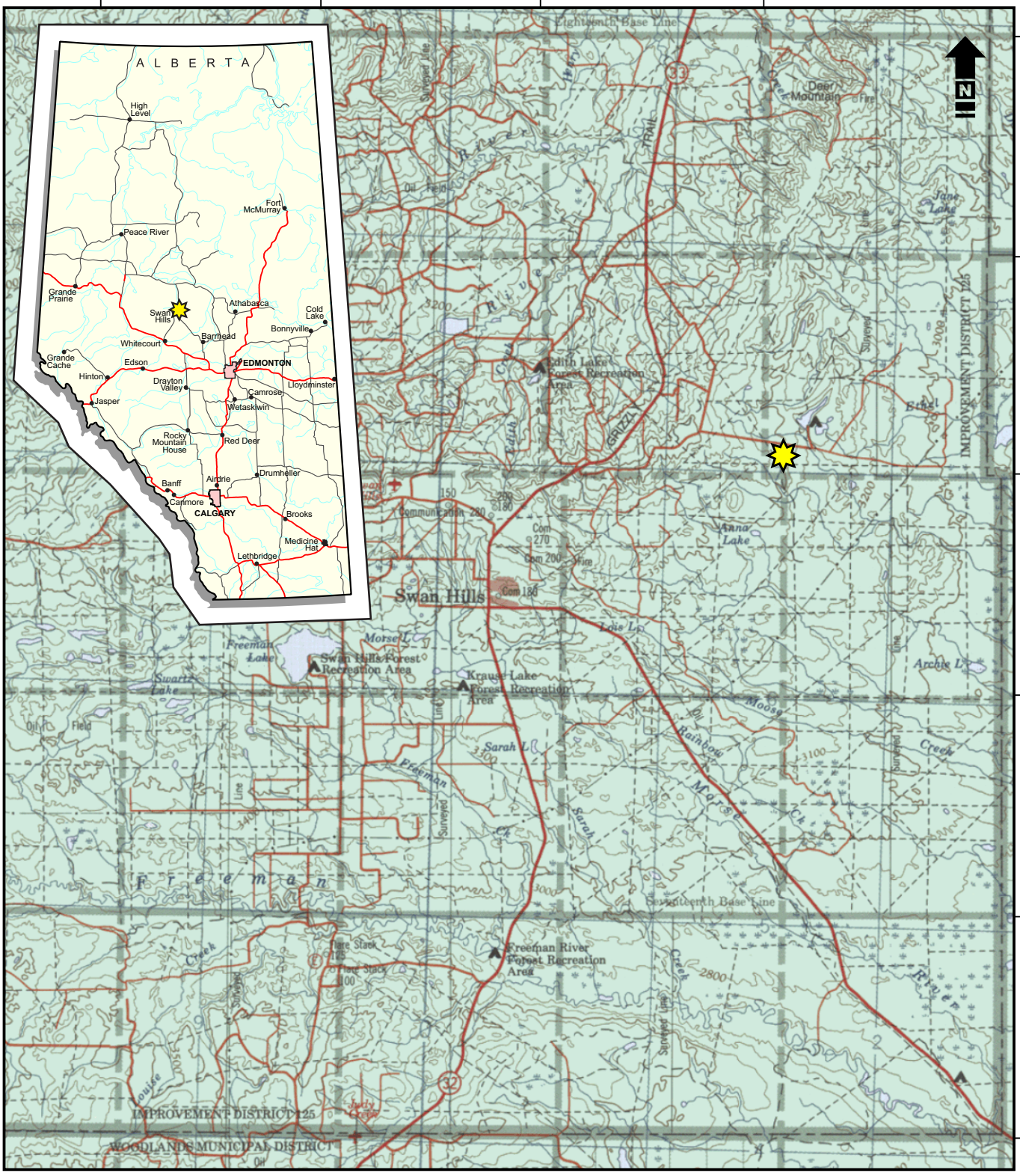
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Site Location

MONTROSE ENVIRONMENTAL

Veolia Waste Services Alberta Inc.
Swan Hills Treatment Centre W1/2-06-067-08 W5M

Site Location Plan

Date:	Project:	Technical:	Reviewer:	Drawn:
February 2016	15867-LP-15	L. Oiffer	D. Keyes	J. Li

Figure 1

Reference: 83J (Whitecourt), Edition 2, UTM Zone 11, NAD 83

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1:250,000 metres
2,500 0 2,500 5,000

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Easting (m)

611000 612000 613000 614000 615000 616000 617000 618000 619000 620000 621000 622000

Northing (m)

6076000 6075000 6074000 6073000 6072000 6071000 6070000 6069000 6068000 6067000

N

Road
Annual Monitoring Location
Expanded Program Monitoring Location
Moss Bag
No Longer Monitored

MB50
Plot 81
MB26
MB19
Plot 26
Plot 121
Plot 123
Plot 28
Plot 15
MB11
Plot 11
Plot 1
Plot 2
MB9
MB15
Plot 104
Plot 6
Plot 12
Plot 109
MB4
Plot 5
Plot 4
Plot 9
Plot 13
MB14
Plot 14
Plot 7
MB5
Plot 8
Plot 110
Plot 80
Plot 102
Plot 16
Plot 29
Plot 114
MB114
Plot 103
Plot 402
Plot 27
MB20
Plot 117
MB24
MB22

67-9-W5
67-8-W5
66-9-W5
66-8-W5

Saulteaux River
Courtis River





Reference: Data obtained from AltaLIS © Government of Alberta used under license. Imagery (2014) Source: Esri, Vantor, Earthstar Geographics, and the GIS User Community. Based on data provided by geoLOGIC systems ltd.

1:40,000 metres
420 0 420 840
NAD 1983 UTM Zone 11N

MONTROSE ENVIRONMENTAL

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

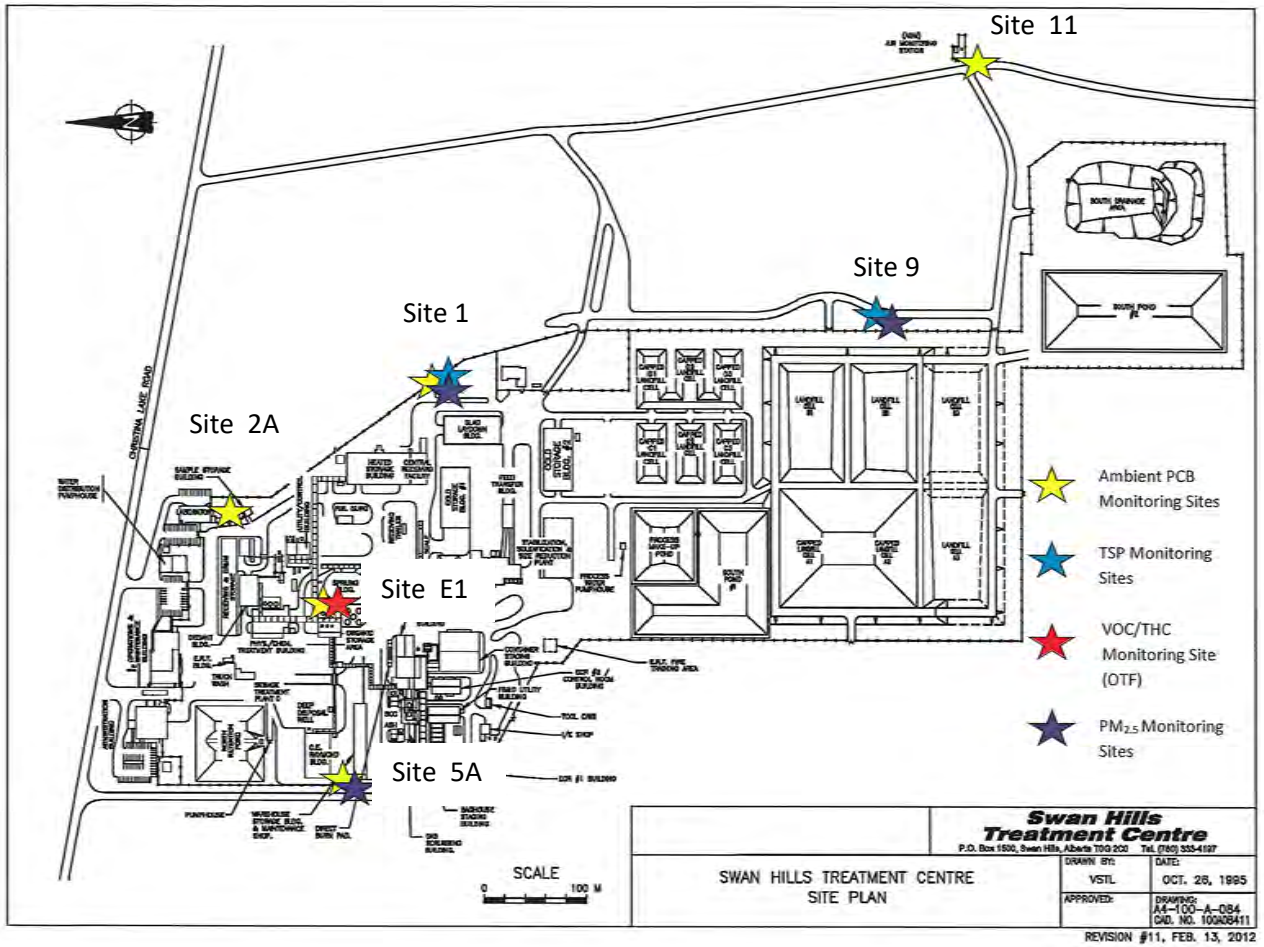
Soil and Vegetation Plots

Date:	Project:	Submitter:	Reviewer:
February 2026	15867	L. Oiffer	A. Dickson

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Figure 2

I:\SUEZCanadaWasteServices\15867\FiguresAndTables\MXD\N_2025\SS&V\Figure-2-Soil_and_Vegetation_Plots.mxd - TaMod_L - 06-Feb-26, 10:47 AM - dcortese - TD005



MONTROSE ENVIRONMENTAL

Veolia Waste Services Alberta Inc.
Swan Hills Treatment Centre

Air Sampling Device Locations

Date:	Project:	Submitter:	Reviewer:
January 7, 2022	15867	L. Oiffer	K. Ostermann

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Figure 3

TABLE 1a

Sample Program

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	UTM (m) Northing	UTM (m) Easting	MSI Sample Number	Metals[1]	Nutrients[2]	Aroclor PCBs	PCBs (HRMS)	PCBs (LRMS)	PCDD/PCDF
Labrador Tea Leaves										
Plot 4	17-Jun-25	6071027	615111	15867250617106	x	x		x		x
Plot 11	18-Jun-25	6071792	614644	15867250618110	x	x		x		x
Plot 70	16-Jun-25	6067388	603071	15867250616104	x	x		x		x
Plot 71	18-Jun-25	6090717	610660	15867250618111	x	x		x		x
Plot 109	17-Jun-25	6071109	614333	15867250617107	x	x		x		x
Plot 109*	17-Jun-25	6071109	614333	15867250617108	x	x		x		x
Plot 110	17-Jun-25	6070621	614146	15867250617109	x	x		x		x
Plot 114	17-Jun-25	6070370	615636	15867250617105	x	x		x		x
Plot 123	16-Jun-25	6072155	616302	15867250616101	x	x		x		x
Plot 402	16-Jun-25	6070378	622256	15867250616102	x	x		x		x
Plot 402*	16-Jun-25	6070378	622256	15867250616103	x	x				
Live Moss										
Plot 4	17-Jun-25	6071027	615111	15867250617006	x	x		x		x
Plot 11	18-Jun-25	6071792	614644	15867250618010	x	x		x		x
Plot 70	16-Jun-25	6067388	603071	15867250616004	x	x		x		x
Plot 71	18-Jun-25	6090717	610660	15867250618011	x	x		x		x
Plot 109	17-Jun-25	6071109	614333	15867250617007	x	x		x		x
Plot 109*	17-Jun-25	6071109	614333	15867250617008	x	x		x		x
Plot 110	17-Jun-25	6070621	614146	15867250617009	x	x		x		x
Plot 114	17-Jun-25	6070370	615636	15867250617005	x	x		x		x
Plot 123	16-Jun-25	6072155	616302	15867250616001	x	x		x		x
Plot 402	16-Jun-25	6070378	622256	15867250616002	x	x		x		x
Plot 402*	16-Jun-25	6070378	622256	15867250616003	x	x				
Moss Bags										
MB1	17-Jun-25	6071636	614877	15867250617215	x					
MB2	17-Jun-25	6071499	615167	15867250617216	x					
MB4	17-Jun-25	6071042	615113	15867250617212	x					
MB5	17-Jun-25	6070830	615191	15867250617211	x					
MB9	16-Jun-25	6071537	616313	15867250616201	x					
MB11	18-Jun-25	6071793	614620	15867250618217	x					
MB14	16-Jun-25	6070786	617626	15867250616203	x					
MB15	17-Jun-25	6071257	614272	15867250617213	x					
MB19	16-Jun-25	6072437	611431	15867250616206	x					
MB20	17-Jun-25	6069869	614958	15867250617207	x					
MB22	17-Jun-25	6068502	615759	15867250617208	x					
MB24	16-Jun-25	6069288	620330	15867250616202	x					
MB26	16-Jun-25	6073143	612778	15867250616205	x					
MB50	16-Jun-25	6075021	611447	15867250616204	x					
MB71	18-Jun-25	6090717	610660	15867250618218	x					
Site 1	17-Jun-25	NA	NA	15867250617210	x					
Site 5	17-Jun-25	NA	NA	15867250617214	x					
Site 9	17-Jun-25	NA	NA	15867250617209	x					
Unexposed	18-Jun-25	NA	NA	15867250618219	x					
Unexposed	18-Jun-25	NA	NA	15867250618220	x					
Unexposed	18-Jun-25	NA	NA	15867250618221	x					

* Duplicate sample

[1] Includes aluminum, antimony, arsenic, barium, beryllium, boron, cadmium, chromium, cobalt, copper, iron, lead, lithium, manganese, mercury, molybdenum, nickel, selenium, silver, strontium, thallium, tin, titanium, uranium, vanadium, zinc, zirconium

[2] Includes calcium, magnesium, phosphorous, potasium, sodium, sulphur. Labrador tea samples were analyzed for nitrogen. Live Moss samples were analyzed for pH/EC and nitrogen.

TABLE 1b

Plot Maintenance

Veolia

W ½ 06-067-08 W5M

Sample Point	Maintenance Completed 2025	Maintenance Required
Annual Plots		
Plot 4	None	None
Plot 11	None	None
Plot 70	None	None
Plot 71	None	None
Plot 109	None	None
Plot 110	None	None
Plot 114	None	None
Plot 117	None	None
Plot 123	None	None
Plot 402	None	None
Expanded Program Plots		
Plot 1	None	None
Plot 2	None	None
Plot 5	None	None
Plot 6	None	None
Plot 7	None	None
Plot 8	None	None
Plot 9	None	None
Plot 12	None	None
Plot 13	None	None
Plot 14	None	None
Plot 15	None	None
Plot 16	None	None
Plot 26	None	None
Plot 27	None	None
Plot 28	None	None
Plot 29	None	None
Plot 80	None	None
Plot 81	None	None
Plot 102	None	None
Plot 103	None	None
Plot 104	None	None
Plot 121	None	None

TABLE 1b

Plot Maintenance

Veolia

W ½ 06-067-08 W5M

Sample Point	Maintenance Completed 2025	Maintenance Required
Moss Bag Plots		
MB1	None	None
MB2	None	None
MB4	None	None
MB5	None	None
MB9	None	None
MB11	None	None
MB14	None	None
MB15	None	None
MB19	Replaced Lichen Site 19-2, previous location had fallen over	None
MB20	None	Replace lichen site 20-2, tree has fallen over
MB22	None	None
MB24	None	Needs a extra moss bag holder
MB26	None	None
MB50	None	None
MB71	None	None

TABLE 1c

Analytical Methods

Veolia

W ½ 06-067-08 W5M

Parameter	Analytical Method
Labrador Tea	
Metals	Extracted using "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive" Method/Analyzed using USEPA 200.3/6020A[2]
Mercury	Extracted using "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive" Method/Analyzed using USEPA 200.3, 245.7
Nitrogen	Total Nitrogen by combustion
PCBs (HRMS)	USEPA 1668C[1]
PCDD/PCDF	USEPA 1613B
Moss Bags	
Metals	Extracted using "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive" Method/Analyzed using USEPA 200.3/6020A[2]
Mercury	Extracted using "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive" Method/Analyzed using USEPA 200.3, 245.7
Moss	
Metals	Extracted using "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive" Method/Analyzed using USEPA 200.3/6020A[2]
Mercury	Extracted using "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive" Method/Analyzed using USEPA 200.3, 245.7
pH	Saturated Paste Extract
EC	Saturated Paste Extract
PCBs (HRMS)	USEPA 1668C[1]
PCDD/PCDF	USEPA 1613B

[1] Where the PCB 126 and 169 peaks appeared to be broader then expected on the chromatogram the sample extract was passed through a carbon column to better resolve the co-planar PCB fraction

[2] Collision cell interface was used on ICPMS

TABLE 2

Live Moss Quality Results - Metals

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	Al %	Al mg/kg	Sb mg/kg	As mg/kg	Ba mg/kg	Be mg/kg	B mg/kg	Cd mg/kg	Cr mg/kg	Co mg/kg	Cu mg/kg	Fe mg/kg	Pb mg/kg	Li mg/kg	Hg mg/kg	Mn mg/kg	Mo mg/kg	Ni mg/kg	Se mg/kg	Ag mg/kg	Sr mg/kg	Tl mg/kg	Ti mg/kg	Sn mg/kg	U mg/kg	V mg/kg	Zn mg/kg	Zr mg/kg
Plot 4	17-Jun-25	15867250617006	0.0741	741	0.219	0.58	57.6	0.031	8.7	0.422	1.77	0.523	9.59	985	9.16	<0.50	0.32	745	0.386	2.01	0.103	0.0988	11.7	0.033	23.8	0.77	0.0535	1.94	89.5	0.77
Plot 11	18-Jun-25	15867250618010	0.0132	132	0.018	0.082	21.7	<0.010	3.5	0.0737	0.212	0.108	2.42	184	0.718	<0.50	0.069	745	0.042	0.44	<0.050	0.0186	5.8	0.0096	4.15	<0.10	0.0113	0.33	31.2	<0.20
Plot 11	18-Jun-25	15867250618010R	0.0293	293	0.037	0.156	95.6	0.013	9.4	0.3	0.455	0.362	4.84	385	1.69	<0.50	---	1610	0.115	1.16	0.138	0.0395	19.4	0.0176	7.39	0.16	0.0244	0.76	69.3	<0.20
Plot 70	16-Jun-25	15867250616004	0.0649	649	0.035	0.249	47.4	0.023	3.9	0.248	0.871	0.444	6.4	718	1.14	<0.50	0.122	1170	0.118	1.37	0.082	0.156	7.46	0.0203	14.1	0.13	0.0337	1.36	40.6	0.51
Plot 71	18-Jun-25	15867250618011	0.0496	496	0.038	0.198	85.6	0.022	7	0.161	0.747	0.378	3.69	611	1.06	<0.50	0.0694	977	0.181	1.07	0.096	0.0267	24	0.0127	13.7	0.35	0.041	1.21	42.9	0.53
Plot 109	17-Jun-25	15867250617007	0.0075	74.7	0.023	0.066	6.38	<0.010	1.5	0.0351	0.161	0.048	1.33	104	0.903	<0.50	0.0396	226	0.041	0.24	<0.050	0.0112	1.6	0.0042	3.05	<0.10	0.0058	0.2	18.9	<0.20
Plot 109	17-Jun-25	15867250617007R	0.0475	475	0.203	0.511	55.3	0.017	5.4	0.283	1.32	0.484	6.91	594	8.46	<0.50	---	858	0.316	1.56	0.107	0.0538	7.93	0.0226	17	0.66	0.0309	1.18	***521***	0.28
Plot 109*	17-Jun-25	15867250617008	0.0177	177	0.063	0.154	12.7	<0.010	1.8	0.0795	0.376	0.116	2.04	216	2.43	<0.50	0.104	218	0.101	0.56	<0.050	0.0235	2.53	0.0073	7.28	0.21	0.011	0.42	56.8	<0.20
Plot 109*	17-Jun-25	15867250617008R	0.0376	376	0.13	0.309	33.8	0.016	5.3	0.163	0.884	0.219	5.58	502	4.69	<0.50	---	825	0.236	1.23	0.089	0.0414	6.64	0.0195	13.1	0.44	0.0254	1	64.4	<0.20
Plot 110	17-Jun-25	15867250617009	0.0128	128	0.013	0.073	37.4	<0.010	2.6	0.048	0.197	0.161	1.64	169	0.529	<0.50	0.0443	562	0.063	0.3	<0.050	0.0127	10.5	0.0063	4.64	<0.10	0.0091	0.32	22	<0.20
Plot 110	17-Jun-25	15867250617009R	0.0279	279	0.033	0.151	74.4	0.011	7.1	0.15	0.486	0.247	4.82	366	1.41	<0.50	---	1270	0.113	0.72	0.072	0.0252	16.3	0.0149	6.59	0.18	0.0206	0.69	68.9	<0.20
Plot 114	16-Jun-25	15867250617005	0.0655	655	0.157	0.381	56.4	0.021	5.2	0.489	1.02	0.42	6.99	564	6.99	<0.50	0.161	814	0.281	1.54	0.114	0.0849	13.8	0.0215	17.9	0.58	0.0321	1.11	70.2	0.33
Plot 123	16-Jun-25	15867250616001	0.0576	576	0.032	0.154	17.9	0.017	3.3	0.115	0.434	0.242	3.85	373	0.571	<0.50	0.085	981	0.069	1.33	0.079	0.0528	5.19	0.0265	10.7	0.28	0.0198	0.75	49.6	0.31
Plot 402	16-Jun-25	15867250616002	0.326	3260	0.025	0.726	86.9	0.089	7.9	0.298	2.85	1.28	5.31	2210	1.79	1.85	0.088	976	0.163	3.11	0.145	0.0376	26.1	0.0503	40.8	0.14	0.631	5.16	67	1.36
Plot 402*	16-Jun-25	15867250616003	0.144	1440	0.054	0.689	66.5	0.06	7.2	2.04	1.66	0.857	5.84	1290	1.63	0.69	0.2	801	0.145	2.63	0.372	0.05	19.6	0.0548	31.2	<0.10	0.232	2.99	66	1.18
ABT1 - Natural Area			**NS**	**NS**	**20^{ES}**	**17^{ES}**	**750^{ES}**	**5^{ES}**	**NS**	**3.8^{EL}**	**64^{ES}**	**20^{ES}**	**63^{ES}**	**NS**	**70^{EL}**	**NS**	**12^{ES}**	**NS**	**4^{ES}**	**45^{ES}**	**1^{ES}**	**20^{ES}**	**NS**	**1^{EL}**	**NS**	**5^{ES}**	**33^{EL}**	**130^{ES}**	**250^{ES}**	**NS**

Notes:

--- - not analyzed

* - duplicate sample

EL - indicates guideline for Livestock Soil and Food Ingestion exposure pathway

ES - indicates guideline for Direct Soil Contact (ecological) exposure pathway

R - MSI Sample numbers denoted with an "R" represent an aliquot that was analyzed for the sample. At the laboratory's recommendation, these results were not utilized in any statistical analysis as they may be biased

ABT1 - *Alberta Tier 1 Soil and Groundwater Remediation Guidelines* (EPA 2024)

Italics - indicates values do not meet applicable guidelines

TABLE 3

Moss Quality Results - Macronutrients

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	pH	EC dS/m	Saturation %	Ca mg/kg	Mg mg/kg	K mg/kg	Na mg/kg	P mg/kg	S mg/kg
Plot 4	17-Jun-25	15867250617006	4.98	0.097	1300	9160	1020	3260	33	1310	1080
Plot 11	18-Jun-25	15867250618010	4.99	0.105	927	4740	471	2030	21	717	540
Plot 11	18-Jun-25	15867250618010R	---	---	---	10800	1260	3680	48	1480	1080
Plot 70	16-Jun-25	15867250616004	5.04	0.066	1280	5080	1000	3500	56	1360	1060
Plot 71	18-Jun-25	15867250618011	5.29	0.12	1320	7540	989	3450	65	1220	1000
Plot 109	17-Jun-25	15867250617007	5.01	0.144	903	1690	214	965	<20	298	200
Plot 109*	17-Jun-25	15867250617008	4.96	0.098	1020	2130	309	1290	<20	427	310
Plot 109	17-Jun-25	15867250617007R	---	---	---	7510	1080	2450	22	1090	870
Plot 109*	17-Jun-25	15867250617008R	---	---	---	5870	1010	3660	24	1250	820
Plot 110	17-Jun-25	15867250617009	4.53	0.177	1130	3240	529	2350	<20	802	470
Plot 110	17-Jun-25	15867250617009R	---	---	---	8660	873	3080	30	1370	940
Plot 114	16-Jun-25	15867250617005	5	0.186	1220	5930	867	3560	45	1120	880
Plot 123	16-Jun-25	15867250616001	5.06	0.114	1300	4900	792	4020	34	1340	890
Plot 402	16-Jun-25	15867250616002	4.72	0.161	862	10300	1200	3020	33	1280	920
Plot 402*	16-Jun-25	15867250616003	4.93	0.12	924	8440	850	2500	24	1260	1210

Notes:

* - duplicate sample

R - MSI Sample numbers denoted with an "R" represent an aliquot that was analyzed for the sample. At the laboratory's recommendation, these results were not utilized in any statistical analysis as they may be biased

TABLE 4

Live Moss Quality Results - PCB Congeners (HRMS)

Veolia

W ½ 06-067-08 W5M

Sample Point		Plot 4	Plot 11	Plot 70	Plot 71	Plot 109	Plot 109*	Plot 110	Plot 114	Plot 123	Plot 402	Alberta Tier 1 - Soils
Sample Date		17-Jun-25	18-Jun-25	16-Jun-25	18-Jun-25	17-Jun-25	17-Jun-25	17-Jun-25	16-Jun-25	16-Jun-25	16-Jun-25	Natural Area
MSI Sample Number	Unit	15867250617006	15867250618010	15867250616004	15867250618011	15867250617007	15867250617008	15867250617009	15867250617005	15867250616001	15867250616002	
PCB Congeners												
PCB 1	ng/g	0.0195	0.00512	<0.0011	<0.00089	0.0112	0.02	<0.0013	0.0132	<0.0017	<0.0014	NS
PCB 2	ng/g	<0.0042	<0.0017	<0.00099	<0.00085	<0.0031	<0.0033	<0.0012	<0.0025	<0.0016	<0.0012	NS
PCB 3	ng/g	0.0156	<0.0037	<0.0017	<0.0010	<0.0091	<0.0084	<0.0015	0.0111	<0.0018	<0.0013	NS
PCB 4	ng/g	0.0822	0.0172	<0.0062	<0.0040	0.0594	0.0709	<0.0069	0.0504	<0.0063	<0.0059	NS
PCB 5	ng/g	<0.0023	<0.0020	<0.0030	<0.0018	<0.0023	0.00217	<0.0032	<0.0021	<0.0029	<0.0022	NS
PCB 6	ng/g	0.0481	<0.0088	<0.0032	<0.0020	0.05	0.0407	<0.0054	0.0314	<0.0027	<0.0024	NS
PCB 7	ng/g	<0.0070	<0.0019	<0.0028	<0.0017	0.00753	<0.0061	<0.0030	<0.0041	<0.0023	<0.0020	NS
PCB 8	ng/g	0.245	0.0539	<0.0082	0.0155	0.205	0.191	<0.019	0.146	<0.0092	<0.0067	NS
PCB 9	ng/g	<0.015	<0.0022	<0.0033	<0.0020	0.0161	<0.013	<0.0035	<0.0087	<0.0028	<0.0024	NS
PCB 10	ng/g	<0.0023	<0.0020	<0.0030	<0.0019	<0.0023	<0.0015	<0.0032	<0.0022	<0.0026	<0.0022	NS
PCB 11	ng/g	0.0696	0.0682	0.0731	0.066	0.0531	0.0922	0.0882	0.0686	0.0793	0.0656	NS
PCB 12 + 13	ng/g	0.0305	<0.0037	<0.0046	<0.0029	0.0193	0.0168	<0.0048	<0.011	<0.0042	<0.0029	NS
PCB 14	ng/g	<0.0042	<0.0042	<0.0052	<0.0033	<0.0049	<0.0030	<0.0055	<0.0048	<0.0047	<0.0033	NS
PCB 15	ng/g	0.301	0.0475	<0.0048	<0.0043	0.183	0.172	0.0121	0.104	<0.012	<0.0041	NS
PCB 16	ng/g	0.103	<0.017	<0.0050	<0.0089	0.0898	0.0858	0.00612	0.0522	<0.0030	<0.0026	NS
PCB 17	ng/g	0.124	0.0231	<0.0056	0.0101	<0.086	0.0928	<0.0078	0.0546	<0.0083	<0.0024	NS
PCB 18 + 30	ng/g	0.219	0.0393	<0.0082	<0.015	0.182	0.172	<0.014	0.108	0.0098	<0.0037	NS
PCB 19	ng/g	0.0266	<0.0045	<0.0018	0.00277	0.021	0.0226	<0.0020	0.0137	<0.0020	<0.0014	NS
PCB 20 + 28	ng/g	0.77	0.142	0.0171	0.0168	0.482	0.535	0.0439	0.26	0.029	0.0123	NS
PCB 21 + 33	ng/g	0.267	0.0452	<0.0061	<0.0088	0.224	0.211	<0.013	0.117	0.00945	<0.0032	NS
PCB 22	ng/g	0.294	0.0475	<0.0036	<0.0050	0.166	0.178	0.0113	0.0846	<0.0096	0.00388	NS
PCB 23	ng/g	<0.0022	<0.0018	<0.0023	<0.0012	<0.0029	<0.0022	<0.0024	<0.0018	<0.0022	<0.0021	NS
PCB 24	ng/g	<0.0026	<0.0013	<0.0012	<0.0018	<0.0020	0.00318	<0.0018	<0.0017	<0.0016	<0.0015	NS
PCB 25	ng/g	0.0592	<0.0085	<0.0024	0.00172	0.0394	0.0385	<0.0026	0.0211	0.00334	<0.0022	NS
PCB 26 + 29	ng/g	0.0903	<0.014	<0.0024	<0.0028	0.0683	0.0618	0.00645	0.0345	<0.0025	<0.0022	NS
PCB 27	ng/g	<0.02	<0.0035	<0.0015	<0.0021	0.0157	<0.015	<0.0022	0.00913	<0.0018	<0.0017	NS
PCB 31	ng/g	0.857	0.132	<0.012	0.0159	0.478	0.48	0.0389	0.244	0.0307	0.0123	NS
PCB 32	ng/g	0.0935	0.0144	<0.0031	<0.0046	0.0581	0.0623	0.00551	<0.03	<0.0035	<0.0015	NS
PCB 34	ng/g	<0.0026	<0.0020	<0.0026	<0.0014	<0.0034	<0.0026	<0.0028	<0.0021	<0.0026	<0.0025	NS
PCB 35	ng/g	0.0755	<0.012	<0.0027	<0.0014	0.0475	0.0491	<0.0029	0.0166	<0.0027	<0.0026	NS
PCB 36	ng/g	<0.0021	<0.0016	<0.0022	<0.0011	<0.0028	<0.0021	<0.0023	<0.0017	<0.0021	<0.0020	NS
PCB 37	ng/g	0.914	0.102	<0.0026	<0.0051	0.376	0.398	<0.02	0.21	<0.021	<0.0049	NS
PCB 38	ng/g	0.00813	0.00699	0.00748	<0.0028	0.00849	<0.0072	<0.0048	<0.0059	<0.0088	0.006	NS
PCB 39	ng/g	<0.0062	<0.0016	<0.0020	<0.0010	0.00405	<0.0036	<0.0022	<0.0016	<0.0020	<0.0019	NS
PCB 40 + 41 + 71	ng/g	0.351	0.052	<0.0059	<0.0073	0.201	0.2	<0.012	0.115	<0.0086	0.00443	NS
PCB 42	ng/g	0.304	0.0416	<0.0037	<0.0031	0.135	0.137	0.0129	0.0711	0.0106	0.00388	NS
PCB 43	ng/g	0.0251	<0.0018	<0.0025	<0.0021	0.0116	0.012	<0.0023	<0.0064	<0.0052	<0.0019	NS
PCB 44 + 47 + 65	ng/g	1.11	0.148	0.021	<0.018	0.509	0.483	0.0498	0.32	0.0484	<0.021	NS
PCB 45 + 51	ng/g	0.0734	<0.01	<0.0044	<0.0036	0.0453	0.0444	<0.0048	0.0264	<0.0047	0.00318	NS
PCB 46	ng/g	0.0282	<0.0031	<0.0027	<0.0023	0.0158	0.0166	<0.0024	<0.0092	<0.0051	<0.0021	NS
PCB 48	ng/g	0.0918	0.0162	<0.0022	<0.0028	0.0557	0.0574	<0.0038	0.0356	<0.0041	<0.0016	NS
PCB 49 + 69	ng/g	0.927	0.117	0.0084	0.00658	0.414	0.406	<0.027	0.232	0.0246	0.0104	NS
PCB 50 + 53	ng/g	0.0631	0.0106	<0.0022	<0.0020	0.0375	0.0386	0.00373	0.0237	<0.0043	<0.0017	NS
PCB 52	ng/g	1.99	0.289	<0.015	0.0184	1.08	1.02	<0.056	0.685	0.0555	0.0199	NS
PCB 54	ng/g	<0.00092	<0.00080	<0.00091	<0.00078	<0.0011	<0.00095	<0.0011	<0.00098	<0.0011	<0.0010	NS
PCB 55	ng/g	0.036	<0.0057	<0.0022	<0.0019	0.0281	0.02	<0.0027	0.0125	<0.0028	<0.0018	NS
PCB 56	ng/g	1.21	0.149	<0.0038	<0.0031	0.584	0.568	0.0242	0.333	0.0278	<0.0066	NS
PCB 57	ng/g	<0.01	<0.0034	<0.0024	<0.0021	<0.0062	<0.0061	<0.0030	<0.0037	<0.0031	<0.0020	NS
PCB 58	ng/g	<0.021	<0.0029	<0.0021	<0.0018	0.008	<0.0022	<0.0026	0.00446	<0.0026	<0.0017	NS
PCB 59 + 62 + 75	ng/g	0.0688	<0.0078	<0.0017	<0.0014	0.0378	0.0374	<0.0021	0.0242	<0.0032	<0.0013	NS
PCB 60	ng/g	0.816	0.101	0.00424	<0.0019	0.349	0.349	<0.017	0.2	0.0162	0.00556	NS
PCB 61 + 70 + 74 + 76	ng/g	8.52	0.99	0.0266	0.0204	3.69	3.52	0.174	2.21	0.181	0.0438	NS
PCB 63	ng/g	0.112	0.0142	<0.0023	<0.0020	0.0522	0.046	<0.0028	0.0273	<0.0029	<0.0019	NS
PCB 64	ng/g	0.85	0.103	<0.0065	0.00716	0.371	0.345	0.0234	0.199	0.024	<0.0085	NS
PCB 66	ng/g	3.68	0.432	0.0133	0.00937	1.54	1.49	0.0792	0.943	0.0764	<0.016	NS
PCB 67	ng/g	0.0765	<0.011	<0.0020	<0.0017	0.0412	0.0409	<0.0024	0.0166	<0.0025	<0.0016	NS
PCB 68	ng/g	0.0106	<0.0027	<0.0020	<0.0017	<0.0051	<0.0045	<0.0024	<0.0034	0.00293	0.0025	NS
PCB 72	ng/g	0.0297	0.0047	<0.0023	<0.0020	0.0128	0.0141	<0.0029	0.0057	<0.0030	<0.0020	NS
PCB 73	ng/g	<0.0051	<0.00094	<0.0016	<0.0013	0.00227	0.0019	<0.0014	0.00293	<0.0030	<0.0012	NS
PCB 77	ng/g	2.07	0.24	<0.0034	<0.0032	0.767	0.767	0.0361	0.305	0.0447	<0.0066	NS
PCB 78	ng/g	0.0116	<0.0037	<0.0027	<0.0023	<0.0072	0.00915	<0.0033	<0.0040	<0.0034	<0.0022	NS
PCB 79	ng/g	0.157	0.0168	<0.0020	<0.0018	0.067	0.0745	<0.0033	0.0313	<0.0039	<0.0017	NS
PCB 80	ng/g	<0.0048	<0.0026	<0.0019	<0.0017	<0.0049	<0.0020	<0.0023	<0.0028	<0.0024	<0.0016	NS
PCB 81	ng/g	0.0676	0.00724	<0.0026	<0.0024	0.023	0.0239	<0.0034	0.00956	<0.0034	<0.0022	NS
PCB 82	ng/g	1.64	0.166	<0.0032	<0.0038	0.718	0.668	0.0379	0.406	0.0315	<0.0057	NS

TABLE 4

Live Moss Quality Results - PCB Congeners (HRMS)

Veolia

W ½ 06-067-08 W5M

Sample Point		Plot 4	Plot 11	Plot 70	Plot 71	Plot 109	Plot 109*	Plot 110	Plot 114	Plot 123	Plot 402	Alberta Tier 1 - Soils
Sample Date		17-Jun-25	18-Jun-25	16-Jun-25	18-Jun-25	17-Jun-25	17-Jun-25	17-Jun-25	16-Jun-25	16-Jun-25	16-Jun-25	Natural Area
MSI Sample Number	Unit	15867250617006	15867250618010	15867250616004	15867250618011	15867250617007	15867250617008	15867250617009	15867250617005	15867250616001	15867250616002	
PCB Congeners												
PCB 83 + 99	ng/g	7.31	0.765	<0.018	<0.011	2.79	2.76	0.147	1.55	0.163	0.0372	NS
PCB 84	ng/g	1.6	0.141	<0.0026	0.0035	0.588	0.593	0.0295	0.368	0.0294	<0.0084	NS
PCB 85 + 110 + 115 + 116 + 117	ng/g	21.3	2.12	0.0476	0.0288	8.21	8.04	0.366	4.75	0.423	0.105	NS
PCB 86 + 87 + 97 + 109 + 119 + 125	ng/g	6.36	0.612	0.0139	0.00797	2.43	2.47	0.12	1.36	0.132	0.031	NS
PCB 88 + 91	ng/g	1.01	0.103	<0.0033	<0.0028	0.384	0.39	0.0243	0.214	<0.023	<0.0060	NS
PCB 89	ng/g	0.0663	<0.0046	<0.0031	<0.0037	0.0327	0.0295	<0.0050	0.0161	<0.0051	<0.0038	NS
PCB 90 + 101 + 113	ng/g	12.6	1.32	0.0298	0.0215	5.02	4.98	0.253	2.62	0.271	0.065	NS
PCB 92	ng/g	2.04	0.21	<0.0028	<0.0033	0.797	0.827	0.0436	0.433	0.05	0.0131	NS
PCB 93 + 98 + 100 + 102	ng/g	0.138	0.0179	<0.0022	<0.0026	0.061	0.066	<0.0057	0.0395	<0.0044	<0.0026	NS
PCB 94	ng/g	0.0171	<0.0034	<0.0023	<0.0027	0.00781	<0.0085	<0.0037	<0.0033	<0.0038	<0.0028	NS
PCB 95	ng/g	6.25	0.589	0.0216	0.0132	2.48	2.56	0.132	1.41	0.135	0.0384	NS
PCB 96	ng/g	0.0241	<0.0023	<0.0011	<0.0013	<0.012	0.0116	<0.0017	0.00675	<0.0015	<0.00093	NS
PCB 103	ng/g	0.0449	0.0062	<0.0024	<0.0028	0.0214	0.0233	<0.0038	<0.0080	<0.0040	<0.0029	NS
PCB 104	ng/g	<0.00068	<0.00082	<0.00067	<0.00075	<0.00078	<0.00062	<0.0010	<0.00066	<0.00098	<0.00061	NS
PCB 105	ng/g	12.7	1.11	<0.017	<0.011	4.44	4.37	0.186	2.7	0.196	0.0445	NS
PCB 106	ng/g	0.00966	<0.0037	<0.0020	<0.0016	<0.0074	<0.0046	<0.0023	0.00344	<0.0028	<0.0018	NS
PCB 107	ng/g	1.37	0.124	<0.0016	<0.0013	0.497	0.537	0.0219	0.306	0.0202	<0.0045	NS
PCB 108 + 124	ng/g	0.768	0.0762	<0.0018	<0.0014	0.29	0.293	<0.01	0.16	<0.0098	<0.0016	NS
PCB 111	ng/g	<0.0023	<0.0023	<0.0015	<0.0018	<0.0060	0.00385	<0.0025	<0.0022	<0.0025	<0.0018	NS
PCB 112	ng/g	<0.011	<0.0032	<0.0016	<0.0018	<0.0059	0.00568	<0.0026	<0.0037	<0.0026	<0.0019	NS
PCB 114	ng/g	0.615	0.0581	<0.0023	<0.0017	0.24	0.24	<0.0066	0.152	<0.0093	<0.0026	NS
PCB 118	ng/g	19.9	1.95	0.0366	0.0224	7.67	7.53	0.301	4.61	0.324	0.0693	NS
PCB 120	ng/g	0.0436	0.0111	<0.0017	<0.0020	0.0342	0.03	<0.0028	0.0102	<0.0028	<0.0021	NS
PCB 121	ng/g	<0.0023	<0.0023	<0.0015	<0.0018	<0.0035	<0.0018	<0.0025	<0.0022	<0.0025	<0.0018	NS
PCB 122	ng/g	0.344	0.0387	<0.0025	<0.0020	0.145	0.144	0.00474	0.0868	0.00578	<0.0022	NS
PCB 123	ng/g	0.368	0.0433	<0.0023	<0.0019	0.163	0.135	0.00631	0.109	0.006	<0.0019	NS
PCB 126	ng/g	0.477	0.0461	<0.0031	<0.0025	0.166	0.176	<0.0033	0.0686	<0.0076	<0.0028	NS
PCB 127	ng/g	0.0609	<0.0035	<0.0019	<0.0015	0.0201	<0.017	<0.0022	0.0132	<0.0025	<0.0017	NS
PCB 128 + 166	ng/g	5.49	0.474	0.00997	<0.0060	1.93	1.95	0.0814	1.05	<0.078	<0.014	NS
PCB 129 + 138 + 163	ng/g	42.5	3.71	0.0761	0.036	15.1	15.1	0.644	8.15	0.671	0.163	NS
PCB 130	ng/g	2.04	0.198	<0.0044	0.00258	0.77	0.777	<0.032	0.409	0.0359	<0.0039	NS
PCB 131	ng/g	0.339	<0.032	<0.0030	<0.0026	0.138	0.138	<0.0057	0.0717	0.0066	<0.0034	NS
PCB 132	ng/g	7.97	0.703	<0.015	<0.0072	2.8	2.9	0.114	1.55	0.135	0.0381	NS
PCB 133	ng/g	0.412	0.0447	<0.0027	<0.0023	0.177	0.159	<0.0083	0.0863	0.01	<0.0031	NS
PCB 134 + 143	ng/g	1.23	0.102	0.00388	<0.0025	0.438	0.452	0.0223	0.258	<0.02	<0.0053	NS
PCB 135 + 151	ng/g	6.54	0.518	0.0145	0.00769	2.36	2.35	0.102	1.25	0.101	<0.046	NS
PCB 136	ng/g	2.03	0.176	<0.0048	0.00265	0.741	0.775	0.0386	0.389	0.0358	<0.017	NS
PCB 137 + 164	ng/g	3.5	0.31	<0.0060	<0.0030	1.29	1.29	<0.047	0.702	0.0568	<0.013	NS
PCB 139 + 140	ng/g	0.388	0.0395	<0.0021	<0.0018	0.155	0.15	<0.0050	0.0753	<0.0052	0.00326	NS
PCB 141	ng/g	6.56	0.57	<0.0087	<0.0063	2.4	2.37	0.102	1.21	0.111	0.0272	NS
PCB 142	ng/g	<0.0073	<0.0026	<0.0030	<0.0025	<0.0062	<0.0042	<0.0031	<0.0047	<0.0027	<0.0033	NS
PCB 144	ng/g	1.09	0.0966	<0.0020	<0.0028	0.404	0.412	0.0198	0.2	0.0213	<0.0069	NS
PCB 145	ng/g	<0.0034	<0.00083	<0.0012	<0.0017	<0.0010	<0.0020	<0.0012	<0.00097	<0.0018	<0.0010	NS
PCB 146	ng/g	4.41	0.434	<0.0072	<0.0035	1.67	1.67	0.0838	0.858	0.0765	<0.017	NS
PCB 147 + 149	ng/g	19.8	1.85	0.0417	0.0223	7.24	7.56	0.342	3.74	0.344	0.0871	NS
PCB 148	ng/g	0.02	<0.0023	<0.0020	<0.0027	0.00888	0.0084	<0.0019	0.004	<0.0028	<0.0017	NS
PCB 150	ng/g	0.0313	0.0037	<0.0011	<0.0016	0.0127	0.0121	<0.0011	0.00474	<0.0017	<0.00096	NS
PCB 152	ng/g	<0.0072	<0.0010	<0.0015	<0.0020	<0.0025	0.0046	<0.0014	<0.0023	<0.0020	<0.0012	NS
PCB 153 + 168	ng/g	28.2	2.67	0.0564	<0.028	10.4	10.4	0.452	5.4	0.451	0.105	NS
PCB 154	ng/g	0.132	0.0153	<0.0014	<0.0019	0.0454	0.0456	<0.0035	0.0231	<0.0041	<0.0020	NS
PCB 155	ng/g	0.000901	<0.00044	<0.00064	<0.00084	<0.00053	<0.00044	<0.00062	<0.00052	<0.00094	<0.00083	NS
PCB 156 + 157	ng/g	4.61	0.371	<0.0051	<0.0045	1.54	1.62	0.0584	0.893	0.063	0.0166	NS
PCB 158	ng/g	3.39	0.295	<0.0068	<0.0029	1.2	1.21	0.0537	0.702	0.0529	<0.011	NS
PCB 159	ng/g	0.602	0.0498	<0.0017	<0.0014	0.203	0.209	0.00918	0.107	0.00685	<0.0019	NS
PCB 160	ng/g	0.0755	0.00409	<0.0015	<0.0013	<0.011	<0.011	0.00176	0.0174	<0.0012	<0.0017	NS
PCB 161	ng/g	<0.0044	<0.0015	<0.0018	<0.0015	<0.0037	<0.0025	<0.0019	<0.0028	<0.0016	<0.0020	NS
PCB 162	ng/g	0.143	0.0146	<0.0016	<0.0014	0.0521	0.0518	<0.0019	<0.025	<0.0020	<0.0019	NS
PCB 165	ng/g	0.117	0.0105	<0.0017	<0.0014	0.0396	0.0474	<0.0020	0.0196	<0.0015	<0.0019	NS
PCB 167	ng/g	1.62	0.133	<0.0020	<0.0018	0.577	0.59	<0.019	0.32	<0.023	<0.0057	NS
PCB 169	ng/g	0.029	0.00274	<0.0028	<0.0023	0.0104	0.0103	<0.0030	0.00404	<0.0025	<0.0027	NS
PCB 170	ng/g	10.5	0.85	<0.0096	<0.0062	3.41	3.53	0.139	1.68	0.122	0.0377	NS
PCB 171 + 173	ng/g	3.03	0.257	<0.0039	0.00268	1.04	1.05	0.0398	0.539	0.0377	0.012	NS
PCB 172	ng/g	1.91	0.162	<0.0017	<0.0021	0.685	0.66	<0.025	0.326	0.0236	<0.0063	NS
PCB 174	ng/g	10	0.819	0.0147	0.00951	3.42	3.42	0.127	1.65	0.119	0.0389	NS
PCB 175	ng/g	0.444	0.0388	<0.0017	<0.0019	0.169	0.165	0.00762	0.0849	0.00658	<0.0026	NS
PCB 176	ng/g	1.11	0.0934	<0.0012	<0.0014	0.404	0.399	0.0185	0.194	<0.015	<0.0050	NS

TABLE 4

Live Moss Quality Results - PCB Congeners (HRMS)

Veolia

W ½ 06-067-08 W5M

Sample Point		Plot 4	Plot 11	Plot 70	Plot 71	Plot 109	Plot 109*	Plot 110	Plot 114	Plot 123	Plot 402	Alberta Tier 1 - Soils
Sample Date		17-Jun-25	18-Jun-25	16-Jun-25	18-Jun-25	17-Jun-25	17-Jun-25	17-Jun-25	16-Jun-25	16-Jun-25	16-Jun-25	Natural Area
MSI Sample Number	Unit	15867250617006	15867250618010	15867250616004	15867250618011	15867250617007	15867250617008	15867250617009	15867250617005	15867250616001	15867250616002	
PCB Congeners												
PCB 177	ng/g	5.69	0.467	<0.0058	<0.0052	1.91	1.96	0.077	0.999	0.0762	0.0264	NS
PCB 178	ng/g	2.1	0.182	<0.0025	<0.0020	0.736	0.731	0.0368	0.381	0.0278	<0.01	NS
PCB 179	ng/g	3.39	0.283	<0.0053	<0.0028	1.21	1.24	0.0542	0.628	0.0471	<0.011	NS
PCB 180 + 193	ng/g	23.7	1.96	0.0267	<0.016	7.97	8.06	0.324	3.94	0.283	0.083	NS
PCB 181	ng/g	0.0433	<0.0042	<0.0016	<0.0018	0.0182	<0.016	<0.0030	0.00912	<0.0017	<0.0023	NS
PCB 182	ng/g	<0.053	<0.0059	<0.0015	<0.0017	0.024	<0.023	<0.0029	<0.013	<0.0017	<0.0022	NS
PCB 183	ng/g	5.88	0.527	<0.0068	0.0054	2.14	2.05	0.0868	1.02	0.0757	0.0232	NS
PCB 184	ng/g	0.0106	<0.00093	<0.0010	<0.0012	<0.0040	0.00397	<0.0020	<0.0016	<0.0011	<0.0015	NS
PCB 185	ng/g	0.719	0.0409	<0.0016	<0.0017	0.196	0.263	0.00988	0.135	0.00635	<0.0038	NS
PCB 186	ng/g	<0.0016	<0.0010	<0.0011	<0.0013	<0.0022	<0.0016	<0.0022	<0.0017	<0.0012	<0.0017	NS
PCB 187	ng/g	11	0.939	<0.016	<0.0079	3.81	3.77	0.163	1.9	0.144	0.0429	NS
PCB 188	ng/g	0.0204	<0.0021	<0.00095	<0.0010	<0.0083	0.00842	<0.0018	<0.0028	<0.0011	<0.0014	NS
PCB 189	ng/g	0.489	<0.034	<0.0015	<0.0017	0.168	0.178	<0.0051	0.0885	<0.0039	<0.0032	NS
PCB 190	ng/g	2.04	0.15	<0.0012	<0.0013	0.661	0.668	0.0253	0.335	0.0216	<0.0071	NS
PCB 191	ng/g	0.421	0.0384	<0.0014	<0.0015	0.149	0.154	<0.0077	0.0833	<0.0046	0.00237	NS
PCB 192	ng/g	<0.0019	<0.0012	<0.0013	<0.0015	<0.0026	<0.0019	<0.0025	<0.0020	<0.0014	<0.0019	NS
PCB 194	ng/g	4.97	0.346	<0.0042	0.00511	1.55	1.72	0.0554	0.808	0.0474	0.0151	NS
PCB 195	ng/g	2.19	0.158	<0.0033	<0.0027	0.65	0.721	0.0245	0.365	0.0249	<0.0038	NS
PCB 196	ng/g	2.89	0.197	0.00355	<0.0027	0.923	0.967	<0.034	0.476	0.0331	<0.0078	NS
PCB 197	ng/g	0.163	0.0134	<0.0010	<0.0016	0.0508	0.0582	0.00314	0.0323	<0.0017	<0.0020	NS
PCB 198 + 199	ng/g	5.56	0.381	<0.0071	<0.0049	1.75	1.84	0.0684	0.901	<0.052	<0.015	NS
PCB 200	ng/g	0.625	0.0491	<0.0013	<0.0019	0.204	0.223	<0.0068	0.106	0.0056	<0.0024	NS
PCB 201	ng/g	0.581	0.0493	<0.0012	<0.0017	0.206	0.209	<0.0060	0.113	<0.0059	<0.0022	NS
PCB 202	ng/g	0.706	0.0542	0.00188	<0.0014	0.218	0.238	<0.0081	0.128	0.0111	<0.0030	NS
PCB 203	ng/g	2.72	0.2	<0.0032	0.00248	0.865	0.941	<0.031	0.466	<0.034	<0.0050	NS
PCB 204	ng/g	<0.00093	<0.0013	<0.0012	<0.0018	<0.0010	<0.00084	<0.00090	<0.00079	<0.0018	<0.0023	NS
PCB 205	ng/g	0.343	<0.026	<0.0019	<0.0033	<0.1	0.131	<0.0044	0.0628	<0.0037	<0.0032	NS
PCB 206	ng/g	1.19	0.0982	<0.0085	<0.0077	0.36	0.451	0.0256	0.223	<0.011	<0.01	NS
PCB 207	ng/g	0.145	0.0158	<0.0042	<0.0037	0.0589	0.0538	<0.0043	0.0321	<0.0058	<0.0059	NS
PCB 208	ng/g	0.156	<0.016	<0.0036	<0.0030	<0.057	0.066	<0.0036	0.0331	<0.0048	<0.0054	NS
PCB 209	ng/g	0.443	0.0268	<0.0023	<0.0032	0.0405	<0.0014	0.0082	<0.0014	<0.0021	<0.0052	NS
Total MonoCB	ng/g	0.035	0.00512	<0.00099	<0.00085	0.0112	0.02	<0.0012	0.0243	<0.0016	<0.0012	NS
Total DiCB	ng/g	0.777	0.187	0.0731	0.0816	0.593	0.585	0.1	0.4	0.0793	0.0656	NS
Total TriCB	ng/g	3.9	0.554	0.0246	0.0474	2.26	2.39	0.112	1.22	0.0823	0.0345	NS
Total TetraCB	ng/g	22.7	2.73	0.0736	0.0619	10.1	9.73	0.403	5.83	0.512	0.0936	NS
Total PentaCB	ng/g	97.1	9.51	0.149	0.0973	37.2	36.9	1.67	21.4	1.79	0.404	NS
Total HexaCB	ng/g	143	12.8	0.202	0.0712	51.7	52.3	2.13	27.5	2.18	0.441	NS
Total HeptaCB	ng/g	82.5	6.81	0.0414	0.0176	28.1	28.3	1.11	14	0.991	0.266	NS
Total OctaCB	ng/g	20.8	1.45	0.00544	0.00759	6.42	7.05	0.151	3.46	0.122	0.0151	NS
Total NonaCB	ng/g	1.49	0.114	<0.0036	<0.0030	0.419	0.57	0.0256	0.289	<0.0048	<0.0054	NS
Total DecaCB	ng/g	0.443	0.0268	<0.0023	<0.0032	0.0405	<0.0014	0.0082	<0.0014	<0.0021	<0.0052	NS
Total PCB Congeners	ng/g	373	34.2	0.57	0.384	137	138	5.71	74.1	5.75	1.32	$1300^{EL,EW}$
Total PCB Congeners	mg/kg	0.373	0.0342	0.00057	0.000384	0.137	0.138	0.00571	0.0741	0.00575	0.00132	$1.3^{EL,EW}$

Notes:

* - duplicate sample

TEQ - toxic equivalency quotient

EL - indicates guideline for Livestock Soil and Food Ingestion exposure pathway

EW - indicates guideline for Wildlife Soil and Food Ingestion exposure pathway

ABT1 - *Alberta Tier 1 Soil and Groundwater Remediation Guidelines* (EPA 2024)

TABLE 5

Live Moss Quality Results - Dioxin Like PCBs, PCDDs and PCDFs

Veolia

W ½ 06-067-08 W5M

Sample Point		Plot 4	Plot 11	Plot 70	Plot 71	Plot 109	Plot 109*	Plot 110	Plot 114	Plot 123	Plot 402	Alberta Tier 1 - Soils
Sample Date		17-Jun-25	18-Jun-25	16-Jun-25	18-Jun-25	17-Jun-25	17-Jun-25	17-Jun-25	16-Jun-25	16-Jun-25	16-Jun-25	Natural Area
MSI Sample Number	Unit	15867250617006	15867250618010	15867250616004	15867250618011	15867250617007	15867250617008	15867250617009	15867250617005	15867250616001	15867250616002	
PCB Congeners												
Total PCB Congeners	mg/kg	0.373	0.0342	0.00057	0.000384	0.137	0.138	0.00571	0.0741	0.00575	0.00132	1.3[EL,EW]
Lower Bound PCB TEQ	ng/kg	50	4.83	0.0011	0.000671	17.4	18.4	0.0202	7.3	0.0222	0.00392	NS
Mid Point PCB TEQ	ng/kg	50	4.83	0.201	0.162	17.4	18.4	0.233	7.3	0.438	0.183	NS
Upper Bound PCB TEQ	ng/kg	50	4.83	0.403	0.324	17.4	18.4	0.448	7.3	0.852	0.363	NS
PCDDs												
2,3,7,8-Tetra CDD	ng/kg	<0.21	<0.34	<0.24	<0.20	0.378	0.213	<0.25	0.234	<0.30	<0.18	NS
1,2,3,7,8-Penta CDD	ng/kg	1.15	0.368	<0.28	<0.15	1.46	<0.54	<0.31	0.6	<0.30	<0.21	NS
1,2,3,4,7,8-Hexa CDD	ng/kg	1.21	0.446	0.323	<0.23	1.11	<0.77	<0.41	0.754	<0.22	<0.25	NS
1,2,3,6,7,8-Hexa CDD	ng/kg	<2.6	0.722	0.526	<0.23	2.95	2.26	<0.39	<1.3	<0.22	<0.34	NS
1,2,3,7,8,9-Hexa CDD	ng/kg	1.64	0.566	<0.45	<0.22	2.38	1.45	<0.38	<0.80	<0.21	<0.24	NS
1,2,3,4,6,7,8-Hepta CDD	ng/kg	40.5	<6.6	6.78	<2.2	34.7	24.1	<2.4	16.6	<2.2	5.19	NS
1,2,3,4,6,7,8,9-Octa CDD	ng/kg	161	20.7	43.8	13.9	94.5	77.7	9.31	59.2	9.21	27.9	NS
Total Tetra CDD	ng/kg	0.242	0.748	0.376	<0.20	2.16	0.883	<0.25	0.234	<0.30	<0.18	NS
Total TetraCDD Homologues	-	2	1	1	0	5	2	0	1	0	0	NS
Total Penta CDD	ng/kg	1.78	1.31	0.398	<0.15	11.7	6.4	0.406	3.75	0.766	<0.21	NS
Total PentaCDD Homologues	-	2	3	1	0	6	4	1	3	1	0	NS
Total Hexa CDD	ng/kg	11	7.05	2.62	<0.23	35.2	25.8	2.18	<1.3	0.624	<0.34	NS
Total HexaCDD Homologues	-	3	5	3	0	6	5	2	0	1	0	NS
Total Hepta CDD	ng/kg	86.3	8.59	13.8	2.85	72	50.6	3.91	35.4	<2.2	5.19	NS
Total HeptaCDD Homologues	-	2	1	2	1	2	2	1	2	0	1	NS
PCDFs												
2,3,7,8-Tetra CDF	ng/kg	19.3	3.69	<0.32	<0.16	6.06	6.78	1.09	<1.7	<0.62	<0.37	NS
1,2,3,7,8-Penta CDF	ng/kg	4.09	0.851	<0.1	<0.1	2.09	1.94	<0.4	<1.0	0.389	<0.2	NS
2,3,4,7,8-Penta CDF	ng/kg	9.78	2.14	<0.14	<0.16	4.3	3.65	0.409	1.46	<0.29	<0.22	NS
1,2,3,4,7,8-Hexa CDF	ng/kg	3.94	0.813	<0.22	<0.100	3.26	2.43	0.302	1.31	<0.12	<0.28	NS
1,2,3,6,7,8-Hexa CDF	ng/kg	3.2	0.804	<0.22	<0.098	3.03	2.21	<0.27	<1.2	0.273	<0.28	NS
1,2,3,7,8,9-Hexa CDF	ng/kg	1.33	<0.19	<0.32	<0.15	<1.0	<0.58	<0.27	0.657	<0.15	<0.41	NS
2,3,4,6,7,8-Hexa CDF	ng/kg	5.04	1.02	<0.26	<0.11	4.93	3.67	<0.22	2.82	<0.17	<0.30	NS
1,2,3,4,6,7,8-Hepta CDF	ng/kg	18.4	<3.2	1.36	<0.60	16.5	12.3	1.74	9.51	1.07	<0.61	NS
1,2,3,4,7,8,9-Hepta CDF	ng/kg	<1.8	<0.61	<0.31	<0.62	<1.3	<0.72	<0.34	<1.0	<0.37	<0.19	NS
1,2,3,4,6,7,8,9-Octa CDF	ng/kg	<18	3.17	<3.2	<0.89	12.7	9.99	<1.3	9.21	<1.5	1.58	NS
Total Tetra CDF	ng/kg	102	32.2	0.674	<0.16	32.7	25.3	1.97	3.25	1.15	<0.37	NS
Total TetraCDF Homologues	-	15	9	1	0	15	13	3	5	4	0	NS
Total Penta CDF	ng/kg	63.8	8.7	<0.14	<0.16	31.1	21.3	1.3	7.11	1.13	0.515	NS
Total PentaCDF Homologues	-	10	5	0	0	11	9	2	7	3	2	NS
Total Hexa CDF	ng/kg	32.3	5.74	0.355	0.346	21.2	19.8	0.525	11	0.273	<0.41	NS
Total HexaCDF Homologues	-	9	5	1	1	6	8	2	6	1	0	NS
Total Hepta CDF	ng/kg	25.8	<3.2	1.36	<0.62	18.9	12.3	1.74	11.3	1.07	<0.61	NS
Total HeptaCDF Homologues	-	3	0	1	0	2	1	1	2	1	0	NS
Lower Bound PCDD/PCDF TEQ	ng/kg	8.42	1.85	0.179	0.00418	6.11	3.64	0.282	2.11	0.0522	0.0607	NS
Mid Point PCDD/PCDF TEQ	ng/kg	8.66	2.08	0.557	0.288	6.16	3.98	0.68	2.38	0.498	0.422	NS
Upper Bound PCDD/PCDF TEQ	ng/kg	8.9	2.32	0.929	0.571	6.22	4.32	1.08	2.65	0.941	0.784	NS
Total TEQ	ng/kg	58.66	6.91	0.758	0.45	23.56	22.38	0.913	9.68	0.936	0.605	250[EL,EW]

Notes:

* - duplicate sample

TEQ - toxic equivalency quotient

EL - indicates guideline for Livestock Soil and Food Ingestion exposure pathway

EW - indicates guideline for Wildlife Soil and Food Ingestion exposure pathway

ABT1 - *Alberta Tier 1 Soil and Groundwater Remediation Guidelines* (EPA 2024)

TABLE 6

Historical Live Moss Quality Results - Organic Parameters

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	Total Aroclors mg/kg	PCB Concentration (Congeners) mg/kg	PCB TEQ ng TEQ/kg[1]	PCDD/PCDF TEQ ng TEQ/kg[1]	Total TEQ ng TEQ/kg[1]
Plot 4	26-Aug-03	1.6	---	---	130	---
Plot 4	1-Sep-04	1.8	---	---	93.7	---
Plot 4	30-Aug-05	1.3	0.24	55.75	40	95.75
Plot 4	16-May-06	1.6	1.9	198.99	74	272.99
Plot 4	5-Jun-07	1.1	0.77	120.73	37	157.73
Plot 4	15-May-08	0.82	0.96	122.8	84.09	206.89
Plot 4	1-Jun-08	---	0.96	131.22	91.35	222.57
Plot 4	12-Jun-09	2.11	1.05	170.41	60.47	230.88
Plot 4	18-Jul-09	2.2	0.861	94.36	23.77	118.13
Plot 4	25-May-10	1.4	1.95	131.89	42.38	174.27
Plot 4	31-May-11	1.34	1.73	128	29.1	157.1
Plot 4	1-Jun-12	0.6	1.62	192	39.17	231.17
Plot 4	5-Jun-13	1.63	1.98	216	61.78	277.78
Plot 4	29-May-14	0.427	0.336	46.8	68.6	115.4
Plot 4	3-Jun-15	1.39	0.983	112	26.4	138.4
Plot 4	31-May-16	---	0.436	43.5	10.3	53.8
Plot 4	31-May-17	---	0.875	105	26.7	131.7
Plot 4	29-May-18	---	1.09	136	34.4	170.4
Plot 4	31-May-19	0.346	0.862	101	29	130
Plot 4	3-Jun-20	---	0.43	50.3	8.45	58.75
Plot 4	8-Jun-22	---	0.221	23.8	5.69	29.49
Plot 4	19-Jun-23	---	0.159	20.8	2.06	22.86
Plot 4	29-May-24	0.411	0.199	26.2	4.21	30.41
Plot 4	17-Jun-25	---	0.373	50	8.66	58.66
Plot 11	26-Aug-03	0.19	---	---	25.5	---
Plot 11	31-Aug-04	0.16	---	---	16.9	---
Plot 11	31-Aug-05	0.14	0.11	15.88	11	26.88
Plot 11	16-May-06	0.19	0.11	21.36	17	38.36
Plot 11	5-Jun-07	0.14	0.17	20.34	13	33.34
Plot 11	14-May-08	0.14	0.14	23.31	15.33	38.64
Plot 11	1-Jun-08	---	0.14	23.57	17.76	41.33
Plot 11	12-Jun-09	0.15	0.0645	12.4	8.81	21.21
Plot 11	18-Jul-09	0.085	0.0932	9.81	8.41	18.22
Plot 11	26-May-10	0.081	0.187	22.36	14.49	36.85
Plot 11	31-May-11	0.085	0.193	20.3	8.38	28.68
Plot 11	1-Jun-12	<0.050	0.169	23.8	12.39	36.19
Plot 11	5-Jun-13	0.138	0.144	19.4	6.98	26.38
Plot 11	31-May-14	<0.050	0.0167	2.33	11.3	13.63
Plot 11	3-Jun-15	<0.050	0.117	17.9	11.1	29
Plot 11	31-May-16	---	0.0262	3.05	1.38	4.43
Plot 11	1-Jun-17	---	0.0742	9.23	7.65	16.88
Plot 11	31-May-18	---	0.0559	7.2	3.07	10.27
Plot 11	1-Jun-19	<0.050	0.0508	6.82	4	10.82
Plot 11	2-Jun-20	---	0.0288	3.44	0.969	4.409
Plot 11	8-Jun-22	---	0.017	1.29	0.643	1.933
Plot 11	29-Jun-23	---	0.0236	3.65	0.77	4.42
Plot 11	28-May-24	<0.025	0.0172	2.32	0.761	3.081
Plot 11	18-Jun-25	---	0.0342	4.83	2.08	6.91
Plot 28	30-Aug-04	<0.01	---	---	---	---
Plot 28	12-Jun-09	<0.010	---	---	---	---
Plot 28	5-Jun-13	<0.050	0.0118	1.2	1.17	2.37
Plot 28	30-May-14	<0.050	---	---	---	---
Plot 28	3-Jun-15	<0.050	0.00604	1.48	0.699	2.179

TABLE 6

Historical Live Moss Quality Results - Organic Parameters

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	Total Aroclors mg/kg	PCB Concentration (Congeners) mg/kg	PCB TEQ ng TEQ/kg[1]	PCDD/PCDF TEQ ng TEQ/kg[1]	Total TEQ ng TEQ/kg[1]
Plot 70	26-Aug-03	<0.02	---	---	1.16	---
Plot 70	30-Aug-04	<0.01	---	---	3.03	---
Plot 70	31-Aug-05	<0.02	0.0074	0.05	0.24	0.29
Plot 70	17-May-06	<0.01	0.0021	0.02	0.5	0.52
Plot 70	5-Jun-07	<0.01	0.0017	0.01	0.49	0.5
Plot 70	14-May-08	<0.01	0.0013	1.69	0.32	2.01
Plot 70	1-Jun-08	---	0.0013	1.49	0.34	1.83
Plot 70a	12-Jun-09	<0.010	0.00129	0.09	0.69	0.78
Plot 70a	19-Jul-09	<0.0010	0.0243	0.01	1.83	1.84
Plot 70	25-May-10	<0.050	0.00203	0.01	1.45	1.46
Plot 70	31-May-11	<0.050	0.00359	0.01	1.2	1.21
Plot 70	1-Jun-12	<0.050	0.000772	0.01	0.78	0.79
Plot 70	5-Jun-13	<0.050	0.00311	0.01	0.94	0.95
Plot 70	31-May-14	<0.050	0.000963	0.00294	5.37	5.37294
Plot 70	4-Jun-15	<0.050	0.000506	0.155	0.459	0.614
Plot 70	2-Jun-16	---	0.000131	0.0598	0.148	0.2078
Plot 70	1-Jun-17	---	0.000137	0.0264	0.272	0.2984
Plot 70	31-May-18	---	0.000521	0.0469	0.354	0.4009
Plot 70	1-Jun-19	<0.050	0.000455	0.0564	0.623	0.6794
Plot 70	2-Jun-20	---	0.000203	0.0241	0.12	0.1441
Plot 70	7-Jun-22	---	0.000136	0.0177	0.22	0.2377
Plot 70	19-Jun-23	---	0.0000653	0.127	0.117	0.244
Plot 70	30-May-24	<0.029	0.0000917	0.0178	0.277	0.2948
Plot 70	16-Jun-25	---	0.00057	0.201	0.557	0.758
Plot 71	26-Aug-03	<0.02	---	---	0.62	---
Plot 71	2-Sep-04	<0.01	---	---	2.92	---
Plot 71	31-Aug-05	<0.02	0.0037	0.02	0.65	0.67
Plot 71	16-May-06	<0.01	0.0012	0	0.48	0.48
Plot 71	5-Jun-07	<0.01	0.0012	0.01	0.35	0.36
Plot 71	14-May-08	<0.01	0.004	1.49	0.72	2.21
Plot 71	1-Jun-08	---	0.004	1.21	0.6	1.81
Plot 71	12-Jun-09	<0.010	0.000847	ND	0.42	0.42
Plot 71	17-Jul-09	<0.0010	0.00249	ND	0.32	0.32
Plot 71	25-May-10	<0.050	0.00228	0.01	0.85	0.86
Plot 71	31-May-11	<0.050	0.0017	ND	0.23	0.23
Plot 71	1-Jun-12	<0.050	<0.00001	ND	0.76	0.76
Plot 71	5-Jun-13	<0.050	0.00215	0.01	0.21	0.22
Plot 71	31-May-14	<0.050	0.00023	0.000404	0.717	0.717404
Plot 71	4-Jun-15	<0.050	0.000954	0.232	0.461	0.693
Plot 71	2-Jun-16	---	0.000135	0.0255	0.26	0.2855
Plot 71	1-Jun-17	---	0.000291	0.0489	0.208	0.2569
Plot 71	31-May-18	---	0.000118	0.027	0.13	0.157
Plot 71	1-Jun-19	<0.050	0.000283	0.0332	0.194	0.2272
Plot 71	4-Jun-20	---	0.000142	0.0211	0.227	0.2481
Plot 71	6-Jun-22	---	0.00019	0.0113	0.133	0.1443
Plot 71	19-Jun-23	---	0.0000748	0.00956	0.121	0.13056
Plot 71	30-May-24	<0.018	0.000104	0.0247	0.222	0.2467
Plot 71	18-Jun-25	---	0.000384	0.162	0.288	0.45
Plot 109	26-Aug-03	0.41	---	---	53.5	---
Plot 109	2-Sep-04	0.34	---	---	34.2	---
Plot 109	31-Aug-05	0.49	0.15	26.92	23	49.92
Plot 109	16-May-06	0.33	0.36	47.11	28	75.11
Plot 109	5-Jun-07	0.51	0.27	40.5	15	55.5

TABLE 6

Historical Live Moss Quality Results - Organic Parameters

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	Total Aroclors mg/kg	PCB Concentration (Congeners) mg/kg	PCB TEQ ng TEQ/kg[1]	PCDD/PCDF TEQ ng TEQ/kg[1]	Total TEQ ng TEQ/kg[1]
Plot 109	14-May-08	0.47	0.5	63.75	53.77	117.52
Plot 109	1-Jun-08	---	0.5	67.18	58.91	126.09
Plot 109	12-Jun-09	0.344	0.274	46.16	30.25	76.41
Plot 109	18-Jul-09	0.36	0.466	46.78	37.55	84.33
Plot 109	26-May-10	0.463	0.595	56.08	22.93	79.01
Plot 109	31-May-11	0.534	0.759	50.3	21.89	72.19
Plot 109	1-Jun-12	0.226	0.61	55.7	23.24	78.94
Plot 109	5-Jun-13	0.474	0.724	82	27.5	109.5
Plot 109	30-May-14	0.612	0.236	24	51.9	75.9
Plot 109	4-Jun-15	0.747	0.543	49	26.2	75.2
Plot 109	31-May-16	---	0.164	14.8	5.06	19.86
Plot 109	31-May-17	---	0.506	53	28.5	81.5
Plot 109	30-May-18	---	0.754	80.6	70.7	151.3
Plot 109	30-May-19	0.228	0.348	37.4	21.4	58.8
Plot 109	3-Jun-20	---	0.21	22.9	6.03	28.93
Plot 109	7-Jun-22	---	0.0919	7.74	2.72	10.46
Plot 109	20-Jun-23	---	0.0684	8.52	1.49	10.01
Plot 109	29-May-24	0.36	0.0913	11.9	3.05	14.95
Plot 109	17-Jun-25	---	0.137	17.4	6.16	23.56
Plot 109*	17-Jun-25	---	0.138	18.4	3.98	22.38
Plot 110	26-Aug-03	0.07	---	---	10.4	---
Plot 110	31-Aug-04	0.04	---	---	7.07	---
Plot 110	31-Aug-05	0.03	0.035	25.32	0.29	25.61
Plot 110	16-May-06	0.06	0.042	4.84	8.8	13.64
Plot 110	5-Jun-07	0.03	0.027	0.44	3.6	4.04
Plot 110	14-May-08	0.02	0.037	5.3	4.57	9.87
Plot 110	1-Jun-08	---	0.037	5.1	5.7	10.8
Plot 110	12-Jun-09	0.031	0.0204	3.44	3.86	7.3
Plot 110	18-Jul-09	0.041	0.0316	2.65	3.35	6
Plot 110	26-May-10	<0.050	0.0657	5.17	4.6	9.77
Plot 110	31-May-11	<0.050	0.052	3.85	4.88	8.73
Plot 110	1-Jun-12	<0.050	0.0342	5.22	4.63	9.85
Plot 110	4-Jun-13	<0.050	0.0376	3.67	3.18	6.85
Plot 110	30-May-14	<0.050	0.00629	0.72	6.28	7
Plot 110	4-Jun-15	<0.050	0.015	1.74	1.64	3.38
Plot 110	31-May-16	---	0.00455	0.441	0.695	1.136
Plot 110	31-May-17	---	0.0169	1.85	3.13	4.98
Plot 110	30-May-18	---	0.0133	1.5	1.37	2.87
Plot 110	30-May-19	<0.050	0.0101	1.24	1.71	2.95
Plot 110	3-Jun-20	---	0.00351	0.429	0.378	0.807
Plot 110	7-Jun-22	---	0.00263	0.255	0.307	0.562
Plot 110	20-Jun-23	---	0.00237	0.333	0.192	0.525
Plot 110	29-May-24	<0.021	0.011	1.34	0.871	2.211
Plot 110	17-Jun-25	---	0.00571	0.233	0.68	0.913
Plot 114	26-Aug-03	0.19	---	---	17.4	---
Plot 114	31-Aug-04	0.3	---	---	14.5	---
Plot 114	30-Aug-05	0.2	0.11	17.82	3.8	21.62
Plot 114	15-May-06	0.11	0.21	29.82	8.1	37.92
Plot 114	4-Jun-07	0.21	0.69	44.42	14	58.42
Plot 114	14-May-08	0.16	0.097	12.69	3.43	16.12
Plot 114	1-Jun-08	---	0.097	13.35	4.1	17.45
Plot 114	12-Jun-09	0.377	0.19	23.44	12.99	36.43
Plot 114	18-Jul-09	0.21	0.217	20.94	4.37	25.31
Plot 114	26-May-10	0.172	0.349	30.65	9.18	39.83

TABLE 6

Historical Live Moss Quality Results - Organic Parameters

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	Total Aroclors mg/kg	PCB Concentration (Congeners) mg/kg	PCB TEQ ng TEQ/kg[1]	PCDD/PCDF TEQ ng TEQ/kg[1]	Total TEQ ng TEQ/kg[1]
Plot 114	31-May-11	0.249	0.497	35.6	12.57	48.17
Plot 114	1-Jun-12	0.123	0.235	24.5	9.09	33.59
Plot 114	4-Jun-13	0.052	0.378	32.8	8.92	41.72
Plot 114	31-May-14	0.283	0.0874	10.2	21	31.2
Plot 114	4-Jun-15	0.201	0.17	19	8.02	27.02
Plot 114	1-Jun-16	---	0.127	8.95	3.82	12.77
Plot 114	31-May-17	---	0.0643	6.04	3.43	9.47
Plot 114	30-May-18	---	0.202	19.8	8.49	28.29
Plot 114	31-May-19	0.079	0.135	14.8	9.13	23.93
Plot 114	3-Jun-20	---	0.0364	4.81	0.689	5.499
Plot 114	7-Jun-22	---	0.041	2.98	0.949	3.929
Plot 114	20-Jun-23	---	0.0363	3.7	0.805	4.505
Plot 114	30-May-24	0.053	0.0335	3.51	0.804	4.314
Plot 114	16-Jun-25	---	0.0741	7.3	2.38	9.68
Plot 117	26-Aug-03	0.05	---	---	5.95	---
Plot 117	31-Aug-04	0.04	---	---	5.42	---
Plot 117	30-Aug-05	0.06	0.039	4.5	1.8	6.3
Plot 117	15-May-06	0.11	0.058	8.46	3.6	12.06
Plot 117	4-Jun-07	0.11	0.045	7.03	2.7	9.73
Plot 117	14-May-08	0.04	0.033	6.01	1.68	7.69
Plot 117	1-Jun-08	---	0.033	5.81	1.89	7.7
Plot 117	12-Jun-09	0.071	0.0365	6.7	1.66	8.36
Plot 117	18-Jul-09	0.086	0.0509	4.61	2.79	7.4
Plot 117	26-May-10	<0.050	0.0701	6.76	1.24	8
Plot 117	31-May-11	<0.050	0.137	10.3	4.28	14.58
Plot 117	1-Jun-12	<0.050	0.0353	0.19	1.27	1.46
Plot 117	4-Jun-13	<0.050	0.0997	10.2	3.13	13.33
Plot 117	31-May-14	<0.050	0.0125	0.0451	3.97	4.0151
Plot 117	4-Jun-15	<0.050	0.0657	5.86	6.26	12.12
Plot 117	1-Jun-16	---	0.0159	1.44	0.697	2.137
Plot 117	31-May-17	---	0.0363	3.8	2.36	6.16
Plot 117	30-May-18	---	0.0257	2.82	1.51	4.33
Plot 117	31-May-19	<0.050	0.0284	3.29	1.94	5.23
Plot 117	3-Jun-20	---	0.00632	0.741	0.221	0.962
Plot 117	7-Jun-22	---	0.00441	0.319	0.177	0.496
Plot 117	20-Jun-23	---	0.00547	0.579	0.293	0.872
Plot 117	30-May-24	<0.023	0.00912	0.98	0.439	1.419
Plot 123	26-Aug-03	0.02	---	---	2.69	---
Plot 123	30-Aug-04	<0.01	---	---	9.3	---
Plot 123	30-Aug-05	<0.02	0.0062	0.08	0.72	0.8
Plot 123	16-May-06	<0.01	0.014	1.89	2	3.89
Plot 123	5-Jun-07	0.02	0.011	1.67	2.2	3.87
Plot 123	14-May-08	0.01	0.015	3.34	1.43	4.77
Plot 123	1-Jun-08	---	0.015	2.88	1.71	4.59
Plot 123	12-Jun-09	<0.010	0.0107	2.05	1.37	3.42
Plot 123	18-Jul-09	<0.0010	0.0149	1.33	2.02	3.35
Plot 123	26-May-10	<0.050	0.0104	1.15	0.24	1.39
Plot 123	31-May-11	<0.050	0.0243	1.83	1.91	3.74
Plot 123	1-Jun-12	<0.050	0.00345	0.04	0.63	0.67
Plot 123	4-Jun-13	<0.050	0.0202	3.01	2.95	5.96
Plot 123	30-May-14	<0.050	0.000549	0.00199	1.78	1.78199
Plot 123	3-Jun-15	<0.050	0.0109	1.28	1.16	2.44
Plot 123	30-May-16	---	0.00398	0.455	0.303	0.758

TABLE 6

Historical Live Moss Quality Results - Organic Parameters

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	Total Aroclors mg/kg	PCB Concentration (Congeners) mg/kg	PCB TEQ ng TEQ/kg[1]	PCDD/PCDF TEQ ng TEQ/kg[1]	Total TEQ ng TEQ/kg[1]
Plot 123	31-May-17	---	0.00478	0.529	0.53	1.059
Plot 123	31-May-18	---	0.0106	1.2	0.496	1.696
Plot 123	30-May-19	<0.050	0.00316	0.379	0.361	0.74
Plot 123	2-Jun-20	---	0.0128	1.54	0.912	2.452
Plot 123	6-Jun-22	---	0.00244	0.318	0.124	0.442
Plot 123	19-Jun-23	---	0.00143	0.222	0.118	0.34
Plot 123	28-May-24	<0.027	0.00267	0.394	0.368	0.762
Plot 123	16-Jun-25	---	0.00575	0.438	0.498	0.936
Plot 402	26-Aug-03	<0.02	---	---	0.788	---
Plot 402	1-Sep-04	<0.01	---	---	1.32	---
Plot 402	30-Aug-05	<0.02	0.0049	0.03	0.85	0.88
Plot 402	16-May-06	<0.01	0.0053	0.06	0.49	0.55
Plot 402	5-Jun-07	<0.01	0.0023	0.04	0.44	0.48
Plot 402	14-May-08	<0.01	0.0064	1.52	0.54	2.06
Plot 402	1-Jun-08	---	0.0064	1.31	0.57	1.88
Plot 402	12-Jun-09	<0.010	0.00203	0.01	0.37	0.38
Plot 402	17-Jul-09	<0.0010	0.00569	0.21	0.73	0.94
Plot 402	25-May-10	<0.050	0.00273	0.39	0.41	0.8
Plot 402	31-May-11	<0.050	0.00393	0.38	0.23	0.61
Plot 402	1-Jun-12	<0.050	0.00106	1.33	1.4	2.73
Plot 402	4-Jun-13	<0.050	0.00682	0.02	0.54	0.56
Plot 402	30-May-14	<0.050	0.000678	0.00191	1.19	1.19191
Plot 402	4-Jun-15	<0.050	0.00194	0.236	1.03	1.266
Plot 402	30-May-16	---	0.000675	0.078	0.136	0.214
Plot 402	31-May-17	---	0.0013	0.132	0.213	0.345
Plot 402	29-May-18	---	0.00144	0.157	0.29	0.447
Plot 402	30-May-19	<0.050	0.00139	0.159	0.372	0.531
Plot 402	2-Jun-20	---	0.00188	0.274	0.318	0.592
Plot 402	6-Jun-22	---	0.00172	0.227	0.209	0.436
Plot 402	20-Jun-23	---	0.000267	0.131	0.109	0.24
Plot 402	27-May-24	<0.029	0.000434	0.0296	0.232	0.2616
Plot 402	16-Jun-25	---	0.00132	0.183	0.422	0.605

Notes:

ND - results reported as zero in lab report

[1] - midpoint estimate used for TEQ

TABLE 7

Labrador Tea Leaves Quality Results - Metals

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	Al %	Al mg/kg	Sb mg/kg	As mg/kg	Ba mg/kg	Be mg/kg	B mg/kg	Cd mg/kg	Cr mg/kg	Co mg/kg	Cu mg/kg	Fe mg/kg	Pb mg/kg	Li mg/kg	Mn mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	Se mg/kg	Ag mg/kg	Sr mg/kg	Tl mg/kg	Sn mg/kg	Ti mg/kg	U mg/kg	V mg/kg	Zn mg/kg	Zr mg/kg
Plot 4	17-Jun-25	15867250617106	0.0095	95.3	<0.010	0.051	159	<0.010	27.2	0.0124	0.133	0.069	3.4	110	0.201	<0.50	1210	0.0198	0.031	0.6	<0.050	<0.0050	7.66	0.0033	<0.10	2.17	0.0037	0.16	39.7	<0.20
Plot 11	18-Jun-25	15867250618110	0.0025	24.9	<0.010	<0.020	54.5	<0.010	10.7	<0.0050	<0.050	<0.020	1.27	34.6	0.03	<0.50	620	0.0068	<0.020	<0.20	<0.050	<0.0050	3.14	0.0042	<0.10	0.7	<0.0020	<0.10	12.3	<0.20
Plot 11	18-Jun-25	15867250618110R	0.0070	69.6	<0.010	0.038	144	<0.010	24.5	0.0072	0.093	0.026	3.26	91.2	0.077	<0.50	1830	---	<0.020	0.31	<0.050	<0.0050	8.16	0.0157	<0.10	1.59	0.0026	0.11	32.3	<0.20
Plot 70	16-Jun-25	15867250616104	0.0090	90.3	<0.010	0.028	129	<0.010	25.2	0.0066	0.083	0.037	3.23	87.1	0.051	<0.50	2540	0.011	<0.020	0.43	<0.050	<0.0050	4.51	0.0415	<0.10	1.28	0.0023	0.1	30	<0.20
Plot 71	18-Jun-25	15867250618111	0.0062	62.3	<0.010	0.028	112	<0.010	27.1	0.0089	0.077	0.048	3	78.1	0.051	<0.50	1460	0.0197	0.022	0.41	<0.050	<0.0050	8.13	0.0214	<0.10	1.6	0.0026	<0.10	25.1	<0.20
Plot 109	17-Jun-25	15867250617107	0.0020	19.9	<0.010	<0.020	34.1	<0.010	6.5	<0.0050	<0.050	<0.020	0.86	20.2	0.026	<0.50	282	<0.0050	<0.020	0.21	<0.050	<0.0050	1.62	0.0072	<0.10	0.43	<0.0020	<0.10	6.88	<0.20
Plot 109	17-Jun-25	15867250617107R	0.0067	67.3	<0.010	0.036	131	<0.010	22	0.0056	0.081	0.026	3.23	76.6	0.102	<0.50	994	---	0.03	0.73	<0.050	<0.0050	6.02	0.0572	<0.10	1.24	<0.0020	<0.10	27.6	<0.20
Plot 109*	17-Jun-25	15867250617108	0.0024	24.2	<0.010	<0.020	39.5	<0.010	7.8	<0.0050	<0.050	<0.020	1.02	25.6	0.032	<0.50	373	<0.0050	<0.020	0.25	<0.050	<0.0050	1.93	0.0112	<0.10	0.52	<0.0020	<0.10	8.57	<0.20
Plot 110	17-Jun-25	15867250617109	0.0029	29.1	<0.010	<0.020	50.5	<0.010	9.3	<0.0050	<0.050	<0.020	1.19	34.3	0.116	<0.50	509	0.0057	<0.020	<0.20	<0.050	<0.0050	3.41	<0.0020	<0.10	0.67	<0.0020	<0.10	11.8	<0.20
Plot 110	17-Jun-25	15867250617109R	0.0078	77.8	<0.010	0.036	144	<0.010	29.4	0.0071	0.097	0.027	3.52	92.7	0.325	<0.50	1570	---	0.024	0.32	<0.050	<0.0050	10.1	0.008	<0.10	1.74	0.0025	0.11	34.4	<0.20
Plot 114	17-Jun-25	15867250617105	0.0119	119	0.011	0.053	132	<0.010	20.7	0.0275	0.118	0.11	4.55	104	0.287	<0.50	1010	0.026	0.046	1.48	<0.050	<0.0050	9.83	0.0039	<0.10	1.88	0.0031	0.13	33.6	0.24
Plot 123	16-Jun-25	15867250616101	0.0072	72.3	<0.010	0.021	116	<0.010	22.7	0.0071	0.066	0.044	3.36	68.8	0.051	<0.50	1450	0.0177	<0.020	0.98	<0.050	<0.0050	6.94	<0.0020	<0.10	1.52	<0.0020	<0.10	23.5	0.28
Plot 402	16-Jun-25	15867250616102	0.0097	97	<0.010	0.033	109	<0.010	23	0.0105	0.126	0.05	3.37	101	0.068	<0.50	1020	0.0162	0.022	0.48	<0.050	<0.0050	10.6	0.0121	<0.10	2.64	0.0041	0.15	27.9	0.3
Plot 402*	16-Jun-25	15867250616103	0.0094	93.9	0.022	0.032	108	<0.010	22.9	0.0116	0.119	0.049	3.44	97.5	0.07	<0.50	1000	0.0163	0.021	0.48	<0.050	0.0083	10.6	0.0168	<0.10	2.32	0.0036	0.14	26.9	<0.40

Notes:

* - duplicate sample

R - MSI Sample numbers denoted with an "R" represent an aliquot that was analyzed for the sample. At the laboratory's recommendation, these results were not utilized in any statistical analysis as they may be biased

TABLE 8

Labrador Tea Leaves Quality Results - Macronutrients

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	N %	Ca mg/kg	Mg mg/kg	K mg/kg	Na mg/kg	P mg/kg	S mg/kg
Plot 4	17-Jun-25	15867250617106	1.5	7680	1750	3830	<20	1240	1080
Plot 11	18-Jun-25	15867250618110	1.58	2850	694	1670	<20	523	480
Plot 11	18-Jun-25	15867250618110R	---	7860	1920	4160	<20	1280	1040
Plot 70	16-Jun-25	15867250616104	1.63	6750	1740	3970	<20	1360	1090
Plot 71	18-Jun-25	15867250618111	1.26	6480	1360	2950	21	1030	860
Plot 109	17-Jun-25	15867250617107	1.37	1860	382	1170	<20	349	290
Plot 109	17-Jun-25	15867250617107R		7150	1460	4230	<20	1300	990
Plot 109*	17-Jun-25	15867250617108	1.38	2200	458	1380	<20	411	330
Plot 110	17-Jun-25	15867250617109	1.6	2870	614	1570	<20	472	380
Plot 110	17-Jun-25	15867250617109R	---	8290	1770	4790	<20	1380	1160
Plot 114	17-Jun-25	15867250617105	1.7	7700	1540	3360	<20	1480	1330
Plot 123	16-Jun-25	15867250616101	1.54	7430	1440	3880	<20	1350	1220
Plot 402	16-Jun-25	15867250616102	1.53	7020	1600	4430	<20	1370	1210
Plot 402*	16-Jun-25	15867250616103	1.58	7180	1590	4580	<20	1390	1140

Notes:

* - duplicate sample

R - MSI Sample numbers denoted with an "R" represent an aliquot that was analyzed for the sample. At the laboratory's recommendation, these results were not utilized in any statistical analysis as they may be biased

TABLE 9

Labrador Tea Leaves Quality Results - PCB Congeners (HRMS)

Veolia

W ½ 06-067-08 W5M

Sample Point		Plot 4	Plot 11	Plot 70	Plot 71	Plot 109	Plot 109*	Plot 110	Plot 114	Plot 123	Plot 402
Sample Date		17-Jun-25	18-Jun-25	16-Jun-25	18-Jun-25	17-Jun-25	17-Jun-25	17-Jun-25	17-Jun-25	16-Jun-25	16-Jun-25
MSI Sample Number	Unit	15867250617106	15867250618110	15867250616104	15867250618111	15867250617107	15867250617108	15867250617109	15867250617105	15867250616101	15867250616102
PCB Congeners											
PCB 1	ng/g	<0.0039	<0.0036	<0.0030	<0.0055	<0.0034	<0.0039	<0.0039	<0.0028	<0.0024	<0.0054
PCB 2	ng/g	<0.0066	<0.0035	<0.0029	<0.0040	<0.0033	<0.0094	<0.0038	<0.0087	<0.0059	<0.0051
PCB 3	ng/g	<0.012	<0.0071	<0.0028	<0.0041	<0.0034	<0.016	<0.0038	<0.014	<0.0023	<0.0049
PCB 4	ng/g	<0.0099	<0.016	<0.0078	<0.014	<0.0095	<0.014	<0.013	<0.0087	<0.0058	<0.012
PCB 5	ng/g	<0.0043	<0.0065	<0.0033	<0.0061	<0.0040	<0.0059	<0.0053	<0.0037	<0.0025	<0.0046
PCB 6	ng/g	<0.013	<0.0070	<0.0036	<0.0065	<0.0042	<0.0063	<0.0057	<0.0089	<0.0028	<0.0056
PCB 7	ng/g	<0.0040	<0.0061	<0.0032	<0.0057	<0.0037	<0.0055	<0.0049	<0.0036	<0.0024	<0.0045
PCB 8	ng/g	0.0454	<0.022	<0.018	<0.0063	0.0514	0.0322	<0.0054	<0.039	0.0185	<0.017
PCB 9	ng/g	<0.0046	<0.0069	<0.0037	<0.0064	<0.0042	<0.0063	<0.0056	<0.0041	<0.0028	<0.0052
PCB 10	ng/g	<0.0045	<0.0068	<0.0037	<0.0064	<0.0042	<0.0062	<0.0056	<0.0041	<0.0028	<0.0052
PCB 11	ng/g	0.277	0.445	0.423	0.356	0.328	0.279	0.303	0.358	0.205	0.283
PCB 12 + 13	ng/g	<0.0070	<0.01	<0.0060	<0.0091	<0.0066	<0.011	<0.0076	<0.0048	<0.0039	<0.0083
PCB 14	ng/g	<0.0080	<0.011	<0.0068	<0.01	<0.0074	<0.0097	<0.0086	<0.0054	<0.0044	<0.0094
PCB 15	ng/g	0.0726	0.0157	<0.0074	<0.01	0.0605	0.0568	<0.012	<0.027	<0.0068	<0.0068
PCB 16	ng/g	0.0242	0.0115	<0.0049	<0.0067	0.0224	<0.016	0.0071	0.0246	<0.0033	<0.0062
PCB 17	ng/g	<0.02	<0.017	<0.0058	<0.0061	<0.022	<0.0100	<0.0070	<0.021	<0.0063	<0.0051
PCB 18 + 30	ng/g	0.0482	0.0308	<0.0097	<0.014	0.0502	<0.022	<0.011	0.0406	0.0183	<0.0044
PCB 19	ng/g	<0.0055	<0.0072	<0.0037	<0.0066	<0.0052	<0.0064	<0.0059	0.00554	<0.0033	<0.0058
PCB 20 + 28	ng/g	0.266	0.0545	0.0214	0.021	0.176	0.153	0.0426	0.0925	<0.024	0.0178
PCB 21 + 33	ng/g	0.053	0.0223	0.0109	0.0122	0.0514	0.0428	<0.013	0.0394	<0.013	<0.0086
PCB 22	ng/g	0.0501	0.0199	<0.0063	<0.0078	<0.039	<0.03	<0.012	0.0264	<0.0071	<0.0073
PCB 23	ng/g	<0.0035	<0.0055	<0.0028	<0.0060	<0.0038	<0.0064	<0.0057	<0.0030	<0.0024	<0.0043
PCB 24	ng/g	<0.0031	<0.0048	<0.0024	<0.0040	<0.0032	<0.0040	<0.0042	<0.0036	<0.0050	<0.0036
PCB 25	ng/g	0.0135	<0.0058	<0.0030	<0.0062	<0.0070	0.00966	<0.0060	0.00758	<0.0025	<0.0046
PCB 26 + 29	ng/g	0.0206	<0.0074	<0.0029	<0.0061	0.018	0.0114	<0.0058	<0.012	<0.0045	<0.0044
PCB 27	ng/g	<0.0033	<0.0052	<0.0026	<0.0043	<0.0035	<0.0043	<0.0045	<0.0040	<0.0021	<0.0039
PCB 31	ng/g	0.103	0.036	0.0202	0.0158	0.0901	0.071	0.0262	0.0726	0.0179	0.0132
PCB 32	ng/g	<0.017	<0.0056	<0.0037	<0.0044	0.0193	<0.0074	<0.0043	0.0156	<0.0051	<0.0037
PCB 34	ng/g	<0.0040	<0.0061	<0.0032	<0.0066	<0.0042	<0.0072	<0.0064	<0.0033	<0.0026	<0.0048
PCB 35	ng/g	<0.02	<0.0058	<0.0030	<0.0063	0.0196	0.016	<0.0061	<0.014	0.00489	<0.0046
PCB 36	ng/g	<0.0034	<0.0053	<0.0028	<0.0057	<0.0036	<0.0061	<0.0055	<0.0030	<0.0023	<0.0042
PCB 37	ng/g	0.224	0.0345	<0.0039	0.00761	0.136	0.13	0.0218	<0.055	0.00973	<0.0056
PCB 38	ng/g	<0.015	<0.012	<0.013	0.0202	0.018	0.0186	<0.012	0.0288	0.0192	<0.015
PCB 39	ng/g	<0.0031	<0.0048	<0.0025	<0.0052	<0.0033	<0.0056	<0.0050	<0.0027	<0.0021	<0.0038
PCB 40 + 41 + 71	ng/g	0.0717	<0.015	<0.0053	0.016	0.0559	0.0561	0.0174	<0.036	<0.0060	<0.0046
PCB 42	ng/g	0.04	<0.0074	<0.0052	<0.0080	0.0318	0.0313	<0.0081	0.0232	<0.0037	<0.0055
PCB 43	ng/g	<0.0053	<0.0072	<0.0052	<0.0079	<0.0050	<0.0081	<0.0064	<0.0060	<0.0037	<0.0056
PCB 44 + 47 + 65	ng/g	0.252	0.0524	<0.043	0.0357	0.184	0.198	0.0642	0.121	0.0438	<0.029
PCB 45 + 51	ng/g	<0.017	<0.0099	0.0144	<0.0068	0.0204	0.0159	<0.0056	<0.012	<0.0032	<0.0058
PCB 46	ng/g	<0.0053	<0.0072	<0.0051	<0.0079	<0.0052	<0.0081	<0.0064	<0.0058	<0.0036	<0.0054
PCB 48	ng/g	<0.018	0.0057	<0.0041	<0.0061	0.0169	0.0179	<0.0050	0.0122	<0.0031	<0.0043
PCB 49 + 69	ng/g	0.0976	0.0232	<0.0091	<0.0091	0.0852	0.077	0.0202	0.0594	<0.01	<0.0060
PCB 50 + 53	ng/g	<0.014	<0.0060	<0.0044	<0.0066	0.0142	<0.0070	<0.0054	<0.011	<0.0031	<0.0047
PCB 52	ng/g	0.339	0.0538	<0.02	<0.011	0.262	0.255	0.048	0.155	0.0243	<0.016
PCB 54	ng/g	<0.0031	<0.0041	<0.0027	<0.0045	<0.0030	<0.0041	<0.0040	<0.0029	<0.0023	<0.0040
PCB 55	ng/g	<0.0081	<0.0068	<0.0051	<0.0054	<0.0058	<0.0062	<0.0045	<0.0056	<0.0034	<0.0043
PCB 56	ng/g	0.166	<0.019	<0.0049	<0.0063	0.0964	0.1	0.0174	0.0642	0.0049	<0.0042
PCB 57	ng/g	<0.0088	<0.0075	<0.0056	<0.0060	<0.0063	<0.0068	<0.0050	<0.0061	<0.0037	<0.0047
PCB 58	ng/g	<0.0077	<0.0065	<0.0049	<0.0052	<0.0055	<0.0059	<0.0043	0.00885	<0.0033	<0.0042
PCB 59 + 62 + 75	ng/g	0.0104	<0.0044	<0.0032	<0.0048	0.0106	0.0132	<0.0040	<0.0093	<0.0023	<0.0034
PCB 60	ng/g	0.183	<0.017	<0.0050	<0.0053	0.0991	0.0888	0.0147	0.0446	<0.0043	<0.0043
PCB 61 + 70 + 74 + 76	ng/g	1.18	0.139	0.0208	<0.016	0.69	0.716	0.0943	0.406	0.0345	0.0177
PCB 63	ng/g	<0.022	<0.0073	<0.0054	<0.0058	<0.012	<0.014	<0.0048	<0.0060	<0.0036	<0.0046
PCB 64	ng/g	0.0897	0.0146	0.00624	<0.0077	0.0672	0.062	<0.015	0.0444	0.00723	0.00464
PCB 66	ng/g	0.796	0.0867	<0.01	0.0117	0.428	0.43	<0.055	0.209	0.0216	0.0105
PCB 67	ng/g	<0.016	<0.0063	<0.0048	<0.0050	<0.0098	<0.011	<0.0042	<0.0073	<0.0032	<0.0041
PCB 68	ng/g	<0.0074	<0.0063	<0.0047	<0.0050	<0.0053	<0.0057	<0.0042	<0.0059	<0.0031	<0.0040
PCB 72	ng/g	<0.0087	<0.0074	<0.0056	<0.0059	<0.0062	<0.0067	<0.0049	<0.0061	<0.0037	<0.0047
PCB 73	ng/g	<0.0031	<0.0043	<0.0031	<0.0047	<0.0030	<0.0048	<0.0038	<0.0036	<0.0022	<0.0033
PCB 77	ng/g	0.618	<0.061	<0.0062	<0.0058	0.24	0.25	0.0233	0.144	0.00749	<0.0047
PCB 78	ng/g	<0.0092	<0.0078	<0.0060	<0.0062	<0.0066	<0.0071	<0.0052	<0.0066	<0.0040	<0.0051
PCB 79	ng/g	0.0257	<0.0064	<0.0050	<0.0051	0.0139	<0.012	<0.0043	0.00798	<0.0033	<0.0042
PCB 80	ng/g	<0.0070	<0.0060	<0.0045	<0.0048	<0.0050	<0.0054	<0.0040	<0.0049	<0.0030	<0.0038
PCB 81	ng/g	0.0266	<0.0069	<0.0059	<0.0054	0.011	<0.0068	<0.0046	<0.0066	<0.0039	<0.0045
PCB 82	ng/g	0.2	<0.02	<0.0058	<0.0091	0.121	0.128	<0.0088	<0.073	<0.0066	<0.0051

TABLE 9

Labrador Tea Leaves Quality Results - PCB Congeners (HRMS)

Veolia

W ½ 06-067-08 W5M

Sample Point		Plot 4	Plot 11	Plot 70	Plot 71	Plot 109	Plot 109*	Plot 110	Plot 114	Plot 123	Plot 402
Sample Date		17-Jun-25	18-Jun-25	16-Jun-25	18-Jun-25	17-Jun-25	17-Jun-25	17-Jun-25	17-Jun-25	16-Jun-25	16-Jun-25
MSI Sample Number	Unit	15867250617106	15867250618110	15867250616104	15867250618111	15867250617107	15867250617108	15867250617109	15867250617105	15867250616101	15867250616102
PCB Congeners											
PCB 83 + 99	ng/g	1.47	0.145	<0.012	0.0138	0.74	0.753	0.0879	0.365	<0.031	0.0152
PCB 84	ng/g	0.201	<0.02	<0.0050	<0.0081	0.14	0.152	<0.018	0.0904	<0.0046	<0.0044
PCB 85 + 110 + 115 + 116 + 117	ng/g	2.36	0.251	0.023	<0.012	1.36	1.38	0.171	0.806	0.0548	0.0296
PCB 86 + 87 + 97 + 109 + 119 + 125	ng/g	0.965	<0.11	<0.012	<0.012	0.616	0.619	0.0747	0.378	0.028	0.0155
PCB 88 + 91	ng/g	0.106	<0.0098	<0.0048	<0.0078	0.0751	0.0765	<0.0074	0.0537	<0.0045	<0.0043
PCB 89	ng/g	<0.011	<0.0088	<0.0060	<0.0098	<0.0079	<0.012	<0.0094	<0.0074	<0.0055	<0.0053
PCB 90 + 101 + 113	ng/g	1.66	0.197	<0.016	<0.022	1.08	1.14	0.15	0.557	<0.04	<0.016
PCB 92	ng/g	0.434	<0.037	<0.0055	<0.0089	0.245	0.238	0.03	0.109	<0.0076	<0.0048
PCB 93 + 98 + 100 + 102	ng/g	0.0178	<0.0066	<0.0045	<0.0073	<0.0081	<0.021	<0.0070	<0.0056	<0.0042	<0.0040
PCB 94	ng/g	<0.0086	<0.0069	<0.0046	<0.0076	<0.0062	<0.0091	<0.0073	<0.0058	<0.0043	<0.0041
PCB 95	ng/g	1.14	0.111	<0.018	<0.014	0.7	0.677	<0.086	0.365	0.0361	0.0178
PCB 96	ng/g	<0.0059	<0.0044	<0.0037	<0.0036	<0.0041	<0.0055	<0.0040	<0.0042	<0.0035	<0.0042
PCB 103	ng/g	<0.0091	<0.0073	<0.0049	<0.0080	<0.0065	<0.0096	<0.0077	<0.0061	<0.0045	<0.0043
PCB 104	ng/g	<0.0051	<0.0047	<0.0030	<0.0040	<0.0039	<0.0055	<0.0044	<0.0034	<0.0026	<0.0042
PCB 105	ng/g	1.87	0.181	<0.0039	<0.0062	0.695	0.744	0.0875	0.429	0.0257	<0.0079
PCB 106	ng/g	<0.0057	<0.0056	<0.0027	<0.0052	<0.0035	<0.0059	<0.0041	<0.0031	<0.0028	<0.0022
PCB 107	ng/g	0.192	<0.022	<0.0019	<0.0040	0.0974	0.103	<0.0092	<0.046	<0.0020	<0.0016
PCB 108 + 124	ng/g	0.12	<0.012	<0.0024	<0.0045	0.0563	0.064	<0.0054	0.0317	<0.0024	<0.0019
PCB 111	ng/g	<0.0055	<0.0044	<0.0031	<0.0048	<0.0039	<0.0058	<0.0046	<0.0039	<0.0029	<0.0028
PCB 112	ng/g	<0.0059	<0.0047	<0.0032	<0.0052	<0.0042	<0.0062	<0.0050	<0.0040	<0.0030	<0.0029
PCB 114	ng/g	0.0978	<0.0047	<0.0026	<0.0044	<0.031	0.0376	0.00549	0.026	<0.0027	<0.0020
PCB 118	ng/g	3.39	0.345	<0.0089	0.0108	1.4	1.38	0.166	0.788	0.047	<0.015
PCB 120	ng/g	<0.023	<0.0050	<0.0035	<0.0056	<0.01	0.00879	<0.0053	0.00556	<0.0032	<0.0031
PCB 121	ng/g	<0.0056	<0.0045	<0.0031	<0.0050	<0.0040	<0.0059	<0.0048	<0.0039	<0.0029	<0.0027
PCB 122	ng/g	0.0575	<0.0067	<0.0033	<0.0063	0.0237	<0.012	<0.0050	0.0196	<0.0034	<0.0027
PCB 123	ng/g	0.0857	0.00824	<0.0027	<0.0051	<0.028	<0.024	<0.0039	<0.017	<0.0028	<0.0021
PCB 126	ng/g	0.0775	<0.0058	<0.0030	<0.0047	0.0278	0.0288	<0.0040	<0.015	<0.0033	<0.0021
PCB 127	ng/g	<0.0053	<0.0057	<0.0025	<0.0068	<0.0033	<0.0069	<0.0039	<0.0029	<0.0026	<0.0020
PCB 128 + 166	ng/g	0.706	0.0673	<0.0029	<0.0028	0.246	0.251	0.0285	0.19	<0.0096	<0.0042
PCB 129 + 138 + 163	ng/g	5.93	0.484	0.0148	<0.014	1.99	2.18	0.235	1.46	<0.063	0.0368
PCB 130	ng/g	0.248	0.0254	<0.0031	<0.0038	0.106	<0.095	<0.012	<0.063	<0.0040	<0.0031
PCB 131	ng/g	0.0451	<0.0059	<0.0033	<0.0040	<0.016	<0.017	<0.0059	<0.014	<0.0043	<0.0033
PCB 132	ng/g	0.913	0.0761	0.00688	<0.0032	0.397	0.433	0.0505	0.288	0.0161	0.00821
PCB 133	ng/g	0.0843	0.0062	<0.0030	<0.0037	<0.028	0.0296	<0.0054	<0.019	<0.0038	<0.0030
PCB 134 + 143	ng/g	0.118	<0.0097	<0.0031	<0.0039	0.0602	0.0664	<0.0087	0.0403	<0.0040	<0.0031
PCB 135 + 151	ng/g	1.18	0.113	<0.0043	0.00816	0.592	0.59	0.0642	0.261	0.0164	0.00735
PCB 136	ng/g	0.312	0.028	<0.0027	0.00315	0.185	0.184	<0.018	0.0818	<0.0049	<0.0029
PCB 137 + 164	ng/g	0.451	0.0489	<0.0022	<0.0026	0.172	0.182	<0.016	0.13	<0.0065	0.00274
PCB 139 + 140	ng/g	0.0642	<0.0062	<0.0023	<0.0029	0.0329	<0.029	<0.0043	0.0171	<0.0030	<0.0024
PCB 141	ng/g	0.87	0.0736	<0.0026	<0.0031	0.341	0.355	0.04	0.244	<0.012	0.00534
PCB 142	ng/g	<0.0061	<0.0058	<0.0031	<0.0039	<0.0042	<0.0071	<0.0058	<0.0054	<0.0040	<0.0031
PCB 144	ng/g	0.171	<0.015	<0.0036	<0.0034	0.091	0.0976	<0.0098	0.0469	<0.0030	<0.0025
PCB 145	ng/g	<0.0050	<0.0041	<0.0023	<0.0023	<0.0019	<0.0025	<0.0024	<0.0030	<0.0020	<0.0016
PCB 146	ng/g	0.778	0.0623	<0.0023	<0.0028	0.285	0.304	0.0312	<0.16	<0.01	<0.0023
PCB 147 + 149	ng/g	2.44	0.217	<0.012	<0.01	1.09	1.23	0.132	0.669	<0.034	0.013
PCB 148	ng/g	<0.0075	<0.0062	<0.0036	<0.0035	<0.0030	<0.0038	<0.0036	<0.0046	<0.0030	<0.0025
PCB 150	ng/g	<0.0048	<0.0040	<0.0022	<0.0022	<0.0032	<0.0031	<0.0023	<0.0029	<0.0019	<0.0016
PCB 152	ng/g	<0.0058	<0.0047	<0.0029	<0.0027	<0.0023	<0.0029	<0.0028	<0.0037	<0.0024	<0.0020
PCB 153 + 168	ng/g	4.76	0.385	0.0104	<0.011	1.65	1.8	0.194	1.08	<0.054	0.0274
PCB 154	ng/g	<0.039	<0.0046	<0.0028	<0.0026	0.0206	0.0205	0.00317	<0.0096	<0.0024	<0.0020
PCB 155	ng/g	<0.0031	<0.0031	<0.0013	<0.0018	<0.0022	<0.0017	<0.0016	<0.0016	<0.0011	<0.0012
PCB 156 + 157	ng/g	0.5	0.047	<0.0034	<0.0039	0.145	0.148	0.0218	0.114	0.00424	<0.0031
PCB 158	ng/g	0.493	0.044	<0.0018	<0.0022	0.177	0.186	0.0227	0.126	0.00749	<0.0018
PCB 159	ng/g	<0.043	<0.0034	<0.0019	<0.0023	<0.0099	0.0143	<0.0034	<0.0086	<0.0025	<0.0020
PCB 160	ng/g	<0.0034	<0.0032	<0.0018	<0.0022	<0.0024	<0.0040	<0.0032	<0.0031	<0.0023	<0.0018
PCB 161	ng/g	<0.0040	<0.0038	<0.0021	<0.0026	<0.0028	<0.0046	<0.0038	<0.0036	<0.0027	<0.0021
PCB 162	ng/g	<0.019	<0.0034	<0.0019	<0.0023	0.00686	0.00544	<0.0034	0.00643	<0.0024	<0.0019
PCB 165	ng/g	0.00971	<0.0035	<0.0019	<0.0024	<0.0025	<0.0043	<0.0035	<0.0034	<0.0025	<0.0019
PCB 167	ng/g	0.234	0.0266	<0.0026	<0.0027	0.0698	0.0826	<0.0079	0.0528	<0.0034	<0.0025
PCB 169	ng/g	<0.0060	<0.0049	<0.0032	<0.0032	<0.0035	<0.0063	<0.0052	<0.0056	<0.0040	<0.0027
PCB 170	ng/g	0.916	0.0893	<0.0037	<0.0036	0.253	0.27	<0.03	0.188	<0.0072	<0.0044
PCB 171 + 173	ng/g	0.362	<0.026	<0.0037	<0.0035	0.113	<0.11	<0.014	0.0913	<0.0037	<0.0033
PCB 172	ng/g	0.221	0.0177	<0.0037	<0.0035	0.0644	0.0722	<0.0057	0.0458	<0.0037	<0.0033
PCB 174	ng/g	1.01	0.078	<0.0035	<0.0030	0.357	0.388	0.0342	0.272	<0.013	<0.0037
PCB 175	ng/g	0.0609	<0.0059	<0.0034	<0.0033	0.0218	<0.022	<0.0034	<0.012	<0.0034	<0.0030
PCB 176	ng/g	0.126	0.00974	<0.0026	<0.0025	0.0579	0.059	<0.0054	0.0364	<0.0026	<0.0023

TABLE 9

Labrador Tea Leaves Quality Results - PCB Congeners (HRMS)

Veolia

W ½ 06-067-08 W5M

Sample Point		Plot 4	Plot 11	Plot 70	Plot 71	Plot 109	Plot 109*	Plot 110	Plot 114	Plot 123	Plot 402
Sample Date		17-Jun-25	18-Jun-25	16-Jun-25	18-Jun-25	17-Jun-25	17-Jun-25	17-Jun-25	17-Jun-25	16-Jun-25	16-Jun-25
MSI Sample Number	Unit	15867250617106	15867250618110	15867250616104	15867250618111	15867250617107	15867250617108	15867250617109	15867250617105	15867250616101	15867250616102
PCB Congeners											
PCB 177	ng/g	0.636	0.0501	<0.0036	<0.0034	0.211	0.233	0.0268	0.146	<0.0052	0.00597
PCB 178	ng/g	0.25	0.022	<0.0037	<0.0035	0.0934	0.106	<0.01	<0.051	<0.0037	<0.0033
PCB 179	ng/g	0.418	0.0349	<0.0025	<0.0024	0.175	0.184	<0.019	0.107	<0.0064	<0.0022
PCB 180 + 193	ng/g	2.52	0.225	0.00434	<0.0046	0.742	0.773	0.0802	0.52	0.0251	0.012
PCB 181	ng/g	<0.0040	<0.0030	<0.0033	<0.0031	0.00346	<0.0033	<0.0032	<0.0031	<0.0032	<0.0029
PCB 182	ng/g	<0.0066	<0.0029	<0.0032	<0.0030	<0.0030	0.00798	<0.0031	0.00563	<0.0031	<0.0028
PCB 183	ng/g	0.748	<0.05	<0.0034	<0.0031	0.26	0.282	<0.03	0.167	<0.0067	<0.0044
PCB 184	ng/g	0.00358	<0.0020	<0.0022	<0.0021	<0.0020	<0.0022	<0.0022	<0.0021	<0.0022	<0.0020
PCB 185	ng/g	<0.057	<0.0068	<0.0030	<0.0032	<0.027	<0.024	<0.0033	0.024	<0.0029	<0.0026
PCB 186	ng/g	<0.0029	<0.0022	<0.0024	<0.0022	<0.0022	<0.0024	<0.0023	<0.0023	<0.0024	<0.0021
PCB 187	ng/g	1.22	<0.094	<0.0042	<0.0027	0.445	0.467	<0.045	0.294	<0.014	0.00662
PCB 188	ng/g	0.00494	<0.0020	<0.0019	<0.0022	<0.0021	<0.0021	<0.0022	<0.0018	<0.0019	<0.0019
PCB 189	ng/g	0.0446	<0.0044	<0.0059	<0.0040	<0.0097	<0.0098	<0.0041	<0.0064	<0.0046	<0.0033
PCB 190	ng/g	0.169	0.0159	<0.0026	<0.0025	0.0445	0.0516	<0.0053	<0.03	<0.0026	<0.0023
PCB 191	ng/g	0.0408	<0.0033	<0.0028	<0.0027	<0.015	<0.012	<0.0028	<0.0078	<0.0028	<0.0025
PCB 192	ng/g	<0.0033	<0.0025	<0.0028	<0.0026	<0.0025	<0.0028	<0.0027	<0.0027	<0.0028	<0.0025
PCB 194	ng/g	0.333	0.037	<0.0054	<0.0059	0.0715	<0.07	0.0121	0.0581	<0.0045	<0.0040
PCB 195	ng/g	0.156	<0.0086	<0.0054	<0.0058	<0.03	<0.032	<0.0072	<0.026	<0.0039	<0.0040
PCB 196	ng/g	0.19	<0.02	<0.0053	<0.0041	0.059	<0.051	<0.0058	0.0454	<0.0044	<0.0031
PCB 197	ng/g	<0.019	<0.0037	<0.0031	<0.0025	<0.0056	<0.0057	<0.0036	<0.0050	<0.0026	<0.0018
PCB 198 + 199	ng/g	0.424	<0.03	<0.0052	<0.0040	0.11	0.11	0.0177	0.101	<0.0042	<0.0030
PCB 200	ng/g	<0.041	<0.0042	<0.0038	<0.0029	<0.011	<0.013	<0.0040	<0.0080	<0.0031	<0.0022
PCB 201	ng/g	0.0471	<0.0057	<0.0034	<0.0026	<0.013	0.0181	<0.0036	0.0129	<0.0028	<0.0020
PCB 202	ng/g	0.0693	<0.0042	<0.0030	<0.0027	<0.018	<0.026	<0.0036	<0.015	<0.0025	<0.0018
PCB 203	ng/g	0.204	0.0201	<0.0045	<0.0036	0.0583	<0.051	<0.0054	0.037	<0.0037	<0.0026
PCB 204	ng/g	<0.0033	<0.0040	<0.0035	<0.0027	<0.0024	<0.0061	<0.0038	<0.0033	<0.0029	<0.0020
PCB 205	ng/g	0.0183	<0.0052	<0.0066	<0.0055	<0.0048	<0.0066	<0.0046	<0.0073	<0.0043	<0.0042
PCB 206	ng/g	0.0867	<0.024	<0.034	<0.025	<0.019	<0.035	<0.036	<0.033	<0.017	<0.017
PCB 207	ng/g	<0.018	<0.013	<0.017	<0.014	<0.011	<0.02	<0.02	<0.018	<0.0095	<0.01
PCB 208	ng/g	<0.014	<0.01	<0.013	<0.011	<0.0095	<0.015	<0.016	<0.013	<0.0072	<0.0084
PCB 209	ng/g	<0.012	<0.0077	<0.01	<0.0056	<0.0066	<0.0093	<0.0096	<0.011	<0.0066	<0.0042
Total MonoCB	ng/g	<0.0039	<0.0035	<0.0028	<0.0040	<0.0033	<0.0038	<0.0038	<0.0026	<0.0023	<0.0049
Total DiCB	ng/g	0.395	0.461	0.423	0.356	0.44	0.368	0.303	0.358	0.223	0.283
Total TriCB	ng/g	0.803	0.209	0.0525	0.0767	0.6	0.453	0.0977	0.354	0.07	0.031
Total TetraCB	ng/g	3.89	0.375	0.0414	0.0634	2.33	2.31	0.3	1.3	0.144	0.0329
Total PentaCB	ng/g	14.4	1.24	0.023	0.0246	7.38	7.53	0.773	4.02	0.192	0.078
Total HexaCB	ng/g	20.3	1.7	0.0321	0.0113	7.67	8.16	0.824	4.8	0.0443	0.101
Total HeptaCB	ng/g	8.75	0.542	0.00434	<0.0021	2.84	2.89	0.141	1.9	0.0251	0.0246
Total OctaCB	ng/g	1.44	0.057	<0.0030	<0.0025	0.298	0.128	0.0298	0.254	<0.0025	<0.0018
Total NonaCB	ng/g	0.0867	<0.01	<0.013	<0.011	<0.0095	<0.015	<0.016	<0.013	<0.0072	<0.0084
Total DecaCB	ng/g	<0.012	<0.0077	<0.01	<0.0056	<0.0066	<0.0093	<0.0096	<0.011	<0.0066	<0.0042
Total PCB Congeners	ng/g	50.1	4.59	0.577	0.532	21.6	21.8	2.47	13	0.698	0.551
Total PCB Congeners	mg/kg	0.0501	0.00459	0.000577	0.000532	0.0216	0.0218	0.00247	0.013	0.000698	0.000551

Notes:

* - duplicate sample

TEQ - toxic equivalency quotient

TABLE 10

Labrador Tea Leaves Quality Results - Dioxin Like PCBs, PCDDs and PCDFs

Veolia

W ½ 06-067-08 W5M

Sample Point		Plot 4	Plot 11	Plot 70	Plot 71	Plot 109	Plot 109*	Plot 110	Plot 114	Plot 123	Plot 402
Sample Date		17-Jun-25	18-Jun-25	16-Jun-25	18-Jun-25	17-Jun-25	17-Jun-25	17-Jun-25	17-Jun-25	16-Jun-25	16-Jun-25
MSI Sample Number	Unit	15867250617106	15867250618110	15867250616104	15867250618111	15867250617107	15867250617108	15867250617109	15867250617105	15867250616101	15867250616102
PCB Congeners											
Total PCB Congeners	mg/kg	0.0501	0.00459	0.000577	0.000532	0.0216	0.0218	0.00247	0.013	0.000698	0.000551
Lower Bound PCB TEQ	ng/kg	8.01	0.0182	0	0.000325	2.87	2.96	0.0108	0.0568	0.00306	0
Mid Point PCB TEQ	ng/kg	8.1	0.385	0.2	0.284	2.92	3.07	0.287	0.889	0.229	0.147
Upper Bound PCB TEQ	ng/kg	8.19	0.752	0.401	0.568	2.99	3.17	0.563	1.72	0.456	0.294
PCDDs											
2,3,7,8-Tetra CDD	ng/kg	<2.2	<1.8	<1.9	<2.7	<2.0	<1.7	<1.2	<2.7	<1.5	<2.0
1,2,3,7,8-Penta CDD	ng/kg	<2.1	<1.5	<2.6	<1.6	<1.5	<1.4	<1.0	<2.0	<1.5	<1.7
1,2,3,4,7,8-Hexa CDD	ng/kg	<2.9	<2.1	<2.6	<2.2	<1.9	<1.7	<1.4	<2.7	<1.9	<2.0
1,2,3,6,7,8-Hexa CDD	ng/kg	<2.8	<2.0	<2.6	<2.0	<1.8	<1.6	<1.4	<2.7	<1.8	<1.9
1,2,3,7,8,9-Hexa CDD	ng/kg	<2.8	<2.0	<2.5	<2.1	<1.8	<1.6	<1.4	<2.6	<1.8	<1.9
1,2,3,4,6,7,8-Hepta CDD	ng/kg	<5.6	<4.4	<6.3	<3.3	4.61	<2.6	<2.7	<5.5	<3.2	<3.8
1,2,3,4,6,7,8,9-Octa CDD	ng/kg	<15	<14	<9.2	17.4	<15	<14	<13	<19	<11	<10
Total Tetra CDD	ng/kg	<2.2	<1.8	<1.9	<2.7	<2.0	<1.7	<1.2	<2.7	<1.5	<2.0
Total TetraCDD Homologues	-	0	0	0	0	0	0	0	0	0	0
Total Penta CDD	ng/kg	<2.1	<1.5	<2.6	<1.6	<1.5	<1.4	<1.0	<2.0	<1.5	<1.7
Total PentaCDD Homologues	-	0	0	0	0	0	0	0	0	0	0
Total Hexa CDD	ng/kg	<2.9	<2.1	<2.6	<2.2	<1.9	<1.7	<1.4	<2.7	<1.9	<2.0
Total HexaCDD Homologues	-	0	0	0	0	0	0	0	0	0	0
Total Hepta CDD	ng/kg	<5.6	<4.4	<6.3	<3.3	4.61	<2.6	<2.7	<5.5	<3.2	<3.8
Total HeptaCDD Homologues	-	0	0	0	0	1	0	0	0	0	0
PCDFs											
2,3,7,8-Tetra CDF	ng/kg	<2.3	<3.0	<2.4	<2.0	<2.4	<1.9	<1.6	<2.1	<1.6	<1.7
1,2,3,7,8-Penta CDF	ng/kg	<2	<2	<1	<1	<1	<1	<1	<2	<1	<1
2,3,4,7,8-Penta CDF	ng/kg	<1.6	<1.5	<1.0	<1.2	<1.1	<1.2	<0.98	<1.5	<1.2	<1.0
1,2,3,4,7,8-Hexa CDF	ng/kg	<2.3	<1.0	<1.8	<0.83	<1.1	<0.90	<0.73	<1.2	<0.97	<0.92
1,2,3,6,7,8-Hexa CDF	ng/kg	<2.3	<1.0	<1.8	<0.86	<1.1	<0.97	<0.71	<1.3	<0.94	<0.85
1,2,3,7,8,9-Hexa CDF	ng/kg	<3.3	<1.6	<2.7	<1.2	<1.9	<1.4	<1.1	<2.0	<1.5	<1.3
2,3,4,6,7,8-Hexa CDF	ng/kg	<2.6	<1.1	<1.9	<0.99	<1.3	<1.1	<0.81	<1.4	<1.1	<1.0
1,2,3,4,6,7,8-Hepta CDF	ng/kg	<2.5	<2.7	<3.0	<1.5	<2.2	<2.0	<1.2	3.03	<0.88	<1.4
1,2,3,4,7,8,9-Hepta CDF	ng/kg	<4.1	<4.1	<4.8	<2.3	<3.3	<3.5	<1.8	<3.1	<1.5	<2.3
1,2,3,4,6,7,8,9-Octa CDF	ng/kg	<7.9	<3.8	<7.6	<6.4	<3.8	<4.4	<3.1	<5.2	<3.0	<4.8
Total Tetra CDF	ng/kg	<2.3	<3.0	<2.4	<2.0	<2.4	<1.9	<1.6	2.96	<1.6	<1.7
Total TetraCDF Homologues	-	0	0	0	0	0	0	0	1	0	0
Total Penta CDF	ng/kg	<1.7	<1.7	<1.2	<1.4	<1.2	<1.3	<1.0	<1.5	<1.3	<1.1
Total PentaCDF Homologues	-	0	0	0	0	0	0	0	0	0	0
Total Hexa CDF	ng/kg	<3.3	<1.6	<2.7	<1.2	<1.9	<1.4	<1.1	<2.0	<1.5	<1.3
Total HexaCDF Homologues	-	0	0	0	0	0	0	0	0	0	0
Total Hepta CDF	ng/kg	<4.1	<4.1	<4.8	<2.3	<3.3	<3.5	<1.8	<3.1	<1.5	<2.3
Total HeptaCDF Homologues	-	0	0	0	0	0	0	0	0	0	0
Lower Bound PCDD/PCDF TEQ	ng/kg	0	0	0	0.00524	0.046	0	0	0.0303	0	0
Mid Point PCDD/PCDF TEQ	ng/kg	3.53	2.63	3.42	3.02	2.67	2.32	1.78	3.47	2.33	2.66
Upper Bound PCDD/PCDF TEQ	ng/kg	7.08	5.26	6.85	6.06	5.3	4.66	3.56	6.91	4.68	5.33
Total TEQ	ng/kg	11.63	3.015	3.62	3.304	5.59	5.39	2.067	4.359	2.559	2.807

Notes:

* - duplicate sample

TEQ - toxic equivalency quotient

TABLE 11

Historical Labrador Tea Leaves Quality Results - Organic Parameters

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	Total Aroclors mg/kg	PCB Concentrations (Congeners) mg/kg	PCB TEQ ng TEQ/kg[1]	PCDD/PCDF TEQ ng TEQ/kg[1]	Total TEQ ng TEQ/kg[1]
Plot 4	26-Aug-03	0.50	---	---	1.02	---
Plot 4	1-Sep-04	0.26	---	---	8.99	---
Plot 4	30-Aug-05	0.21	0.17	51.52	2.60	54.12
Plot 4	16-May-06	0.27	0.15	39.20	1.30	40.50
Plot 4	5-Jun-07	0.22	0.23	34.00	2.60	36.60
Plot 4	15-May-08	0.39	0.30	29.78	1.42	31.20
Plot 4	1-Jun-08	---	0.30	33.51	1.39	34.90
Plot 4	12-Jun-09	0.10	0.24	30.39	2.78	33.17
Plot 4	18-Jul-09	0.29	0.22	7.83	0.68	8.51
Plot 4	25-May-10	0.38	0.52	43.57	2.56	46.13
Plot 4	31-May-11	0.13	0.25	27.80	0.90	28.70
Plot 4	1-Jun-12	0.15	0.44	64.00	2.53	66.53
Plot 4	5-Jun-13	0.27	0.30	41.70	1.46	43.16
Plot 4	29-May-14	0.16	0.19	26.70	3.20	29.90
Plot 4	3-Jun-15	0.03	0.19	21.20	1.80	23.00
Plot 4	31-May-16	---	0.13	17.00	1.26	18.26
Plot 4	31-May-17	---	0.10	14.10	1.01	15.11
Plot 4	29-May-18	---	0.06	10.10	0.78	10.88
Plot 4	31-May-19	---	0.07	11.70	0.86	12.56
Plot 4	3-Jun-20	---	0.06	8.49	0.27	8.76
Plot 4	8-Jun-21	---	0.06	7.82	0.53	8.35
Plot 4	8-Jun-22	---	0.0349	3.45	0.79	4.24
Plot 4	19-Jun-23	---	0.0683	10.10	8.82	18.92
Plot 4	29-May-24	---	0.0428	5.95	0.80	6.75
Plot 4	17-Jun-25	---	0.0501	8.10	3.53	11.63
Plot 11	26-Aug-03	0.03	---	---	1.76	1.76
Plot 11	31-Aug-04	0.04	---	---	1.74	1.74
Plot 11	31-Aug-05	0.05	0.02	3.83	0.15	3.98
Plot 11	16-May-06	0.03	0.03	0.44	0.32	0.76
Plot 11	5-Jun-07	0.02	0.09	4.63	0.61	5.24
Plot 11	14-May-08	0.04	0.03	2.24	1.90	4.14
Plot 11	1-Jun-08	---	0.03	2.52	1.60	4.12
Plot 11	12-Jun-09	0.01	0.02	3.12	0.23	3.35
Plot 11	18-Jul-09	0.02	0.05	0.11	1.08	1.19
Plot 11	26-May-10	0.04	0.07	7.78	0.66	8.44
Plot 11	31-May-11	<0.010	0.05	3.87	0.48	4.35
Plot 11	1-Jun-12	0.02	0.02	0.19	0.95	1.14
Plot 11	5-Jun-13	0.02	0.02	3.41	0.23	3.64
Plot 11	31-May-14	0.03	0.02	3.58	0.52	4.10
Plot 11	3-Jun-15	<0.010	0.02	2.55	0.24	2.79
Plot 11	31-May-16	---	0.01	1.45	0.75	2.20
Plot 11	1-Jun-17	---	0.008	1.04	0.49	1.53
Plot 11	31-May-18	---	0.007	0.94	0.34	1.28
Plot 11	1-Jun-19	---	0.005	0.90	0.58	1.48
Plot 11	2-Jun-20	---	0.005	0.66	0.39	1.05
Plot 11	7-Jun-21	---	0.005	0.66	0.22	0.88
Plot 11	8-Jun-22	---	0.005	0.56	0.63	1.19
Plot 11	29-Jun-23	---	0.011	2.20	4.51	6.71
Plot 11	28-May-24	---	0.003	0.92	0.46	1.39
Plot 11	18-Jun-25	---	0.005	0.39	2.63	3.02

TABLE 11

Historical Labrador Tea Leaves Quality Results - Organic Parameters

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	Total Aroclors mg/kg	PCB Concentrations (Congeners) mg/kg	PCB TEQ ng TEQ/kg[1]	PCDD/PCDF TEQ ng TEQ/kg[1]	Total TEQ ng TEQ/kg[1]
Plot 28	30-Aug-04	<0.01	---	---	---	---
Plot 28	12-Jun-09	0.002	---	---	---	---
Plot 28	5-Jun-13	<0.010	0.003	0.02	0.20	0.22
Plot 28	30-May-14	0.01	---	---	---	---
Plot 28	3-Jun-15	<0.010	0.001	0.34	0.08	0.42
Plot 70	26-Aug-03	<0.02	---	---	0.48	---
Plot 70	30-Aug-04	<0.01	---	---	1.72	---
Plot 70	31-Aug-05	0.02	0.004	0.04	0.14	0.18
Plot 70	17-May-06	<0.01	0.003	0.01	0.61	0.62
Plot 70	5-Jun-07	<0.01	0.01	0.04	0.53	0.57
Plot 70	14-May-08	<0.01	0.004	0.01	0.28	0.29
Plot 70	1-Jun-08	---	0.004	0.02	0.29	0.31
Plot 70a	12-Jun-09	0.002	0.004	0.01	0.48	0.49
Plot 70a	19-Jul-09	<0.0010	0.003	ND	0.86	0.86
Plot 70	25-May-10	<0.0020	0.006	0.02	0.70	0.72
Plot 70	31-May-11	<0.010	0.003	0.01	0.13	0.14
Plot 70	1-Jun-12	<0.010	0.006	0.32	2.54	2.86
Plot 70	5-Jun-13	<0.010	0.002	ND	0.22	0.22
Plot 70	31-May-14	<0.010	0.0002	0.16	0.30	0.46
Plot 70	4-Jun-15	<0.010	0.0003	0.11	0.10	0.21
Plot 70	2-Jun-16	---	0.0001	0.01	0.13	0.14
Plot 70	1-Jun-17	---	0.0001	0.02	0.35	0.38
Plot 70	31-May-18	---	0.0003	0.01	0.27	0.28
Plot 70	1-Jun-19	---	0.0001	0.01	0.16	0.17
Plot 70	2-Jun-20	---	0.0002	0.03	0.51	0.54
Plot 70	8-Jun-21	---	0.0003	0.07	0.51	0.58
Plot 70	7-Jun-22	---	0.0004	0.10	0.57	0.68
Plot 70	19-Jun-23	---	0.0016	0.42	6.26	6.68
Plot 70	30-May-24	---	0.0003	0.21	0.71	0.92
Plot 70	16-Jun-25	---	0.0006	0.20	3.42	3.62
Plot 71	26-Aug-03	<0.02	---	---	ND	---
Plot 71	2-Sep-04	<0.01	---	---	2.13	---
Plot 71	31-Aug-05	<0.02	0.01	0.05	0.15	0.20
Plot 71	16-May-06	<0.01	0.003	ND	0.50	0.50
Plot 71	5-Jun-07	<0.01	0.03	0.03	0.30	0.33
Plot 71	14-May-08	<0.01	0.01	0.02	1.14	1.16
Plot 71	1-Jun-08	---	0.01	0.07	1.56	1.63
Plot 71	12-Jun-09	<0.0010	0.001	ND	0.16	0.16
Plot 71	17-Jul-09	<0.0010	0.03	0.01	0.66	0.67
Plot 71	25-May-10	<0.0020	0.003	0.01	0.63	0.64
Plot 71	31-May-11	<0.010	0.001	ND	0.16	0.16
Plot 71	1-Jun-12	<0.010	0.0002	ND	0.94	0.94
Plot 71	5-Jun-13	<0.010	0.0022	ND	0.20	0.20
Plot 71	31-May-14	<0.010	0.0002	0.11	0.53	0.64
Plot 71	4-Jun-15	<0.010	0.0001	0.10	0.09	0.19
Plot 71	2-Jun-16	---	0.00009	0.04	0.51	0.55
Plot 71	1-Jun-17	---	0.0002	0.02	0.38	0.40
Plot 71	31-May-18	---	0.0003	0.02	0.38	0.40
Plot 71	1-Jun-19	---	0.0002	0.08	1.14	1.22
Plot 71	4-Jun-20	---	0.00007	0.01	0.11	0.12
Plot 71	8-Jun-21	---	0.00144	0.29	0.67	0.96
Plot 71	6-Jun-22	---	0.00044	0.10	0.78	0.89
Plot 71	19-Jun-23	---	0.00131	0.26	8.81	9.07
Plot 71	30-May-24	---	0.00022	0.20	0.71	0.91
Plot 71	18-Jun-25	---	0.00053	0.28	3.02	3.30

TABLE 11

Historical Labrador Tea Leaves Quality Results - Organic Parameters

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	Total Aroclors mg/kg	PCB Concentrations (Congeners) mg/kg	PCB TEQ ng TEQ/kg[1]	PCDD/PCDF TEQ ng TEQ/kg[1]	Total TEQ ng TEQ/kg[1]
Plot 109	26-Aug-03	0.10	---	---	0.73	---
Plot 109	2-Sep-04	0.15	---	---	1.47	---
Plot 109	31-Aug-05	0.06	0.03	4.83	0.48	5.31
Plot 109	16-May-06	0.09	0.08	9.45	1.30	10.75
Plot 109	5-Jun-07	0.10	0.13	10.29	0.43	10.72
Plot 109	14-May-08	0.12	0.15	11.06	2.53	13.59
Plot 109	1-Jun-08	---	0.15	12.45	3.00	15.45
Plot 109	12-Jun-09	0.03	0.05	4.84	0.55	5.39
Plot 109	18-Jul-09	0.25	0.42	12.49	0.80	13.29
Plot 109	26-May-10	0.43	0.41	30.51	1.48	31.99
Plot 109	31-May-11	0.05	0.24	18.70	1.35	20.05
Plot 109	1-Jun-12	0.05	0.17	0.95	0.55	1.50
Plot 109	5-Jun-13	0.23	0.21	23.80	3.83	27.63
Plot 109	31-May-14	0.10	0.10	11.50	1.09	12.59
Plot 109	4-Jun-15	0.09	0.11	13.30	1.63	14.93
Plot 109	31-May-16	---	0.05	5.97	0.79	6.76
Plot 109	31-May-17	---	0.07	7.47	0.92	8.39
Plot 109	30-May-18	---	0.03	3.31	1.15	4.46
Plot 109	30-May-19	---	0.03	3.24	0.69	3.93
Plot 109	3-Jun-20	---	0.02	2.68	0.18	2.86
Plot 109	8-Jun-21	---	0.02	2.15	1.06	3.21
Plot 109	7-Jun-22	---	0.02	1.67	0.59	2.26
Plot 109	20-Jun-23	---	0.04	4.44	3.88	8.32
Plot 109	29-May-24	---	0.01	1.26	0.62	1.88
Plot 109	17-Jun-25	---	0.02	2.92	2.67	5.59
Plot 109*	17-Jun-25	---	0.02	3.07	2.32	5.39
Plot 110	26-Aug-03	<0.02	---	---	0.36	0.36
Plot 110	31-Aug-04	0.01	---	---	0.89	0.89
Plot 110	31-Aug-05	<0.02	0.005	0.06	0.14	0.20
Plot 110	16-May-06	0.01	0.008	0.11	0.15	0.26
Plot 110	5-Jun-07	<0.01	0.04	0.20	0.51	0.71
Plot 110	14-May-08	<0.01	0.01	0.91	0.42	1.33
Plot 110	1-Jun-08	---	0.01	1.04	0.41	1.45
Plot 110	12-Jun-09	0.01	0.008	0.40	0.17	0.57
Plot 110	18-Jul-09	0.01	0.02	0.04	0.61	0.65
Plot 110	26-May-10	0.01	0.02	0.06	0.45	0.51
Plot 110	31-May-11	<0.010	0.02	3.90	0.14	4.04
Plot 110	1-Jun-12	<0.010	0.002	0.04	0.28	0.32
Plot 110	4-Jun-13	0.01	0.01	0.06	0.40	0.46
Plot 110	30-May-14	0.01	0.007	0.82	0.77	1.59
Plot 110	4-Jun-15	<0.010	0.006	0.87	0.14	1.01
Plot 110	31-May-16	---	0.003	0.32	0.87	1.19
Plot 110	31-May-17	---	0.003	0.39	0.89	1.28
Plot 110	30-May-18	---	0.003	0.55	0.71	1.26
Plot 110	30-May-19	---	0.002	0.09	0.90	1.00
Plot 110	3-Jun-20	---	0.002	0.20	0.11	0.31
Plot 110	8-Jun-21	---	0.002	0.11	1.82	1.93
Plot 110	7-Jun-22	---	0.002	0.14	0.63	0.77
Plot 110	20-Jun-23	---	0.003	0.30	2.34	2.64
Plot 110	29-May-24	---	0.001	0.16	0.49	0.65
Plot 110	17-Jun-25	---	0.002	0.29	1.78	2.07

TABLE 11

Historical Labrador Tea Leaves Quality Results - Organic Parameters

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	Total Aroclors mg/kg	PCB Concentrations (Congeners) mg/kg	PCB TEQ ng TEQ/kg[1]	PCDD/PCDF TEQ ng TEQ/kg[1]	Total TEQ ng TEQ/kg[1]
Plot 114	26-Aug-03	0.07	---	---	0.56	0.56
Plot 114	31-Aug-04	0.06	---	---	0.99	0.99
Plot 114	30-Aug-05	0.06	0.02	4.44	0.14	4.58
Plot 114	15-May-06	0.05	0.06	8.13	0.79	8.92
Plot 114	4-Jun-07	0.03	0.10	10.44	1.80	12.24
Plot 114	14-May-08	0.11	0.08	7.35	0.99	8.34
Plot 114	1-Jun-08	---	0.08	8.23	1.18	9.41
Plot 114	12-Jun-09	0.05	0.07	6.51	0.33	6.84
Plot 114	18-Jul-09	0.04	0.07	3.62	1.28	4.90
Plot 114	26-May-10	0.10	0.21	18.80	4.26	23.06
Plot 114	31-May-11	0.06	0.12	10.20	0.39	10.59
Plot 114	1-Jun-12	0.05	0.05	0.34	0.53	0.87
Plot 114	4-Jun-13	0.04	0.05	6.49	0.69	7.18
Plot 114	31-May-14	0.02	0.04	4.71	1.09	5.80
Plot 114	4-Jun-15	0.04	0.04	5.12	0.50	5.62
Plot 114	1-Jun-16	---	0.021	2.41	0.33	2.74
Plot 114	31-May-17	---	0.017	2.13	1.85	3.98
Plot 114	30-May-18	---	0.013	1.66	0.31	1.97
Plot 114	31-May-19	---	0.010	1.37	0.97	2.34
Plot 114	3-Jun-20	---	0.010	1.17	0.17	1.34
Plot 114	8-Jun-21	---	0.012	1.49	1.96	3.45
Plot 114	7-Jun-22	---	0.008	0.64	0.38	1.01
Plot 114	20-Jun-23	---	0.020	1.11	4.65	5.76
Plot 114	30-May-24	---	0.009	1.49	0.54	2.03
Plot 114	17-Jun-25	---	0.013	0.89	3.47	4.36
Plot 117	26-Aug-03	0.03	---	---	0.21	0.21
Plot 117	31-Aug-04	<0.01	---	---	0.44	0.44
Plot 117	30-Aug-05	0.02	0.007	0.08	0.33	0.41
Plot 117	15-May-06	0.01	0.01	0.18	0.49	0.67
Plot 117	4-Jun-07	0.01	0.04	0.27	0.37	0.64
Plot 117	14-May-08	0.02	0.02	1.61	0.21	1.82
Plot 117	1-Jun-08	---	0.02	1.83	0.20	2.03
Plot 117	12-Jun-09	0.01	0.01	1.22	0.18	1.40
Plot 117	18-Jul-09	<0.0010	0.01	0.03	0.78	0.81
Plot 117	26-May-10	0.02	0.04	2.95	0.47	3.42
Plot 117	31-May-11	<0.010	0.02	2.41	0.11	2.52
Plot 117	1-Jun-12	<0.010	0.005	0.06	0.82	0.88
Plot 117	4-Jun-13	<0.010	0.01	0.06	0.41	0.47
Plot 117	31-May-14	<0.010	0.006	0.36	0.22	0.58
Plot 117	4-Jun-15	<0.010	0.005	0.68	0.17	0.85
Plot 117	1-Jun-16	---	0.007	0.68	0.22	0.89
Plot 117	31-May-17	---	0.005	0.70	0.75	1.45
Plot 117	30-May-18	---	0.003	0.52	1.57	2.09
Plot 117	31-May-19	---	0.002	0.44	0.89	1.33
Plot 117	3-Jun-20	---	0.003	0.33	0.19	0.52
Plot 117	8-Jun-21	---	0.003	0.27	0.81	1.08
Plot 117	7-Jun-22	---	0.003	0.14	0.65	0.78
Plot 117	20-Jun-23	---	0.008	0.87	9.45	10.32
Plot 117	30-May-24	---	0.002	0.19	0.61	0.80

TABLE 11

Historical Labrador Tea Leaves Quality Results - Organic Parameters

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	Total Aroclors mg/kg	PCB Concentrations (Congeners) mg/kg	PCB TEQ ng TEQ/kg[1]	PCDD/PCDF TEQ ng TEQ/kg[1]	Total TEQ ng TEQ/kg[1]
Plot 123	26-Aug-03	<0.02	---	---	0.21	0.21
Plot 123	30-Aug-05	<0.02	0.004	0.04	0.17	0.21
Plot 123	16-May-06	<0.01	0.01	0.03	0.71	0.74
Plot 123	5-Jun-07	<0.01	0.02	0.08	0.29	0.37
Plot 123	14-May-08	0.01	0.01	0.20	1.13	1.33
Plot 123	1-Jun-08	---	0.01	0.27	1.62	1.89
Plot 123	12-Jun-09	0.002	0.005	0.01	0.37	0.38
Plot 123	18-Jul-09	<0.0010	0.01	0.02	0.86	0.88
Plot 123	26-May-10	0.006	0.01	0.55	0.43	0.98
Plot 123	31-May-11	<0.010	0.004	0.02	0.11	0.13
Plot 123	1-Jun-12	<0.010	0.001	0.01	0.92	0.93
Plot 123	4-Jun-13	<0.010	0.003	0.01	0.28	0.29
Plot 123	30-May-14	<0.010	0.002	0.22	0.49	0.71
Plot 123	3-Jun-15	<0.010	0.001	0.23	0.07	0.31
Plot 123	30-May-16	---	0.002	0.07	0.82	0.90
Plot 123	31-May-17	---	0.001	0.17	0.56	0.73
Plot 123	31-May-18	---	0.0008	0.22	2.24	2.46
Plot 123	30-May-19	---	0.0006	0.06	1.30	1.36
Plot 123	2-Jun-20	---	0.0008	0.06	0.23	0.29
Plot 123	7-Jun-21	---	0.0006	0.02	1.39	1.41
Plot 123	6-Jun-22	---	0.0009	0.07	0.53	0.60
Plot 123	19-Jun-23	---	0.0018	0.21	6.57	6.78
Plot 123	28-May-24	---	0.0008	0.25	0.86	1.12
Plot 123	16-Jun-25	---	0.0007	0.23	2.33	2.56
Plot 402	26-Aug-03	<0.02	---	---	0.21	0.21
Plot 402	1-Sep-04	<0.01	---	---	0.86	0.86
Plot 402	30-Aug-05	0.05	0.0008	0.01	0.14	0.15
Plot 402	16-May-06	<0.01	0.003	0.01	0.28	0.29
Plot 402	5-Jun-07	<0.01	0.02	0.10	0.25	0.35
Plot 402	14-May-08	<0.01	0.01	0.01	0.19	0.20
Plot 402	1-Jun-08	---	0.01	0.02	0.18	0.20
Plot 402	12-Jun-09	0.001	0.003	0.01	0.17	0.18
Plot 402	17-Jul-09	<0.0010	0.01	0.01	0.66	0.67
Plot 402	25-May-10	<0.0020	0.004	0.01	0.19	0.20
Plot 402	31-May-11	<0.010	0.001	0.01	0.12	0.13
Plot 402	1-Jun-12	<0.010	<0.00001	ND	1.11	1.11
Plot 402	4-Jun-13	<0.010	0.003	0.01	0.49	0.50
Plot 402	30-May-14	<0.010	0.001	0.43	0.12	0.55
Plot 402	4-Jun-15	<0.010	0.001	0.16	0.15	0.31
Plot 402	30-May-16	---	0.0005	0.04	0.76	0.80
Plot 402	31-May-17	---	0.0004	0.07	1.51	1.58
Plot 402	29-May-18	---	0.0004	0.30	0.24	0.55
Plot 402	30-May-19	---	0.0003	0.07	1.17	1.24
Plot 402	2-Jun-20	---	0.0003	0.04	0.37	0.41
Plot 402	7-Jun-21	---	0.0006	0.02	2.14	2.16
Plot 402	6-Jun-22	---	0.0006	0.11	0.64	0.75
Plot 402	20-Jun-23	---	0.0007	0.33	4.29	4.62
Plot 402	27-May-24	---	0.0006	0.20	0.91	1.11
Plot 402	16-Jun-25	---	0.0006	0.15	2.66	2.81

Notes:

ND - results reported as zero in lab report

[1] - midpoint estimate used for TEQ

TABLE 12

Moss Bag Quality Results - Metals

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	Al mg/kg	Sb mg/kg	As mg/kg	Ba mg/kg	Be mg/kg	B mg/kg	Cd mg/kg	Cr mg/kg	Co mg/kg	Cu mg/kg	Fe mg/kg	Pb mg/kg	Li mg/kg	Mn mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	Se mg/kg	Ag mg/kg	Sr mg/kg	Tl mg/kg	Sn mg/kg	Ti mg/kg	U mg/kg	V mg/kg	Zn mg/kg	Zr mg/kg
Unexposed - Acid Washed																												
Unexposed Moss	18-Jun-25	15867250618219	237	0.042	0.246	3.84	<0.010	<1.0	0.0194	0.602	0.162	1.52	297	0.517	<0.50	10.2	0.034	0.624	0.4	0.065	0.0054	0.482	0.0021	<0.10	10.1	0.0265	0.48	5.06	<0.50
Unexposed Moss	18-Jun-25	15867250618220	278	0.049	0.269	4.15	<0.010	<1.0	0.016	0.663	0.139	1.5	326	0.537	<0.50	7.72	0.0363	0.366	0.45	0.076	0.0063	0.472	0.0024	0.14	10.8	0.0313	0.58	5.43	0.49
Unexposed Moss	18-Jun-25	15867250618221	253	0.051	0.259	4.54	<0.010	<1.0	0.0171	0.622	0.151	1.48	318	0.538	<0.50	8.57	0.0364	0.376	0.42	0.066	0.0063	0.523	0.0023	0.17	10	0.0293	0.53	5.47	0.46
Fenceline Monitoring Sites																													
Site 1	17-Jun-25	15867250617210	704	0.092	0.395	10.6	0.016	1.1	0.0604	1.42	0.311	2.72	653	1.75	<0.50	20.9	0.0659	0.506	0.86	0.098	0.0161	1.95	0.0072	0.48	20.2	0.0677	1.48	76.5	1.37
Site 5	17-Jun-25	15867250617214	348	0.079	0.465	7.11	0.011	1	0.07	1	0.246	2.37	542	1.39	<0.50	15	0.0525	0.462	0.77	0.083	0.0124	1.28	0.0046	0.16	12	0.0408	0.86	25.1	0.68
Site 9	17-Jun-25	15867250617209	415	0.188	0.459	9.34	0.011	1.4	0.134	1.08	0.259	6.09	545	3.54	<0.50	17.9	0.0639	1.08	0.9	0.096	0.0225	1.92	0.0071	0.38	15.4	0.0429	0.96	85.2	0.84
Zone 1																													
MB4	17-Jun-25	15867250617212	356	0.062	0.305	6.27	<0.010	1.1	0.0272	0.83	0.171	1.91	424	0.818	<0.50	20.5	0.0715	0.403	0.62	0.083	0.0083	1.08	0.0038	0.18	11.9	0.0374	0.79	7.97	0.63
MB5	17-Jun-25	15867250617211	290	0.056	0.266	4.44	<0.010	1	0.0183	0.673	0.121	1.69	363	0.803	<0.50	8.59	0.0464	0.391	0.46	0.074	0.0077	0.626	0.0029	0.2	10.8	0.0326	0.64	4.74	0.55
MB15	17-Jun-25	15867250617213	338	0.059	0.279	6	<0.010	<1.0	0.0343	0.715	0.173	1.81	386	0.64	<0.50	95.5	0.0511	0.392	0.6	0.085	0.0084	1.37	0.0043	<0.10	11.3	0.0348	0.68	9.38	0.58
MB20	17-Jun-25	15867250617207	364	0.063	0.239	8.74	0.01	<1.0	0.0442	0.684	0.171	1.91	465	0.788	<0.50	50.5	0.0534	0.366	0.64	0.086	0.0086	2.33	0.005	4.47	13.3	0.0361	0.81	11.4	0.67
Zone 2																													
MB1	17-Jun-25	15867250617215	306	0.053	0.248	6.78	<0.010	<1.0	0.0344	0.651	0.195	2.09	347	0.552	<0.50	46.3	0.0444	0.36	0.62	0.073	0.007	1.39	0.0042	<0.10	10.1	0.031	0.64	7.33	0.5
MB2	17-Jun-25	15867250617216	270	0.055	0.254	4.27	<0.010	<1.0	0.0178	0.684	0.133	1.58	337	0.581	<0.50	15	0.0401	0.453	0.43	0.076	0.0069	0.66	0.0028	<0.10	9.4	0.0306	0.57	4.2	0.56
MB9	16-Jun-25	15867250616201	314	0.054	0.253	5.39	<0.010	1.3	0.0216	0.714	0.198	1.75	369	0.535	<0.50	22.2	0.041	0.414	0.51	0.075	0.0068	0.866	0.0028	0.12	11	0.032	0.62	5.4	0.58
MB11	18-Jun-25	15867250618217	314	0.056	0.256	5.5	<0.010	<1.0	0.024	0.74	0.167	1.73	383	0.614	<0.50	27.1	0.0412	0.381	0.52	0.079	0.0075	1.03	0.0031	0.34	9.47	0.0329	0.68	6.06	0.56
MB14	16-Jun-25	15867250616203	316	0.055	0.252	5.34	<0.010	1.2	0.0229	0.68	0.161	1.62	364	0.618	<0.50	17	0.0411	0.366	0.56	0.078	0.0078	0.904	0.0032	<0.10	11.2	0.0311	0.64	5.36	0.62
MB19	16-Jun-25	15867250616206	289	0.052	0.249	5.16	<0.010	<1.0	0.0227	0.712	0.154	1.57	343	0.55	<0.50	14.5	0.0367	0.428	0.5	0.076	0.0068	0.834	0.0026	<0.10	10.8	0.0309	0.61	5.03	0.58
MB22	17-Jun-25	15867250617208	563	0.063	0.337	10.7	0.013	1.2	0.0531	0.975	0.208	2.33	581	0.691	<0.50	148	0.0714	0.49	0.81	0.11	0.0141	2.62	0.0069	0.14	19.4	0.0641	1.2	12.3	1.06
MB24	16-Jun-25	15867250616202	326	0.06	0.255	5.99	<0.010	<1.0	0.0195	0.732	0.144	1.77	357	0.554	<0.50	26.9	0.0332	0.42	0.5	0.079	0.0073	0.887	0.0033	0.2	11.8	0.0328	0.67	5.34	0.6
MB26	16-Jun-25	15867250616205	322	0.049	0.251	6.33	<0.010	<1.0	0.0279	0.731	0.168	2.01	414	0.572	<0.50	78.8	0.0458	0.45	0.55	0.081	0.0157	1.25	0.0043	<0.10	11.3	0.0312	0.65	7.84	0.56
MB50	16-Jun-25	15867250616204	364	0.059	0.271	7.48	<0.010	1.3	0.0351	0.774	0.191	1.94	412	0.585	<0.50	75	0.0448	0.386	0.62	0.086	0.0086	1.23	0.0038	0.11	12.2	0.0333	0.73	8.71	0.63
MB71	18-Jun-25	15867250618218	496	0.065	0.316	18.1	0.014	2.8	0.0781	0.918	0.292	2.8	557	0.799	<0.50	124	0.0518	0.405	0.84	0.092	0.0133	11.4	0.0059	0.24	16.3	0.0575	1.02	14	0.84

TABLE 13

Lichen Vitality

Veolia

W ½ 06-067-08 W5M

Site	Vigour																						Notes
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2007	2009	2011	2013	2014	2016	2018	2019	2021	2022	2023	2024	2025	
Zone 1																							
1-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	3	3	3	3	3	3	3	-
1-2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	-
1-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	3	3	3	3	3	2	2	-
2-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	3	3	2	3	3	3	3	-
2-2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	3	3	3	3	3	3	3	-
2-3	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	2	2	-
4-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	3	3	3	3	2	3	2	Lichen healthy but less present in 2025, may have been scraped off.
4-2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	2	2	2	2	3	3	3	
4-3	---	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	1	1	1	1	Site 4 relocated in 1998.
5-1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1	1	1	2	2	2	2	-
5-2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	1	1	2	2	2	2	2	-
5-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	3	3	3	3	3	3	3	-
9-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	2	2	2	2	2	2	2	-
9-2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	1	1	1	1	2	2	3	-
9-3	3	3	3	3	3	2	2	2	2	2	2	3	2	2	2	3	3	3	3	3	3	3	-
Zone 2																							
11-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	2	3	3	3	3	3	3	-
11-2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	3	3	3	3	3	3	3	-
11-3	---	3	3	3	3	3	3	3	2	2	3	3	3	3	3	3	3	3	3	3	3	2	Lichen healthy but less present in 2025, may have been scraped off.
14-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	3	3	3	3	3	3	3	-
14-2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	3	3	3	3	3	3	3	-
14-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	-
15-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	3	3	3	3	3	3	3	-
15-2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	2	2	2	2	2	3	3	Replaced location in 2024
15-3	3	3	3	3	3	3	3	3	3	3	3	3	---	3	2	3	3	3	3	3	3	3	-
20-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	3	3	3	3	3	3	3	-
20-2	3	3	3	3	3	3	3	–	3	3	3	3	3	3	3	2	1	2	2	2	2	2	Replacement for Site 17 that was cleared in 2004. In 2016 it was observed that the tree hosting the subsite had fallen over a new site may need to be selected. The vitality was considered to have degraded relative to 2018 due to missing lichen from the site. Tree knocked over but lichen still viable.
20-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	3	3	3	3	3	3	3	-
Zone 3																							
19-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	3	3	3	3	3	3	3	-
19-2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	2	3	2	2	2	2	3	-
19-3	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	2	1	3	3	3	3	3	
22-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	3	3	3	3	NM	3	3	In 2016 it was noted that a neighbouring tree had fallen near the site and scraped the lichen.
22-2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	3	3	3	3	NM	3	3	
22-3	---	---	---	---	---	---	---	---	---	3	3	3	2	2	3	3	3	3	3	NM	3	3	Site relocated 160 m further north in 2007.
24-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	---	3	3	3	3	3	3	Plot destroyed by FMA holder in 2017 or 2018 and was relocated in 2019. Potential lichen sites were identified but not monitored in 2018.
24-2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	---	3	3	3	3	3	3	
24-3	2	2	2	2	2	2	2	2	2	2	2	3	3	2	3	---	3	3	3	3	3	3	
26-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	3	3	3	3	3	3	3	-
26-2	2	2	2	2	2	2	2	1	1	1	1	1	2	2	2	3	2	3	3	3	3	2	Lichen healthy but less present in 2025, may have been scraped off.
26-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	3	3	3	3	3	3	3	-
50-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	3	3	2	2	2	2	2	Brown discolouration.
50-2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	3	3	3	3	3	3	3	-
50-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	2	2	3	3	Site relocated in 2014 8 m to the northwest of the previous site.
71-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	3	3	3	3	3	3	3	Tree which hosts the lichen site fell over, site is still visible but may need to be replaced in 2018.
71-2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	2	2	3	3	3	2	2	-
71-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	1	2	1	1	3	3	The tree hosting this lichen site is dead and some lichen appears to have fallen off with the tree bark.

Lichen Vitality Classes:

3 - No damage, healthy, robust.
2 - Partially damaged, discoloured, deformed necrotic tissue.
1 - Morbid, dead, tissue missing.
0 - Absent.
--- - No data.
NM - Not monitored, site could not be accessed due to flow velocities in the streams on the trail leading to the site

TABLE 14a

Live Moss Quality Control Sample Results - Metals

Veolia

W ½ 06-07-08 W5M

Sample Point	Sample Date	MSI Sample Number	Al mg/kg	Sb mg/kg	As mg/kg	Ba mg/kg	Be mg/kg	B mg/kg	Cd mg/kg	Cr mg/kg	Co mg/kg	Cu mg/kg	Fe mg/kg	Pb mg/kg	Li mg/kg	Mn mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	Se mg/kg	Ag mg/kg	Sr mg/kg	Tl mg/kg	Sn mg/kg	Ti mg/kg	U mg/kg	V mg/kg	Zn mg/kg	Zr mg/kg
Plot 109	17-Jun-25	15867250617007	74.7	0.023	0.066	6.38	<0.010	1.5	0.0351	0.161	0.048	1.33	104	0.903	<0.50	0.0396	226	0.041	0.24	<0.050	0.0112	1.6	0.0042	<0.10	3.05	0.0058	0.2	18.9	<0.20
Plot 109	17-Jun-25	15867250617008	177	0.063	0.154	12.7	<0.010	1.8	0.0795	0.376	0.116	2.04	216	2.43	<0.50	0.104	218	0.101	0.56	<0.050	0.0235	2.53	0.0073	0.21	7.28	0.011	0.42	56.8	<0.20
Detection Limit (DL)			2	0.01	0.02	0.05	0.01	1	0.005	0.05	0.02	0.1	3	0.02	0.5	0.05	0.005	0.02	0.2	0.05	0.005	0.05	0.002	0.1	0.25	0.002	0.1	0.5	0.2
Reliable Detection Limit (RDL)**			10	0.05	0.1	0.25	0.05	5	0.025	0.25	0.1	0.5	15	0.1	2.5	0.25	0.025	0.1	1	0.25	0.025	0.25	0.01	0.5	1.25	0.01	0.5	2.5	1
Absolute Difference*			102.3	0.04	0.088	6.32	---	0.3	0.0444	0.215	0.068	0.71	112	1.527	---	0.0644	8	0.06	0.32	---	0.0123	0.93	0.0031	---	4.23	0.0052	0.22	37.9	---
Absolute Relative Percent Difference (RPD)*			81	---	---	66	---	---	77	---	---	42	70	92	---	---	4	---	---	---	---	45	---	---	82	---	---	100	---
Duplicate Sample Results Evaluation			***Poor***	Good	Good	***Poor***	Good	Good	***Poor***	Good	Good	***Poor***	***Poor***	***Poor***	Good	Good	Good	Good	Good	Good	Good	***Poor***	Good	Good	***Poor***	Good	Good	***Poor***	Good
Plot 402	16-Jun-25	15867250616002	3260	0.025	0.726	86.9	0.089	7.9	0.298	2.85	1.28	5.31	2210	1.79	1.85	0.088	976	0.163	3.11	0.145	0.0376	26.1	0.0503	0.14	40.8	0.631	5.16	67	1.36
Plot 402	16-Jun-25	15867250616003	1440	0.054	0.689	66.5	0.06	7.2	2.04	1.66	0.857	5.84	1290	1.63	0.69	0.2	801	0.145	2.63	0.372	0.05	19.6	0.0548	<0.10	31.2	0.232	2.99	66	1.18
Detection Limit (DL)			2	0.01	0.02	0.05	0.01	1	0.005	0.05	0.02	0.1	3	0.02	0.5	0.05	0.0067	0.02	0.2	0.05	0.005	0.05	0.002	0.1	0.25	0.002	0.1	0.5	0.2
Reliable Detection Limit (RDL)**			10	0.05	0.1	0.25	0.05	5	0.025	0.25	0.1	0.5	15	0.1	2.5	0.25	0.0335	0.1	1	0.25	0.025	0.25	0.01	0.5	1.25	0.01	0.5	2.5	1
Absolute Difference*			1820	0.029	0.037	20.4	0.029	0.7	1.742	1.19	0.423	0.53	920	0.16	1.16	0.112	175	0.018	0.48	0.227	0.0124	6.5	0.0045	---	9.6	0.399	2.17	1	0.18
Absolute Relative Percent Difference (RPD)*			77	---	5	27	39	9	149	53	40	10	53	9	---	---	20	12	17	---	28	28	9	---	27	92	53	2	14
Duplicate Sample Results Evaluation			***Poor***	Good	Good	Good	Good	Good	***Poor***	***Poor***	Good	Good	***Poor***	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	***Poor***	***Poor***	Good	Good
Plot 109	17-Jun-25	15867250617007R	475	0.203	0.511	55.3	0.017	5.4	0.283	1.32	0.484	6.91	594	8.46	<0.50		858	0.316	1.56	0.107	0.0538	7.93	0.0226	17	0.66	0.0309	1.18	521	0.28
Plot 109*	17-Jun-25	15867250617008R	376	0.13	0.309	33.8	0.016	5.3	0.163	0.884	0.219	5.58	502	4.69	<0.50		825	0.236	1.23	0.089	0.0414	6.64	0.0195	13.1	0.44	0.0254	1	64.4	<0.20
Detection Limit (DL)			2	0.01	0.02	0.05	0.01	1	0.005	0.05	0.02	0.1	3	0.02	0.5	0.05	0.005	0.02	0.2	0.05	0.005	0.05	0.002	0.1	0.25	0.002	0.1	0.5	0.2
Reliable Detection Limit (RDL)**			10	0.05	0.1	0.25	0.05	5	0.025	0.25	0.1	0.5	15	0.1	2.5	---	0.025	0.1	1	0.25	0.025	0.25	0.01	0.5	1.25	0.01	0.5	2.5	1
Absolute Difference*			99	0.073	0.202	21.5	0.001	0.1	0.12	0.436	0.265	1.33	92	3.77	---	---	33	0.08	0.33	0.018	0.0124	1.29	0.0031	3.9	0.22	0.0055	0.18	456.6	---
Absolute Relative Percent Difference (RPD)*			23	44	49	48	---	2	54	40	75	21	17	57	---	---	4	29	24	---	26	18	15	26	---	20	17	156	---
Duplicate Sample Results Evaluation			Good	***Poor***	***Poor***	***Poor***	Good	Good	***Poor***	Good	***Poor***	Good	Good	***Poor***	Good	---	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	***Poor***	Good

Notes:

--- - not applicable

* - non-detectable concentrations are assessed at 95% of the detection limit

** - the reliable (reporting) detection limit (RDL) or practical detection limit (PDL) is defined as 5 times the DL

Good - evaluation indicates acceptable reproducibility

Poor - evaluation indicates poor reproducibility

Evaluation of Duplicate Analyses:

- reproducibility is unacceptable if RPD is > 30% for inorganic waters and > 40% for soils and organics
- if RPD is not applicable (---), reproducibility is evaluated based on Absolute Difference (unacceptable if > 2 x RDL)
- if Absolute Difference is not applicable (---), reproducibility is evaluated based on the parameter concentration (unacceptable if > 2 x RDL)

TABLE 14b

Live Moss Quality Control Sample Results - Macronutrients

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	Lab pH	Lab EC dS/m	Saturation %	Ca mg/kg	Mg mg/kg	K mg/kg	Na mg/kg	P mg/kg	S mg/kg
Plot 109	17-Jun-25	15867250617007	5.01	0.144	903	1690	214	965	<20	298	200
Plot 109*	17-Jun-25	15867250617008	4.96	0.098	1020	2130	309	1290	<20	427	310
Detection Limit (DL)			---	0.02	1	20	2	20	20	10	100
Reliable Detection Limit (RDL)**			---	0.1	5	100	10	100	100	50	500
Absolute Difference*			0.05	0.046	117	440	95	325	---	129	110
Absolute Relative Percent Difference (RPD)*			---	---	12	23	36	29	---	36	---
Duplicate Sample Results Evaluation			Good	Good	Good	Good	Good	Good	Good	Good	Good
Plot 402	16-Jun-25	15867250616002	4.72	0.161	862	10300	1200	3020	33	1280	920
Plot 402*	16-Jun-25	15867250616003	4.93	0.12	924	8440	850	2500	24	1260	1210
Detection Limit (DL)			---	0.02	1	20	2	20	20	10	100
Reliable Detection Limit (RDL)**			---	0.1	5	100	10	100	100	50	500
Absolute Difference*			0.21	0.041	62	1860	350	520	9	20	290
Absolute Relative Percent Difference (RPD)*			---	29	7	20	34	19	---	2	27
Duplicate Sample Results Evaluation			Good	Good	Good	Good	Good	Good	Good	Good	Good

Notes:

--- - not applicable

* - non-detectable concentrations are assessed at 95% of the detection limit

** - the reliable detection limit (RDL) or practical detection limit (PDL) is defined as 5 times the DL

Good - evaluation indicates acceptable reproducibility

Poor - evaluation indicates poor reproducibility

Evaluation of Duplicate Analyses:

- reproducibility is unacceptable if RPD is > 30% for inorganic waters and > 40% for soils and organics
- if RPD is not applicable (---), reproducibility is evaluated based on Absolute Difference (unacceptable if > 2 x RDL)
- if Absolute Difference is not applicable (---), reproducibility is evaluated based on the parameter concentration (unacceptable if > 2 x RDL)
- pH is evaluated based on Absolute Difference (unacceptable if > 0.5)

TABLE 14c

Live Moss Quality Control Sample Results - PCB Congeners (HRMS)

Veolia

W ½ 06-067-08 W5M

Sample Point		Plot 109	Plot 109	Detection Limit (DL)	Reliable Detection Limit (RDL)**	Absolute Difference*	Absolute Relative Percent	Duplicate Sample Results Evaluation
Date	Unit	17-Jun-25	17-Jun-25					
Sample Number		15867250617007	15867250617008					
PCB Congeners								
PCB 1	ng/g	0.0112	0.02	0.01	0.05	0.0088	---	Good
PCB 2	ng/g	<0.0031	<0.0033	0.01	0.05	---	---	Good
PCB 3	ng/g	<0.0091	<0.0084	0.01	0.05	---	---	Good
PCB 4	ng/g	0.0594	0.0709	0.01	0.05	0.0115	18	Good
PCB 5	ng/g	<0.0023	0.00217	0.01	0.05	---	---	Good
PCB 6	ng/g	0.05	0.0407	0.01	0.05	0.0093	---	Good
PCB 7	ng/g	0.00753	<0.0061	0.01	0.05	---	---	Good
PCB 8	ng/g	0.205	0.191	0.01	0.05	0.014	7	Good
PCB 9	ng/g	0.0161	<0.013	0.01	0.05	---	---	Good
PCB 10	ng/g	<0.0023	<0.0015	0.01	0.05	---	---	Good
PCB 11	ng/g	0.0531	0.0922	0.01	0.05	0.0391	54	***Poor***
PCB 12 + 13	ng/g	0.0193	0.0168	0.01	0.05	0.0025	---	Good
PCB 14	ng/g	<0.0049	<0.0030	0.01	0.05	---	---	Good
PCB 15	ng/g	0.183	0.172	0.01	0.05	0.011	6	Good
PCB 16	ng/g	0.0898	0.0858	0.01	0.05	0.004	5	Good
PCB 17	ng/g	<0.086	0.0928	0.01	0.05	---	---	Good
PCB 18 + 30	ng/g	0.182	0.172	0.01	0.05	0.01	6	Good
PCB 19	ng/g	0.021	0.0226	0.01	0.05	0.0016	---	Good
PCB 20 + 28	ng/g	0.482	0.535	0.01	0.05	0.053	10	Good
PCB 21 + 33	ng/g	0.224	0.211	0.01	0.05	0.013	6	Good
PCB 22	ng/g	0.166	0.178	0.01	0.05	0.012	7	Good
PCB 23	ng/g	<0.0029	<0.0022	0.01	0.05	---	---	Good
PCB 24	ng/g	<0.0020	0.00318	0.01	0.05	---	---	Good
PCB 25	ng/g	0.0394	0.0385	0.01	0.05	0.0009	---	Good
PCB 26 + 29	ng/g	0.0683	0.0618	0.01	0.05	0.0065	10	Good
PCB 27	ng/g	0.0157	<0.015	0.01	0.05	---	---	Good
PCB 31	ng/g	0.478	0.48	0.01	0.05	0.002	0	Good
PCB 32	ng/g	0.0581	0.0623	0.01	0.05	0.0042	7	Good
PCB 34	ng/g	<0.0034	<0.0026	0.01	0.05	---	---	Good
PCB 35	ng/g	0.0475	0.0491	0.01	0.05	0.0016	---	Good
PCB 36	ng/g	<0.0028	<0.0021	0.01	0.05	---	---	Good
PCB 37	ng/g	0.376	0.398	0.01	0.05	0.022	6	Good
PCB 38	ng/g	0.00849	<0.0072	0.01	0.05	---	---	Good
PCB 39	ng/g	0.00405	<0.0036	0.01	0.05	---	---	Good
PCB 40 + 41 + 71	ng/g	0.201	0.2	0.01	0.05	0.001	0	Good
PCB 42	ng/g	0.135	0.137	0.01	0.05	0.002	1	Good
PCB 43	ng/g	0.0116	0.012	0.01	0.05	0.0004	---	Good
PCB 44 + 47 + 65	ng/g	0.509	0.483	0.05	0.25	0.026	5	Good
PCB 45 + 51	ng/g	0.0453	0.0444	0.01	0.05	0.0009	---	Good
PCB 46	ng/g	0.0158	0.0166	0.01	0.05	0.0008	---	Good
PCB 48	ng/g	0.0557	0.0574	0.01	0.05	0.0017	3	Good
PCB 49 + 69	ng/g	0.414	0.406	0.01	0.05	0.008	2	Good
PCB 50 + 53	ng/g	0.0375	0.0386	0.01	0.05	0.0011	---	Good
PCB 52	ng/g	1.08	1.02	0.01	0.05	0.06	6	Good
PCB 54	ng/g	<0.0011	<0.00095	0.01	0.05	---	---	Good
PCB 55	ng/g	0.0281	0.02	0.01	0.05	0.0081	---	Good
PCB 56	ng/g	0.584	0.568	0.01	0.05	0.016	3	Good
PCB 57	ng/g	<0.0062	<0.0061	0.01	0.05	---	---	Good
PCB 58	ng/g	0.008	<0.0022	0.01	0.05	---	---	Good
PCB 59 + 62 + 75	ng/g	0.0378	0.0374	0.01	0.05	0.0004	---	Good
PCB 60	ng/g	0.349	0.349	0.01	0.05	0	0	Good
PCB 61 + 70 + 74 + 76	ng/g	3.69	3.52	0.01	0.05	0.17	5	Good
PCB 63	ng/g	0.0522	0.046	0.01	0.05	0.0062	---	Good
PCB 64	ng/g	0.371	0.345	0.01	0.05	0.026	7	Good
PCB 66	ng/g	1.54	1.49	0.01	0.05	0.05	3	Good
PCB 67	ng/g	0.0412	0.0409	0.01	0.05	0.0003	---	Good
PCB 68	ng/g	<0.0051	<0.0045	0.01	0.05	---	---	Good
PCB 72	ng/g	0.0128	0.0141	0.01	0.05	0.0013	---	Good
PCB 73	ng/g	0.00227	0.0019	0.01	0.05	0.00037	---	Good
PCB 77	ng/g	0.767	0.767	0.01	0.05	0	0	Good
PCB 78	ng/g	<0.0072	0.00915	0.01	0.05	---	---	Good
PCB 79	ng/g	0.067	0.0745	0.01	0.05	0.0075	11	Good
PCB 80	ng/g	<0.0049	<0.0020	0.01	0.05	---	---	Good
PCB 81	ng/g	0.023	0.0239	0.01	0.05	0.0009	---	Good
PCB 82	ng/g	0.718	0.668	0.01	0.05	0.05	7	Good
PCB 83 + 99	ng/g	2.79	2.76	0.01	0.05	0.03	1	Good

TABLE 14c

Live Moss Quality Control Sample Results - PCB Congeners (HRMS)

Veolia

W ½ 06-067-08 W5M

Sample Point		Plot 109	Plot 109	Detection Limit (DL)	Reliable Detection Limit (RDL)**	Absolute Difference*	Absolute Relative Percent	Duplicate Sample Results Evaluation
Date	Unit	17-Jun-25	17-Jun-25					
Sample Number		15867250617007	15867250617008					
PCB 84	ng/g	0.588	0.593	0.01	0.05	0.005	1	Good
PCB 85 + 110 + 115 + 116 + 117	ng/g	8.21	8.04	0.01	0.05	0.17	2	Good
PCB 86 + 87 + 97 + 109 + 119 + 125	ng/g	2.43	2.47	0.01	0.05	0.04	2	Good
PCB 88 + 91	ng/g	0.384	0.39	0.01	0.05	0.006	2	Good
PCB 89	ng/g	0.0327	0.0295	0.01	0.05	0.0032	---	Good
PCB 90 + 101 + 113	ng/g	5.02	4.98	0.01	0.05	0.04	1	Good
PCB 92	ng/g	0.797	0.827	0.01	0.05	0.03	4	Good
PCB 93 + 98 + 100 + 102	ng/g	0.061	0.066	0.01	0.05	0.005	8	Good
PCB 94	ng/g	0.00781	<0.0085	0.01	0.05	---	---	Good
PCB 95	ng/g	2.48	2.56	0.01	0.05	0.08	3	Good
PCB 96	ng/g	<0.012	0.0116	0.01	0.05	---	---	Good
PCB 103	ng/g	0.0214	0.0233	0.01	0.05	0.0019	---	Good
PCB 104	ng/g	<0.00078	<0.00062	0.01	0.05	---	---	Good
PCB 105	ng/g	4.44	4.37	0.01	0.05	0.07	2	Good
PCB 106	ng/g	<0.0074	<0.0046	0.01	0.05	---	---	Good
PCB 107	ng/g	0.497	0.537	0.01	0.05	0.04	8	Good
PCB 108 + 124	ng/g	0.29	0.293	0.01	0.05	0.003	1	Good
PCB 111	ng/g	<0.0060	0.00385	0.01	0.05	---	---	Good
PCB 112	ng/g	<0.0059	0.00568	0.01	0.05	---	---	Good
PCB 114	ng/g	0.24	0.24	0.01	0.05	0	0	Good
PCB 118	ng/g	7.67	7.53	0.01	0.05	0.14	2	Good
PCB 120	ng/g	0.0342	0.03	0.01	0.05	0.0042	---	Good
PCB 121	ng/g	<0.0035	<0.0018	0.01	0.05	---	---	Good
PCB 122	ng/g	0.145	0.144	0.01	0.05	0.001	1	Good
PCB 123	ng/g	0.163	0.135	0.01	0.05	0.028	19	Good
PCB 126	ng/g	0.166	0.176	0.01	0.05	0.01	6	Good
PCB 127	ng/g	0.0201	<0.017	0.01	0.05	---	---	Good
PCB 128 + 166	ng/g	1.93	1.95	0.01	0.05	0.02	1	Good
PCB 129 + 138 + 163	ng/g	15.1	15.1	0.01	0.05	0	0	Good
PCB 130	ng/g	0.77	0.777	0.01	0.05	0.007	1	Good
PCB 131	ng/g	0.138	0.138	0.01	0.05	0	0	Good
PCB 132	ng/g	2.8	2.9	0.01	0.05	0.1	4	Good
PCB 133	ng/g	0.177	0.159	0.01	0.05	0.018	11	Good
PCB 134 + 143	ng/g	0.438	0.452	0.01	0.05	0.014	3	Good
PCB 135 + 151	ng/g	2.36	2.35	0.01	0.05	0.01	0	Good
PCB 136	ng/g	0.741	0.775	0.01	0.05	0.034	4	Good
PCB 137 + 164	ng/g	1.29	1.29	0.01	0.05	0	0	Good
PCB 139 + 140	ng/g	0.155	0.15	0.01	0.05	0.005	3	Good
PCB 141	ng/g	2.4	2.37	0.01	0.05	0.03	1	Good
PCB 142	ng/g	<0.0062	<0.0042	0.01	0.05	---	---	Good
PCB 144	ng/g	0.404	0.412	0.01	0.05	0.008	2	Good
PCB 145	ng/g	<0.0010	<0.0020	0.01	0.05	---	---	Good
PCB 146	ng/g	1.67	1.67	0.01	0.05	0	0	Good
PCB 147 + 149	ng/g	7.24	7.56	0.01	0.05	0.32	4	Good
PCB 148	ng/g	0.00888	0.0084	0.01	0.05	0.00048	---	Good
PCB 150	ng/g	0.0127	0.0121	0.01	0.05	0.0006	---	Good
PCB 152	ng/g	<0.0025	0.0046	0.01	0.05	---	---	Good
PCB 153 + 168	ng/g	10.4	10.4	0.01	0.05	0	0	Good
PCB 154	ng/g	0.0454	0.0456	0.01	0.05	0.0002	---	Good
PCB 155	ng/g	<0.00053	<0.00044	0.01	0.05	---	---	Good
PCB 156 + 157	ng/g	1.54	1.62	0.01	0.05	0.08	5	Good
PCB 158	ng/g	1.2	1.21	0.01	0.05	0.01	1	Good
PCB 159	ng/g	0.203	0.209	0.01	0.05	0.006	3	Good
PCB 160	ng/g	<0.011	<0.011	0.01	0.05	---	---	Good
PCB 161	ng/g	<0.0037	<0.0025	0.01	0.05	---	---	Good
PCB 162	ng/g	0.0521	0.0518	0.01	0.05	0.0003	1	Good
PCB 165	ng/g	0.0396	0.0474	0.01	0.05	0.0078	---	Good
PCB 167	ng/g	0.577	0.59	0.01	0.05	0.013	2	Good
PCB 169	ng/g	0.0104	0.0103	0.01	0.05	1E-04	---	Good
PCB 170	ng/g	3.41	3.53	0.01	0.05	0.12	3	Good
PCB 171 + 173	ng/g	1.04	1.05	0.01	0.05	0.01	1	Good
PCB 172	ng/g	0.685	0.66	0.01	0.05	0.025	4	Good
PCB 174	ng/g	3.42	3.42	0.01	0.05	0	0	Good
PCB 175	ng/g	0.169	0.165	0.01	0.05	0.004	2	Good
PCB 176	ng/g	0.404	0.399	0.01	0.05	0.005	1	Good
PCB 177	ng/g	1.91	1.96	0.01	0.05	0.05	3	Good
PCB 178	ng/g	0.736	0.731	0.01	0.05	0.005	1	Good

TABLE 14c

Live Moss Quality Control Sample Results - PCB Congeners (HRMS)

Veolia

W ½ 06-067-08 W5M

Sample Point		Plot 109	Plot 109	Detection Limit (DL)	Reliable Detection Limit (RDL)**	Absolute Difference*	Absolute Relative Percent	Duplicate Sample Results Evaluation
Date	Unit	17-Jun-25	17-Jun-25					
Sample Number		15867250617007	15867250617008					
PCB 179	ng/g	1.21	1.24	0.01	0.05	0.03	2	Good
PCB 180 + 193	ng/g	7.97	8.06	0.01	0.05	0.09	1	Good
PCB 181	ng/g	0.0182	<0.016	0.01	0.05	---	---	Good
PCB 182	ng/g	0.024	<0.023	0.01	0.05	---	---	Good
PCB 183	ng/g	2.14	2.05	0.01	0.05	0.09	4	Good
PCB 184	ng/g	<0.0040	0.00397	0.01	0.05	---	---	Good
PCB 185	ng/g	0.196	0.263	0.01	0.05	0.067	29	Good
PCB 186	ng/g	<0.0022	<0.0016	0.01	0.05	---	---	Good
PCB 187	ng/g	3.81	3.77	0.01	0.05	0.04	1	Good
PCB 188	ng/g	<0.0083	0.00842	0.01	0.05	---	---	Good
PCB 189	ng/g	0.168	0.178	0.01	0.05	0.01	6	Good
PCB 190	ng/g	0.661	0.668	0.01	0.05	0.007	1	Good
PCB 191	ng/g	0.149	0.154	0.01	0.05	0.005	3	Good
PCB 192	ng/g	<0.0026	<0.0019	0.01	0.05	---	---	Good
PCB 194	ng/g	1.55	1.72	0.01	0.05	0.17	10	Good
PCB 195	ng/g	0.65	0.721	0.01	0.05	0.071	10	Good
PCB 196	ng/g	0.923	0.967	0.01	0.05	0.044	5	Good
PCB 197	ng/g	0.0508	0.0582	0.01	0.05	0.0074	14	Good
PCB 198 + 199	ng/g	1.75	1.84	0.01	0.05	0.09	5	Good
PCB 200	ng/g	0.204	0.223	0.01	0.05	0.019	9	Good
PCB 201	ng/g	0.206	0.209	0.01	0.05	0.003	1	Good
PCB 202	ng/g	0.218	0.238	0.01	0.05	0.02	9	Good
PCB 203	ng/g	0.865	0.941	0.01	0.05	0.076	8	Good
PCB 204	ng/g	<0.0010	<0.00084	0.01	0.05	---	---	Good
PCB 205	ng/g	<0.1	0.131	0.1	0.5	---	---	Good
PCB 206	ng/g	0.36	0.451	0.01	0.05	0.091	22	Good
PCB 207	ng/g	0.0589	0.0538	0.01	0.05	0.0051	9	Good
PCB 208	ng/g	<0.057	0.066	0.01	0.05	---	---	Good
PCB 209	ng/g	0.0405	<0.0014	0.01	0.05	---	---	Good
Total MonoCB	ng/g	0.0112	0.02	0.014	0.07	0.0088	---	Good
Total DiCB	ng/g	0.593	0.585	0.026	0.13	0.008	1	Good
Total TriCB	ng/g	2.26	2.39	0.033	0.165	0.13	6	Good
Total TetraCB	ng/g	10.1	9.73	0.065	0.325	0.37	4	Good
Total PentaCB	ng/g	37.2	36.9	0.041	0.205	0.3	1	Good
Total HexaCB	ng/g	51.7	52.3	0.041	0.205	0.6	1	Good
Total HeptaCB	ng/g	28.1	28.3	0.035	0.175	0.2	1	Good
Total OctaCB	ng/g	6.42	7.05	0.026	0.13	0.63	9	Good
Total NonaCB	ng/g	0.419	0.57	0.018	0.09	0.151	31	Good
Total DecaCB	ng/g	0.0405	<0.0014	0.01	0.05	---	---	Good
Total PCB Congeners	ng/g	137	138	0.109	0.545	1	1	Good

Notes:

--- - not applicable

* - non-detectable concentrations are assessed at 95% of the detection limit

** - the reliable (reporting) detection limit (RDL) or practical detection limit (PDL) is defined as 5 times the DL

Good - evaluation indicates acceptable reproducibility

Poor - evaluation indicates poor reproducibility

Evaluation of Duplicate Analyses:

- reproducibility is unacceptable if RPD is > 30% for inorganic waters and > 40% for soils and organics
- if RPD is not applicable (---), reproducibility is evaluated based on Absolute Difference (unacceptable if > 2 x RDL)
- if Absolute Difference is not applicable (---), reproducibility is evaluated based on the parameter concentration (unacceptable if > 2 x RDL)

TABLE 14d

Live Moss Quality Control Sample Results - PCDDs and PCDFs

Veolia

W ½ 06-067-08 W5M

Sample Point		Plot 109	Plot 109*	Detection Limit (DL)	Reliable Detection Limit (RDL)**	Absolute Difference*	Absolute Relative Percent	Duplicate Sample Results Evaluation
Date	Unit	17-Jun-25	17-Jun-25					
Sample Number		15867250617007	15867250617008					
PCDDs								
2,3,7,8-Tetra CDD	pg/g	0.378	0.213	0.16	0.8	0.165	---	Good
1,2,3,7,8-Penta CDD	pg/g	1.46	<0.54	0.54	2.7	---	---	Good
1,2,3,4,7,8-Hexa CDD	pg/g	1.11	<0.77	0.77	3.85	---	---	Good
1,2,3,6,7,8-Hexa CDD	pg/g	2.95	2.26	0.27	1.35	0.69	26	Good
1,2,3,7,8,9-Hexa CDD	pg/g	2.38	1.45	0.3	1.5	0.93	---	Good
1,2,3,4,6,7,8-Hepta CDD	pg/g	34.7	24.1	0.47	2.35	10.6	36	Good
1,2,3,4,6,7,8,9-Octa CDD	pg/g	94.5	77.7	0.98	4.9	16.8	20	Good
Total Tetra CDD	pg/g	2.16	0.883	0.16	0.8	1.277	84	***Poor***
Total TetraCDD Homologues	-	5	2	-	---	---	---	---
Total Penta CDD	pg/g	11.7	6.4	0.54	2.7	5.3	59	***Poor***
Total PentaCDD Homologues	-	6	4	-	---	---	---	---
Total Hexa CDD	pg/g	35.2	25.8	0.77	3.85	9.4	31	Good
Total HexaCDD Homologues	-	6	5	-	---	---	---	---
Total Hepta CDD	pg/g	72	50.6	0.78	3.9	21.4	35	Good
Total HeptaCDD Homologues	-	2	2	-	---	---	---	---
PCDFs								
2,3,7,8-Tetra CDF	pg/g	6.06	6.78	0.34	1.7	0.72	11	Good
1,2,3,7,8-Penta CDF	pg/g	2.09	1.94	0.4	2	0.15	---	Good
2,3,4,7,8-Penta CDF	pg/g	4.3	3.65	0.41	2.05	0.65	16	Good
1,2,3,4,7,8-Hexa CDF	pg/g	3.26	2.43	0.4	2	0.83	29	Good
1,2,3,6,7,8-Hexa CDF	pg/g	3.03	2.21	0.37	1.85	0.82	31	Good
1,2,3,7,8,9-Hexa CDF	pg/g	<1.0	<0.58	1	5	---	---	Good
2,3,4,6,7,8-Hexa CDF	pg/g	4.93	3.67	0.46	2.3	1.26	29	Good
1,2,3,4,6,7,8-Hepta CDF	pg/g	16.5	12.3	0.37	1.85	4.2	29	Good
1,2,3,4,7,8,9-Hepta CDF	pg/g	<1.3	<0.72	1.3	6.5	---	---	Good
1,2,3,4,6,7,8,9-Octa CDF	pg/g	12.7	9.99	0.6	3	2.71	24	Good
Total Tetra CDF	pg/g	32.7	25.3	0.34	1.7	7.4	26	Good
Total TetraCDF Homologues	-	15	13	-	---	---	---	---
Total Penta CDF	pg/g	31.1	21.3	0.43	2.15	9.8	37	Good
Total PentaCDF Homologues	-	11	9	-	---	---	---	---
Total Hexa CDF	pg/g	21.2	19.8	1	5	1.4	7	Good
Total HexaCDF Homologues	-	6	8	-	---	---	---	---
Total Hepta CDF	pg/g	18.9	12.3	1.3	6.5	6.6	42	***Poor***
Total HeptaCDF Homologues	-	2	1	-	---	---	---	---
Lower Bound PCDD/PCDF TEQ	ng/kg	6.11	3.64	-	---	---	---	---
Mid Point PCDD/PCDF TEQ	ng/kg	6.16	3.98	-	---	---	---	---
Upper Bound PCDD/PCDF TEQ	ng/kg	6.22	4.32	-	---	---	---	---
Total TEQ	ng/kg	23.56	22.38	-	---	---	---	---

Notes:

--- - not applicable

* - non-detectable concentrations are assessed at 95% of the detection limit

** - the reliable (reporting) detection limit (RDL) or practical detection limit (PDL) is defined as 5 times the DL

Good - evaluation indicates acceptable reproducibility

Poor - evaluation indicates poor reproducibility

Evaluation of Duplicate Analyses:

- reproducibility is unacceptable if RPD is > 30% for inorganic waters and > 40% for soils and organics
- if RPD is not applicable (---), reproducibility is evaluated based on Absolute Difference (unacceptable if > 2 x RDL)
- if Absolute Difference is not applicable (---), reproducibility is evaluated based on the parameter concentration (unacceptable if > 2 x RDL)

TABLE 15a

Labrador Tea Leaves Quality Control Sample Results - Metals

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	Al mg/kg	Sb mg/kg	As mg/kg	Ba mg/kg	Be mg/kg	B mg/kg	Cd mg/kg	Cr mg/kg	Co mg/kg	Cu mg/kg	Fe mg/kg	Pb mg/kg	Li mg/kg	Mn mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	Se mg/kg	Ag mg/kg	Sr mg/kg	Tl mg/kg	Sn mg/kg	Ti mg/kg	U mg/kg	V mg/kg	Zn mg/kg	Zr mg/kg
Plot 109	17-Jun-25	15867250617107	19.9	<0.010	<0.020	34.1	<0.010	6.5	<0.0050	<0.050	<0.020	0.86	20.2	0.026	<0.50	282	<0.0050	<0.020	0.21	<0.050	<0.0050	1.62	0.0072	<0.10	0.43	<0.0020	<0.10	6.88	<0.20
Plot 109	17-Jun-25	15867250617108	24.2	<0.010	<0.020	39.5	<0.010	7.8	<0.0050	<0.050	<0.020	1.02	25.6	0.032	<0.50	373	<0.0050	<0.020	0.25	<0.050	<0.0050	1.93	0.0112	<0.10	0.52	<0.0020	<0.10	8.57	<0.20
Detection Limit (DL)			2	0.01	0.02	0.05	0.01	1	0.005	0.05	0.02	0.1	3	0.02	0.5	0.05	0.005	0.02	0.2	0.05	0.005	0.05	0.002	0.1	0.25	0.002	0.1	0.5	0.2
Reliable Detection Limit (RDL)**			10	0.05	0.1	0.25	0.05	5	0.025	0.25	0.1	0.5	15	0.1	2.5	0.25	0.025	0.1	1	0.25	0.025	0.25	0.01	0.5	1.25	0.01	0.5	2.5	1
Absolute Difference*			4.3	---	---	5.4	---	1.3	---	---	---	0.16	5.4	0.006	---	91	---	---	0.04	---	---	0.31	0.004	---	0.09	---	---	1.69	---
Absolute Relative Percent Difference (RPD)*			20	---	---	15	---	18	---	---	---	17	24	---	---	28	---	---	---	---	---	17	---	---	---	---	---	22	---
Duplicate Sample Results Evaluation			Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
Plot 402	16-Jun-25	15867250616102	97	<0.010	0.033	109	<0.010	23	0.0105	0.126	0.05	3.37	101	0.068	<0.50	1020	0.0162	0.022	0.48	<0.050	<0.0050	10.6	0.0121	<0.10	2.64	0.0041	0.15	27.9	0.3
Plot 402	16-Jun-25	15867250616103	93.9	0.022	0.032	108	<0.010	22.9	0.0116	0.119	0.049	3.44	97.5	0.07	<0.50	1000	0.0163	0.021	0.48	<0.050	0.0083	10.6	0.0168	<0.10	2.32	0.0036	0.14	26.9	<0.40
Detection Limit (DL)			2	0.01	0.02	0.05	0.01	1	0.005	0.05	0.02	0.1	3	0.02	0.5	0.05	0.005	0.02	0.2	0.05	0.005	0.05	0.002	0.1	0.25	0.002	0.1	0.5	0.4
Reliable Detection Limit (RDL)**			10	0.05	0.1	0.25	0.05	5	0.025	0.25	0.1	0.5	15	0.1	2.5	0.25	0.025	0.1	1	0.25	0.025	0.25	0.01	0.5	1.25	0.01	0.5	2.5	2
Absolute Difference*			3.1	---	0.001	1	---	0.1	0.0011	0.007	0.001	0.07	3.5	0.002	---	20	1E-04	0.001	0	---	---	0	0.0047	---	0.32	0.0005	0.01	1	---
Absolute Relative Percent Difference (RPD)*			3	---	---	1	---	0	---	---	---	2	4	---	---	2	---	---	---	---	---	0	33	---	13	---	---	4	---
Duplicate Sample Results Evaluation			Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good

Notes:

--- - not applicable

* - non-detectable concentrations are assessed at 95% of the detection limit

** - the reliable (reporting) detection limit (RDL) or practical detection limit (PDL) is defined as 5 times the DL

Good - evaluation indicates acceptable reproducibility

Poor - evaluation indicates poor reproducibility

Evaluation of Duplicate Analyses:

- reproducibility is unacceptable if RPD is > 30% for inorganic waters and > 40% for soils and organics
- if RPD is not applicable (---), reproducibility is evaluated based on Absolute Difference (unacceptable if > 2 x RDL)
- if Absolute Difference is not applicable (---), reproducibility is evaluated based on the parameter concentration (unacceptable if > 2 x RDL)

TABLE 15b

Labrador Tea Leaves Quality Control Sample Results - Macronutrients

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	N %	Ca mg/kg	Mg mg/kg	K mg/kg	Na mg/kg	P mg/kg	S mg/kg
Plot 109	17-Jun-25	15867250617107	1.37	1860	382	1170	<20	349	290
Plot 109	17-Jun-25	15867250617108	1.38	2200	458	1380	<20	411	330
Detection Limit (DL)			0.01	20	2	20	20	10	100
Reliable Detection Limit (RDL)**			---	100	10	100	100	50	500
Absolute Difference*			0.01	340	76	210	---	62	40
Absolute Relative Percent Difference (RPD)*			---	17	18	16	---	16	---
Duplicate Sample Results Evaluation			Good	Good	Good	Good	Good	Good	Good
Plot 402	16-Jun-25	15867250616102	1.53	7020	1600	4430	<20	1370	1210
Plot 402	16-Jun-25	15867250616103	1.58	7180	1590	4580	<20	1390	1140
Detection Limit (DL)			0.01	20	2	20	20	10	100
Reliable Detection Limit (RDL)**			---	100	10	100	100	50	500
Absolute Difference*			0.05	160	10	150	---	20	70
Absolute Relative Percent Difference (RPD)*			---	2	1	3	---	1	6
Duplicate Sample Results Evaluation			Good	Good	Good	Good	Good	Good	Good

Notes:

--- - not applicable

* - non-detectable concentrations are assessed at 95% of the detection limit

** - the reliable detection limit (RDL) or practical detection limit (PDL) is defined as 5 times the DL

Good - evaluation indicates acceptable reproducibility

Poor - evaluation indicates poor reproducibility

Evaluation of Duplicate Analyses:

- reproducibility is unacceptable if RPD is > 30% for inorganic waters and > 40% for soils and organics
- if RPD is not applicable (---), reproducibility is evaluated based on Absolute Difference (unacceptable if > 2 x RDL)
- if Absolute Difference is not applicable (---), reproducibility is evaluated based on the parameter concentration (unacceptable if > 2 x RDL)
- pH is evaluated based on Absolute Difference (unacceptable if > 0.5)

TABLE 15c

Labrador Tea Leaves Quality Control Sample Results - PCB Congeners (HRMS)

Veolia

W ½ 06-067-08 W5M

Sample Point		Plot 109	Plot 109*	Detection Limit (DL)	Reliable Detection Limit (RDL)**	Absolute Difference*	Absolute Relative Percent	Duplicate Sample Results Evaluation
Date	Unit	17-Jun-25	17-Jun-25					
Sample Number		15867250617107	15867250617108					
PCB Congeners								
PCB 1	ng/g	<0.0034	<0.0039	0.0039	0.0195	---	---	Good
PCB 2	ng/g	<0.0033	<0.0094	0.0094	0.047	---	---	Good
PCB 3	ng/g	<0.0034	<0.016	0.016	0.08	---	---	Good
PCB 4	ng/g	<0.0095	<0.014	0.014	0.07	---	---	Good
PCB 5	ng/g	<0.0040	<0.0059	0.0059	0.0295	---	---	Good
PCB 6	ng/g	<0.0042	<0.0063	0.0063	0.0315	---	---	Good
PCB 7	ng/g	<0.0037	<0.0055	0.0055	0.0275	---	---	Good
PCB 8	ng/g	0.0514	0.0322	0.0061	0.0305	0.0192	46	***Poor***
PCB 9	ng/g	<0.0042	<0.0063	0.0063	0.0315	---	---	Good
PCB 10	ng/g	<0.0042	<0.0062	0.0062	0.031	---	---	Good
PCB 11	ng/g	0.328	0.279	0.0095	0.0475	0.049	16	Good
PCB 12 + 13	ng/g	<0.0066	<0.011	0.011	0.055	---	---	Good
PCB 14	ng/g	<0.0074	<0.0097	0.0097	0.0485	---	---	Good
PCB 15	ng/g	0.0605	0.0568	0.007	0.035	0.0037	6	Good
PCB 16	ng/g	0.0224	<0.016	0.016	0.08	---	---	Good
PCB 17	ng/g	<0.022	<0.0100	0.022	0.11	---	---	Good
PCB 18 + 30	ng/g	0.0502	<0.022	0.022	0.11	---	---	Good
PCB 19	ng/g	<0.0052	<0.0064	0.0064	0.032	---	---	Good
PCB 20 + 28	ng/g	0.176	0.153	0.0062	0.031	0.023	14	Good
PCB 21 + 33	ng/g	0.0514	0.0428	0.0031	0.0155	0.0086	18	Good
PCB 22	ng/g	<0.039	<0.03	0.039	0.195	---	---	Good
PCB 23	ng/g	<0.0038	<0.0064	0.0064	0.032	---	---	Good
PCB 24	ng/g	<0.0032	<0.0040	0.004	0.02	---	---	Good
PCB 25	ng/g	<0.0070	0.00966	0.007	0.035	---	---	Good
PCB 26 + 29	ng/g	0.018	0.0114	0.003	0.015	0.0066	---	Good
PCB 27	ng/g	<0.0035	<0.0043	0.0043	0.0215	---	---	Good
PCB 31	ng/g	0.0901	0.071	0.0065	0.0325	0.0191	24	Good
PCB 32	ng/g	0.0193	<0.0074	0.0074	0.037	---	---	Good
PCB 34	ng/g	<0.0042	<0.0072	0.0072	0.036	---	---	Good
PCB 35	ng/g	0.0196	0.016	0.0068	0.034	0.0036	---	Good
PCB 36	ng/g	<0.0036	<0.0061	0.0061	0.0305	---	---	Good
PCB 37	ng/g	0.136	0.13	0.0052	0.026	0.006	5	Good
PCB 38	ng/g	0.018	0.0186	0.0068	0.034	0.0006	---	Good
PCB 39	ng/g	<0.0033	<0.0056	0.0056	0.028	---	---	Good
PCB 40 + 41 + 71	ng/g	0.0559	0.0561	0.0066	0.033	0.0002	0	Good
PCB 42	ng/g	0.0318	0.0313	0.0082	0.041	0.0005	---	Good
PCB 43	ng/g	<0.0050	<0.0081	0.0081	0.0405	---	---	Good
PCB 44 + 47 + 65	ng/g	0.184	0.198	0.0062	0.031	0.014	7	Good
PCB 45 + 51	ng/g	0.0204	0.0159	0.007	0.035	0.0045	---	Good
PCB 46	ng/g	<0.0052	<0.0081	0.0081	0.0405	---	---	Good
PCB 48	ng/g	0.0169	0.0179	0.0063	0.0315	0.001	---	Good
PCB 49 + 69	ng/g	0.0852	0.077	0.006	0.03	0.0082	10	Good
PCB 50 + 53	ng/g	0.0142	<0.0070	0.007	0.035	---	---	Good
PCB 52	ng/g	0.262	0.255	0.0072	0.036	0.007	3	Good
PCB 54	ng/g	<0.0030	<0.0041	0.0041	0.0205	---	---	Good
PCB 55	ng/g	<0.0058	<0.0062	0.0062	0.031	---	---	Good
PCB 56	ng/g	0.0964	0.1	0.006	0.03	0.0036	4	Good
PCB 57	ng/g	<0.0063	<0.0068	0.0068	0.034	---	---	Good
PCB 58	ng/g	<0.0055	<0.0059	0.0059	0.0295	---	---	Good
PCB 59 + 62 + 75	ng/g	0.0106	0.0132	0.005	0.025	0.0026	---	Good
PCB 60	ng/g	0.0991	0.0888	0.0061	0.0305	0.0103	11	Good
PCB 61 + 70 + 74 + 76	ng/g	0.69	0.716	0.0063	0.0315	0.026	4	Good
PCB 63	ng/g	<0.012	<0.014	0.014	0.07	---	---	Good
PCB 64	ng/g	0.0672	0.062	0.0054	0.027	0.0052	8	Good
PCB 66	ng/g	0.428	0.43	0.0064	0.032	0.002	0	Good
PCB 67	ng/g	<0.0098	<0.011	0.011	0.055	---	---	Good
PCB 68	ng/g	<0.0053	<0.0057	0.0057	0.0285	---	---	Good
PCB 72	ng/g	<0.0062	<0.0067	0.0067	0.0335	---	---	Good
PCB 73	ng/g	<0.0030	<0.0048	0.0048	0.024	---	---	Good
PCB 77	ng/g	0.24	0.25	0.0066	0.033	0.01	4	Good
PCB 78	ng/g	<0.0066	<0.0071	0.0071	0.0355	---	---	Good
PCB 79	ng/g	0.0139	<0.012	0.012	0.06	---	---	Good
PCB 80	ng/g	<0.0050	<0.0054	0.0054	0.027	---	---	Good
PCB 81	ng/g	0.011	<0.0068	0.0068	0.034	---	---	Good
PCB 82	ng/g	0.121	0.128	0.0074	0.037	0.007	6	Good
PCB 83 + 99	ng/g	0.74	0.753	0.009	0.045	0.013	2	Good

TABLE 15c

Labrador Tea Leaves Quality Control Sample Results - PCB Congeners (HRMS)

Veolia

W ½ 06-067-08 W5M

Sample Point		Plot 109	Plot 109*	Detection Limit (DL)	Reliable Detection Limit (RDL)**	Absolute Difference*	Absolute Relative Percent	Duplicate Sample Results Evaluation
Date	Unit	17-Jun-25	17-Jun-25					
Sample Number		15867250617107	15867250617108					
PCB 84	ng/g	0.14	0.152	0.0097	0.0485	0.012	8	Good
PCB 85 + 110 + 115 + 116 + 117	ng/g	1.36	1.38	0.0089	0.0445	0.02	1	Good
PCB 86 + 87 + 97 + 109 + 119 + 125	ng/g	0.616	0.619	0.0074	0.037	0.003	0	Good
PCB 88 + 91	ng/g	0.0751	0.0765	0.0093	0.0465	0.0014	2	Good
PCB 89	ng/g	<0.0079	<0.012	0.012	0.06	---	---	Good
PCB 90 + 101 + 113	ng/g	1.08	1.14	0.0079	0.0395	0.06	5	Good
PCB 92	ng/g	0.245	0.238	0.0072	0.036	0.007	3	Good
PCB 93 + 98 + 100 + 102	ng/g	<0.0081	<0.021	0.021	0.105	---	---	Good
PCB 94	ng/g	<0.0062	<0.0091	0.0091	0.0455	---	---	Good
PCB 95	ng/g	0.7	0.677	0.0073	0.0365	0.023	3	Good
PCB 96	ng/g	<0.0041	<0.0055	0.0055	0.0275	---	---	Good
PCB 103	ng/g	<0.0065	<0.0096	0.0096	0.048	---	---	Good
PCB 104	ng/g	<0.0039	<0.0055	0.0055	0.0275	---	---	Good
PCB 105	ng/g	0.695	0.744	0.0052	0.026	0.049	7	Good
PCB 106	ng/g	<0.0035	<0.0059	0.0059	0.0295	---	---	Good
PCB 107	ng/g	0.0974	0.103	0.0045	0.0225	0.0056	6	Good
PCB 108 + 124	ng/g	0.0563	0.064	0.0051	0.0255	0.0077	13	Good
PCB 111	ng/g	<0.0039	<0.0058	0.0058	0.029	---	---	Good
PCB 112	ng/g	<0.0042	<0.0062	0.0062	0.031	---	---	Good
PCB 114	ng/g	<0.031	0.0376	0.031	0.155	---	---	Good
PCB 118	ng/g	1.4	1.38	0.0048	0.024	0.02	1	Good
PCB 120	ng/g	<0.01	0.00879	0.01	0.05	---	---	Good
PCB 121	ng/g	<0.0040	<0.0059	0.0059	0.0295	---	---	Good
PCB 122	ng/g	0.0237	<0.012	0.012	0.06	---	---	Good
PCB 123	ng/g	<0.028	<0.024	0.028	0.14	---	---	Good
PCB 126	ng/g	0.0278	0.0288	0.0058	0.029	0.001	---	Good
PCB 127	ng/g	<0.0033	<0.0069	0.0069	0.0345	---	---	Good
PCB 128 + 166	ng/g	0.246	0.251	0.0051	0.0255	0.005	2	Good
PCB 129 + 138 + 163	ng/g	1.99	2.18	0.0058	0.029	0.19	9	Good
PCB 130	ng/g	0.106	<0.095	0.095	0.475	---	---	Good
PCB 131	ng/g	<0.016	<0.017	0.017	0.085	---	---	Good
PCB 132	ng/g	0.397	0.433	0.0059	0.0295	0.036	9	Good
PCB 133	ng/g	<0.028	0.0296	0.028	0.14	---	---	Good
PCB 134 + 143	ng/g	0.0602	0.0664	0.0072	0.036	0.0062	10	Good
PCB 135 + 151	ng/g	0.592	0.59	0.0036	0.018	0.002	0	Good
PCB 136	ng/g	0.185	0.184	0.0029	0.0145	0.001	1	Good
PCB 137 + 164	ng/g	0.172	0.182	0.0048	0.024	0.01	6	Good
PCB 139 + 140	ng/g	0.0329	<0.029	0.029	0.145	---	---	Good
PCB 141	ng/g	0.341	0.355	0.0056	0.028	0.014	4	Good
PCB 142	ng/g	<0.0042	<0.0071	0.0071	0.0355	---	---	Good
PCB 144	ng/g	0.091	0.0976	0.0037	0.0185	0.0066	7	Good
PCB 145	ng/g	<0.0019	<0.0025	0.0025	0.0125	---	---	Good
PCB 146	ng/g	0.285	0.304	0.0052	0.026	0.019	6	Good
PCB 147 + 149	ng/g	1.09	1.23	0.0055	0.0275	0.14	12	Good
PCB 148	ng/g	<0.0030	<0.0038	0.0038	0.019	---	---	Good
PCB 150	ng/g	<0.0032	<0.0031	0.0032	0.016	---	---	Good
PCB 152	ng/g	<0.0023	<0.0029	0.0029	0.0145	---	---	Good
PCB 153 + 168	ng/g	1.65	1.8	0.0046	0.023	0.15	9	Good
PCB 154	ng/g	0.0206	0.0205	0.0028	0.014	1E-04	0	Good
PCB 155	ng/g	<0.0022	<0.0017	0.0022	0.011	---	---	Good
PCB 156 + 157	ng/g	0.145	0.148	0.0072	0.036	0.003	2	Good
PCB 158	ng/g	0.177	0.186	0.004	0.02	0.009	5	Good
PCB 159	ng/g	<0.0099	0.0143	0.0099	0.0495	---	---	Good
PCB 160	ng/g	<0.0024	<0.0040	0.004	0.02	---	---	Good
PCB 161	ng/g	<0.0028	<0.0046	0.0046	0.023	---	---	Good
PCB 162	ng/g	0.00686	0.00544	0.0042	0.021	0.00142	---	Good
PCB 165	ng/g	<0.0025	<0.0043	0.0043	0.0215	---	---	Good
PCB 167	ng/g	0.0698	0.0826	0.0053	0.0265	0.0128	17	Good
PCB 169	ng/g	<0.0035	<0.0063	0.0063	0.0315	---	---	Good
PCB 170	ng/g	0.253	0.27	0.0039	0.0195	0.017	7	Good
PCB 171 + 173	ng/g	0.113	<0.11	0.11	0.55	---	---	Good
PCB 172	ng/g	0.0644	0.0722	0.0037	0.0185	0.0078	11	Good
PCB 174	ng/g	0.357	0.388	0.0032	0.016	0.031	8	Good
PCB 175	ng/g	0.0218	<0.022	0.022	0.11	---	---	Good
PCB 176	ng/g	0.0579	0.059	0.0027	0.0135	0.0011	2	Good
PCB 177	ng/g	0.211	0.233	0.0036	0.018	0.022	10	Good
PCB 178	ng/g	0.0934	0.106	0.0038	0.019	0.0126	13	Good

TABLE 15c

Labrador Tea Leaves Quality Control Sample Results - PCB Congeners (HRMS)

Veolia

W ½ 06-067-08 W5M

Sample Point		Plot 109	Plot 109*	Detection Limit (DL)	Reliable Detection Limit (RDL)**	Absolute Difference*	Absolute Relative Percent	Duplicate Sample Results Evaluation
Date	Unit	17-Jun-25	17-Jun-25					
Sample Number		15867250617107	15867250617108					
PCB 179	ng/g	0.175	0.184	0.0026	0.013	0.009	5	Good
PCB 180 + 193	ng/g	0.742	0.773	0.0031	0.0155	0.031	4	Good
PCB 181	ng/g	0.00346	<0.0033	0.0033	0.0165	---	---	Good
PCB 182	ng/g	<0.0030	0.00798	0.003	0.015	---	---	Good
PCB 183	ng/g	0.26	0.282	0.033	0.165	0.022	8	Good
PCB 184	ng/g	<0.0020	<0.0022	0.0022	0.011	---	---	Good
PCB 185	ng/g	<0.027	<0.024	0.027	0.135	---	---	Good
PCB 186	ng/g	<0.0022	<0.0024	0.0024	0.012	---	---	Good
PCB 187	ng/g	0.445	0.467	0.0029	0.0145	0.022	5	Good
PCB 188	ng/g	<0.0021	<0.0021	0.0021	0.0105	---	---	Good
PCB 189	ng/g	<0.0097	<0.0098	0.0098	0.049	---	---	Good
PCB 190	ng/g	0.0445	0.0516	0.0027	0.0135	0.0071	15	Good
PCB 191	ng/g	<0.015	<0.012	0.015	0.075	---	---	Good
PCB 192	ng/g	<0.0025	<0.0028	0.0028	0.014	---	---	Good
PCB 194	ng/g	0.0715	<0.07	0.07	0.35	---	---	Good
PCB 195	ng/g	<0.03	<0.032	0.032	0.16	---	---	Good
PCB 196	ng/g	0.059	<0.051	0.051	0.255	---	---	Good
PCB 197	ng/g	<0.0056	<0.0057	0.0057	0.0285	---	---	Good
PCB 198 + 199	ng/g	0.11	0.11	0.009	0.045	0	0	Good
PCB 200	ng/g	<0.011	<0.013	0.013	0.065	---	---	Good
PCB 201	ng/g	<0.013	0.0181	0.013	0.065	---	---	Good
PCB 202	ng/g	<0.018	<0.026	0.026	0.13	---	---	Good
PCB 203	ng/g	0.0583	<0.051	0.051	0.255	---	---	Good
PCB 204	ng/g	<0.0024	<0.0061	0.0061	0.0305	---	---	Good
PCB 205	ng/g	<0.0048	<0.0066	0.0066	0.033	---	---	Good
PCB 206	ng/g	<0.019	<0.035	0.035	0.175	---	---	Good
PCB 207	ng/g	<0.011	<0.02	0.02	0.1	---	---	Good
PCB 208	ng/g	<0.0095	<0.015	0.015	0.075	---	---	Good
PCB 209	ng/g	<0.0066	<0.0093	0.0093	0.0465	---	---	Good
Total MonoCB	ng/g	<0.0033	<0.0038	0.0038	0.019	---	---	Good
Total DiCB	ng/g	0.44	0.368	0.0055	0.0275	0.072	18	Good
Total TriCB	ng/g	0.6	0.453	0.004	0.02	0.147	28	Good
Total TetraCB	ng/g	2.33	2.31	0.0041	0.0205	0.02	1	Good
Total PentaCB	ng/g	7.38	7.53	0.0045	0.0225	0.15	2	Good
Total HexaCB	ng/g	7.67	8.16	0.0017	0.0085	0.49	6	Good
Total HeptaCB	ng/g	2.84	2.89	0.0021	0.0105	0.05	2	Good
Total OctaCB	ng/g	0.298	0.128	0.0056	0.028	0.17	80	***Poor***
Total NonaCB	ng/g	<0.0095	<0.015	0.0095	0.0475	---	---	Good
Total DecaCB	ng/g	<0.0066	<0.0093	0.0093	0.0465	---	---	Good
Total PCB Congeners	ng/g	21.6	21.8	0.699	3.495	0.2	1	Good

Notes:

--- - not applicable

* - non-detectable concentrations are assessed at 95% of the detection limit

** - the reliable (reporting) detection limit (RDL) or practical detection limit (PDL) is defined as 5 times the DL

Good - evaluation indicates acceptable reproducibility

Poor - evaluation indicates poor reproducibility

Evaluation of Duplicate Analyses:

- reproducibility is unacceptable if RPD is > 30% for inorganic waters and > 40% for soils and organics
- if RPD is not applicable (---), reproducibility is evaluated based on Absolute Difference (unacceptable if > 2 x RDL)
- if Absolute Difference is not applicable (---), reproducibility is evaluated based on the parameter concentration (unacceptable if > 2 x RDL)

TABLE 15d

Labrador Tea Leaves Quality Control Sample Results - PCDDs and PCDFs

Veolia

W ½ 06-067-08 W5M

Sample Point		Plot 109	Plot 109*	Detection Limit (DL)	Reliable Detection Limit (RDL)**	Absolute Difference*	Absolute Relative Percent	Duplicate Sample Results Evaluation
Date	Unit	17-Jun-25	17-Jun-25					
Sample Number		15867250617107	15867250617108					
PCDDs								
2,3,7,8-Tetra CDD	pg/g	<2.0	<1.7	1.7	8.5	---	---	Good
1,2,3,7,8-Penta CDD	pg/g	<1.5	<1.4	1.4	7	---	---	Good
1,2,3,4,7,8-Hexa CDD	pg/g	<1.9	<1.7	1.7	8.5	---	---	Good
1,2,3,6,7,8-Hexa CDD	pg/g	<1.8	<1.6	1.6	8	---	---	Good
1,2,3,7,8,9-Hexa CDD	pg/g	<1.8	<1.6	1.6	8	---	---	Good
1,2,3,4,6,7,8-Hepta CDD	pg/g	4.61	<2.6	2.6	13	---	---	Good
1,2,3,4,6,7,8,9-Octa CDD	pg/g	<15	<14	14	70	---	---	Good
Total Tetra CDD	pg/g	<2.0	<1.7	2	10	---	---	Good
Total TetraCDD Homologues	-	0	0	-	---	---	---	---
Total Penta CDD	pg/g	<1.5	<1.4	1.5	7.5	---	---	Good
Total PentaCDD Homologues	-	0	0	-	---	---	---	---
Total Hexa CDD	pg/g	<1.9	<1.7	1.9	9.5	---	---	Good
Total HexaCDD Homologues	-	0	0	-	---	---	---	---
Total Hepta CDD	pg/g	4.61	<2.6	2.6	13	---	---	Good
Total HeptaCDD Homologues	-	1	0	-	---	---	---	---
PCDFs								
2,3,7,8-Tetra CDF	pg/g	<2.4	<1.9	2.4	12	---	---	Good
1,2,3,7,8-Penta CDF	pg/g	<1	<1	1	5	---	---	Good
2,3,4,7,8-Penta CDF	pg/g	<1.1	<1.2	1.2	6	---	---	Good
1,2,3,4,7,8-Hexa CDF	pg/g	<1.1	<0.90	1.1	5.5	---	---	Good
1,2,3,6,7,8-Hexa CDF	pg/g	<1.1	<0.97	1.1	5.5	---	---	Good
1,2,3,7,8,9-Hexa CDF	pg/g	<1.9	<1.4	1.9	9.5	---	---	Good
2,3,4,6,7,8-Hexa CDF	pg/g	<1.3	<1.1	1.3	6.5	---	---	Good
1,2,3,4,6,7,8-Hepta CDF	pg/g	<2.2	<2.0	2.2	11	---	---	Good
1,2,3,4,7,8,9-Hepta CDF	pg/g	<3.3	<3.5	3.5	17.5	---	---	Good
1,2,3,4,6,7,8,9-Octa CDF	pg/g	<3.8	<4.4	4.4	22	---	---	Good
Total Tetra CDF	pg/g	<2.4	<1.9	2.4	12	---	---	Good
Total TetraCDF Homologues	-	0	0	-	---	---	---	---
Total Penta CDF	pg/g	<1.2	<1.3	1.3	6.5	---	---	Good
Total PentaCDF Homologues	-	0	0	-	---	---	---	---
Total Hexa CDF	pg/g	<1.9	<1.4	1.9	9.5	---	---	Good
Total HexaCDF Homologues	-	0	0	-	---	---	---	---
Total Hepta CDF	pg/g	<3.3	<3.5	3.5	17.5	---	---	Good
Total HeptaCDF Homologues	-	0	0	-	---	---	---	---
Lower Bound PCDD/PCDF TEQ	ng/kg	0.046	0	-	---	---	---	---
Mid Point PCDD/PCDF TEQ	ng/kg	2.67	2.32	-	---	---	---	---
Upper Bound PCDD/PCDF TEQ	ng/kg	5.3	4.66	-	---	---	---	---
Total TEQ	ng/kg	5.59	5.39	-	---	---	---	---

Notes:

--- - not applicable

* - non-detectable concentrations are assessed at 95% of the detection limit

** - the reliable (reporting) detection limit (RDL) or practical detection limit (PDL) is defined as 5 times the DL

Good - evaluation indicates acceptable reproducibility

Poor - evaluation indicates poor reproducibility

Evaluation of Duplicate Analyses:

- reproducibility is unacceptable if RPD is > 30% for inorganic waters and > 40% for soils and organics
- if RPD is not applicable (---), reproducibility is evaluated based on Absolute Difference (unacceptable if > 2 x RDL)
- if Absolute Difference is not applicable (---), reproducibility is evaluated based on the parameter concentration (unacceptable if > 2 x RDL)

TABLE 16

Quality Control Sample Results-PCB Field Blanks

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	Aroclor 1016 mg/kg	Aroclor 1221 mg/kg	Aroclor 1232 mg/kg	Aroclor 1242 mg/kg	Aroclor 1248 mg/kg	Aroclor 1254 mg/kg	Aroclor 1260 mg/kg	Aroclor 1262 mg/kg	Aroclor 1268 mg/kg	Total PCBs mg/kg
Field Blank	16-Jun-25	15867250616301	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Field Blank	17-Jun-25	15867250617303	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Field Blank	18-Jun-25	15867250618305	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
		Detection Limit (DL)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Notes:

--- - not analyzed

Italics - value exceeds 2 x detection limit and indicates the results for this parameter may be suspect: further investigation warranted

APPENDIX A
Monitoring Protocol

SOIL AND VEGETATION MONITORING PROTOCOL
SWAN HILLS TREATMENT CENTRE
EPEA APPROVAL NO. 00001744-02-01, AS AMENDED

Prepared for:
SUEZ CANADA WASTE SERVICES INC.

Prepared by:
MATRIX SOLUTIONS INC.

Version 1.0
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Edmonton, Alberta

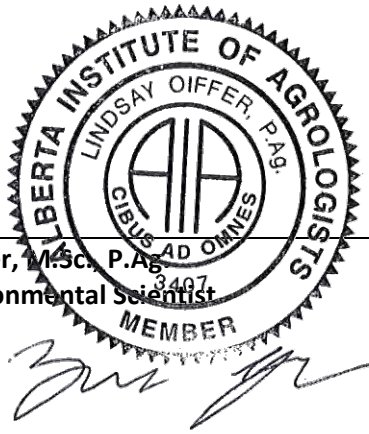
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SOIL AND VEGETATION MONITORING PROTOCOL

SWAN HILLS TREATMENT CENTRE

EPEA APPROVAL NO. 00001744-02-01, AS AMENDED

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1 INTRODUCTION

SUEZ Canada Waste Services Inc. retained Matrix Solutions Inc. to complete the 2015 to 2019 soil and vegetation monitoring program for the Swan Hills Treatment Centre (SHTC), located in the Municipal District of Big Lakes. The monitoring program has been in place since the plant began operation in 1987. Monitoring has been completed annually in the spring or fall since 1988. Baseline samples were collected before operation between 1985 and 1987.

This document outlines the methodology employed to complete the monitoring program and includes updates to the original monitoring protocol which was prepared in 1994 (HBT 1994).

1.1 Monitoring Program Objectives

Forest environments are typically considered to be sinks for atmospheric pollutants, with pollutants being deposited on forest vegetation and eventually being stored within the leaf litter (Nizzetto et al. 2008; Wania and Mclachlan 2001). The objective of the monitoring program is to assess changes in concentrations of chemicals of concern in the forested area surrounding the SHTC. This program is completed in accordance with Section 4.8 of the facility's *Environmental Protection and Enhancement Act* (EPEA) Approval No. 00001744-02-01, as amended.

2 MONITORING PROGRAM SCOPE

During the monitoring program samples are collected and analyzed for the chemical parameters listed in Section 3.3. The monitoring program is based on a 5-year cycle that consists of the following:

- Every year, samples of Labrador tea leaves and live moss are collected at ten annual monitoring plots (Figure 1). Contaminant concentrations in the live moss represent cumulative deposition over a longer time period, whereas, the Labrador tea leaves are representative of deposition which occurred over the previous year.

- Every second year (biannually), 15 moss bag samples are collected from moss bag plots (Figure 1). Concurrent with the collection of the moss bags, lichen health is also assessed at these plots. The moss bag data are used to account for any atmospheric deposition that may be occurring.

- Every 5 years, Labrador tea leaves are sampled from an additional 22 expanded program monitoring plots (Figure 1).

Note that there is a contingency that if live moss PCB concentrations increase by 50% or more over the previous two years, additional sampling would be triggered. This would involve sampling the underlying organic or mineral soil layers in the next sampling period for PCBs.

3 METHODOLOGY

3.1 Plot Selection

3.1.1 Background

Soil and vegetation monitoring plots were established based on plume dispersion models (Bovar-Concord Environmental 1995) and a baseline ecological survey of the plume deposition zone (the study area). Based on the ecological survey the following dominant ecosites were identified within the study area:

- Black spruce - Labrador Tea - feather moss
- Lodgepole pine - black spruce
- Black spruce - sedge-cloudberry - sphagnum

The current monitoring plot locations are located primarily in the black spruce - Labrador tea - feather moss ecosite with some plots situated within the lodgepole pine - black spruce ecosite. There are no plots currently situated in the sedge-cloudberry-sphagnum ecotype as it is not commonly found within the study area.

Moss bag and lichen plots were established initially in 1988 by overlaying a 10 × 20 km grid over the facility oriented in an east-west direction. Initially 50 sites where established with 10 sites situated upwind (west) of the facility and 40 sites situated downwind (east). Between 1988 and 1990 the sites were re-aligned based on updated plume deposition zones. Since 1988 the number of lichen and moss bag plots has been reduced to 15 sites (6 upwind and 9 downwind) to eliminate any redundancies in the data collected.

The location of all the plots within the theoretical depositional zones is summarized in Table A below.

TABLE A Monitoring Plots in each Depositional Zone

Inorganic Parameters		
Zone 1 (>0.2 µg/m³ NO_x)	**Zone 2 (<0.2 µg/m³ NO_x)**	
Plots *4, 5, 15, 20* and 114	Plots *1, 2, 9,* 11*, 14, 19, 22, 24, 26, 50,* 70*,* 71*,* 109*,* 110*,* 117*,* 123*,* and 402	
Organic Parameters		
Zone 1 (>1 ng/m³ PCB)	**Zone 2 (0.5 - 1.0 ng/m³ PCB)**	**Zone 3 (<0.5 ng/m³ PCB)**
Plots 1, 2, 4, 5, 6, 8 11, 12, 15, 80, 102, 103, 104, 109, and 110	Plots 7, 9, 13, 27, 28, 114 and 121	Plots 14, 16, 26, 29, 70, 71, 81, 117, 123, and 402

*4 - underlined denotes annual monitoring plots
**5 - *italics* denotes plots with moss bags and where lichen health is assessed

More recent air emissions modelling completed in 2014 (Zelt PSI 2014) indicated that those plots situated in Zone 1 would still be more likely to receive emissions from the SHTC even though all predicted emission levels have been below threshold values or air quality objectives.

3.1.2 Plot Markings

The location of the monitoring plots is shown on Figure 1 and plot specific direction maps are provided in Appendix A. A diagram of a typical soil and veg plot layout is provided in Figure 2.

Coordinates for the monitoring plots have been verified using a Trimble or Garmin GPS unit between 2015 and 2019. The trail leading to the plots have been marked with blue and pink flagging and white reflective 3M strips. Tree paint was also used in 2016; however, it was found to fade when exposed to sunlight and has not been used since. For some plots a triangle has been added to mark the start of the trail leading to the plot location.

Maintenance work is completed in conjunction with sampling at the plots. Since the expanded program plots are only sampled once every 5 years a site visit is typically planned in year 2 of the program's cycle to ensure maintenance issues are noted. Maintenance at the annual plots is completed annually. Maintenance at the expanded and moss bag plots is typically staggered during the 5 year cycle.

The following maintenance work is completed:

- trail markings leading to the plots are updated e.g. re-marked whenever they are visited.
- plot markings (reflective triangles) and the live moss transect markings are also updated as necessary.
- direction maps are checked and updated as necessary with any details that assist with plot location
- plot coordinates are checked and updated as necessary

If a plot needs to be relocated due to conflicting industrial activities care should be taken to update the plot coordinates, location map and plot markings. The new plot should be established as per Figure 2. Any markings leading to the old plot should be removed to avoid potential confusion with plot access in the future.

3.2 Field Methods

The original monitoring protocol was completed by HBT in 1994 (HBT 1994). Since then, some sampling procedures have been removed from the program and there has been a change in the preparation of the moss bags. The current field methods utilized for this program are outlined below.

The monitoring program is based on a 5-year cycle that consists of the following:

- every year, samples of Labrador tea leaves and live moss are collected at ten annual monitoring plots
- every second year (biannually), 15 moss bag samples are collected from moss bag plots
- every 5 years, Labrador tea leaves are sampled from an additional 22 expanded program monitoring plots

3.2.1 Soil and Vegetation Plots

Live moss samples were collected as per the Monitoring Protocol. This involved collecting subsamples of the live moss layer at the ends and mid-point of a 30 m linear transect established in each monitoring plot (Figure 2; quadrants 1, 5, and 10). The live moss layer includes the green vegetative portion of the moss and associated rhizoids. For each subsample, live moss is collected using gloved hands (nitrile gloves), forest litter is removed (needles and leaves) and then the moss was homogenized in a large plastic ziplock bag. A portion of the moss sample is tightly packed into two to four 500 mL laboratory-supplied glass jars for organic analysis; the volume required is dependent on the analytical schedule. The remaining sample is sealed in the bag for inorganic analysis (approximately 2 L of moss).

Labrador tea leaves are collected in the vicinity of the monitoring plots by gloved hand. Only the previous growing seasons leaves are collected (larger leaves) from the plant. The leaves are homogenized in a large plastic bag then a portion of the leaves are packed in two 500 mL laboratory-supplied glass jars for organic analysis. The remaining sample is sealed in the bag for inorganic analysis (approximately 2 L of leaves). Samples are kept cold (<10 ^{0}C) until they are delivered to the laboratory

Soil samples are collected from the underlying mineral soil using a metal shovel and metal scraping tool. Sub-samples are collected at the ends and mid-point of a 30 m linear transect. A small soil pit is excavated at each location to a depth of at least 15 cm into the mineral soil layer. The face of the pit is cleaned with a small metal scraping tool and then samples of the entire depth of the decomposing moss horizon (fibric, mesic, humic) and mineral soil (0 to 5 cm and 5 to 15 cm) are collected, each depth increment homogenized and placed in laboratory supplied glass jars. Leaf litter layers, if present, are not sampled.

Note that sample volumes will vary depending on the analytical requirements for the specific sampling year. Nitrile gloves are changed at a minimum between plots.

3.2.2 Lichen Plots

There are three lichen health subsites at each of the moss bag plots. The primary species of lichen at these sites is *Hypogymnia physoides.* Lichen health is visually assessed consistent with the methodology employed in previous monitoring programs using the following rating system:

- 3 - no damage, healthy, robust
- 2 - partially damaged, discoloured, deformed necrotic tissue
- 1 - morbid, dead, tissue missing
- 0 - absent

Historically one of the three lichen sub-sites was assessed and if the health rating at this site decreased by one rating point from the previous sampling event, the other sub-sites were also assessed. If all three sub-sites were of a similar health rating, then this decrease in vitality would be considered significant. Since 2016, all sub-sites have been assessed.

Each sub-site is photographed with a digital camera capable of ten megapixel resolution, a monopod was used for stability while photographing. Before photographing the lichen site, a quadrat of known dimensions (9 cm × 20 cm interior dimension) was aligned with two nail markings at the sub-site and placed over the lichen. This was done to provide a measure of scale in the photograph.

Area measurements have not been completed since 1991 as the changes in growth were too insignificant to measure.

Occasionally lichen sites may need to be relocated should the tree hosting the site fall over. When relocating the site the following should be completed:

- A suitable tree within the plot should be selected with lichens growing around 1.5 to 2 m above ground level to avoid the potential for wildlife to remove lichens from the subsite.
- The tree should be flagged with orange flagging.
- Two galvanized or aluminum nails should be driven into the tree beneath the lichen to mark the plot. The spacing of the nails should be noted and consistent with the other lichen subsites at the plot.
- A metal tag identifying the site number should be nailed to the subsite. The tag should be scored to ensure the site number does not fade over time.

3.2.3 Moss Bag Plots

The following section outlines the preparation, construction and collection of moss bags. It should be noted that a temporary field authorization is not required to collect the moss (Weber 2018). Note that acid washing will be added to the program in 2020 based on the trial which occurred between 2017 and 2019 (Matrix 2019).

Moss Bag Preparation (Adapted from Goodarzi et al. 2003)

Undecomposed moss is collected and prepared according to the following steps:

1. Collect 20 to 40 L of fibric (undecomposed) peat moss (*Sphagnum* spp.) in 20 L plastic buckets from a peatland situated near Swan Hills. The location of the peatland is situated north of Swan Hills and east of Highway 33. The location is opposite a cellular communication tower and the Universal Transverse Mercator coordinates for the area are N6068005/E603628.
2. Buckets used for moss collection are rinsed three times with distilled water before use. A metal shovel is used to collect blocks of peat which are then placed in the buckets.
3. Moss is transported to the laboratory within 24 hours of collection and stored at 4°C.
4. Moss is homogenized by hand in a clean laboratory setting and any twigs or leaf litter are removed.

5. The moss is acid washed by soaking for two 12 hour periods in 20 L HDPE buckets containing 0.5 M nitric acid. In between soakings the moss will be rinsed three times with distilled water. After the second soaking, the moss will be rinsed with distilled water until the rinsate is near or above a pH of 4 or until further rinsing is deemed impractical. Metal should not come in contact with the acid bath or the acid soaked moss.
6. The moss will be segregated into smaller aliquots for placement in the moss bags. Each aliquot should yield approximately 8 g of moss dry weight (based on gravimetric moisture correction).
7. The moss will be placed in the moss bag, the top of the moss bag will be sewn shut using nylon thread and the bags will be allowed to air dry to a damp state for ease of storage.

Moss Bag Construction

Moss bags are constructed as per Figure 3. The moss bags are constructed using UV stabilized high density polyethylene scaffold netting with 1.6 mm × 3.2 mm rectangular holes in the mesh. Seams in the bags are made by welding the mesh together with a soldering iron. The pouch containing the moss is closed by hand using weather resistant nylon sowing thread. Before placing moss in the mesh bags they are soaked for one 12 hour period in 0.5 M nitric acid and rinsed three times with distilled water.

Other types of mesh can also be sourced, however, the mesh should not be treated with any chemicals that are being monitored, should be UV resistant, should have a small enough aperture size to contain the moss and should be suitable for plastic welding.

The moss bag holder is prepared using 0.625 cm diameter PVC rods shaped into a slingshot as illustrated on Figure 3. The rod is bent into shape using a heat gun and the holder is bent at a 45° angle to facilitate capture of atmospherically deposited particulate matter and rain fall.

Moss bag holders are installed by pushing or hammering a 1.9 cm ID schedule 80 PVC pipe into the ground to a height of 100 cm above ground surface. The moss bag holders are installed in the PVC and orientated in the direction of the facility.

Moss Bag Collection and Deployment

Following a 2 year (sample program years 2 and 4) or 1 year exposure period (sample program year 5) moss bags are collected using gloved (nitrile) hands and placed in laboratory-supplied ziplock bags. A new unexposed moss bag is placed on the moss bag holder and zip ties are used to secure the moss bag to the holder. All unexposed moss bags are stored in sealed ziplock bags during transport to the field for deployment.

Three unexposed moss bags or un-bagged aliquots of moss are obtained from storage and analyzed to provide an indication of background metal concentrations in the moss used to prepare the moss bags.

3.2.4 Decontamination Methods

The following methods are employed to avoid cross-contamination:

- sampling equipment is decontaminated between plots by washing sequentially with an organic solvent (methanol), laboratory-grade detergent, and lastly, distilled water
- disposable gloves are worn while sampling and are changed between plots or as necessary
- mosquito repellents or other aerosol sprays are not used during the program

3.3 Laboratory Methods

Laboratory analysis for organic parameters has been and is currently completed by ALS Canada. Analysis of inorganic parameters was previously completed by AMEC (pre 2015). Since 2015, ALS Canada has completed most of the inorganic analysis with the exception that Maxxam was contracted to analyze samples for metals between 2015 and 2018 as they where able to use the same method for metal extraction as AMEC.

A summary of sample analysis by plot is provided in Table B.

TABLE B Analytical Program

Parameters	Live Moss Annual Plots Year 1 to 5	Labrador Tea Annual Plots Year 1 to 5	Live Moss Annual Plots Year 5	Labrador Tea Expanded Plots Year 5	Soil Annual Plots Year 5	Moss Bags Moss Bag Plots Year 2, 4, and 5
Metals and nutrients[1]	X	X				
Metals[2]						X
Saturated paste EC/pH	X					
Total nitrogen		X				
Aroclor PCBs			X		X	
PCBs (LRMS)				X		
PCBs (HRMS)	X	X				
PCDD/PCDDF	X	X				

EC - Electrical conductivity
LRMS - Low resolution mass spectroscopy
HRMS - High resolution mass spectroscopy
PAH - Polycyclic aromatic hydrocarbons
PCDD - Polychlorinated dioxins
PCDF - Polychlorinated furans
PCBs - Polychlorinated biphenyls

[1] Includes aluminum, antimony, arsenic, barium, beryllium, boron, cadmium, calcium, chromium, cobalt, copper, iron, lead, lithium, manganese, magnesium, mercury, molybdenum, nickel, phosphorous, potassium, selenium, silver, sodium, strontium, sulphate, sulphur, thallium, tin, titanium, uranium, vanadium, zinc, zirconium

[2] Includes calcium, magnesium, phosphorous, potassium, sodium, sulphur. Labrador tea samples were analyzed for nitrogen.

Organic and mineral soil samples are only analyzed in year 5 of the monitoring program if there are detectable concentrations of Aroclor PCBs in the overlying live moss layer. Samples are analyzed from the underlying mineral soil (0 to 5 cm and 5 to 15 cm) until Aroclor PCB concentrations are below the laboratory detection limit.

In year 5, other SVOC and VOC compounds may also be analyzed, however, the exact analytical schedule is determined closer to the end of the monitoring program's cycle.

Samples are shipped to the lab in laboratory supplied containers; once received by the lab the samples are prepared appropriately, depending on the analysis.

- all samples slated for pH/EC and total nitrogen analysis are dried in an oven at an approximate temperature of 55°C and then homogenized in a metal grinder
- vegetation samples slated for metals analysis are dried at 55°C and then cut with ceramic scissors
- all samples slated for organic parameter analysis are analyzed as received

Metal, nutrients, and total nitrogen results are reported on a dry weight basis. Organic results for vegetation (live moss and Labrador tea) samples are reported on a wet weight basis with the exception of Aroclor PCB analysis which is reported on a dry weight basis. All analysis completed in the underlying organic or mineral soil is reported on a dry weight basis. The practices for reporting dry versus air dried weight are consistent with historical conventions.

Analytical methods are summarized in Table C.

TABLE C Analytical Methods

Parameter	Analytical Method
Moss	
Metals	Extracted using "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive" Method/Analyzed using USEPA 200.3/6020A[2]
Mercury	Extracted using "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive" Method/Analyzed using USEPA 200.3, 245.7
pH	Saturated Paste Extract
EC	Saturated Paste Extract
Nutrients	Extracted using "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive" Method/Analyzed using USEPA 200.3/6020A[2]
Total (Aroclor) PCBs	EPA 3570/8082
PCBs (HRMS)	USEPA 1668C[1]
PCDD/PCDF	USEPA 1613B
Labrador Tea	
Metals	Extracted using "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive" Method/Analyzed using USEPA 200.3/6020A[2]

Parameter	Analytical Method
Mercury	Extracted using "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive" Method/Analyzed using USEPA 200.3, 245.7
Nutrients	Extracted using "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive" Method/Analyzed using USEPA 200.3/6020A[2]
Nitrogen	Total Nitrogen by combustion
PCBs (LRMS)	SIM GC/LRMS (extracted as per Method 1668C and analyzed using CARB428)
PCBs (HRMS)	USEPA 1668C[1]
PCDD/PCDF	USEPA 1613B
Moss Bags	
Metals	Extracted using "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive" Method/Analyzed using USEPA 200.3/6020A[2]
Mercury	Extracted using "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive" Method/Analyzed using USEPA 200.3, 245.7
Soil	
Total (Aroclor) PCBs	EPA 3570/8082

[1] Where the PCB 126 and 169 peaks appeared to be broader than expected on the chromatogram the sample extract was passed through a carbon column to better resolve the co-planar PCB fraction

[2] Collision cell interface was used on ICPMS

3.4 Archiving

Any unused sample volume which remains following sample analysis are air dried, placed in sealed coolers or boxes and sent to the Alberta Energy Regulator's Core Research Centre in Calgary, Alberta.

Samples should be labelled so the label remains visible over the long term. A sample legend should be included with each shipment indicating the sample ID, corresponding plot ID, sample matrix, date collected and volume of sample archived. This sample legend should also be provided to SUEZ for their records.

3.5 Data Analysis

The purpose of the data analysis is to identify any increasing trends in the data that may be reflective of emissions from the SHTC or decreasing trends in those chemicals which have accumulated in the terrestrial environment from past emissions. Contaminant data tends to be asymmetrically distributed; for simplicity, statistical measures that are robust to non-normal distributions were used (median, minimum, maximums, and percentiles) when evaluating data from the soil and vegetation plots.

Data analysis is divided into three time periods; short term trends (between years), medium term trends (5 years) and long term trends (>5 years). At the analysts discretion it may be appropriate to further subdivide the longer term trend analysis.

When evaluating the moss bag data and comparing values between depositional zones (Table A; Zones 1 and 2) the data has been normally distributed and the mean and standard error are used to compare average values over time.

TEQs values are calculated for PCDD/PCDF and co-planar PCBs using the World Health Organization's 2005 TEQ factors (Van den Berg et al. 2006) consistent with previous monitoring programs (AMEC 2015). When calculating the TEQ value, non-detect values were set equal to half the laboratory's method detection limit. As TEQ values approach background levels they are more likely to be affected by changes in the detection limit for the congeners used to calculate the TEQ.

The following summarizes the basic data analysis which is completed, it is possible that additional analytical methods are not included here but may be warranted.

3.5.1 Annual Monitoring Plots

The following analytical approaches are employed when evaluating the Annual Monitoring Plot Data:

- Comparison of the current year's and previous years' data: An increase or decrease of at least 40% was considered to be a substantial change. A value of 40% was selected as it is a typical amount of variability in soil samples and is commonly used when evaluating duplicate soil data. Also this value was chosen based on the relative percent difference (RPD) reported for blind duplicate samples in current and past monitoring events (Matrix 2017).

- Trend graphs are used to compare the concentrations of selected parameters over a 5-year period at plots 4, 11, 70, 71, 109, and 114. These plots are considered to be representative of conditions immediately surrounding the SHTC (plots 4, 11, 109, and 114) and background conditions (plots 70 and 71). Consistent with previous programs, plot 70 (organic parameter trend graphs) or plot 71 (inorganic parameter trend graphs) are included for comparison. The purpose of this analysis is to evaluate any temporal trends in the data.

- Mann-Kendall analysis (Kendall 1975) is used to confirm any significant long-term temporal trends (p-value < 0.05) that may be evident in the data. As Mann-Kendall requires at least six data points, it is not suitable for detecting short-term trends.

- Box plots are used to compare the most recent data against historical medians and ranges. The box plots also allow for spatial comparisons between plots. The sample plots shown on the box plots are arranged based on distance from the SHTC, and historically spatial trends in chemical concentrations have been related to distance from the facility (AMEC 2015).

3.5.2 Moss Bag

The following analytical approaches were employed for the moss bag data:

- Trend graphs are used to compare the concentrations of selected parameters over a 5-year period at plots 4, 11, 15, 20, and 71. These plots are considered to be representative of conditions immediately surrounding the SHTC (plots 4, 11, 15, and 20) and background conditions (plot 71). As plots 109 and 114 do not have moss bags, the nearest moss bag plots (plots 15 and 20) are used to relate changes in moss bag chemical concentrations to the live moss and Labrador tea. The purpose of this analysis is to evaluate any temporal trends in the data.

- Trend graphs are prepared for Zones 1 and 2 using the average values reported during each sampling event. The 25th and 75th percentile values obtained for each parameter in the unexposed moss samples since 2019 are used as control bounds on the graph.

- The average values for metal parameters of concern in Zones 1 and 2 and the unexposed moss bags are compared to determine if there are any significant differences using analysis of variance (ANOVA). If the average values for these three groups are significantly different, the Tukey test is used to complete additional post-hoc pairwise comparisons of the groups to determine more precisely which groups are considered to be significantly different. Normality and homogeneity of variances between groups are evaluated using the Shapiro-Wilk and Levene's tests. The data for some chemical parameters may have to be log transformed if the distribution of the data does not meet the assumptions of normality or the variances between groups is not homogenous.

- Mann-Kendall analysis (Kendall 1975) is used to confirm any significant long-term temporal trends (p-value < 0.05) for each zone using the cenken method, which allows for the analysis of censored data (non-detects).

3.5.3 Lichen Health Data

Lichen health is evaluated by comparing the current health rating at each site to the previous years rating. A representative photograph of each site and subsite are appended to the report. The digital image files should be stored in jpg format for a period of 10 years.

Area measurements of the lichen have not been completed since 1991, however, photos should be taken with a scale indicator (quadrat) should it become necessary to determine and compare the lichen's surface area.

3.5.4 Expanded Program Plots

PCB concentrations in the Labrador tea leaves at the expanded and annual plots are contoured and a figure is generated depicting the spatial concentrations of PCBs. Previously, an inverse distance weighting approach has been employed to interpolate between data points, although other statistical methods can be used if appropriate. The spatial extent of PCB concentrations relative to the treatment center is compared to contours of historical spatial data from 2004 onwards to determine if there has been a change in the spatial extent of PCB accumulation in the vegetation.

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Easting (m)

611000 612000 613000 614000 615000 616000 617000 618000 619000 620000 621000 622000

Northing (m)

6076000 6075000 6074000 6073000 6072000 6071000 6070000 6069000 6068000 6067000

Saddleback River

Cowper Creek

67-9-W5

67-8-W5

66-9-W5

66-8-W5

MB50 Plot 81 MB26 Plot 121 MB19 Plot 26 Plot 123 Plot 28 Plot 15 Plot 11 MB11 Plot 1 MB2 Plot 2 MB9 Plot 104 Plot 6 Plot 12 MB15 MB1 Plot 109 Plot 4 MB4 Plot 5 MB5 Plot 9 Plot 13 Plot 14 MB14 Plot 7 Plot 102 Plot 8 Plot 16 Plot 29 Plot 402 Plot 110 Plot 114 Plot 103 Plot 80 MB20 Plot 27 Plot 117 MB24 (Former) MB24 MB22

Road

Annual Monitoring Location

Expanded Program Monitoring Location

Moss Bag Monitoring Location

33 Plot 70

33 MB71 Plot 71

1:40,000 metres

420 0 420 840

NAD 1983 UTM Zone 11N

Reference: Data obtained from AltaLIS © Government of Alberta used under license. GDM transportation infrastructure data provided by IHS © 2017 used under license. Imagery (2014) obtained from Valtus © (2017) used under license.

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ENVIRONMENT & ENGINEERING

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Soil and Vegetation Plots

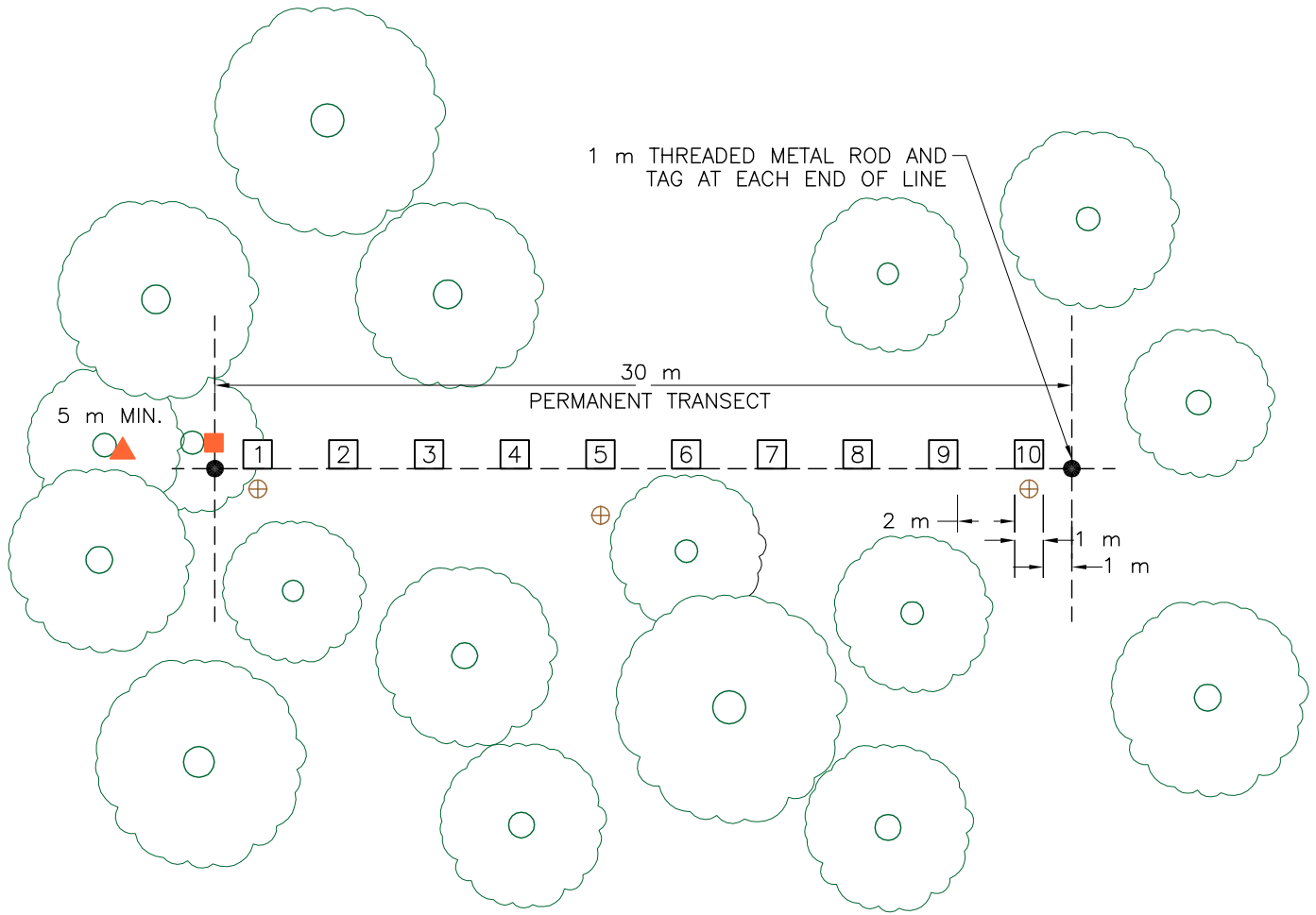
Date:	Project:	Submitter:	Reviewer:
Sep 2017	15867	L. Oiffer	K. Ostermann

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Figure 1

I:\SUEZCanadaWasteServices\15867\FiguresAndTables\MON\2017\Report\VegetationAndMonitoringProgram\Figure-2-Soil_and_Vegetation_Plots.mxd - Tabbut_L - 28-Aug-18, 11:27 AM - jkoning - TID05

F:\15867\Drafting\2016\15867-VEG-16.cdr



LEGEND

9 VEGETATION QUADRANTS

⊕ **Soil/Live Moss Sampling Site**

▲ ORANGE TRIANGLE (40x40 cm) ATTACHED TO A TREE TRUNK IS IN GENERAL AREA OF TRANSECT ORIGIN

■ ORANGE RECTANGULAR TAG (5x7 cm) ATTACHED TO A TREE TRUNK – TRANSECT START WITHIN 1.0 m OF TREE

○ TREE CANOPY

Reference: Reproduced from HBT Agra Ltd. 1994.

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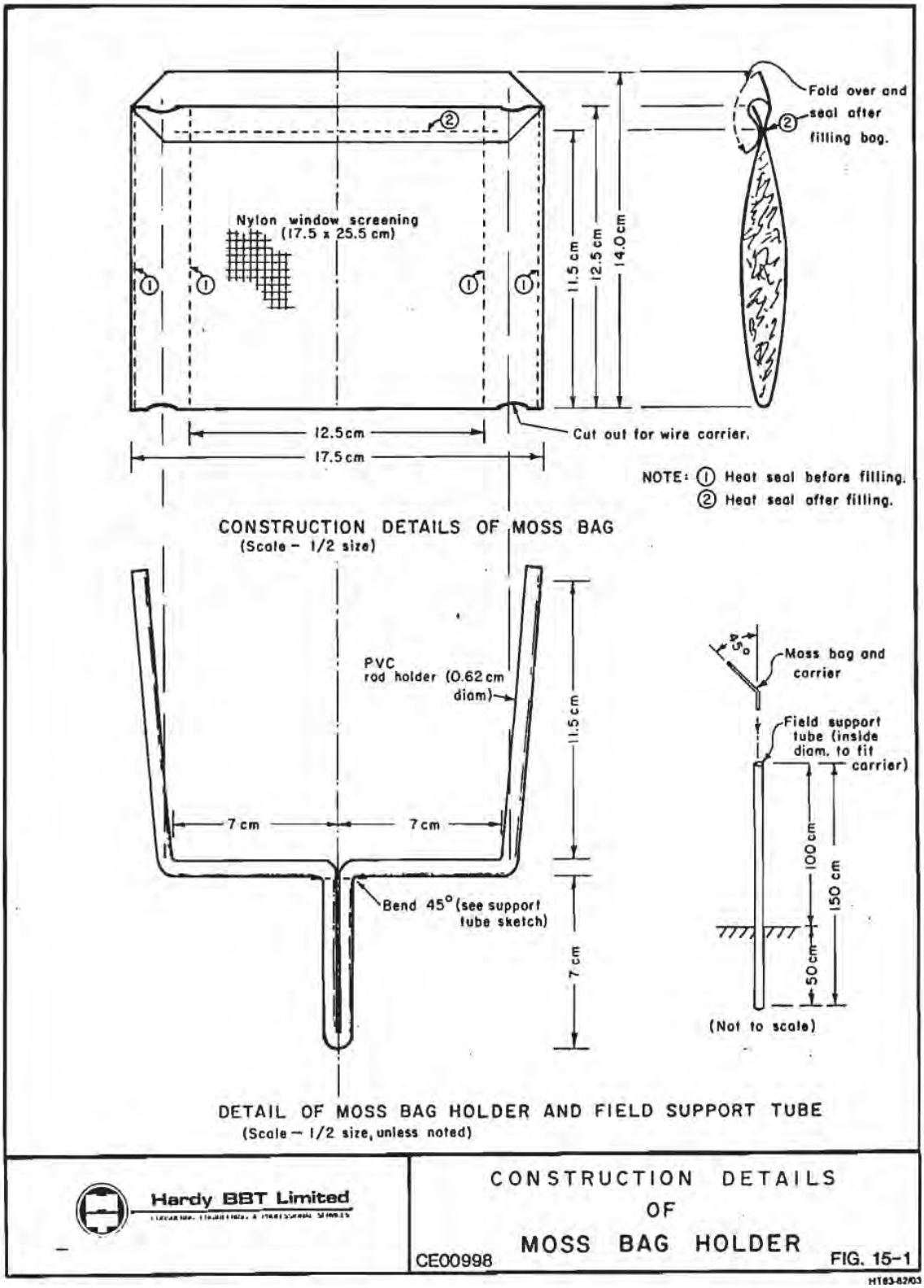
SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre W1/2-06-067-08 W5M

Typical Soil and Vegetation Sampling Plot

Date:	Project:	Technical:	Reviewer:	Drawn:
January 2016	15867-VEG-16	L. Oiffer	K. Ostermann	G. Stein

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Figure 2



Matrix Solutions Inc.
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SUEZ – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Moss Bag Construction

Date:	Project:	Technical:	Reviewer:	Drawn:
	15867-503			

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Figure 3

TABLE 1 Changes to the Monitoring Program

Year Initiated	Description (Soils and Vegetation Monitoring Program)
Pre-Operational (Baseline) Monitoring	
1984	Mapped vegetation/soil units (ecosites) in 8 km^2 area around the plant site.
1985	Select and sample three major ecosites; data included: 1. Vegetation cover. 2. Chemical analysis of vegetation tissue: Macronutrients % (calcium, potassium, magnesium, nitrogen, phosphorus, sulphur); micronutrients (boron, chloride, cobalt, copper, iron, manganese, molybdenum, sodium, zinc); inorganic trace elements (aluminum, barium, beryllium, cadmium, chromium, fluoride, lead, mercury, nickel, silver, titanium, tungsten, vanadium); inorganic trace elements (cyanide, polychlorinated biphenyls [PCBs], phenol). 3. Chemical analysis of soils: pH, electrical conductivity, soluble cations and anions, metals (aluminum, arsenic, barium, beryllium, boron, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, molybdenum, nickel, phosphorus, potassium, silver, sodium, tin, titanium, tungsten, vanadium, and zinc); fluoride; cyanide; phenols; PCBs, pesticides, EPA priority pollutants, naturally occurring organic compounds; and hydrocarbons.
1986	Vegetation stress assessment in 200 km^2 area around plant; data included: 1. Aerial photograph interpretation of stressed areas. 2. Field assessment of selected stress areas.
1986	Establishment of lichen – moss grid in 200 km^2 area around plant; data included: 1. Lichens – area measurements. 2. Mosses – analysis for trace elements.
Operational Monitoring	
1988	Map vegetation/soil units (ecosites) in area defined by plume dispersion model (120 km^2).
1988	Select and sample three major ecosites (including baseline plots) within the plume deposition zones. Data included: 1. Chemical analysis of vegetation tissue. 2. Chemical analysis of soils.
1988	Realignment of lichen – moss grid within the plume deposition zones. Data included: 1. Lichens – area measurements. 2. Mosses – analysis for trace elements.

Year Initiated	Description (Soils and Vegetation Monitoring Program)
1991	Program revised to reduce sampling of soil and vegetation plots from 40 to 20 plots for organic analysis and specifically only 12 plots for total PCB analysis. Moss bag and lichen plots reduced from 23 to 15. Vegetation health assessment completed in 100 km^2 area in 1991; data included air photo interpretation and field assessment of stressed areas.
1997/1998	Program expanded to include nine regional plots in 1997 and 1998. Additional receptors sampled including: willow, berries, tree lichens, and snow sampled between 1997 and 1998. Vegetation health assessment was completed in 1997. Winter sampling and chemical analysis at selected plots in 1997 and 1998.
2000	Program revised to reduce sampling of soil and vegetation plots to ten for inorganic and organic chemical analysis. Added congener specific PCB and dioxin and furan analysis. Expanded program to be implemented every 5 years (2004, 2009, 2014, and 2019) with an additional 22 plots to be sampled. Added additional triggers for further monitoring.
2004	Completed a vegetation health assessment in 2004 only.
2006	Program schedule revised to spring (April/May) so Labrador tea leaves sampled after 1 year of exposure. Moss bag and lichen program exposure period extended to 2 years.
2007	Lichen and moss bag Site 22 was moved closer to the SHTC into a non-productive forest stand to avoid being disturbed by forest harvesting activities.
2009	The vegetation health assessment was removed from the expanded program. Relocated the soil and vegetation Plot 70 to be consistent with the wildlife plot. Re-sampled the 10 standard plots and plots 1, 2, 15, and 104 following a fire at the SHTC which occurred on July 11, 2009.
2010	In addition to the regular sampling program at ten sites in the spring of 2010, four plots (1, 2, 15, and 104) sampled in 2009 related to the SHTC fire were sampled again in July 2010. The analytical scope was increased to include congener PCBs and dioxins/furans at each sampling location.
2012	Implemented preliminary interpretation of the results as soon as they are available to assist with monitoring of trends recently observed in wildlife results from plots 109 and 110. Reviewed aroclor and congener-specific PCB analysis and a decision was made to analyze for PCBs using both methods.
2013	Plot #28 was re-established due to its proximity to a proposed oil and gas lease.

Year Initiated	Description (Soils and Vegetation Monitoring Program)
2015	Aroclor PCB analyses deleted from the standard monitoring program scope. Plot 28 was added to the standard program for both soils and vegetation and sampled in 2015 only to confirm Aroclor PCB concentrations reported in 2014.
2017	An acid washing procedure was trialled on the moss used in the moss bags, to see if it would be effective in lowering the concentration of metals in the unexposed moss. Acid washed moss bags were deployed at three sites and preliminary results showed that metal concentrations in the unexposed moss were reduced. A dustfall sampler trial was performed to see if they would be an effective replacement for moss bags. Dustfall samplers were deployed at 3 sites and based on the results of this limited trial it was determined that this methodology appears to be more suited to sampling coarser windblown particulates and is not adaptable to sampling finer particulates that would be associated with metal deposition from the SHTC's emissions.
2018	Acid-washed and conventional moss bag media were deployed at all sites for analysis in 2019. A comparison between the current method of extracting metals from soil (USEPA Method 3050) and a more common method (Strong Acid Leachable Metals) indicated that there was no significant difference between the results obtained using either method.
2019	A further comparison was made between the SALM method, which is for extracting metals from soils, and USEPA method 200.3, which is for tissue. There was no significant difference between the methods. A decision was made to switch to USEPA 200.3 when extracting metals from the moss and Labrador tea samples as the detection limits were lower. The acid washing trial was completed and a letter was prepared recommending that moss bags be acid washed as a preparation step to reduce the variability of metal concentrations in the unexposed moss. PAHs, VOCs and SVOCs were analyzed in live moss samples An additional background location was sampled to ensure a better representation of background PAH, VOC and SVOC levels. Labrador tea leaves from the expanded program plots were analyzed for PCBs using a low-resolution mass spectrometry method. The green leafy portion of the live moss at select annual plots was clipped and analyzed for congener PCBs and PCDD/DF.

APPENDIX A
Plot Location Maps

Appendix Outdated - contents removed for 2026 report

APPENDIX B
Plot Photographs

Appendix Outdated - contents removed for 2026 report

APPENDIX A1

Updates to Monitoring Program and Moss Bag Washing Protocol

APPENDIX A1

UPDATES TO THE MONITORING PROGRAM

In 2019 an updated protocol for the monitoring program was developed and this protocol is appended as Appendix A2. Since 2019 the following updates have been made to the program:

- In 2019 minor adjustments to the moss bag washing protocol were initiated (outlined below)
- At the onset of 2020 the following changes were implemented to the program (Matrix 2020).
    - Live moss will be sampled annually but only analyzed biennially in years 1, 3, and 5 of the 5-year cycle.
    - Moss bags are being deployed and collected annually.
- The Triggers for this program were updated in 2020 as follows:
    - In years 2 and 4 of the 5-year monitoring cycle, if TEQ levels in the Labrador tea at those plots near the SHTC (plots 4, 11, 109, and 114) exceed the 75th percentile of historical values (last 10 years of data) then the live moss will also be analyzed for PCBs and dioxins/furans.
    - A facility upset resulting in offsite emissions of significant magnitude would result in soil and vegetation sampling at selected sites immediately following incident. The number/location of sites and analytical scope would be based on meteorological conditions and the nature of the release.
- In 2025 the following changes were implemented
    - Soil and vegetation plot 117 was shifted to the expanded program
    - Moss Bag plot MB22 was removed from the program and the moss bag holder was shifted to Plot 114 creating a new moss bag plot titled MB114. A moss bag was deployed at MB114 for the first time in June 2025 to be collected in 2026.

UPDATES TO THE MOSS BAG WASHING PROTOCOL

The following updates have been made based on observations of metal reductions in subsequent batches of washed peat moss since the acid washing protocol was initiated in 2019:

- The moss is now prepared and washed at Alberta Innovates in Edmonton, Alberta.
- Trace metal grade acid should be used when washing the moss.
- The buckets used to wash the peat moss should be newly purchased and acid rinsed prior to use.
- A switch was made from using deionized water to using water that had been filtered through a Millipore filtration system (Milliq CDOF01205).
- The peat is now soaked for two 24-hour periods at a ratio of 1 part peat to 3 parts dilute acid by volume.
- The peat is dried in a drying room with filtered air so that dust does not collect on the surface of the peat while it is being dried.

Currently the acid washed moss utilized in the moss bags is associated with batches of moss that were washed at Alberta Innovates in 2020 and in the winter of 2021. Metals analysis following the acid washing of these batches is found in Table A1.3.

REFERENCES

Matrix Solutions Inc. (Matrix). 2021. *2020 Soil and Vegetation Monitoring Program Report, Swan Hills Treatment Centre, EPEA Approval No. 00001744-03-00, as Amended*. Version 1.0. Prepared for SUEZ Canada Waste Services Inc. Edmonton, Alberta. March 2021.

Matrix Solutions Inc. (Matrix). 2020. *2020 Proposed Updates Soil Management Program, Swan Hills Treatment Centre, W ½ 06-067-08 W5M, EPEA Approval No. 00001744-03-00, as amended*. Version 1.0. Prepared for SUEZ Canada Waste Services Inc. Edmonton, Alberta. April 27, 2020.

TABLE A1.1

Updated Sampling Schedule

Veolia Waste Services Alberta Inc.

W ½ 06-067-08 W5M

Sample Point	UTM (m) Northing	UTM (m) Easting	Sampled Annually Years 1 to 5	Sampled Biennially Years 1, 3 and 5	Sampled Every 5 years Only
Live Moss*					
Plot 4	6071027	615111	x		
Plot 11	6071792	614644	x		
Plot 70	6067388	603071	x		
Plot 71	6090717	610660	x		
Plot 109	6071109	614333	x		
Plot 110	6070621	614146	x		
Plot 114	6070370	615636	x		
Plot 123	6072155	616302	x		
Plot 402	6070378	622256	x		
Labrador Tea Leaves					
Plot 4	6071027	615111	x		
Plot 11	6071792	614644	x		
Plot 70	6067388	603071	x		
Plot 71	6090717	610660	x		
Plot 109	6071109	614333	x		
Plot 110	6070621	614146	x		
Plot 114	6070370	615636	x		
Plot 123	6072155	616302	x		
Plot 402	6070378	622256	x		
Soil					
Plot 4	6071027	615111			x
Plot 11	6071792	614644			x
Plot 70	6067388	603071			x
Plot 71	6090717	610660			x
Plot 109	6071109	614333			x
Plot 110	6070621	614146			x
Plot 114	6070370	615636			x
Plot 117	6069476	616123			x
Plot 123	6072155	616302			x
Plot 402	6070378	622256			x
Moss Bag & Lichen Plots					
MB1	6071636	614877	x		
MB2	6071499	615167	x		
MB4	6071042	615113	x		
MB5	6070830	615191	x		
MB9	6071537	616313	x		
MB11	6071793	614620	x		
MB14	6070786	617626	x		
MB15	6071257	614272	x		
MB19	6072437	611431	x		
MB20	6069869	614958	x		
MB24	6069288	620330	x		
MB26	6073143	612778	x		
MB50	6075021	611447	x		
MB71	6090717	610660	x		
MB114	6070370	615636	x		
Expanded Program Plots					
Plot 1	6071499	615180			x
Plot 2	6071680	614875			x
Plot 5	6070876	615167			x
Plot 6	6071317	615555			x
Plot 7	6071148	616122			x
Plot 8	6071068	615921			x
Plot 9	6071376	616251			x
Plot 12	6071306	613823			x
Plot 13	6070904	616908			x
Plot 14	6071087	619130			x
Plot 15	6071310	613824			x
Plot 16	6070606	617622			x
Plot 26	6072436	611432			x
Plot 27	6069869	614958			x
Plot 28	6071785	612645			x
Plot 29	6070373	619636			x
Plot 80	6070420	614497			x
Plot 81	6074838	611636			x
Plot 102	6070994	615418			x
Plot 103	6070659	615169			x
Plot 104	6071516	614425			x
Plot 117	6069476	616123			x
Plot 121	6072855	614343			x

*Live moss is sampled annually but only analyzed in years 1, 3 and 5 of the monitoring cycle

TABLE A1.2

Updated Analytical Schedule

Veolia Waste Services Alberta Inc.

W ½ 06-067-08 W5M

Parameters	Live Moss Annual Plots Year 1 and 3	Labrador Tea Annual Plots Year 1 to 4	Live Moss Annual Plots Year 5	Labrador Tea Annual Plots Year 5	Labrador Tea & Live Moss Expanded Plots Year 5	Soil Annual Plots Year 5	Moss Bags Moss Bag Plots Year 1 to 5
Metals and nutrients[12]	X	X	X	X			
Metals[13]							X
Saturated paste EC/pH	X		X				
Total nitrogen		X		X			
Aroclor PCBs			X				
PCBs (LRMS)					X	X	
PCBs (HRMS)	X	X	X	X			
PCDD/PCDDF	X	X	X	X			

EC - Electrical conductivity

LRMS - Low resolution mass spectroscopy

HRMS - High resolution mass spectroscopy

PAH - Polycyclic aromatic hydrocarbons

PCDD - Polychlorinated dioxins

PCDF - Polychlorinated furans

PCBs - Polychlorinated biphenyls

[1] Includes aluminum, antimony, arsenic, barium, beryllium, boron, cadmium, chromium, cobalt, copper, iron, lead, lithium, manganese, mercury, molybdenum, nickel, selenium, silver, strontium, thallium, tin, titanium, uranium, vanadium, zinc, zirconium

[2]Nutrients analyzed includes calcium, magnesium, phosphorous, potassium, sodium, sulphur. Labrador tea samples were analyzed for nitrogen.

[3]Sulphur analyzed

TABLE A1.3

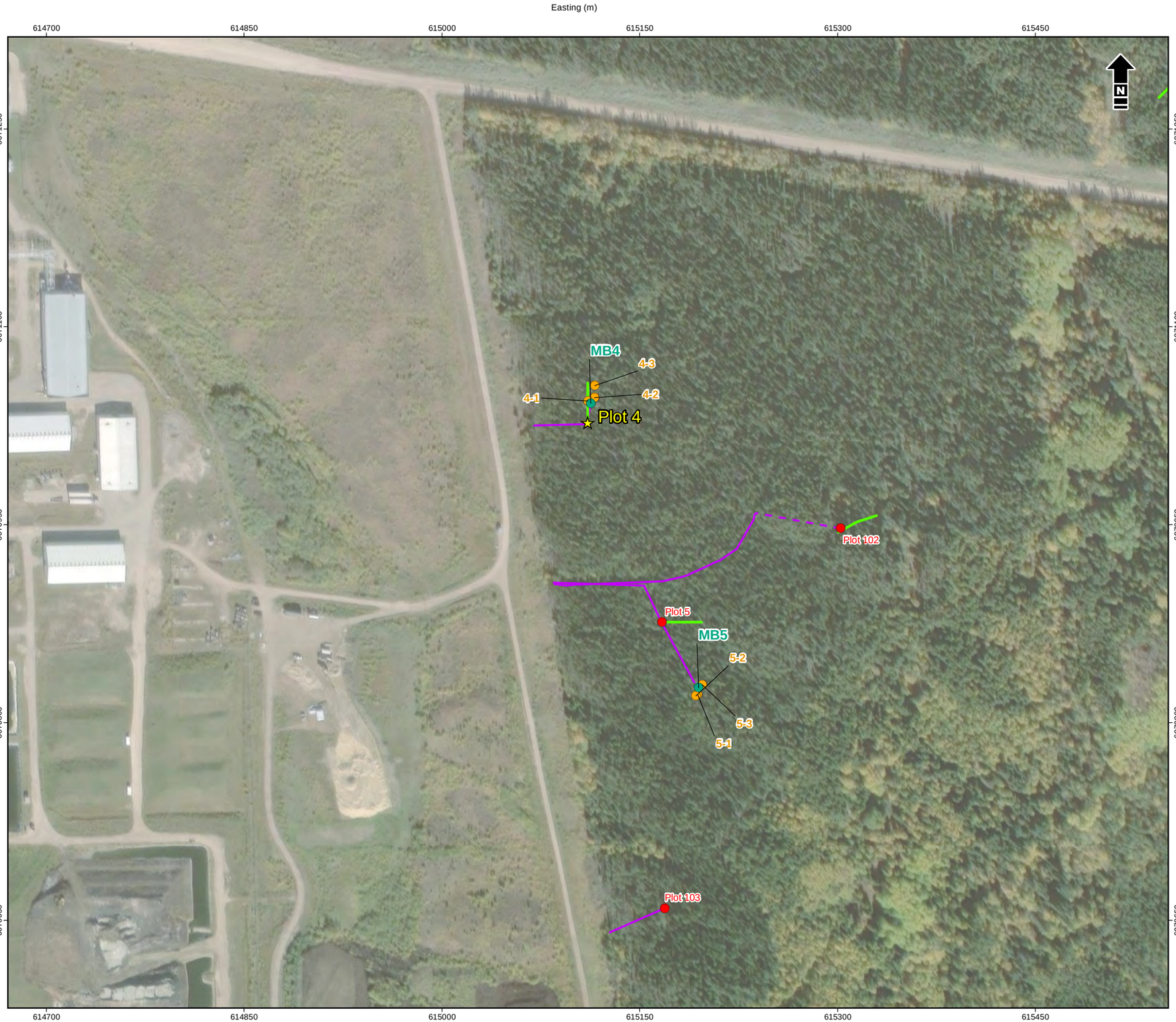
Acid Washed Moss Batch Results - Alberta Innovates

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	Al mg/kg	Sb mg/kg	As mg/kg	Ba mg/kg	Be mg/kg	Bi mg/kg	B mg/kg	Cd mg/kg	Ca mg/kg	Cs mg/kg	Cr mg/kg	Co mg/kg	Cu mg/kg	Fe mg/kg	Pb mg/kg	Li mg/kg	Mg mg/kg	Mn mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	P mg/kg	K mg/kg	Rb mg/kg	Se mg/kg	Ag mg/kg	Na mg/kg	Sr mg/kg	S mg/kg	Te mg/kg	Tl mg/kg	Sn mg/kg	Ti mg/kg	U mg/kg	V mg/kg	Zn mg/kg	Zr mg/kg
Moss 1	04-Jun-20	280	0.054	0.24	4.16	<0.010	0.012	<1.0	0.0166	56	0.0315	0.665	0.155	1.58	313	0.601	<0.50	67.7	12.4	0.0352	0.39	0.43	380	47	0.239	0.072	0.008	25	0.482	---	<0.020	0.0033	0.12	---	0.0386	0.6	4.58	0.68
Moss 2	04-Jun-20	271	0.051	0.242	3.68	<0.010	0.011	<1.0	0.0156	42	0.0308	0.638	0.178	1.43	322	0.556	<0.50	67.7	7.74	0.0348	0.599	0.41	375	32	0.271	0.072	0.0071	26	0.433	---	<0.020	0.0034	0.11	---	0.031	0.56	3.63	0.64
Moss 3	04-Jun-20	237	0.052	0.244	3.44	<0.010	<0.010	<1.0	0.0136	44	0.0307	0.64	0.113	1.43	300	0.55	<0.50	49.6	6.06	0.0337	0.371	0.44	370	33	0.225	0.075	0.0078	24	0.372	---	<0.020	0.0027	0.26	---	0.0312	0.51	5.35	0.5
15867211124001	24-Nov-21	243	0.039	0.292	3.25	<0.010	<0.010	<1.0	0.0088	33	0.0329	0.677	0.151	0.77	236	0.393	<0.50	58.1	5.47	0.0363	0.473	0.27	335	29	0.189	0.107	0.0065	<20	0.35	610	<0.020	0.0029	<0.10	7.35	0.035	0.56	2.27	0.47
15867211124002	24-Nov-21	244	0.035	0.277	3.7	<0.010	<0.010	<1.0	0.0153	35	0.0331	0.679	0.16	0.83	183	0.415	<0.50	66.7	6.08	0.0331	0.471	0.28	316	29	0.195	0.094	0.0067	<20	0.346	590	<0.020	0.0029	<0.10	7.35	0.037	0.56	2.45	0.48
15867211124003	24-Nov-21	236	0.042	0.264	3.01	<0.010	0.01	<1.0	0.0121	31	0.0309	0.786	0.164	0.72	168	0.949	<0.50	57.5	5.68	0.0341	0.47	0.26	303	27	0.183	0.089	0.0069	<20	0.332	580	<0.020	0.003	<0.10	7.11	0.0335	0.53	2.21	0.61

APPENDIX B
Plot Location Maps



Approximate Transect Orientation
Approximate Trail
Trail
Annual Monitoring Location
Expanded Program Monitoring Location

Vegetation Point

Moss Bag
Lichen

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign.

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1:3,000 metres
30 0 30 60
NAD 1983 UTM Zone 11N

MONTROSE ENVIRONMENTAL

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
MB4, MB5, Plot 4, Plot 5, Plot 102, Plot 103

Date:	Project:	Submitter:	Reviewer:
February 2026	15867	L. Oiffer	A. Dickson

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Figure 1a

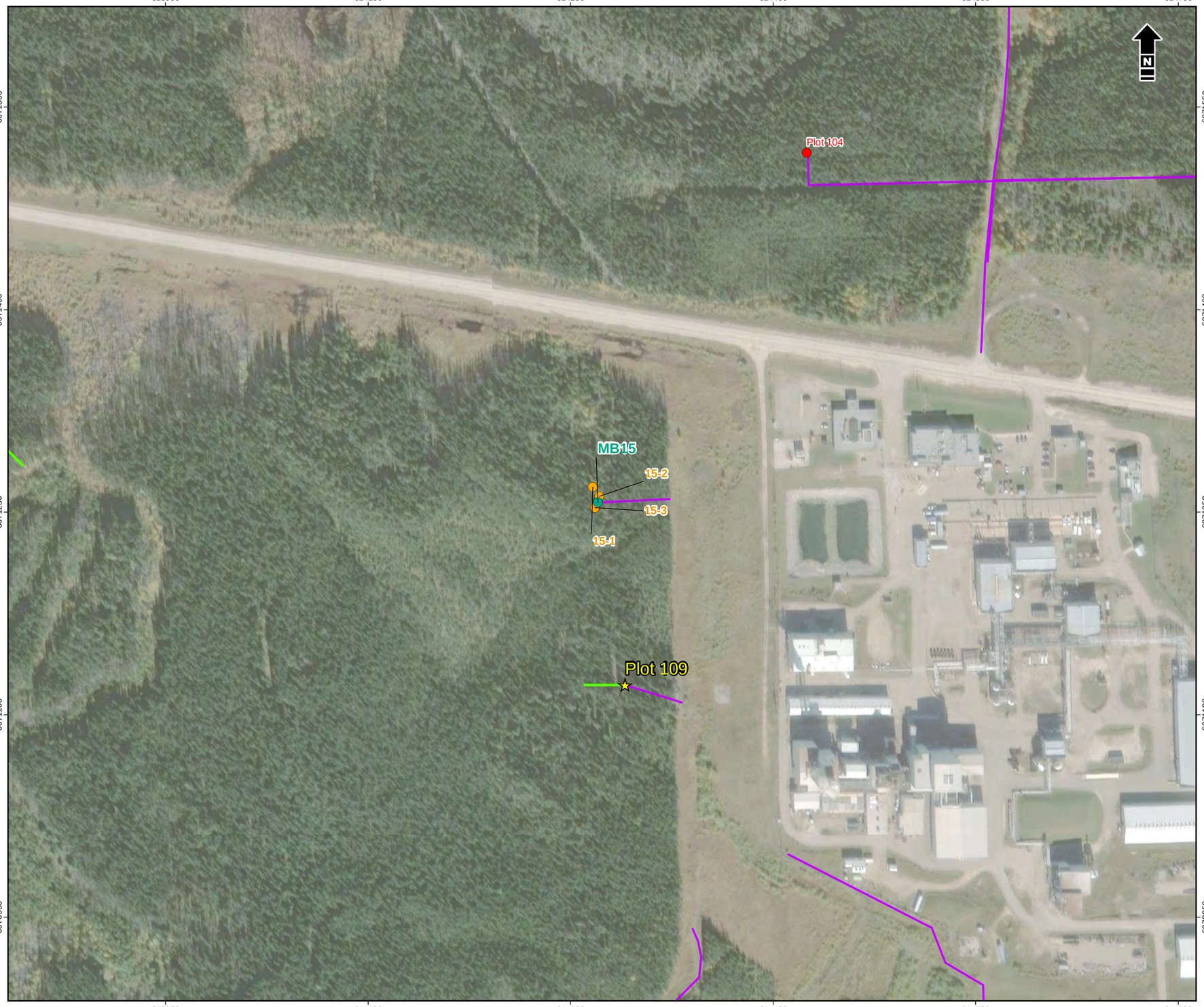
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Easting (m)

613950 614100 614250 614400 614550 614700

Northing (m)

6071550 6071400 6071250 6071100 6070950



Approximate Transect Orientation

Trail

Annual Monitoring Location

Expanded Program Monitoring Location

Vegetation Point

Moss Bag

Lichen

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign.

1:3,000 metres

30 0 30 60

NAD 1983 UTM Zone 11N

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SUEZ Canada Waste Services Inc.

Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

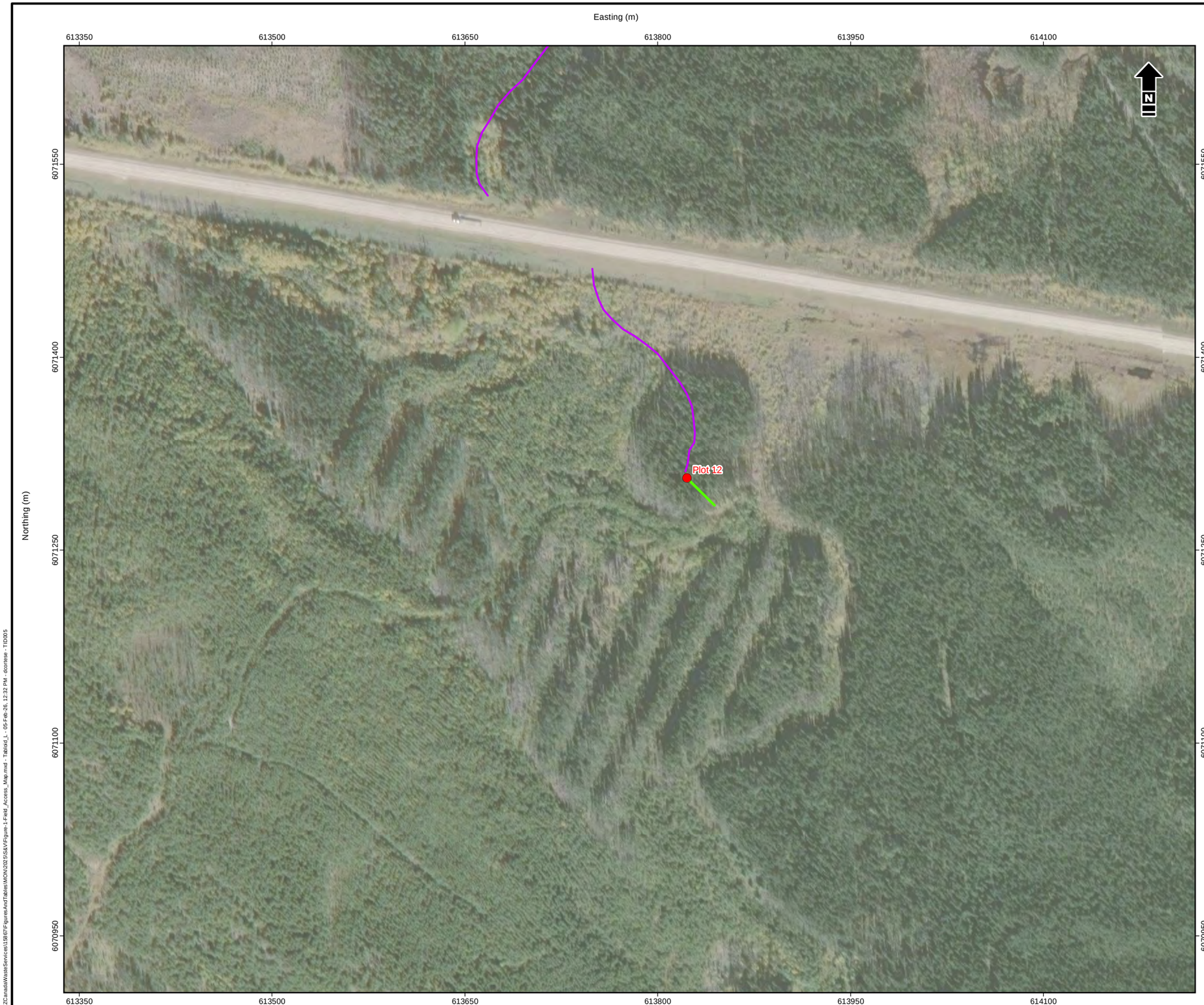
Field Access Map
MB15, Plot 104, Plot 109

Date:	Project:	Submitter:	Reviewer:
February 2026	15867	L. Oiffer	A. Dickson

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Figure 1b

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Approximate Transect Orientation
Trail
Expanded Program Monitoring Location

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign. Flagging near roadway is sometimes degraded.

1:3,000 metres
30 0 30 60
NAD 1983 UTM Zone 11N

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Field Access Map
Plot 12

Date:	Project:	Submitter:	Reviewer:
February 2026	15867	L. Oiffer	A. Dickson

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Figure 1c

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Easting (m)

614550 614700 614850 615000 615150 615300

Northing (m)

6072000 6071850 6071700 6071550 6071400



- Approximate Transect Orientation
- Trail
- Annual Monitoring Location
- Expanded Program Monitoring Location

Vegetation Point

- Moss Bag
- Lichen

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign.

1:3,000 metres

30 0 30 60

NAD 1983 UTM Zone 11N

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MONTROSE ENVIRONMENTAL

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
MB1, MB2, MB11, Plot 1, Plot 2, Plot 11

Date:	Project:	Submitter:	Reviewer:
February 2026	15867	L. Oiffer	A. Dickson

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Figure 1d

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Easting (m)

613950 614100 614250 614400 614550 614700

Northing (m)

6070950 6070800 6070650 6070500 6070350

Plot 110

Plot 80

N

Approximate Transect Orientation
Trail
Annual Monitoring Location
Expanded Program Monitoring Location

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign.

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1:3,000 metres
30 0 30 60
NAD 1983 UTM Zone 11N

MONTROSE ENVIRONMENTAL

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

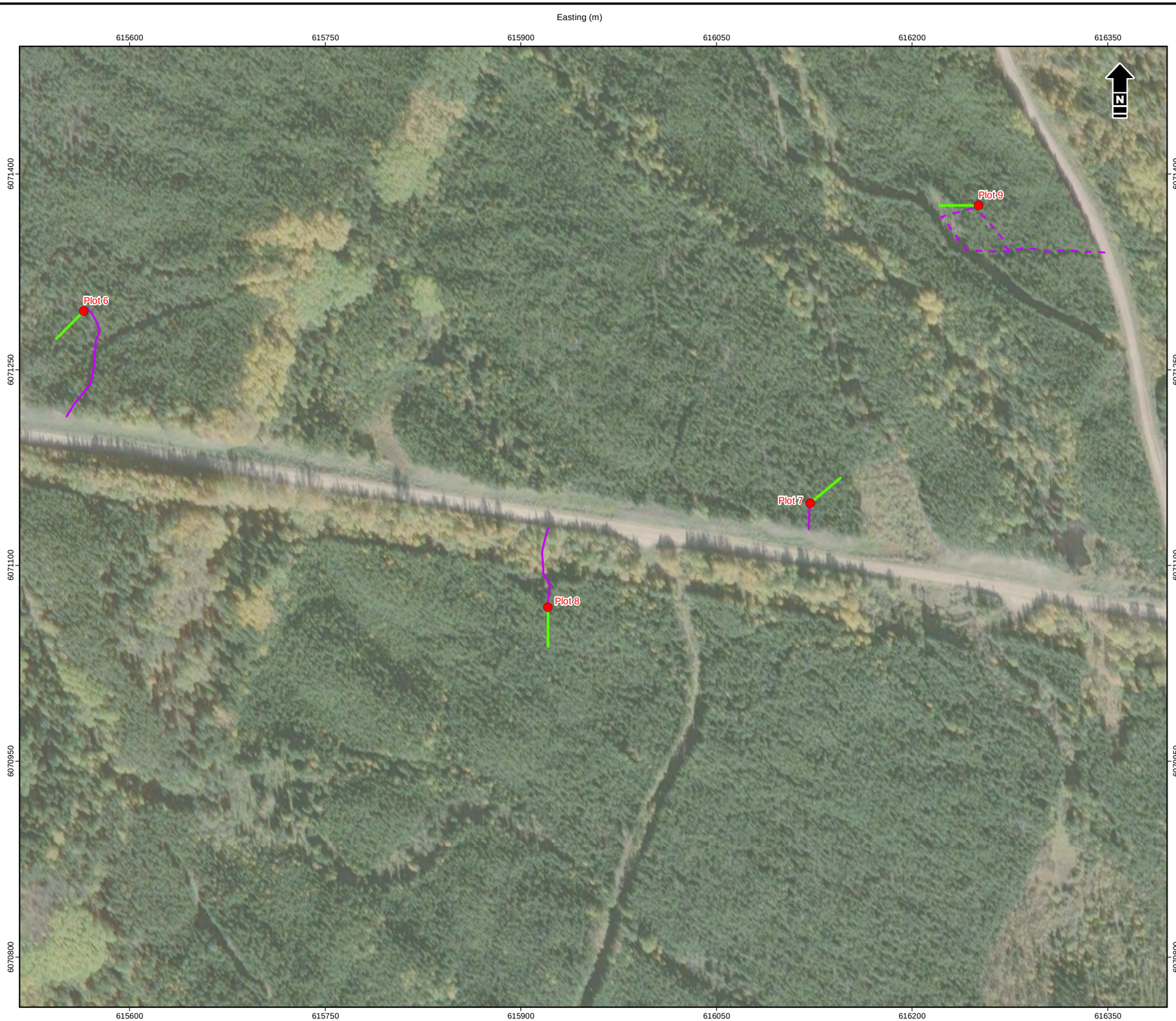
Field Access Map
Plot 80, Plot 110

Date:	Project:	Submitter:	Reviewer:
February 2026	15867	L. Oiffer	A. Dickson

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Figure 1e

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Approximate Transect Orientation
Approximate Trail
Trail
Expanded Program Monitoring Location

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign.

1:3,000 metres
30 0 30 60
NAD 1983 UTM Zone 11N

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MONTROSE ENVIRONMENTAL

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

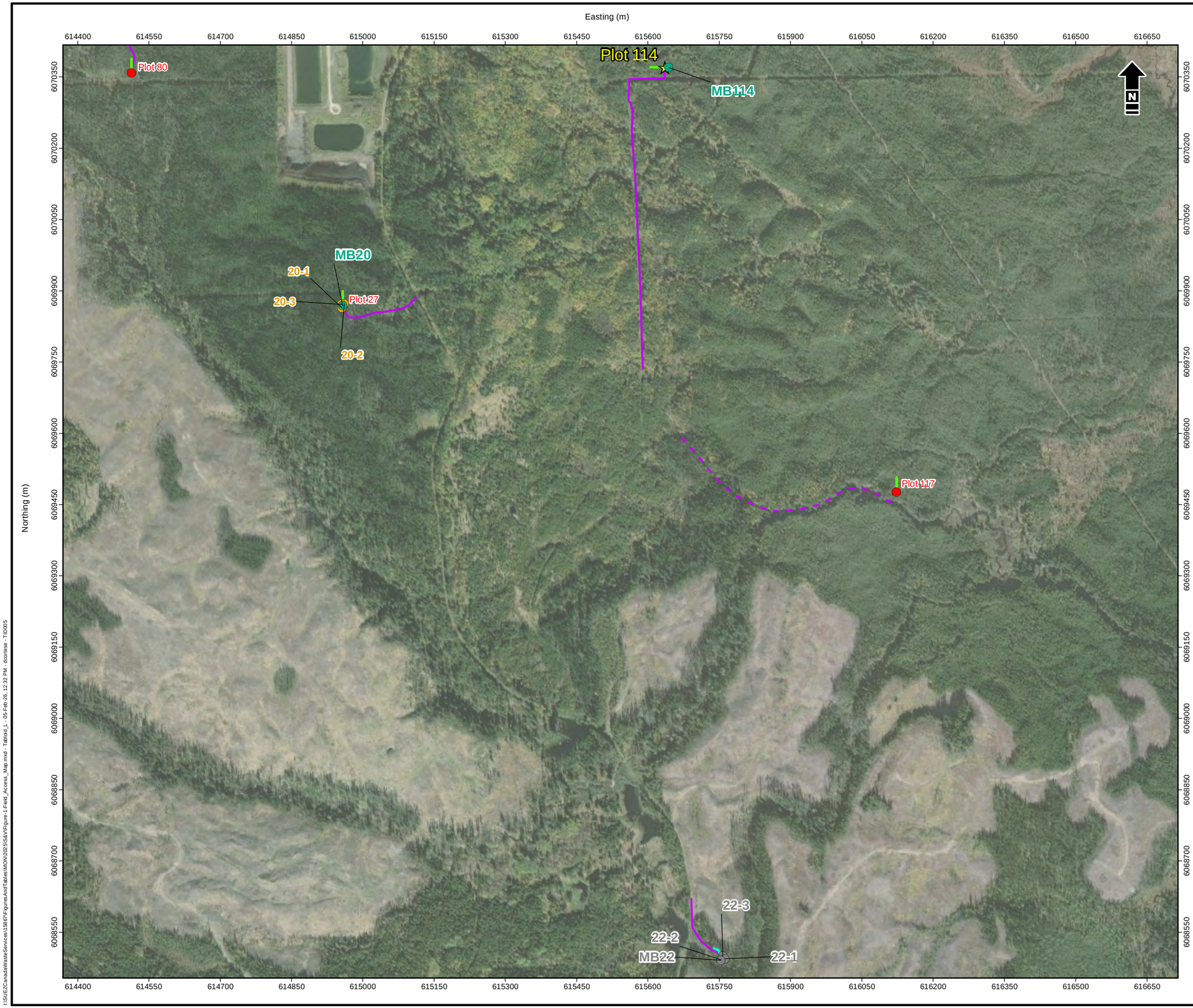
Field Access Map
Plot 6, Plot 7, Plot 8, Plot 9

Date:	Project:	Submitter:	Reviewer:
February 2026	15867	L. Oiffer	A. Dickson

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Figure 1f

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- Approximate Transect Orientation
- Approximate Trail
- Trail
- Approximate Transect Orientation (2023)
- Annual Monitoring Location
- Expanded Program Monitoring Location

Vegetation Point

- Moss Bag
- Lichen
- No Longer Monitored

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign.

1:8,000 metres
80 0 80 160
NAD 1983 UTM Zone 11N

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MONTROSE ENVIRONMENTAL

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
MB20, MB22, Plot 27, Plot 114, Plot 117

Date:	Project:	Submitter:	Reviewer:
February 2026	15867	L. Oiffer	A. Dickson

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Figure 1g

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Approximate Transect Orientation

Trail

Annual Monitoring Location

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign.

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1:7,000 metres

70 0 70 140

NAD 1983 UTM Zone 11N

MONTROSE ENVIRONMENTAL

SUEZ Canada Waste Services Inc.

Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
Plot 402

Date:	Project:	Submitter:	Reviewer:
February 2026	15867	L. Oiffer	A. Dickson

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Figure 1h

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Easting (m)

616950 617100 617250 617400 617550 617700

Northing (m)

6071100 6070950 6070800 6070650 6070500



Approximate Transect Orientation
Trail
Expanded Program Monitoring Location

Vegetation Point

Moss Bag
Lichen

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign.

1:3,000 metres

30 0 30 60

NAD 1983 UTM Zone 11N

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MONTROSE ENVIRONMENTAL

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
MB14, Plot 13, Plot 16

Date:	Project:	Submitter:	Reviewer:
February 2026	15867	L. Oiffer	A. Dickson

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Figure 1i

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Easting (m)

615750 615900 616050 616200 616350 616500 616650 616800 616950

Northing (m)

6072150 6072000 6071850 6071700 6071550 6071400 6071250

Plot 123

MB9

9-3

9-1

9-2

Plot 9

Plot 7

N

Approximate Transect Orientation
Approximate Trail
Trail
Annual Monitoring Location
Expanded Program Monitoring Location

Vegetation Point

Moss Bag
Lichen

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign.

1:4,500 metres
40 0 40 80
NAD 1983 UTM Zone 11N

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MONTROSE ENVIRONMENTAL

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
MB9, Plot 123

Date:	Project:	Submitter:	Reviewer:
February 2026	15867	L. Oiffer	A. Dickson

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Figure 1j

I:\SUEZCanadaWasteServices\15867\FiguresAndTables\MON\2025\SE\VF\Figure-1-Field_Access_Map.mxd - Talbot_L - 05-Feb-26, 12:32 PM - dcortese - TID005

Easting (m)

613200 613350 613500 613650 613800 613950 614100 614250 614400 614550 614700

Northing (m)

6072900 6072750 6072600 6072450 6072300 6072150 6072000 6071850 6071700 6071550

N

Plot 121

Plot 15

Plot 104

MB11

11-3

11-1

11-2

Approximate Transect Orientation

Trail

Expanded Program Monitoring Location

Vegetation Point

Moss Bag

Lichen

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign. Found 2 marked locations for Plot 121 in 2019 - there is a location situated further north of the actual plot that is marked with a metal tag but nothing else and is not considered to be the actual plot.

1:6,000 metres

60 0 60 120

NAD 1983 UTM Zone 11N

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MONTROSE ENVIRONMENTAL

SUEZ Canada Waste Services Inc.

Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
Plot 15, Plot 121

Date:	Project:	Submitter:	Reviewer:
February 2026	15867	L. Oiffer	A. Dickson

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Figure 1k

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Easting (m)

612450 612600 612750 612900 613050 613200

Northing (m)

6072000 6071850 6071700 6071550 6071400



Approximate Transect Orientation
Trail
Expanded Program Monitoring Location

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign.

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1:3,000 metres
30 0 30 60
NAD 1983 UTM Zone 11N

MONTROSE ENVIRONMENTAL

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
Plot 28

Date:	Project:	Submitter:	Reviewer:
February 2026	15867	L. Oiffer	A. Dickson

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Figure 1l

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Trail

Expanded Program Monitoring Location

Vegetation Point

Moss Bag

Lichen

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign.

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1:4,000 metres

40 0 40 80

NAD 1983 UTM Zone 11N

MONTROSE ENVIRONMENTAL

SUEZ Canada Waste Services Inc.

Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
MB19, Plot 26

Date:	Project:	Submitter:	Reviewer:
February 2026	15867	L. Oiffer	A. Dickson

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Figure 1m

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Easting (m)

611700 611850 612000 612150 612300 612450 612600 612750 612900

Northing (m)

6073650 6073500 6073350 6073200 6073050 6072900 6072750 6072600



Trail

Vegetation Point

- Moss Bag
- Lichen

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign.

1:4,500

40 0 40 80 metres

NAD 1983 UTM Zone 11N

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MONTROSE ENVIRONMENTAL

SUEZ Canada Waste Services Inc.

Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
MB26

Date:	Project:	Submitter:	Reviewer:
February 2026	15867	L. Oiffer	A. Dickson

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Figure 1n

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Easting (m)

611250 611400 611550 611700 611850 612000

Northing (m)

6075300 6075150 6075000 6074850



Trail

Expanded Program Monitoring Location

Vegetation Point

Moss Bag

Lichen

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign.

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1:3,000 metres

30 0 30 60

NAD 1983 UTM Zone 11N

MONTROSE ENVIRONMENTAL

SUEZ Canada Waste Services Inc.

Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

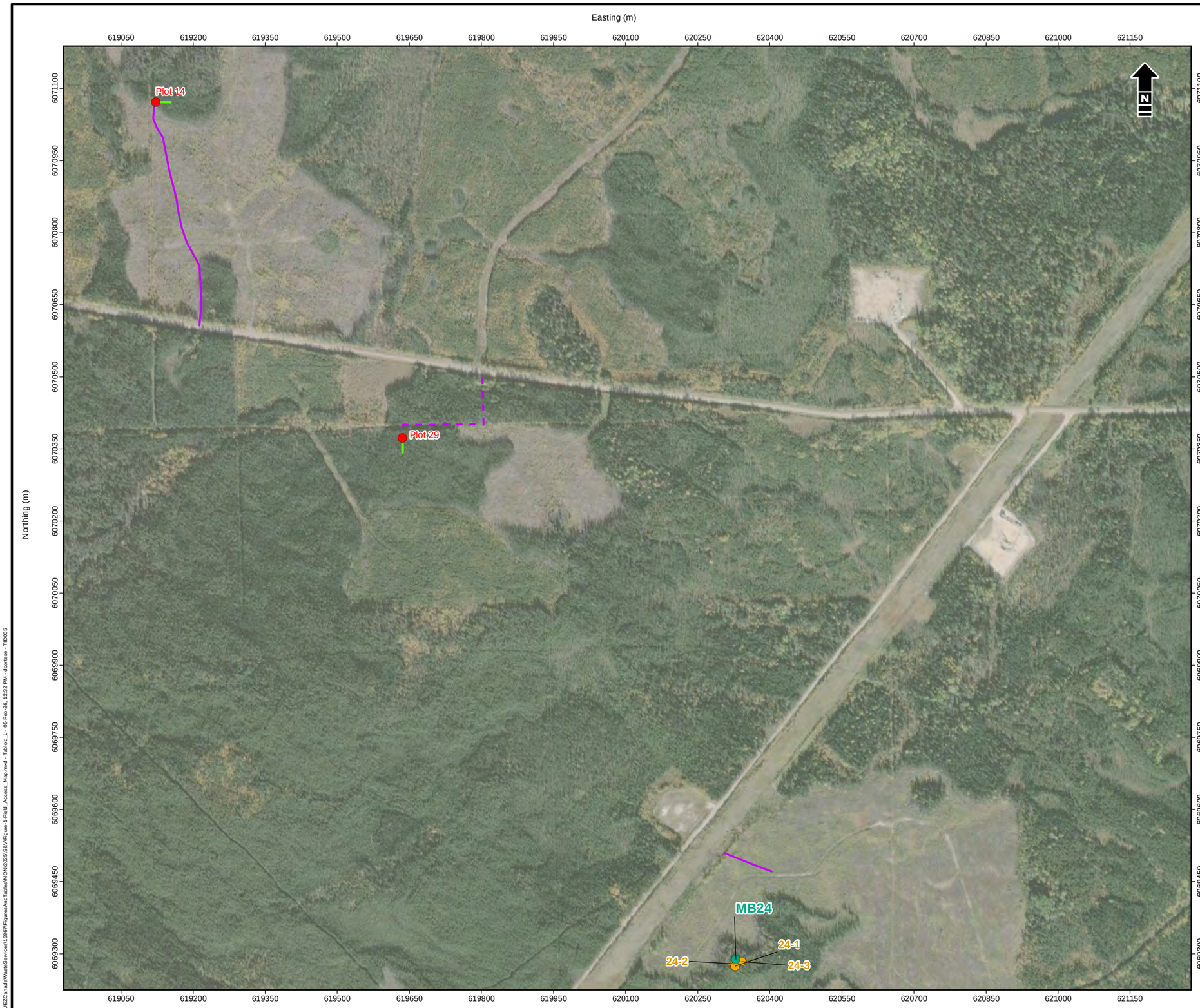
Field Access Map
MB50, Plot 81

Date:	Project:	Submitter:	Reviewer:
February 2026	15867	L. Oiffer	A. Dickson

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Figure 1o

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Approximate Transect Orientation
Approximate Trail
Trail
Expanded Program Monitoring Location

Vegetation Point

Moss Bag
Lichen

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign. Trail markings on the road leading to Plot 14 degrade quickly. Plot MB24 shifted in 2018 due to forestry activity.

1:8,000 metres
80 0 80 160
NAD 1983 UTM Zone 11N

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MONTROSE ENVIRONMENTAL

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
MB24, Plot 29, Plot 14

Date:	Project:	Submitter:	Reviewer:
February 2026	15867	L. Oiffer	A. Dickson

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Figure 1p

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Easting (m)

602700 602850 603000 603150 603300 603450

Northing (m)

6067650 6067500 6067350 6067200 6067050



Approximate Transect Orientation

Trail

Approximate Transect Orientation (2023)

Annual Monitoring Location

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign.

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1:3,000 metres

30 0 30 60

NAD 1983 UTM Zone 11N

MONTROSE ENVIRONMENTAL

SUEZ Canada Waste Services Inc.

Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
Plot 70

Date:	Project:	Submitter:	Reviewer:
February 2026	15867	L. Oiffer	A. Dickson

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Figure 1q

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Approximate Transect Orientation
Trail
Annual Monitoring Location

Vegetation Point

Moss Bag
Lichen

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign. Lichen site 71-1 has been knocked over.

1:3,000 metres
30 0 30 60
NAD 1983 UTM Zone 11N

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MONTROSE ENVIRONMENTAL

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
MB71, Plot 71

Date:	Project:	Submitter:	Reviewer:
February 2026	15867	L. Oiffer	A. Dickson

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Figure 1r

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APPENDIX C
Laboratory Reports

Element
#104, 19575-55 A Ave.
Surrey, British Columbia
V3S 8P8, Canada

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E: info.vancouver@element.com
W: www.element.com

Report Transmission Cover Page

Bill To: Montrose Environmental
Suite 200, 5083 Windermere
Edmonton, AB, Canada
T6W 0J5
Attn: Lindsay Oiffer
Sampled By: L. OIFFER / L. ZARAWNY
Company: Montrose Environmental

Project ID: 15867-503
Project Name: Swan Hills Treatment Centre
Project Location:
LSD: Swan Hills Treatment Centre
P.O.: PO-086286
Proj. Acct. code:

Lot ID: **1822394**
Control Number:
Date Received: Jun 18, 2025
Date Reported: Jun 24, 2025
Report Number: 3149662
Report Type: Final Report

Contact	Company	Address
EDS	**Montrose Environmental**	Suite 600 214-11th Ave SW Calgary, AB T2R 0K1 Phone: (403) 700-2058 Fax: Email: data_management@montrose-env.ca

Delivery	Format	Deliverables
Email	PDF	COC / Test Report
Email	Standard Crosstab With Tabs	Test Report
Email - Merge	PDF	COA / COC
Email - Zip	Equis Montrose Batch File (with QC)	Test Report
Email - Zip	Equis Montrose Sample File (with QC)	Test Report
Email - Zip	Equis Montrose Test Result File (with QC)	Test Report

Contact	Company	Address
Lindsay Oiffer	**Montrose Environmental**	Suite 200, 5083 Windermere Blvd, SW Edmonton, AB T6W 0J5 Phone: (780) 232-0754 Fax: (403) 263-2493 Email: loiffer@montrose-env.ca

Delivery	Format	Deliverables
Email	PDF	COC / Test Report
Email	Standard Crosstab With Tabs	Test Report
Email - Merge	PDF	COA / COC

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Surrey, British Columbia
V3S 8P8, Canada

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W: www.element.com

Analytical Report

Bill To: Montrose Environmental
Suite 200, 5083 Windermere
Edmonton, AB, Canada
T6W 0J5
Attn: Lindsay Oiffer
Sampled By: L. OIFFER / L. ZARAWNY
Company: Montrose Environmental

Project ID: 15867-503
Project Name: Swan Hills Treatment Centre
Project Location:
LSD: Swan Hills Treatment Centre
P.O.: PO-086286
Proj. Acct. code:

Lot ID: **1822394**
Control Number:
Date Received: Jun 18, 2025
Date Reported: Jun 24, 2025
Report Number: 3149662
Report Type: Final Report

Reference Number	1822394-1	1822394-2	1822394-3
Sample Date	Jun 16, 2025	Jun 16, 2025	Jun 16, 2025
Sample Time	NA	NA	NA
Sample Location			
Sample Description	PLOT123 / 15867250616101	PLOT402 / 15867250616102	PLOT402 / 15867250616103
Matrix	Tissue	Tissue	Tissue

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Food Chemistry						
Total Nitrogen	Plant Tissue	%	1.54	1.53	1.58	0.01

Element
#104, 19575-55 A Ave.
Surrey, British Columbia
V3S 8P8, Canada

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W: www.element.com

Analytical Report

Bill To: Montrose Environmental
Suite 200, 5083 Windermere
Edmonton, AB, Canada
T6W 0J5
Attn: Lindsay Oiffer
Sampled By: L. OIFFER / L. ZARAWNY
Company: Montrose Environmental

Project ID: 15867-503
Project Name: Swan Hills Treatment Centre
Project Location:
LSD: Swan Hills Treatment Centre
P.O.: PO-086286
Proj. Acct. code:

Lot ID: **1822394**
Control Number:
Date Received: Jun 18, 2025
Date Reported: Jun 24, 2025
Report Number: 3149662
Report Type: Final Report

		Reference Number	1822394-4	1822394-5	1822394-6	
		Sample Date	Jun 16, 2025	Jun 17, 2025	Jun 17, 2025	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	PLOT70 / 15867250616104	PLOT114 / 15867250617105	PLOT4 / 15867250617106	
		Matrix	Tissue	Tissue	Tissue	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Food Chemistry						
Total Nitrogen	Plant Tissue	%	1.63	1.70	1.50	0.01

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Surrey, British Columbia
V3S 8P8, Canada

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E: info.vancouver@element.com
W: www.element.com

Analytical Report

Bill To: Montrose Environmental
Suite 200, 5083 Windermere
Edmonton, AB, Canada
T6W 0J5
Attn: Lindsay Oiffer
Sampled By: L. OIFFER / L. ZARAWNY
Company: Montrose Environmental

Project ID: 15867-503
Project Name: Swan Hills Treatment Centre
Project Location:
LSD: Swan Hills Treatment Centre
P.O.: PO-086286
Proj. Acct. code:

Lot ID: **1822394**
Control Number:
Date Received: Jun 18, 2025
Date Reported: Jun 24, 2025
Report Number: 3149662
Report Type: Final Report

		Reference Number	1822394-7	1822394-8	1822394-9	
		Sample Date	Jun 17, 2025	Jun 17, 2025	Jun 17, 2025	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	PLOT109 / 15867250617107	15867250617108	PLOT110 / 15867250617109	
		Matrix	Tissue	Tissue	Tissue	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Food Chemistry						
Total Nitrogen	Plant Tissue	%	1.37	1.38	1.60	0.01

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Analytical Report

Bill To: Montrose Environmental
Suite 200, 5083 Windermere
Edmonton, AB, Canada
T6W 0J5
Attn: Lindsay Oiffer
Sampled By: L. OIFFER / L. ZARAWNY
Company: Montrose Environmental

Project ID: 15867-503
Project Name: Swan Hills Treatment Centre
Project Location:
LSD: Swan Hills Treatment Centre
P.O.: PO-086286
Proj. Acct. code:

Lot ID: **1822394**
Control Number:
Date Received: Jun 18, 2025
Date Reported: Jun 24, 2025
Report Number: 3149662
Report Type: Final Report

Reference Number			1822394-10	1822394-11		
Sample Date			Jun 18, 2025	Jun 18, 2025		
Sample Time			NA	NA		
Sample Location						
Sample Description			PLOT11 / 15867250618110	PLOT71 / 15867250618111		
Matrix			Tissue	Tissue		
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Food Chemistry						
Total Nitrogen	Plant Tissue	%	1.58	1.26		0.01

Approved by:



Carol Nam, Dipl. T.
Quality Assurance Coordinator

Data have been validated by Analytical Quality Control and Element's Integrated Data Validation System (IDVS).
Generation and distribution of the report, and approval by the digitized signature above, are performed through a secure and controlled automatic process.

Terms and Conditions: https://www.element.com/terms/terms-and-conditions

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Quality Control

Bill To: Montrose Environmental
Suite 200, 5083 Windermere
Edmonton, AB, Canada
T6W 0J5
Attn: Lindsay Oiffer
Sampled By: L. OIFFER / L. ZARAWNY
Company: Montrose Environmental

Project ID: 15867-503
Project Name: Swan Hills Treatment Centre
Swan Hills Treatment Centre
P.O.: PO-086286
Proj. Acct. code:

Lot ID: **1822394**
Control Number:
Date Received: Jun 18, 2025
Date Reported: Jun 24, 2025
Report Number: 3149662
Report Type: Final Report

Sample Type	Sample ID	Analysis Date	Analyte	Units	Result	RDL	SPK Value	Ref Value	%REC	RPD	Limits	Passed
Food Chemistry												
Batch: 2594992 - Total Carbon, Nitrogen in Tissue (VAN)												
Blank	6858465	Jun 23, 2025	Total Nitrogen	%	<0.01	0.01	0.0				0.03	yes
Control Sample	6858466	Jun 23, 2025	Total Nitrogen	%	2.60						2.466 - 2.748	yes
Replicate	6858468	Jun 23, 2025	Total Nitrogen	%	1.60			1.54		3.72	0 % or 2.5 Abs	yes
Certified Reference	6858467	Jun 23, 2025	Total Nitrogen	%	3.24		3.485				3.158 - 3.812	yes

SPK Value = Spike Value
Ref Value = Reference Value
%REC = Percent Recovery
RPD = Relative Percent Difference
Abs = Absolute Difference

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Methodology and Notes

Bill To:	Montrose Environmental Suite 200, 5083 Windermere Edmonton, AB, Canada T6W 0J5	Project ID:	15867-503	Lot ID:	**1822394**
Attn:	Lindsay Oiffer	Project Name:	Swan Hills Treatment Centre	Control Number:	
Sampled By:	L. OIFFER / L. ZARAWNY	Project Location:		Date Received:	Jun 18, 2025
Company:	Montrose Environmental	LSD:	Swan Hills Treatment Centre	Date Reported:	Jun 24, 2025
		P.O.:	PO-086286	Report Number:	3149662
		Proj. Acct. code:		Report Type:	Final Report

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Total Carbon, Nitrogen in Tissue (VAN)	AOAC	*	Protein (Crude) in Animal Feed, Combustion Method, 990.03	Jun 23, 2025	Element Vancouver

** Reference Method Modified*

References

AOAC	Official Methods of Analysis-AOAC

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted.
The test report shall not be reproduced except in full, without the written approval of the laboratory.

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

COC # 119880

Page: 1 of 1

Lab Submitted to : ALS
Lab Agreement no :
Lab Job ID:

Invoice to: Require Report: Y ✓ N

Company Name: Montrose environmental
Contact Name: Lindsay Offer
Address:
PC:
Phone / Fax#: Ph: Fax:

Copy of Report to:
Matrix Solutions - EDS
Suite 600, 214 - 11th Avenue SW
Calgary, Alberta, Canada
T2R 0K1
Ph: 403-237-0606 Fax: 403-263-2493
email invoices to ap@matrix-solutions.com

Matrix Project # : 15867-503
Matrix Proj. Name: SWAN Hills Treatment Centre
Location: SWAN Hills Tratment Centre
Sampler's Name(s): L. Offer / L. ZARowny

AFE #:

REGULATORY REQUIREMENTS: (check)
- [ ] Alberta Tier 1 [ ] BC CSR
- [ ] Alberta SW FAL
- [ ] Canadian Drinking Water
- [ ] CCME FAL
- [ ] SPIGEC
- [ ] SEQG Other: QUOTE 41580

SERVICE REQUESTED:
- [ ] RUSH (Please ensure you contact the lab) Due Date:
- [x] REGULAR Turnaround

REPORT DISTRIBUTION: always send to eds@matrix-solutions.com
- [x] Additional Emails loffer@montrose-env.ca

	Sample Number (14 digits only) yr-mth-day	Sample Point Name	Depth (m)	Sample Type	Date/Time Sampled	Quanity # of Containers J/V	Bags	Bottles	Analysis Required: TOTAL NITROGEN	HOLD
1	15867250616101	plot 123	~	LABTEA	June 16/25		1		X	
2	102	plot 402	~	LABTEA			1		X	
3	103	plot 402	~				1		X	
4	104	plot 70	~				1		X	
5	15867250617105	plot 114	~		June 17/25		1		X	
6	106	plot 4	~				1		X	
7	107	plot 109	~				1		X	
8	108	~	~				1		X	
9	109	plot 110	~				1		X	
10	15867250618110	plot 11	~		June 18/25		1		X	
11	111	plot 71	~				1		X	
12										
13										
14										
15										

JUN 18 PM 1:59

*For metals in water samples indicate if you want Total (T) or Dissolved (D) as part of "Analysis Required" Preserved/Filtered

Relinquished by: Lindsay Offer Date/Time: June 18/25 1pm Received by:
Signature: Signature:
COMMENTS/SPECIAL INSTRUCTIONS QUOTE 41580

J = jars V = vials

Lot: 1822394 COC
Montrose Environmental

PJ Hand 23.6

CERTIFICATE OF ANALYSIS

Work Order	: **EO2505051**	Page	: 1 of 73
Amendment	: **2**		
Client	: **Montrose Environmental Solutions Canada Inc.**	Laboratory	: ALS Environmental - Edmonton
Contact	: Lindsay Oiffer	Account Manager	: Kieran Tordoff
Address	: 13804 164 St NW Edmonton AB Canada T5V 0C8	Address	: 9450 - 17 Avenue NW Edmonton AB Canada T6N 1M9
Telephone	: 780 989 8347	Telephone	: +1 780 413 5227
Project	: 15867-503	Date Samples Received	: 18-Jun-2025 14:45
PO	: PO-086285	Date Analysis Commenced	: 20-Jun-2025
C-O-C number	: 119878,119881,119879,119882	Issue Date	: 15-Oct-2025 12:38
Sampler	: LO/LZ		
Site	: Swan Hills Treatment Centre		
Quote number	: EO24-MSOI100-004 (Swan Hills Treatment Centre)		
No. of samples received	: 71		
No. of samples analysed	: 71		

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
- Surrogate Control Limits

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

Signatories

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

Signatories	*Position*	*Laboratory Department*
Christian Murera	Lab Analyst	Organics, Edmonton, Alberta
Dan Gebert	Supervisor - Metals Mercury & Speciation	Metals, Burnaby, British Columbia
Geoff Berg	Lab Analyst	Organics, Edmonton, Alberta
Janice Leung	Supervisor - Organics Instrumentation	Organics, Burnaby, British Columbia
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Metals, Burnaby, British Columbia
Kieran Tordoff	Account Manager	Administration, Edmonton, Alberta
Miles Gropen	Department Manager - Inorganics	Inorganics, Burnaby, British Columbia
Robert Nguyen	Analyst	Metals, Burnaby, British Columbia
Sabrina Jin	Analyst	Organics, Burlington, Ontario
Salimah Khimani	Lab Assistant	Metals, Burnaby, British Columbia
Shahrzad Firoozbakht	Lab Assistant	Metals, Burnaby, British Columbia
Yan Zhang	Team Leader - Organics	Organics, Edmonton, Alberta

General Comments

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

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

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

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

Unit	*Description*
-	no units
%	percent
dS/m	decisiemens per metre
mg/kg	milligrams per kilogram
pH units	pH units

>: greater than.
<: less than.

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

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

Qualifiers

Qualifier	*Description*
DLM	*Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).*

Analytical Results

EO2505051-001

Sub-Matrix: **Biota**
(Matrix: **Biota)**

Client sample ID: 15867250616001
Client sampling date / time: [16-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	80.6	± 2.79	0.50	%	E144/VA	-	07-Jul-2025	2092937
Metals									
Aluminum	7429-90-5	576	± 233	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Antimony	7440-36-0	0.032	± 0.006	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Arsenic	7440-38-2	0.154	± 0.029	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Barium	7440-39-3	17.9	± 6.89	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Beryllium	7440-41-7	0.017	± 0.004	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Boron	7440-42-8	3.3	± 0.7	1.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Cadmium	7440-43-9	0.115	± 0.0222	0.0050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Calcium	7440-70-2	4900	± 2420	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Chromium	7440-47-3	0.434	± 0.112	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Cobalt	7440-48-4	0.242	± 0.052	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Copper	7440-50-8	3.85	± 0.60	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Iron	7439-89-6	373	± 94.2	3.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Lead	7439-92-1	0.571	± 0.218	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Magnesium	7439-95-4	792	± 142	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Manganese	7439-96-5	981	± 287	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Mercury	7439-97-6	0.0850	± 0.0119	0.0050	mg/kg	E510/VA	15-Jul-2025	22-Jul-2025	2105043
Molybdenum	7439-98-7	0.069	± 0.012	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Nickel	7440-02-0	1.33	± 0.26	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Phosphorus	7723-14-0	1340	± 292	10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Potassium	7440-09-7	4020	± 490	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Selenium	7782-49-2	0.079	± 0.018	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Silver	7440-22-4	0.0528	± 0.0108	0.0050	mg/kg	E440.Ag/VA	15-Jul-2025	15-Jul-2025	2105046
Sodium	7440-23-5	34	± 5	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Strontium	7440-24-6	5.19	± 2.43	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Sulfur	7704-34-9	890	± 160	100	mg/kg	E440.S/VA	15-Jul-2025	15-Jul-2025	2105045
Thallium	7440-28-0	0.0265	± 0.0033	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Tin	7440-31-5	0.28	± 0.05	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Titanium	7440-32-6	10.7	-	0.25	mg/kg	E440.Ti/VA	15-Jul-2025	15-Jul-2025	2105044
Uranium	7440-61-1	0.0198	± 0.0071	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Vanadium	7440-62-2	0.75	± 0.16	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Zinc	7440-66-6	49.6	± 8.26	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Zirconium	7440-67-7	0.31	± 0.11	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042

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

Analytical Results

EO2505051-002

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

Client sample ID: 15867250616001
Client sampling date / time: [16-Jun-2025]

Analyte	*CAS Number*	*Result*	*Measurement Uncertainty*	*LOR*	*Unit*	*Method/Lab*	*Prep Date*	*Analysis Date*	*QCLot*
Physical Tests									
pH, saturated paste	----	5.06	-	0.10	pH units	E114/VA	03-Jul-2025	03-Jul-2025	2077473
% Saturation	----	1300	± 189	1.0	%	E141/VA	03-Jul-2025	03-Jul-2025	2077474
Saturated Paste Extractables									
Conductivity, saturated paste	----	0.114	± 0.02	0.020	dS/m	E102/VA	03-Jul-2025	07-Jul-2025	2077472

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

Analytical Results

EO2505051-003

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250616101
Client sampling date / time: [16-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	39.6	± 1.44	0.50	%	E144/VA	-	07-Jul-2025	2092937
Metals									
Aluminum	7429-90-5	72.3	± 29.4	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Antimony	7440-36-0	<0.010	-	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Arsenic	7440-38-2	0.021	± 0.012	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Barium	7440-39-3	116	± 44.8	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Boron	7440-42-8	22.7	± 3.9	1.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Cadmium	7440-43-9	0.0071	± 0.0014	0.0050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Calcium	7440-70-2	7430	± 3670	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Chromium	7440-47-3	0.066	± 0.021	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Cobalt	7440-48-4	0.044	± 0.010	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Copper	7440-50-8	3.36	± 0.52	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Iron	7439-89-6	68.8	± 17.5	3.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Lead	7439-92-1	0.051	± 0.020	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Magnesium	7439-95-4	1440	± 257	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Manganese	7439-96-5	1450	± 424	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Mercury	7439-97-6	0.0177	± 0.0026	0.0050	mg/kg	E510/VA	15-Jul-2025	22-Jul-2025	2105043
Molybdenum	7439-98-7	<0.020	-	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Nickel	7440-02-0	0.98	± 0.20	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Phosphorus	7723-14-0	1350	± 293	10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Potassium	7440-09-7	3880	± 473	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Selenium	7782-49-2	<0.050	-	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Silver	7440-22-4	<0.0050	-	0.0050	mg/kg	E440.Ag/VA	15-Jul-2025	15-Jul-2025	2105046
Sodium	7440-23-5	<20	-	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Strontium	7440-24-6	6.94	± 3.25	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Sulfur	7704-34-9	1220	± 210	100	mg/kg	E440.S/VA	15-Jul-2025	15-Jul-2025	2105045
Thallium	7440-28-0	<0.0020	-	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Tin	7440-31-5	<0.10	-	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Titanium	7440-32-6	1.52	-	0.25	mg/kg	E440.Ti/VA	15-Jul-2025	15-Jul-2025	2105044
Uranium	7440-61-1	<0.0020	-	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Vanadium	7440-62-2	<0.10	-	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Zinc	7440-66-6	23.5	± 3.94	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Zirconium	7440-67-7	0.28	± 0.10	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042

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

Analytical Results

EO2505051-004

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250616002
Client sampling date / time: [16-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	72.6	± 2.52	0.50	%	E144/VA	-	07-Jul-2025	2092937
Metals									
Aluminum	7429-90-5	3260	± 1320	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Antimony	7440-36-0	0.025	± 0.005	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Arsenic	7440-38-2	0.726	± 0.120	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Barium	7440-39-3	86.9	± 33.5	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Beryllium	7440-41-7	0.089	± 0.019	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Boron	7440-42-8	7.9	± 1.4	1.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Cadmium	7440-43-9	0.298	± 0.0574	0.0050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Calcium	7440-70-2	10300	± 5070	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Chromium	7440-47-3	2.85	± 0.721	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Cobalt	7440-48-4	1.28	± 0.278	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Copper	7440-50-8	5.31	± 0.83	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Iron	7439-89-6	2210	± 559	3.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Lead	7439-92-1	1.79	± 0.680	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Lithium	7439-93-2	1.85	± 0.56	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Magnesium	7439-95-4	1200	± 215	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Manganese	7439-96-5	976	± 286	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Mercury	7439-97-6	0.0880	± 0.0123	0.0050	mg/kg	E510/VA	15-Jul-2025	22-Jul-2025	2105043
Molybdenum	7439-98-7	0.163	± 0.027	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Nickel	7440-02-0	3.11	± 0.62	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Phosphorus	7723-14-0	1280	± 278	10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Potassium	7440-09-7	3020	± 368	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Selenium	7782-49-2	0.145	± 0.025	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Silver	7440-22-4	0.0376	± 0.0077	0.0050	mg/kg	E440.Ag/VA	15-Jul-2025	15-Jul-2025	2105046
Sodium	7440-23-5	33	± 5	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Strontium	7440-24-6	26.1	± 12.2	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Sulfur	7704-34-9	920	± 170	100	mg/kg	E440.S/VA	15-Jul-2025	15-Jul-2025	2105045
Thallium	7440-28-0	0.0503	± 0.0059	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Tin	7440-31-5	0.14	± 0.02	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Titanium	7440-32-6	40.8	-	0.25	mg/kg	E440.Ti/VA	15-Jul-2025	15-Jul-2025	2105044
Uranium	7440-61-1	0.631	± 0.225	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Vanadium	7440-62-2	5.16	± 1.13	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Zinc	7440-66-6	67.0	± 11.1	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Zirconium	7440-67-7	1.36	± 0.48	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042

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

Analytical Results

EO2505051-005

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

Client sample ID: 15867250616002
Client sampling date / time: [16-Jun-2025]

Analyte	*CAS Number*	*Result*	*Measurement Uncertainty*	*LOR*	*Unit*	*Method/Lab*	*Prep Date*	*Analysis Date*	*QCLot*
Physical Tests									
pH, saturated paste	----	4.72	-	0.10	pH units	E114/VA	03-Jul-2025	03-Jul-2025	2077473
% Saturation	----	862	± 126	1.0	%	E141/VA	03-Jul-2025	06-Aug-2025	2077474
Saturated Paste Extractables									
Conductivity, saturated paste	----	0.161	± 0.03	0.020	dS/m	E102/VA	03-Jul-2025	06-Aug-2025	2077472

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

Analytical Results

EO2505051-006

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250616003
Client sampling date / time: [16-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	59.9	± 2.10	0.50	%	E144/VA	-	07-Jul-2025	2092937
Metals									
Aluminum	7429-90-5	1440	± 582	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Antimony	7440-36-0	0.054	± 0.009	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Arsenic	7440-38-2	0.689	± 0.114	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Barium	7440-39-3	66.5	± 25.6	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Beryllium	7440-41-7	0.060	± 0.013	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Boron	7440-42-8	7.2	± 1.3	1.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Cadmium	7440-43-9	2.04	± 0.392	0.0050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Calcium	7440-70-2	8440	± 4170	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Chromium	7440-47-3	1.66	± 0.421	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Cobalt	7440-48-4	0.857	± 0.185	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Copper	7440-50-8	5.84	± 0.91	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Iron	7439-89-6	1290	± 326	3.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Lead	7439-92-1	1.63	± 0.619	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Lithium	7439-93-2	0.69	± 0.21	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Magnesium	7439-95-4	850	± 152	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Manganese	7439-96-5	801	± 235	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Mercury	7439-97-6	0.200	± 0.0278	0.0050	mg/kg	E510/VA	15-Jul-2025	22-Jul-2025	2105043
Molybdenum	7439-98-7	0.145	± 0.024	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Nickel	7440-02-0	2.63	± 0.52	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Phosphorus	7723-14-0	1260	± 274	10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Potassium	7440-09-7	2500	± 306	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Selenium	7782-49-2	0.372	± 0.054	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Silver	7440-22-4	0.0500	± 0.0102	0.0050	mg/kg	E440.Ag/VA	15-Jul-2025	15-Jul-2025	2105046
Sodium	7440-23-5	24	± 4	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Strontium	7440-24-6	19.6	± 9.19	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Sulfur	7704-34-9	1210	± 210	100	mg/kg	E440.S/VA	15-Jul-2025	15-Jul-2025	2105045
Thallium	7440-28-0	0.0548	± 0.0064	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Tin	7440-31-5	<0.10	-	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Titanium	7440-32-6	31.2	-	0.25	mg/kg	E440.Ti/VA	15-Jul-2025	15-Jul-2025	2105044
Uranium	7440-61-1	0.232	± 0.0829	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Vanadium	7440-62-2	2.99	± 0.65	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Zinc	7440-66-6	66.0	± 11.0	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Zirconium	7440-67-7	1.18	± 0.42	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042

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

Analytical Results

EO2505051-007

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

Client sample ID: 15867250616003
Client sampling date / time: [16-Jun-2025]

Analyte	*CAS Number*	*Result*	*Measurement Uncertainty*	*LOR*	*Unit*	*Method/Lab*	*Prep Date*	*Analysis Date*	*QCLot*
Physical Tests									
pH, saturated paste	----	4.93	-	0.10	pH units	E114/VA	03-Jul-2025	03-Jul-2025	2077473
% Saturation	----	924	± 135	1.0	%	E141/VA	03-Jul-2025	03-Jul-2025	2077474
Saturated Paste Extractables									
Conductivity, saturated paste	----	0.120	± 0.02	0.020	dS/m	E102/VA	03-Jul-2025	07-Jul-2025	2077472

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

Analytical Results

EO2505051-008

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250616102
Client sampling date / time: [16-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	33.6	± 1.24	0.50	%	E144/VA	-	07-Jul-2025	2092937
Metals									
Aluminum	7429-90-5	97.0	± 39.3	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Antimony	7440-36-0	<0.010	-	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Arsenic	7440-38-2	0.033	± 0.013	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Barium	7440-39-3	109	± 41.9	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Boron	7440-42-8	23.0	± 3.9	1.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Cadmium	7440-43-9	0.0105	± 0.0021	0.0050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Calcium	7440-70-2	7020	± 3470	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Chromium	7440-47-3	0.126	± 0.035	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Cobalt	7440-48-4	0.050	± 0.011	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Copper	7440-50-8	3.37	± 0.53	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Iron	7439-89-6	101	± 25.7	3.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Lead	7439-92-1	0.068	± 0.027	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Magnesium	7439-95-4	1600	± 287	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Manganese	7439-96-5	1020	± 300	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Mercury	7439-97-6	0.0162	± 0.0024	0.0050	mg/kg	E510/VA	15-Jul-2025	22-Jul-2025	2105043
Molybdenum	7439-98-7	0.022	± 0.004	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Nickel	7440-02-0	0.48	± 0.10	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Phosphorus	7723-14-0	1370	± 298	10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Potassium	7440-09-7	4430	± 540	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Selenium	7782-49-2	<0.050	-	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Silver	7440-22-4	<0.0050	-	0.0050	mg/kg	E440.Ag/VA	15-Jul-2025	15-Jul-2025	2105046
Sodium	7440-23-5	<20	-	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Strontium	7440-24-6	10.6	± 4.97	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Sulfur	7704-34-9	1210	± 210	100	mg/kg	E440.S/VA	15-Jul-2025	15-Jul-2025	2105045
Thallium	7440-28-0	0.0121	± 0.0018	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Tin	7440-31-5	<0.10	-	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Titanium	7440-32-6	2.64	-	0.25	mg/kg	E440.Ti/VA	15-Jul-2025	15-Jul-2025	2105044
Uranium	7440-61-1	0.0041	± 0.0014	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Vanadium	7440-62-2	0.15	± 0.03	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Zinc	7440-66-6	27.9	± 4.67	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Zirconium	7440-67-7	0.30	± 0.11	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042

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

Analytical Results

EO2505051-009

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250616103
Client sampling date / time: [16-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	38.5	± 1.40	0.50	%	E144/VA	-	07-Jul-2025	2092937
Metals									
Aluminum	7429-90-5	93.9	± 38.1	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Antimony	7440-36-0	0.022	± 0.005	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Arsenic	7440-38-2	0.032	± 0.013	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Barium	7440-39-3	108	± 41.6	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Boron	7440-42-8	22.9	± 3.9	1.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Cadmium	7440-43-9	0.0116	± 0.0023	0.0050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Calcium	7440-70-2	7180	± 3550	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Chromium	7440-47-3	0.119	± 0.033	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Cobalt	7440-48-4	0.049	± 0.011	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Copper	7440-50-8	3.44	± 0.54	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Iron	7439-89-6	97.5	± 24.7	3.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Lead	7439-92-1	0.070	± 0.027	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Magnesium	7439-95-4	1590	± 284	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Manganese	7439-96-5	1000	± 294	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Mercury	7439-97-6	0.0163	± 0.0024	0.0050	mg/kg	E510/VA	15-Jul-2025	22-Jul-2025	2105043
Molybdenum	7439-98-7	0.021	± 0.004	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Nickel	7440-02-0	0.48	± 0.10	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Phosphorus	7723-14-0	1390	± 302	10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Potassium	7440-09-7	4580	± 558	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Selenium	7782-49-2	<0.050	-	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Silver	7440-22-4	0.0083	± 0.0017	0.0050	mg/kg	E440.Ag/VA	15-Jul-2025	15-Jul-2025	2105046
Sodium	7440-23-5	<20	-	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Strontium	7440-24-6	10.6	± 4.98	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Sulfur	7704-34-9	1140	± 200	100	mg/kg	E440.S/VA	15-Jul-2025	15-Jul-2025	2105045
Thallium	7440-28-0	0.0168	± 0.0022	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Tin	7440-31-5	<0.10	-	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Titanium	7440-32-6	2.32	-	0.25	mg/kg	E440.Ti/VA	15-Jul-2025	15-Jul-2025	2105044
Uranium	7440-61-1	0.0036	± 0.0013	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Vanadium	7440-62-2	0.14	± 0.03	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Zinc	7440-66-6	26.9	± 4.51	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Zirconium	7440-67-7	<0.40 DLM	-	0.40	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042

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

Analytical Results

EO2505051-010

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250616004
Client sampling date / time: [16-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	66.6	± 2.32	0.50	%	E144/VA	-	07-Jul-2025	2092937
Metals									
Aluminum	7429-90-5	649	± 262	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Antimony	7440-36-0	0.035	± 0.006	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Arsenic	7440-38-2	0.249	± 0.044	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Barium	7440-39-3	47.4	± 18.3	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Beryllium	7440-41-7	0.023	± 0.005	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Boron	7440-42-8	3.9	± 0.8	1.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Cadmium	7440-43-9	0.248	± 0.0478	0.0050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Calcium	7440-70-2	5080	± 2510	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Chromium	7440-47-3	0.871	± 0.222	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Cobalt	7440-48-4	0.444	± 0.096	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Copper	7440-50-8	6.40	± 1.00	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Iron	7439-89-6	718	± 182	3.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Lead	7439-92-1	1.14	± 0.433	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Magnesium	7439-95-4	1000	± 180	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Manganese	7439-96-5	1170	± 343	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Mercury	7439-97-6	0.122	± 0.0170	0.0050	mg/kg	E510/VA	15-Jul-2025	22-Jul-2025	2105043
Molybdenum	7439-98-7	0.118	± 0.019	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Nickel	7440-02-0	1.37	± 0.27	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Phosphorus	7723-14-0	1360	± 295	10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Potassium	7440-09-7	3500	± 427	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Selenium	7782-49-2	0.082	± 0.018	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Silver	7440-22-4	0.156	± 0.0320	0.0050	mg/kg	E440.Ag/VA	15-Jul-2025	15-Jul-2025	2105046
Sodium	7440-23-5	56	± 8	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Strontium	7440-24-6	7.46	± 3.49	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Sulfur	7704-34-9	1060	± 190	100	mg/kg	E440.S/VA	15-Jul-2025	15-Jul-2025	2105045
Thallium	7440-28-0	0.0203	± 0.0026	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Tin	7440-31-5	0.13	± 0.02	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Titanium	7440-32-6	14.1	-	0.25	mg/kg	E440.Ti/VA	15-Jul-2025	15-Jul-2025	2105044
Uranium	7440-61-1	0.0337	± 0.0120	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Vanadium	7440-62-2	1.36	± 0.30	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Zinc	7440-66-6	40.6	± 6.77	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Zirconium	7440-67-7	0.51	± 0.18	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042

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

Analytical Results

EO2505051-011

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

Client sample ID: 15867250616004
Client sampling date / time: [16-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
pH, saturated paste	----	5.04	-	0.10	pH units	E114/VA	03-Jul-2025	03-Jul-2025	2077473
% Saturation	----	1280	± 187	1.0	%	E141/VA	03-Jul-2025	03-Jul-2025	2077474
Saturated Paste Extractables									
Conductivity, saturated paste	----	0.066	± 0.02	0.020	dS/m	E102/VA	03-Jul-2025	07-Jul-2025	2077472

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

Analytical Results

EO2505051-012

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250616104
Client sampling date / time: [16-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	41.6	± 1.50	0.50	%	E144/VA	-	07-Jul-2025	2092937
Metals									
Aluminum	7429-90-5	90.3	± 36.6	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Antimony	7440-36-0	<0.010	-	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Arsenic	7440-38-2	0.028	± 0.013	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Barium	7440-39-3	129	± 49.8	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Boron	7440-42-8	25.2	± 4.3	1.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Cadmium	7440-43-9	0.0066	± 0.0013	0.0050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Calcium	7440-70-2	6750	± 3330	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Chromium	7440-47-3	0.083	± 0.025	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Cobalt	7440-48-4	0.037	± 0.008	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Copper	7440-50-8	3.23	± 0.50	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Iron	7439-89-6	87.1	± 22.1	3.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Lead	7439-92-1	0.051	± 0.020	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Magnesium	7439-95-4	1740	± 313	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Manganese	7439-96-5	2540	± 744	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Mercury	7439-97-6	0.0110	± 0.0017	0.0050	mg/kg	E510/VA	15-Jul-2025	22-Jul-2025	2105043
Molybdenum	7439-98-7	<0.020	-	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Nickel	7440-02-0	0.43	± 0.09	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Phosphorus	7723-14-0	1360	± 295	10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Potassium	7440-09-7	3970	± 484	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Selenium	7782-49-2	<0.050	-	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Silver	7440-22-4	<0.0050	-	0.0050	mg/kg	E440.Ag/VA	15-Jul-2025	15-Jul-2025	2105046
Sodium	7440-23-5	<20	-	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Strontium	7440-24-6	4.51	± 2.11	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Sulfur	7704-34-9	1090	± 190	100	mg/kg	E440.S/VA	15-Jul-2025	15-Jul-2025	2105045
Thallium	7440-28-0	0.0415	± 0.0049	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Tin	7440-31-5	<0.10	-	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Titanium	7440-32-6	1.28	-	0.25	mg/kg	E440.Ti/VA	15-Jul-2025	15-Jul-2025	2105044
Uranium	7440-61-1	0.0023	± 0.0008	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Vanadium	7440-62-2	0.10	± 0.02	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Zinc	7440-66-6	30.0	± 5.01	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Zirconium	7440-67-7	<0.20	-	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042

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

Analytical Results

EO2505051-013

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

Client sample ID: 15867250616301
Client sampling date / time: [16-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	20.9	± 1.23	0.25	%	E144/EO	-	20-Jun-2025	2064372
Polychlorinated Biphenyls									
Aroclor 1016	12674-11-2	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Aroclor 1221	11104-28-2	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Aroclor 1232	11141-16-5	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Aroclor 1242	53469-21-9	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Aroclor 1248	12672-29-6	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Aroclor 1254	11097-69-1	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Aroclor 1260	11096-82-5	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Aroclor 1262	37324-23-5	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Aroclor 1268	11100-14-4	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Polychlorinated biphenyls [PCBs], total	n/a	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Polychlorinated Biphenyls Surrogates									
Decachlorobiphenyl	2051-24-3	87.2	-	0.01	%	E685/EO	23-Jun-2025	24-Jun-2025	2069790

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

Analytical Results

EO2505051-014

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

Client sample ID: 15867250616302
Client sampling date / time: [16-Jun-2025]

Analyte	*CAS Number*	*Result*	*Measurement Uncertainty*	*LOR*	*Unit*	*Method/Lab*	*Prep Date*	*Analysis Date*	*QCLot*
Sample Data									
Dummy analyte	----	NR	-	-	-	HOLD/EO	-	20-Jun-2025	-

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

Analytical Results

EO2505051-015

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250617005
Client sampling date / time: [16-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	70.8	± 2.46	0.50	%	E144/VA	-	07-Jul-2025	2092937
Metals									
Aluminum	7429-90-5	655	± 264	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Antimony	7440-36-0	0.157	± 0.022	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Arsenic	7440-38-2	0.381	± 0.065	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Barium	7440-39-3	56.4	± 21.7	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Beryllium	7440-41-7	0.021	± 0.005	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Boron	7440-42-8	5.2	± 1.0	1.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Cadmium	7440-43-9	0.489	± 0.0942	0.0050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Calcium	7440-70-2	5930	± 2930	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Chromium	7440-47-3	1.02	± 0.261	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Cobalt	7440-48-4	0.420	± 0.091	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Copper	7440-50-8	6.99	± 1.09	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Iron	7439-89-6	564	± 143	3.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Lead	7439-92-1	6.99	± 2.66	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Magnesium	7439-95-4	867	± 155	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Manganese	7439-96-5	814	± 238	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Mercury	7439-97-6	0.161	± 0.0224	0.0050	mg/kg	E510/VA	15-Jul-2025	22-Jul-2025	2105043
Molybdenum	7439-98-7	0.281	± 0.046	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Nickel	7440-02-0	1.54	± 0.30	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Phosphorus	7723-14-0	1120	± 244	10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Potassium	7440-09-7	3560	± 434	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Selenium	7782-49-2	0.114	± 0.021	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Silver	7440-22-4	0.0849	± 0.0173	0.0050	mg/kg	E440.Ag/VA	15-Jul-2025	15-Jul-2025	2105046
Sodium	7440-23-5	45	± 6	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Strontium	7440-24-6	13.8	± 6.45	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Sulfur	7704-34-9	880	± 160	100	mg/kg	E440.S/VA	15-Jul-2025	15-Jul-2025	2105045
Thallium	7440-28-0	0.0215	± 0.0027	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Tin	7440-31-5	0.58	± 0.10	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Titanium	7440-32-6	17.9	-	0.25	mg/kg	E440.Ti/VA	15-Jul-2025	15-Jul-2025	2105044
Uranium	7440-61-1	0.0321	± 0.0115	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Vanadium	7440-62-2	1.11	± 0.24	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Zinc	7440-66-6	70.2	± 11.7	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Zirconium	7440-67-7	0.33	± 0.12	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042

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

Analytical Results

EO2505051-016

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

Client sample ID: 15867250617005
Client sampling date / time: [17-Jun-2025]

Analyte	*CAS Number*	*Result*	*Measurement Uncertainty*	*LOR*	*Unit*	*Method/Lab*	*Prep Date*	*Analysis Date*	*QCLot*
Physical Tests									
pH, saturated paste	----	5.00	-	0.10	pH units	E114/VA	03-Jul-2025	03-Jul-2025	2077473
% Saturation	----	1220	± 178	1.0	%	E141/VA	03-Jul-2025	06-Aug-2025	2077474
Saturated Paste Extractables									
Conductivity, saturated paste	----	0.186	± 0.03	0.020	dS/m	E102/VA	03-Jul-2025	06-Aug-2025	2077472

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

Analytical Results

EO2505051-017

Sub-Matrix: **Biota** (Matrix: **Biota**)

Client sample ID: 15867250617105

Client sampling date / time: [17-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	36.4	± 1.33	0.50	%	E144/VA	-	07-Jul-2025	2092937
Metals									
Aluminum	7429-90-5	119	± 48.1	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Antimony	7440-36-0	0.011	± 0.004	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Arsenic	7440-38-2	0.053	± 0.015	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Barium	7440-39-3	132	± 50.7	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Boron	7440-42-8	20.7	± 3.5	1.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Cadmium	7440-43-9	0.0275	± 0.0053	0.0050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Calcium	7440-70-2	7700	± 3800	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Chromium	7440-47-3	0.118	± 0.033	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Cobalt	7440-48-4	0.110	± 0.024	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Copper	7440-50-8	4.55	± 0.71	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Iron	7439-89-6	104	± 26.5	3.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Lead	7439-92-1	0.287	± 0.110	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Magnesium	7439-95-4	1540	± 275	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Manganese	7439-96-5	1010	± 296	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Mercury	7439-97-6	0.0260	± 0.0037	0.0050	mg/kg	E510/VA	15-Jul-2025	22-Jul-2025	2105043
Molybdenum	7439-98-7	0.046	± 0.008	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Nickel	7440-02-0	1.48	± 0.29	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Phosphorus	7723-14-0	1480	± 320	10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Potassium	7440-09-7	3360	± 409	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Selenium	7782-49-2	<0.050	-	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Silver	7440-22-4	<0.0050	-	0.0050	mg/kg	E440.Ag/VA	15-Jul-2025	15-Jul-2025	2105046
Sodium	7440-23-5	<20	-	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Strontium	7440-24-6	9.83	± 4.60	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Sulfur	7704-34-9	1330	± 230	100	mg/kg	E440.S/VA	15-Jul-2025	15-Jul-2025	2105045
Thallium	7440-28-0	0.0039	± 0.0011	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Tin	7440-31-5	<0.10	-	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Titanium	7440-32-6	1.88	-	0.25	mg/kg	E440.Ti/VA	15-Jul-2025	15-Jul-2025	2105044
Uranium	7440-61-1	0.0031	± 0.0011	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Vanadium	7440-62-2	0.13	± 0.03	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Zinc	7440-66-6	33.6	± 5.61	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Zirconium	7440-67-7	0.24	± 0.08	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042

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

Analytical Results

EO2505051-018

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250617006
Client sampling date / time: [17-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	56.5	± 1.99	0.50	%	E144/VA	-	07-Jul-2025	2092937
Metals									
Aluminum	7429-90-5	741	± 299	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Antimony	7440-36-0	0.219	± 0.031	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Arsenic	7440-38-2	0.580	± 0.096	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Barium	7440-39-3	57.6	± 22.2	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Beryllium	7440-41-7	0.031	± 0.007	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Boron	7440-42-8	8.7	± 1.6	1.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Cadmium	7440-43-9	0.422	± 0.0812	0.0050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Calcium	7440-70-2	9160	± 4520	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Chromium	7440-47-3	1.77	± 0.449	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Cobalt	7440-48-4	0.523	± 0.113	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Copper	7440-50-8	9.59	± 1.49	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Iron	7439-89-6	985	± 249	3.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Lead	7439-92-1	9.16	± 3.48	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Magnesium	7439-95-4	1020	± 182	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Manganese	7439-96-5	745	± 218	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Mercury	7439-97-6	0.817	± 0.113	0.0086	mg/kg	E510/VA	15-Jul-2025	22-Jul-2025	2105043
Molybdenum	7439-98-7	0.386	± 0.062	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Nickel	7440-02-0	2.01	± 0.40	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Phosphorus	7723-14-0	1310	± 284	10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Potassium	7440-09-7	3260	± 398	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Selenium	7782-49-2	0.103	± 0.020	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Silver	7440-22-4	0.0988	± 0.0202	0.0050	mg/kg	E440.Ag/VA	15-Jul-2025	15-Jul-2025	2105046
Sodium	7440-23-5	33	± 5	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Strontium	7440-24-6	11.7	± 5.49	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Sulfur	7704-34-9	1080	± 190	100	mg/kg	E440.S/VA	15-Jul-2025	15-Jul-2025	2105045
Thallium	7440-28-0	0.0330	± 0.0040	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Tin	7440-31-5	0.77	± 0.13	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Titanium	7440-32-6	23.8	-	0.25	mg/kg	E440.Ti/VA	15-Jul-2025	15-Jul-2025	2105044
Uranium	7440-61-1	0.0535	± 0.0191	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Vanadium	7440-62-2	1.94	± 0.42	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Zinc	7440-66-6	89.5	± 14.9	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Zirconium	7440-67-7	0.77	± 0.27	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042

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

Analytical Results

EO2505051-019

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

Client sample ID: 15867250617006
Client sampling date / time: [17-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
pH, saturated paste	----	4.98	-	0.10	pH units	E114/VA	03-Jul-2025	03-Jul-2025	2077473
% Saturation	----	1300	± 190	1.0	%	E141/VA	03-Jul-2025	03-Jul-2025	2077474
Saturated Paste Extractables									
Conductivity, saturated paste	----	0.097	± 0.02	0.020	dS/m	E102/VA	03-Jul-2025	07-Jul-2025	2077472

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

Analytical Results

EO2505051-020

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250617106
Client sampling date / time: [17-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	44.5	± 1.60	0.50	%	E144/VA	-	07-Jul-2025	2092937
Metals									
Aluminum	7429-90-5	95.3	± 38.6	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Antimony	7440-36-0	<0.010	-	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Arsenic	7440-38-2	0.051	± 0.015	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Barium	7440-39-3	159	± 61.3	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Boron	7440-42-8	27.2	± 4.6	1.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Cadmium	7440-43-9	0.0124	± 0.0024	0.0050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Calcium	7440-70-2	7680	± 3790	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Chromium	7440-47-3	0.133	± 0.037	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Cobalt	7440-48-4	0.069	± 0.015	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Copper	7440-50-8	3.40	± 0.53	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Iron	7439-89-6	110	± 27.8	3.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Lead	7439-92-1	0.201	± 0.077	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Magnesium	7439-95-4	1750	± 313	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Manganese	7439-96-5	1210	± 355	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Mercury	7439-97-6	0.0198	± 0.0028	0.0050	mg/kg	E510/VA	15-Jul-2025	22-Jul-2025	2105043
Molybdenum	7439-98-7	0.031	± 0.006	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Nickel	7440-02-0	0.60	± 0.12	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Phosphorus	7723-14-0	1240	± 268	10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Potassium	7440-09-7	3830	± 467	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Selenium	7782-49-2	<0.050	-	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Silver	7440-22-4	<0.0050	-	0.0050	mg/kg	E440.Ag/VA	15-Jul-2025	15-Jul-2025	2105046
Sodium	7440-23-5	<20	-	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Strontium	7440-24-6	7.66	± 3.59	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Sulfur	7704-34-9	1080	± 190	100	mg/kg	E440.S/VA	15-Jul-2025	15-Jul-2025	2105045
Thallium	7440-28-0	0.0033	± 0.0010	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Tin	7440-31-5	<0.10	-	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Titanium	7440-32-6	2.17	-	0.25	mg/kg	E440.Ti/VA	15-Jul-2025	15-Jul-2025	2105044
Uranium	7440-61-1	0.0037	± 0.0013	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Vanadium	7440-62-2	0.16	± 0.04	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Zinc	7440-66-6	39.7	± 6.63	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042
Zirconium	7440-67-7	<0.20	-	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105042

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

Analytical Results

EO2505051-021

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250617007
Client sampling date / time: [17-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	28.2	± 1.07	0.50	%	E144/VA	-	07-Jul-2025	2092937
Metals									
Aluminum	7429-90-5	74.7	± 30.4	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Antimony	7440-36-0	0.023	± 0.005	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Arsenic	7440-38-2	0.066	± 0.017	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Barium	7440-39-3	6.38	± 2.46	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Boron	7440-42-8	1.5	± 0.4	1.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Cadmium	7440-43-9	0.0351	± 0.0068	0.0050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Calcium	7440-70-2	1690	± 837	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Chromium	7440-47-3	0.161	± 0.044	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Cobalt	7440-48-4	0.048	± 0.010	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Copper	7440-50-8	1.33	± 0.21	0.10	mg/kg	E440/VA	15-Jul-2025	21-Jul-2025	2105328
Iron	7439-89-6	104	± 26.3	3.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Lead	7439-92-1	0.903	± 0.344	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Magnesium	7439-95-4	214	± 38.3	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Manganese	7439-96-5	226	± 66.3	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Mercury	7439-97-6	0.0396	± 0.0056	0.0050	mg/kg	E510/VA	15-Jul-2025	16-Jul-2025	2105330
Molybdenum	7439-98-7	0.041	± 0.007	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Nickel	7440-02-0	0.24	± 0.06	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Phosphorus	7723-14-0	298	± 65	10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Potassium	7440-09-7	965	± 119	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Selenium	7782-49-2	<0.050	-	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Silver	7440-22-4	0.0112	± 0.0023	0.0050	mg/kg	E440.Ag/VA	15-Jul-2025	15-Jul-2025	2105329
Sodium	7440-23-5	<20	-	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Strontium	7440-24-6	1.60	± 0.751	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Sulfur	7704-34-9	200	± 80	100	mg/kg	E440.S/VA	15-Jul-2025	15-Jul-2025	2105332
Thallium	7440-28-0	0.0042	± 0.0011	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Tin	7440-31-5	<0.10	-	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Titanium	7440-32-6	3.05	-	0.25	mg/kg	E440.Ti/VA	15-Jul-2025	15-Jul-2025	2105331
Uranium	7440-61-1	0.0058	± 0.0020	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Vanadium	7440-62-2	0.20	± 0.04	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Zinc	7440-66-6	18.9	± 3.18	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Zirconium	7440-67-7	<0.20	-	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328

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

Analytical Results

EO2505051-022

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

Client sample ID: 15867250617007
Client sampling date / time: [17-Jun-2025]

Analyte	*CAS Number*	*Result*	*Measurement Uncertainty*	*LOR*	*Unit*	*Method/Lab*	*Prep Date*	*Analysis Date*	*QCLot*
Physical Tests									
pH, saturated paste	----	5.01	-	0.10	pH units	E114/VA	03-Jul-2025	03-Jul-2025	2077473
% Saturation	----	903	± 132	1.0	%	E141/VA	03-Jul-2025	06-Aug-2025	2077474
Saturated Paste Extractables									
Conductivity, saturated paste	----	0.144	± 0.02	0.020	dS/m	E102/VA	03-Jul-2025	06-Aug-2025	2077472

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

Analytical Results

EO2505051-023

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250617107
Client sampling date / time: [17-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	34.6	± 1.28	0.50	%	E144/VA	-	07-Jul-2025	2092937
Metals									
Aluminum	7429-90-5	19.9	± 8.2	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Antimony	7440-36-0	<0.010	-	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Arsenic	7440-38-2	<0.020	-	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Barium	7440-39-3	34.1	± 13.1	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Boron	7440-42-8	6.5	± 1.2	1.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Cadmium	7440-43-9	<0.0050	-	0.0050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Calcium	7440-70-2	1860	± 919	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Chromium	7440-47-3	<0.050	-	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Cobalt	7440-48-4	<0.020	-	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Copper	7440-50-8	0.86	± 0.14	0.10	mg/kg	E440/VA	15-Jul-2025	21-Jul-2025	2105328
Iron	7439-89-6	20.2	± 5.2	3.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Lead	7439-92-1	0.026	± 0.011	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Magnesium	7439-95-4	382	± 68.6	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Manganese	7439-96-5	282	± 82.6	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Mercury	7439-97-6	<0.0050	-	0.0050	mg/kg	E510/VA	15-Jul-2025	16-Jul-2025	2105330
Molybdenum	7439-98-7	<0.020	-	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Nickel	7440-02-0	0.21	± 0.05	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Phosphorus	7723-14-0	349	± 76	10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Potassium	7440-09-7	1170	± 144	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Selenium	7782-49-2	<0.050	-	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Silver	7440-22-4	<0.0050	-	0.0050	mg/kg	E440.Ag/VA	15-Jul-2025	15-Jul-2025	2105329
Sodium	7440-23-5	<20	-	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Strontium	7440-24-6	1.62	± 0.760	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Sulfur	7704-34-9	290	± 90	100	mg/kg	E440.S/VA	15-Jul-2025	15-Jul-2025	2105332
Thallium	7440-28-0	0.0072	± 0.0013	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Tin	7440-31-5	<0.10	-	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Titanium	7440-32-6	0.43	-	0.25	mg/kg	E440.Ti/VA	15-Jul-2025	15-Jul-2025	2105331
Uranium	7440-61-1	<0.0020	-	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Vanadium	7440-62-2	<0.10	-	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Zinc	7440-66-6	6.88	± 1.20	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Zirconium	7440-67-7	<0.20	-	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328

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

Analytical Results

EO2505051-024

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250617008
Client sampling date / time: [17-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	47.7	± 1.70	0.50	%	E144/VA	-	07-Jul-2025	2092937
Metals									
Aluminum	7429-90-5	177	± 71.8	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Antimony	7440-36-0	0.063	± 0.010	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Arsenic	7440-38-2	0.154	± 0.030	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Barium	7440-39-3	12.7	± 4.88	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Boron	7440-42-8	1.8	± 0.5	1.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Cadmium	7440-43-9	0.0795	± 0.0153	0.0050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Calcium	7440-70-2	2130	± 1050	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Chromium	7440-47-3	0.376	± 0.097	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Cobalt	7440-48-4	0.116	± 0.025	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Copper	7440-50-8	2.04	± 0.32	0.10	mg/kg	E440/VA	15-Jul-2025	21-Jul-2025	2105328
Iron	7439-89-6	216	± 54.7	3.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Lead	7439-92-1	2.43	± 0.926	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Magnesium	7439-95-4	309	± 55.4	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Manganese	7439-96-5	218	± 63.8	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Mercury	7439-97-6	0.104	± 0.0145	0.0050	mg/kg	E510/VA	15-Jul-2025	16-Jul-2025	2105330
Molybdenum	7439-98-7	0.101	± 0.017	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Nickel	7440-02-0	0.56	± 0.11	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Phosphorus	7723-14-0	427	± 93	10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Potassium	7440-09-7	1290	± 159	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Selenium	7782-49-2	<0.050	-	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Silver	7440-22-4	0.0235	± 0.0048	0.0050	mg/kg	E440.Ag/VA	15-Jul-2025	15-Jul-2025	2105329
Sodium	7440-23-5	<20	-	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Strontium	7440-24-6	2.53	± 1.19	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Sulfur	7704-34-9	310	± 90	100	mg/kg	E440.S/VA	15-Jul-2025	15-Jul-2025	2105332
Thallium	7440-28-0	0.0073	± 0.0013	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Tin	7440-31-5	0.21	± 0.04	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Titanium	7440-32-6	7.28	-	0.25	mg/kg	E440.Ti/VA	15-Jul-2025	15-Jul-2025	2105331
Uranium	7440-61-1	0.0110	± 0.0039	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Vanadium	7440-62-2	0.42	± 0.09	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Zinc	7440-66-6	56.8	± 9.44	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Zirconium	7440-67-7	<0.20	-	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328

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

Analytical Results

EO2505051-025

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

Client sample ID: 15867250617008
Client sampling date / time: [17-Jun-2025]

Analyte	*CAS Number*	*Result*	*Measurement Uncertainty*	*LOR*	*Unit*	*Method/Lab*	*Prep Date*	*Analysis Date*	*QCLot*
Physical Tests									
pH, saturated paste	----	4.96	-	0.10	pH units	E114/VA	03-Jul-2025	03-Jul-2025	2077473
% Saturation	----	1020	± 149	1.0	%	E141/VA	03-Jul-2025	03-Jul-2025	2077474
Saturated Paste Extractables									
Conductivity, saturated paste	----	0.098	± 0.02	0.020	dS/m	E102/VA	03-Jul-2025	07-Jul-2025	2077472

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

Analytical Results

EO2505051-026

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250617108
Client sampling date / time: [17-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	39.2	± 1.42	0.50	%	E144/VA	-	07-Jul-2025	2092937
Metals									
Aluminum	7429-90-5	24.2	± 10.0	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Antimony	7440-36-0	<0.010	-	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Arsenic	7440-38-2	<0.020	-	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Barium	7440-39-3	39.5	± 15.2	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Boron	7440-42-8	7.8	± 1.4	1.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Cadmium	7440-43-9	<0.0050	-	0.0050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Calcium	7440-70-2	2200	± 1080	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Chromium	7440-47-3	<0.050	-	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Cobalt	7440-48-4	<0.020	-	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Copper	7440-50-8	1.02	± 0.16	0.10	mg/kg	E440/VA	15-Jul-2025	21-Jul-2025	2105328
Iron	7439-89-6	25.6	± 6.6	3.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Lead	7439-92-1	0.032	± 0.013	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Magnesium	7439-95-4	458	± 82.1	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Manganese	7439-96-5	373	± 109	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Mercury	7439-97-6	<0.0050	-	0.0050	mg/kg	E510/VA	15-Jul-2025	16-Jul-2025	2105330
Molybdenum	7439-98-7	<0.020	-	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Nickel	7440-02-0	0.25	± 0.06	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Phosphorus	7723-14-0	411	± 90	10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Potassium	7440-09-7	1380	± 170	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Selenium	7782-49-2	<0.050	-	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Silver	7440-22-4	<0.0050	-	0.0050	mg/kg	E440.Ag/VA	15-Jul-2025	15-Jul-2025	2105329
Sodium	7440-23-5	<20	-	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Strontium	7440-24-6	1.93	± 0.904	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Sulfur	7704-34-9	330	± 90	100	mg/kg	E440.S/VA	15-Jul-2025	15-Jul-2025	2105332
Thallium	7440-28-0	0.0112	± 0.0017	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Tin	7440-31-5	<0.10	-	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Titanium	7440-32-6	0.52	-	0.25	mg/kg	E440.Ti/VA	15-Jul-2025	15-Jul-2025	2105331
Uranium	7440-61-1	<0.0020	-	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Vanadium	7440-62-2	<0.10	-	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Zinc	7440-66-6	8.57	± 1.48	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Zirconium	7440-67-7	<0.20	-	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328

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

Analytical Results

EO2505051-027

Sub-Matrix: **Biota** (Matrix: **Biota**)

Client sample ID: 15867250617009

Client sampling date / time: [17-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	69.7	± 2.42	0.50	%	E144/VA	-	07-Jul-2025	2092937
Metals									
Aluminum	7429-90-5	128	± 51.9	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Antimony	7440-36-0	0.013	± 0.004	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Arsenic	7440-38-2	0.073	± 0.018	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Barium	7440-39-3	37.4	± 14.4	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Boron	7440-42-8	2.6	± 0.6	1.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Cadmium	7440-43-9	0.0480	± 0.0093	0.0050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Calcium	7440-70-2	3240	± 1600	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Chromium	7440-47-3	0.197	± 0.052	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Cobalt	7440-48-4	0.161	± 0.035	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Copper	7440-50-8	1.64	± 0.26	0.10	mg/kg	E440/VA	15-Jul-2025	21-Jul-2025	2105328
Iron	7439-89-6	169	± 42.8	3.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Lead	7439-92-1	0.529	± 0.202	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Magnesium	7439-95-4	529	± 94.9	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Manganese	7439-96-5	562	± 165	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Mercury	7439-97-6	0.0443	± 0.0062	0.0050	mg/kg	E510/VA	15-Jul-2025	16-Jul-2025	2105330
Molybdenum	7439-98-7	0.063	± 0.011	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Nickel	7440-02-0	0.30	± 0.07	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Phosphorus	7723-14-0	802	± 174	10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Potassium	7440-09-7	2350	± 287	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Selenium	7782-49-2	<0.050	-	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Silver	7440-22-4	0.0127	± 0.0026	0.0050	mg/kg	E440.Ag/VA	15-Jul-2025	15-Jul-2025	2105329
Sodium	7440-23-5	<20	-	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Strontium	7440-24-6	10.5	± 4.91	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Sulfur	7704-34-9	470	± 110	100	mg/kg	E440.S/VA	15-Jul-2025	15-Jul-2025	2105332
Thallium	7440-28-0	0.0063	± 0.0012	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Tin	7440-31-5	<0.10	-	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Titanium	7440-32-6	4.64	-	0.25	mg/kg	E440.Ti/VA	15-Jul-2025	15-Jul-2025	2105331
Uranium	7440-61-1	0.0091	± 0.0032	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Vanadium	7440-62-2	0.32	± 0.07	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Zinc	7440-66-6	22.0	± 3.69	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Zirconium	7440-67-7	<0.20	-	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328

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

Analytical Results

EO2505051-028

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

Client sample ID: 15867250617009
Client sampling date / time: [17-Jun-2025]

Analyte	*CAS Number*	*Result*	*Measurement Uncertainty*	*LOR*	*Unit*	*Method/Lab*	*Prep Date*	*Analysis Date*	*QCLot*
Physical Tests									
pH, saturated paste	----	4.53	-	0.10	pH units	E114/VA	03-Jul-2025	03-Jul-2025	2077473
% Saturation	----	1130	± 165	1.0	%	E141/VA	03-Jul-2025	06-Aug-2025	2077474
Saturated Paste Extractables									
Conductivity, saturated paste	----	0.177	± 0.03	0.020	dS/m	E102/VA	03-Jul-2025	06-Aug-2025	2077472

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

Analytical Results

EO2505051-029

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250617109
Client sampling date / time: [17-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	39.5	± 1.43	0.50	%	E144/VA	-	07-Jul-2025	2092937
Metals									
Aluminum	7429-90-5	29.1	± 11.9	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Antimony	7440-36-0	<0.010	-	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Arsenic	7440-38-2	<0.020	-	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Barium	7440-39-3	50.5	± 19.4	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Boron	7440-42-8	9.3	± 1.7	1.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Cadmium	7440-43-9	<0.0050	-	0.0050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Calcium	7440-70-2	2870	± 1420	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Chromium	7440-47-3	<0.050	-	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Cobalt	7440-48-4	<0.020	-	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Copper	7440-50-8	1.19	± 0.19	0.10	mg/kg	E440/VA	15-Jul-2025	21-Jul-2025	2105328
Iron	7439-89-6	34.3	± 8.8	3.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Lead	7439-92-1	0.116	± 0.045	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Magnesium	7439-95-4	614	± 110	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Manganese	7439-96-5	509	± 149	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Mercury	7439-97-6	0.0057	± 0.0010	0.0050	mg/kg	E510/VA	15-Jul-2025	16-Jul-2025	2105330
Molybdenum	7439-98-7	<0.020	-	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Nickel	7440-02-0	<0.20	-	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Phosphorus	7723-14-0	472	± 103	10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Potassium	7440-09-7	1570	± 192	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Selenium	7782-49-2	<0.050	-	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Silver	7440-22-4	<0.0050	-	0.0050	mg/kg	E440.Ag/VA	15-Jul-2025	15-Jul-2025	2105329
Sodium	7440-23-5	<20	-	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Strontium	7440-24-6	3.41	± 1.60	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Sulfur	7704-34-9	380	± 100	100	mg/kg	E440.S/VA	15-Jul-2025	15-Jul-2025	2105332
Thallium	7440-28-0	<0.0020	-	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Tin	7440-31-5	<0.10	-	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Titanium	7440-32-6	0.67	-	0.25	mg/kg	E440.Ti/VA	15-Jul-2025	15-Jul-2025	2105331
Uranium	7440-61-1	<0.0020	-	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Vanadium	7440-62-2	<0.10	-	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Zinc	7440-66-6	11.8	± 2.01	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Zirconium	7440-67-7	<0.20	-	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328

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

Analytical Results

EO2505051-030

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

Client sample ID: 15867250617303
Client sampling date / time: [17-Jun-2025]

Analyte	*CAS Number*	*Result*	*Measurement Uncertainty*	*LOR*	*Unit*	*Method/Lab*	*Prep Date*	*Analysis Date*	*QCLot*
Physical Tests									
Moisture	----	<0.25	-	0.25	%	E144/EO	-	20-Jun-2025	2064372
Polychlorinated Biphenyls									
Aroclor 1016	12674-11-2	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Aroclor 1221	11104-28-2	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Aroclor 1232	11141-16-5	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Aroclor 1242	53469-21-9	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Aroclor 1248	12672-29-6	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Aroclor 1254	11097-69-1	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Aroclor 1260	11096-82-5	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Aroclor 1262	37324-23-5	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Aroclor 1268	11100-14-4	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Polychlorinated biphenyls [PCBs], total	n/a	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Polychlorinated Biphenyls Surrogates									
Decachlorobiphenyl	2051-24-3	87.3	-	0.01	%	E685/EO	23-Jun-2025	24-Jun-2025	2069790

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

Analytical Results

EO2505051-031

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

Client sample ID: 15867250617304
Client sampling date / time: [17-Jun-2025]

Analyte	*CAS Number*	*Result*	*Measurement Uncertainty*	*LOR*	*Unit*	*Method/Lab*	*Prep Date*	*Analysis Date*	*QCLot*
Sample Data									
Dummy analyte	----	NR	-	-	-	HOLD/EO	-	20-Jun-2025	-

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

Analytical Results

EO2505051-032

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250618010
Client sampling date / time: [18-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	66.3	± 2.31	0.50	%	E144/VA	-	07-Jul-2025	2092937
Metals									
Aluminum	7429-90-5	132	± 53.4	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Antimony	7440-36-0	0.018	± 0.004	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Arsenic	7440-38-2	0.082	± 0.019	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Barium	7440-39-3	21.7	± 8.36	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Boron	7440-42-8	3.5	± 0.7	1.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Cadmium	7440-43-9	0.0737	± 0.0142	0.0050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Calcium	7440-70-2	4740	± 2340	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Chromium	7440-47-3	0.212	± 0.056	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Cobalt	7440-48-4	0.108	± 0.023	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Copper	7440-50-8	2.42	± 0.38	0.10	mg/kg	E440/VA	15-Jul-2025	21-Jul-2025	2105328
Iron	7439-89-6	184	± 46.6	3.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Lead	7439-92-1	0.718	± 0.274	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Magnesium	7439-95-4	471	± 84.5	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Manganese	7439-96-5	745	± 218	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Mercury	7439-97-6	0.0690	± 0.0096	0.0050	mg/kg	E510/VA	15-Jul-2025	16-Jul-2025	2105330
Molybdenum	7439-98-7	0.042	± 0.007	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Nickel	7440-02-0	0.44	± 0.09	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Phosphorus	7723-14-0	717	± 156	10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Potassium	7440-09-7	2030	± 249	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Selenium	7782-49-2	<0.050	-	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Silver	7440-22-4	0.0186	± 0.0038	0.0050	mg/kg	E440.Ag/VA	15-Jul-2025	15-Jul-2025	2105329
Sodium	7440-23-5	21	± 4	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Strontium	7440-24-6	5.80	± 2.72	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Sulfur	7704-34-9	540	± 120	100	mg/kg	E440.S/VA	15-Jul-2025	15-Jul-2025	2105332
Thallium	7440-28-0	0.0096	± 0.0015	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Tin	7440-31-5	<0.10	-	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Titanium	7440-32-6	4.15	-	0.25	mg/kg	E440.Ti/VA	15-Jul-2025	15-Jul-2025	2105331
Uranium	7440-61-1	0.0113	± 0.0040	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Vanadium	7440-62-2	0.33	± 0.07	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Zinc	7440-66-6	31.2	± 5.21	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Zirconium	7440-67-7	<0.20	-	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328

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

Analytical Results

EO2505051-033

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

Client sample ID: 15867250618010
Client sampling date / time: [18-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
pH, saturated paste	----	4.99	-	0.10	pH units	E114/VA	03-Jul-2025	03-Jul-2025	2077473
% Saturation	----	927	± 135	1.0	%	E141/VA	03-Jul-2025	03-Jul-2025	2077474
Saturated Paste Extractables									
Conductivity, saturated paste	----	0.105	± 0.02	0.020	dS/m	E102/VA	03-Jul-2025	07-Jul-2025	2077472

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

Analytical Results

EO2505051-034

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250618110
Client sampling date / time: [18-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	36.5	± 1.34	0.50	%	E144/VA	-	07-Jul-2025	2092937
Metals									
Aluminum	7429-90-5	24.9	± 10.2	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Antimony	7440-36-0	<0.010	-	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Arsenic	7440-38-2	<0.020	-	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Barium	7440-39-3	54.5	± 21.0	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Boron	7440-42-8	10.7	± 1.9	1.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Cadmium	7440-43-9	<0.0050	-	0.0050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Calcium	7440-70-2	2850	± 1410	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Chromium	7440-47-3	<0.050	-	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Cobalt	7440-48-4	<0.020	-	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Copper	7440-50-8	1.27	± 0.20	0.10	mg/kg	E440/VA	15-Jul-2025	21-Jul-2025	2105328
Iron	7439-89-6	34.6	± 8.8	3.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Lead	7439-92-1	0.030	± 0.012	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Magnesium	7439-95-4	694	± 124	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Manganese	7439-96-5	620	± 182	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Mercury	7439-97-6	0.0068	± 0.0011	0.0050	mg/kg	E510/VA	15-Jul-2025	16-Jul-2025	2105330
Molybdenum	7439-98-7	<0.020	-	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Nickel	7440-02-0	<0.20	-	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Phosphorus	7723-14-0	523	± 114	10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Potassium	7440-09-7	1670	± 204	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Selenium	7782-49-2	<0.050	-	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Silver	7440-22-4	<0.0050	-	0.0050	mg/kg	E440.Ag/VA	15-Jul-2025	15-Jul-2025	2105329
Sodium	7440-23-5	<20	-	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Strontium	7440-24-6	3.14	± 1.47	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Sulfur	7704-34-9	480	± 110	100	mg/kg	E440.S/VA	15-Jul-2025	15-Jul-2025	2105332
Thallium	7440-28-0	0.0042	± 0.0011	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Tin	7440-31-5	<0.10	-	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Titanium	7440-32-6	0.70	-	0.25	mg/kg	E440.Ti/VA	15-Jul-2025	15-Jul-2025	2105331
Uranium	7440-61-1	<0.0020	-	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Vanadium	7440-62-2	<0.10	-	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Zinc	7440-66-6	12.3	± 2.10	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Zirconium	7440-67-7	<0.20	-	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328

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

Analytical Results

EO2505051-035

Sub-Matrix: **Biota**
(Matrix: **Biota)**

Client sample ID: 15867250618011
Client sampling date / time: [18-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	70.7	± 2.46	0.50	%	E144/VA	-	07-Jul-2025	2093423
Metals									
Aluminum	7429-90-5	496	± 201	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Antimony	7440-36-0	0.038	± 0.007	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Arsenic	7440-38-2	0.198	± 0.036	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Barium	7440-39-3	85.6	± 33.0	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Beryllium	7440-41-7	0.022	± 0.005	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Boron	7440-42-8	7.0	± 1.3	1.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cadmium	7440-43-9	0.161	± 0.0310	0.0050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Calcium	7440-70-2	7540	± 3720	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Chromium	7440-47-3	0.747	± 0.191	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cobalt	7440-48-4	0.378	± 0.082	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Copper	7440-50-8	3.69	± 0.58	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Iron	7439-89-6	611	± 154	3.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lead	7439-92-1	1.06	± 0.404	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Magnesium	7439-95-4	989	± 177	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Manganese	7439-96-5	977	± 286	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Mercury	7439-97-6	0.0694	± 0.0097	0.0050	mg/kg	E510/VA	16-Jul-2025	16-Jul-2025	2106799
Molybdenum	7439-98-7	0.181	± 0.030	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Nickel	7440-02-0	1.07	± 0.21	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Phosphorus	7723-14-0	1220	± 264	10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Potassium	7440-09-7	3450	± 421	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Selenium	7782-49-2	0.096	± 0.019	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Silver	7440-22-4	0.0267	± 0.0055	0.0050	mg/kg	E440.Ag/VA	16-Jul-2025	17-Jul-2025	2106798
Sodium	7440-23-5	65	± 9	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Strontium	7440-24-6	24.0	± 11.2	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Sulfur	7704-34-9	1000	± 180	100	mg/kg	E440.S/VA	16-Jul-2025	17-Jul-2025	2106801
Thallium	7440-28-0	0.0127	± 0.0018	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Tin	7440-31-5	0.35	± 0.06	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Titanium	7440-32-6	13.7	-	0.25	mg/kg	E440.Ti/VA	16-Jul-2025	17-Jul-2025	2106800
Uranium	7440-61-1	0.0410	± 0.0146	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Vanadium	7440-62-2	1.21	± 0.26	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zinc	7440-66-6	42.9	± 7.15	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zirconium	7440-67-7	0.53	± 0.19	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797

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

Analytical Results

EO2505051-036

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

Client sample ID: 15867250618011
Client sampling date / time: [18-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
pH, saturated paste	----	5.29	-	0.10	pH units	E114/VA	03-Jul-2025	03-Jul-2025	2077473
% Saturation	----	1320	± 192	1.0	%	E141/VA	03-Jul-2025	03-Jul-2025	2077474
Saturated Paste Extractables									
Conductivity, saturated paste	----	0.120	± 0.02	0.020	dS/m	E102/VA	03-Jul-2025	07-Jul-2025	2077472

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

Analytical Results

EO2505051-037

Sub-Matrix: **Biota**
(Matrix: **Biota)**

Client sample ID: 15867250618111
Client sampling date / time: [18-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	48.3	± 1.72	0.50	%	E144/VA	-	07-Jul-2025	2093423
Metals									
Aluminum	7429-90-5	62.3	± 25.3	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Antimony	7440-36-0	<0.010	-	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Arsenic	7440-38-2	0.028	± 0.013	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Barium	7440-39-3	112	± 43.0	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Boron	7440-42-8	27.1	± 4.6	1.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cadmium	7440-43-9	0.0089	± 0.0018	0.0050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Calcium	7440-70-2	6480	± 3200	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Chromium	7440-47-3	0.077	± 0.024	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cobalt	7440-48-4	0.048	± 0.010	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Copper	7440-50-8	3.00	± 0.47	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Iron	7439-89-6	78.1	± 19.8	3.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lead	7439-92-1	0.051	± 0.020	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Magnesium	7439-95-4	1360	± 245	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Manganese	7439-96-5	1460	± 428	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Mercury	7439-97-6	0.0197	± 0.0028	0.0050	mg/kg	E510/VA	16-Jul-2025	16-Jul-2025	2106799
Molybdenum	7439-98-7	0.022	± 0.004	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Nickel	7440-02-0	0.41	± 0.08	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Phosphorus	7723-14-0	1030	± 224	10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Potassium	7440-09-7	2950	± 360	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Selenium	7782-49-2	<0.050	-	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Silver	7440-22-4	<0.0050	-	0.0050	mg/kg	E440.Ag/VA	16-Jul-2025	17-Jul-2025	2106798
Sodium	7440-23-5	21	± 4	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Strontium	7440-24-6	8.13	± 3.81	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Sulfur	7704-34-9	860	± 160	100	mg/kg	E440.S/VA	16-Jul-2025	17-Jul-2025	2106801
Thallium	7440-28-0	0.0214	± 0.0027	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Tin	7440-31-5	<0.10	-	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Titanium	7440-32-6	1.60	-	0.25	mg/kg	E440.Ti/VA	16-Jul-2025	17-Jul-2025	2106800
Uranium	7440-61-1	0.0026	± 0.0009	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Vanadium	7440-62-2	<0.10	-	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zinc	7440-66-6	25.1	± 4.21	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zirconium	7440-67-7	<0.20	-	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797

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

Analytical Results

EO2505051-038

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

Client sample ID: 15867250618305
Client sampling date / time: [18-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	<0.25	-	0.25	%	E144/EO	-	20-Jun-2025	2065066
Polychlorinated Biphenyls									
Aroclor 1016	12674-11-2	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Aroclor 1221	11104-28-2	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Aroclor 1232	11141-16-5	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Aroclor 1242	53469-21-9	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Aroclor 1248	12672-29-6	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Aroclor 1254	11097-69-1	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Aroclor 1260	11096-82-5	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Aroclor 1262	37324-23-5	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Aroclor 1268	11100-14-4	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Polychlorinated biphenyls [PCBs], total	n/a	<0.010	-	0.010	mg/kg	E685/EO	23-Jun-2025	24-Jun-2025	2069790
Polychlorinated Biphenyls Surrogates									
Decachlorobiphenyl	2051-24-3	99.0	-	0.01	%	E685/EO	23-Jun-2025	24-Jun-2025	2069790

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

Analytical Results

EO2505051-039

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

Client sample ID: 15867250618306
Client sampling date / time: [18-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Sample Data									
Dummy analyte	----	NR	-	-	-	HOLD/EO	-	20-Jun-2025	-

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

Analytical Results

EO2505051-040

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250616201
Client sampling date / time: [16-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	83.3	± 2.87	0.50	%	E144/VA	-	07-Jul-2025	2093423
Metals									
Aluminum	7429-90-5	314	± 127	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Antimony	7440-36-0	0.054	± 0.009	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Arsenic	7440-38-2	0.253	± 0.045	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Barium	7440-39-3	5.39	± 2.08	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Boron	7440-42-8	1.3	± 0.4	1.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cadmium	7440-43-9	0.0216	± 0.0042	0.0050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Calcium	7440-70-2	172	± 86	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Chromium	7440-47-3	0.714	± 0.182	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cobalt	7440-48-4	0.198	± 0.043	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Copper	7440-50-8	1.75	± 0.28	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Iron	7439-89-6	369	± 93.2	3.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lead	7439-92-1	0.535	± 0.204	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Magnesium	7439-95-4	106	± 19.1	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Manganese	7439-96-5	22.2	± 6.52	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Mercury	7439-97-6	0.0410	± 0.0058	0.0050	mg/kg	E510/VA	16-Jul-2025	16-Jul-2025	2106799
Molybdenum	7439-98-7	0.414	± 0.067	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Nickel	7440-02-0	0.51	± 0.10	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Phosphorus	7723-14-0	188	± 41	10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Potassium	7440-09-7	218	± 30	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Selenium	7782-49-2	0.075	± 0.017	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Silver	7440-22-4	0.0068	± 0.0014	0.0050	mg/kg	E440.Ag/VA	16-Jul-2025	17-Jul-2025	2106798
Sodium	7440-23-5	27	± 5	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Strontium	7440-24-6	0.866	± 0.406	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Sulfur	7704-34-9	600	± 120	100	mg/kg	E440.S/VA	03-Oct-2025	09-Oct-2025	2257719
Thallium	7440-28-0	0.0028	± 0.0010	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Tin	7440-31-5	0.12	± 0.02	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Titanium	7440-32-6	11.0	-	0.25	mg/kg	E440.Ti/VA	16-Jul-2025	17-Jul-2025	2106800
Uranium	7440-61-1	0.0320	± 0.0114	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Vanadium	7440-62-2	0.62	± 0.14	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zinc	7440-66-6	5.40	± 0.97	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zirconium	7440-67-7	0.58	± 0.20	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797

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

Analytical Results

EO2505051-041

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250616202
Client sampling date / time: [16-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	87.8	± 3.02	0.50	%	E144/VA	-	07-Jul-2025	2093423
Metals									
Aluminum	7429-90-5	326	± 132	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Antimony	7440-36-0	0.060	± 0.010	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Arsenic	7440-38-2	0.255	± 0.045	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Barium	7440-39-3	5.99	± 2.31	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Boron	7440-42-8	<1.0	-	1.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cadmium	7440-43-9	0.0195	± 0.0038	0.0050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Calcium	7440-70-2	238	± 119	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Chromium	7440-47-3	0.732	± 0.187	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cobalt	7440-48-4	0.144	± 0.031	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Copper	7440-50-8	1.77	± 0.28	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Iron	7439-89-6	357	± 90.3	3.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lead	7439-92-1	0.554	± 0.211	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Magnesium	7439-95-4	112	± 20.1	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Manganese	7439-96-5	26.9	± 7.87	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Mercury	7439-97-6	0.0332	± 0.0047	0.0050	mg/kg	E510/VA	16-Jul-2025	16-Jul-2025	2106799
Molybdenum	7439-98-7	0.420	± 0.068	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Nickel	7440-02-0	0.50	± 0.10	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Phosphorus	7723-14-0	174	± 38	10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Potassium	7440-09-7	294	± 38	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Selenium	7782-49-2	0.079	± 0.018	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Silver	7440-22-4	0.0073	± 0.0015	0.0050	mg/kg	E440.Ag/VA	16-Jul-2025	17-Jul-2025	2106798
Sodium	7440-23-5	29	± 5	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Strontium	7440-24-6	0.887	± 0.416	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Sulfur	7704-34-9	560	± 120	100	mg/kg	E440.S/VA	03-Oct-2025	09-Oct-2025	2257719
Thallium	7440-28-0	0.0033	± 0.0010	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Tin	7440-31-5	0.20	± 0.03	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Titanium	7440-32-6	11.8	-	0.25	mg/kg	E440.Ti/VA	16-Jul-2025	17-Jul-2025	2106800
Uranium	7440-61-1	0.0328	± 0.0117	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Vanadium	7440-62-2	0.67	± 0.15	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zinc	7440-66-6	5.34	± 0.96	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zirconium	7440-67-7	0.60	± 0.21	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797

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

Analytical Results

EO2505051-042

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250616203
Client sampling date / time: [16-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	65.6	± 2.29	0.50	%	E144/VA	-	07-Jul-2025	2093423
Metals									
Aluminum	7429-90-5	316	± 128	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Antimony	7440-36-0	0.055	± 0.009	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Arsenic	7440-38-2	0.252	± 0.044	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Barium	7440-39-3	5.34	± 2.06	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Boron	7440-42-8	1.2	± 0.4	1.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cadmium	7440-43-9	0.0229	± 0.0044	0.0050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Calcium	7440-70-2	205	± 103	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Chromium	7440-47-3	0.680	± 0.174	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cobalt	7440-48-4	0.161	± 0.035	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Copper	7440-50-8	1.62	± 0.26	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Iron	7439-89-6	364	± 92.0	3.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lead	7439-92-1	0.618	± 0.236	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Magnesium	7439-95-4	106	± 19.0	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Manganese	7439-96-5	17.0	± 4.98	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Mercury	7439-97-6	0.0411	± 0.0058	0.0050	mg/kg	E510/VA	16-Jul-2025	16-Jul-2025	2106799
Molybdenum	7439-98-7	0.366	± 0.059	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Nickel	7440-02-0	0.56	± 0.12	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Phosphorus	7723-14-0	205	± 45	10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Potassium	7440-09-7	288	± 38	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Selenium	7782-49-2	0.078	± 0.018	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Silver	7440-22-4	0.0078	± 0.0016	0.0050	mg/kg	E440.Ag/VA	16-Jul-2025	17-Jul-2025	2106798
Sodium	7440-23-5	30	± 5	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Strontium	7440-24-6	0.904	± 0.424	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Sulfur	7704-34-9	560	± 120	100	mg/kg	E440.S/VA	03-Oct-2025	09-Oct-2025	2257719
Thallium	7440-28-0	0.0032	± 0.0010	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Tin	7440-31-5	<0.10	-	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Titanium	7440-32-6	11.2	-	0.25	mg/kg	E440.Ti/VA	16-Jul-2025	17-Jul-2025	2106800
Uranium	7440-61-1	0.0311	± 0.0111	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Vanadium	7440-62-2	0.64	± 0.14	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zinc	7440-66-6	5.36	± 0.96	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zirconium	7440-67-7	0.62	± 0.22	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797

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

Analytical Results

EO2505051-043

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250616204
Client sampling date / time: [16-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	87.1	± 3.00	0.50	%	E144/VA	-	07-Jul-2025	2093423
Metals									
Aluminum	7429-90-5	364	± 147	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Antimony	7440-36-0	0.059	± 0.009	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Arsenic	7440-38-2	0.271	± 0.048	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Barium	7440-39-3	7.48	± 2.88	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Boron	7440-42-8	1.3	± 0.4	1.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cadmium	7440-43-9	0.0351	± 0.0068	0.0050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Calcium	7440-70-2	399	± 198	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Chromium	7440-47-3	0.774	± 0.198	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cobalt	7440-48-4	0.191	± 0.041	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Copper	7440-50-8	1.94	± 0.30	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Iron	7439-89-6	412	± 104	3.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lead	7439-92-1	0.585	± 0.223	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Magnesium	7439-95-4	201	± 36.0	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Manganese	7439-96-5	75.0	± 22.0	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Mercury	7439-97-6	0.0448	± 0.0063	0.0050	mg/kg	E510/VA	16-Jul-2025	16-Jul-2025	2106799
Molybdenum	7439-98-7	0.386	± 0.062	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Nickel	7440-02-0	0.62	± 0.13	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Phosphorus	7723-14-0	226	± 49	10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Potassium	7440-09-7	629	± 78	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Selenium	7782-49-2	0.086	± 0.018	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Silver	7440-22-4	0.0086	± 0.0018	0.0050	mg/kg	E440.Ag/VA	16-Jul-2025	17-Jul-2025	2106798
Sodium	7440-23-5	32	± 5	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Strontium	7440-24-6	1.23	± 0.576	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Sulfur	7704-34-9	630	± 130	100	mg/kg	E440.S/VA	03-Oct-2025	09-Oct-2025	2257719
Thallium	7440-28-0	0.0038	± 0.0010	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Tin	7440-31-5	0.11	± 0.02	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Titanium	7440-32-6	12.2	-	0.25	mg/kg	E440.Ti/VA	16-Jul-2025	17-Jul-2025	2106800
Uranium	7440-61-1	0.0333	± 0.0119	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Vanadium	7440-62-2	0.73	± 0.16	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zinc	7440-66-6	8.71	± 1.50	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zirconium	7440-67-7	0.63	± 0.22	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797

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

Analytical Results

EO2505051-044

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250616205
Client sampling date / time: [16-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	86.2	± 2.97	0.50	%	E144/VA	-	07-Jul-2025	2093423
Metals									
Aluminum	7429-90-5	322	± 130	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Antimony	7440-36-0	0.049	± 0.008	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Arsenic	7440-38-2	0.251	± 0.044	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Barium	7440-39-3	6.33	± 2.44	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Boron	7440-42-8	<1.0	-	1.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cadmium	7440-43-9	0.0279	± 0.0054	0.0050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Calcium	7440-70-2	500	± 248	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Chromium	7440-47-3	0.731	± 0.187	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cobalt	7440-48-4	0.168	± 0.036	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Copper	7440-50-8	2.01	± 0.32	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Iron	7439-89-6	414	± 105	3.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lead	7439-92-1	0.572	± 0.218	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Magnesium	7439-95-4	206	± 36.9	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Manganese	7439-96-5	78.8	± 23.1	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Mercury	7439-97-6	0.0458	± 0.0064	0.0050	mg/kg	E510/VA	16-Jul-2025	16-Jul-2025	2106799
Molybdenum	7439-98-7	0.450	± 0.073	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Nickel	7440-02-0	0.55	± 0.11	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Phosphorus	7723-14-0	233	± 51	10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Potassium	7440-09-7	589	± 74	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Selenium	7782-49-2	0.081	± 0.018	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Silver	7440-22-4	0.0157	± 0.0032	0.0050	mg/kg	E440.Ag/VA	16-Jul-2025	17-Jul-2025	2106798
Sodium	7440-23-5	35	± 5	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Strontium	7440-24-6	1.25	± 0.586	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Sulfur	7704-34-9	670	± 130	100	mg/kg	E440.S/VA	03-Oct-2025	09-Oct-2025	2257719
Thallium	7440-28-0	0.0043	± 0.0011	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Tin	7440-31-5	<0.10	-	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Titanium	7440-32-6	11.3	-	0.25	mg/kg	E440.Ti/VA	16-Jul-2025	17-Jul-2025	2106800
Uranium	7440-61-1	0.0312	± 0.0111	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Vanadium	7440-62-2	0.65	± 0.14	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zinc	7440-66-6	7.84	± 1.36	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zirconium	7440-67-7	0.56	± 0.20	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797

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

Analytical Results

EO2505051-045

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250616206
Client sampling date / time: [16-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	79.4	± 2.75	0.50	%	E144/VA	-	07-Jul-2025	2093423
Metals									
Aluminum	7429-90-5	289	± 117	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Antimony	7440-36-0	0.052	± 0.008	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Arsenic	7440-38-2	0.249	± 0.044	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Barium	7440-39-3	5.16	± 1.99	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Boron	7440-42-8	<1.0	-	1.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cadmium	7440-43-9	0.0227	± 0.0044	0.0050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Calcium	7440-70-2	230	± 115	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Chromium	7440-47-3	0.712	± 0.182	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cobalt	7440-48-4	0.154	± 0.033	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Copper	7440-50-8	1.57	± 0.25	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Iron	7439-89-6	343	± 86.8	3.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lead	7439-92-1	0.550	± 0.210	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Magnesium	7439-95-4	91.5	± 16.5	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Manganese	7439-96-5	14.5	± 4.26	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Mercury	7439-97-6	0.0367	± 0.0052	0.0050	mg/kg	E510/VA	16-Jul-2025	16-Jul-2025	2106799
Molybdenum	7439-98-7	0.428	± 0.069	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Nickel	7440-02-0	0.50	± 0.10	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Phosphorus	7723-14-0	186	± 41	10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Potassium	7440-09-7	206	± 28	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Selenium	7782-49-2	0.076	± 0.017	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Silver	7440-22-4	0.0068	± 0.0014	0.0050	mg/kg	E440.Ag/VA	16-Jul-2025	17-Jul-2025	2106798
Sodium	7440-23-5	27	± 5	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Strontium	7440-24-6	0.834	± 0.391	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Sulfur	7704-34-9	580	± 120	100	mg/kg	E440.S/VA	03-Oct-2025	09-Oct-2025	2257719
Thallium	7440-28-0	0.0026	± 0.0010	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Tin	7440-31-5	<0.10	-	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Titanium	7440-32-6	10.8	-	0.25	mg/kg	E440.Ti/VA	16-Jul-2025	17-Jul-2025	2106800
Uranium	7440-61-1	0.0309	± 0.0110	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Vanadium	7440-62-2	0.61	± 0.13	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zinc	7440-66-6	5.03	± 0.91	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zirconium	7440-67-7	0.58	± 0.20	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797

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

Analytical Results

EO2505051-046

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250617207
Client sampling date / time: [17-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	71.8	± 2.49	0.50	%	E144/VA	-	07-Jul-2025	2093423
Metals									
Aluminum	7429-90-5	364	± 147	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Antimony	7440-36-0	0.063	± 0.010	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Arsenic	7440-38-2	0.239	± 0.042	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Barium	7440-39-3	8.74	± 3.37	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Beryllium	7440-41-7	0.010	± 0.002	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Boron	7440-42-8	<1.0	-	1.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cadmium	7440-43-9	0.0442	± 0.0085	0.0050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Calcium	7440-70-2	789	± 391	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Chromium	7440-47-3	0.684	± 0.175	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cobalt	7440-48-4	0.171	± 0.037	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Copper	7440-50-8	1.91	± 0.30	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Iron	7439-89-6	465	± 118	3.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lead	7439-92-1	0.788	± 0.300	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Magnesium	7439-95-4	228	± 40.9	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Manganese	7439-96-5	50.5	± 14.8	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Mercury	7439-97-6	0.0534	± 0.0075	0.0050	mg/kg	E510/VA	16-Jul-2025	16-Jul-2025	2106799
Molybdenum	7439-98-7	0.366	± 0.059	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Nickel	7440-02-0	0.64	± 0.13	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Phosphorus	7723-14-0	274	± 60	10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Potassium	7440-09-7	365	± 47	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Selenium	7782-49-2	0.086	± 0.018	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Silver	7440-22-4	0.0086	± 0.0018	0.0050	mg/kg	E440.Ag/VA	16-Jul-2025	17-Jul-2025	2106798
Sodium	7440-23-5	25	± 4	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Strontium	7440-24-6	2.33	± 1.09	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Sulfur	7704-34-9	580	± 120	100	mg/kg	E440.S/VA	03-Oct-2025	09-Oct-2025	2257719
Thallium	7440-28-0	0.0050	± 0.0011	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Tin	7440-31-5	4.47	± 0.76	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Titanium	7440-32-6	13.3	-	0.25	mg/kg	E440.Ti/VA	16-Jul-2025	17-Jul-2025	2106800
Uranium	7440-61-1	0.0361	± 0.0129	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Vanadium	7440-62-2	0.81	± 0.18	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zinc	7440-66-6	11.4	± 1.95	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zirconium	7440-67-7	0.67	± 0.24	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797

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

Analytical Results

EO2505051-047

Sub-Matrix: **Biota** (Matrix: **Biota**)

Client sample ID: 15867250617208

Client sampling date / time: [17-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	80.1	± 2.77	0.50	%	E144/VA	-	07-Jul-2025	2093423
Metals									
Aluminum	7429-90-5	563	± 227	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Antimony	7440-36-0	0.063	± 0.010	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Arsenic	7440-38-2	0.337	± 0.058	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Barium	7440-39-3	10.7	± 4.13	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Beryllium	7440-41-7	0.013	± 0.003	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Boron	7440-42-8	1.2	± 0.4	1.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cadmium	7440-43-9	0.0531	± 0.0102	0.0050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Calcium	7440-70-2	1050	± 518	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Chromium	7440-47-3	0.975	± 0.248	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cobalt	7440-48-4	0.208	± 0.045	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Copper	7440-50-8	2.33	± 0.36	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Iron	7439-89-6	581	± 147	3.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lead	7439-92-1	0.691	± 0.263	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Magnesium	7439-95-4	324	± 58.1	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Manganese	7439-96-5	148	± 43.5	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Mercury	7439-97-6	0.0714	± 0.0100	0.0050	mg/kg	E510/VA	16-Jul-2025	16-Jul-2025	2106799
Molybdenum	7439-98-7	0.490	± 0.079	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Nickel	7440-02-0	0.81	± 0.16	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Phosphorus	7723-14-0	350	± 76	10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Potassium	7440-09-7	530	± 67	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Selenium	7782-49-2	0.110	± 0.021	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Silver	7440-22-4	0.0141	± 0.0029	0.0050	mg/kg	E440.Ag/VA	16-Jul-2025	17-Jul-2025	2106798
Sodium	7440-23-5	30	± 5	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Strontium	7440-24-6	2.62	± 1.22	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Sulfur	7704-34-9	780	± 150	100	mg/kg	E440.S/VA	03-Oct-2025	09-Oct-2025	2257719
Thallium	7440-28-0	0.0069	± 0.0013	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Tin	7440-31-5	0.14	± 0.02	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Titanium	7440-32-6	19.4	-	0.25	mg/kg	E440.Ti/VA	16-Jul-2025	17-Jul-2025	2106800
Uranium	7440-61-1	0.0641	± 0.0229	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Vanadium	7440-62-2	1.20	± 0.26	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zinc	7440-66-6	12.3	± 2.09	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zirconium	7440-67-7	1.06	± 0.37	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797

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

Analytical Results

EO2505051-048

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250617209
Client sampling date / time: [17-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	11.0	± 0.58	0.50	%	E144/VA	-	07-Jul-2025	2093423
Metals									
Aluminum	7429-90-5	415	± 168	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Antimony	7440-36-0	0.188	± 0.027	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Arsenic	7440-38-2	0.459	± 0.077	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Barium	7440-39-3	9.34	± 3.60	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Beryllium	7440-41-7	0.011	± 0.003	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Boron	7440-42-8	1.4	± 0.4	1.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cadmium	7440-43-9	0.134	± 0.0258	0.0050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Calcium	7440-70-2	522	± 259	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Chromium	7440-47-3	1.08	± 0.275	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cobalt	7440-48-4	0.259	± 0.056	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Copper	7440-50-8	6.09	± 0.95	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Iron	7439-89-6	545	± 138	3.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lead	7439-92-1	3.54	± 1.35	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Magnesium	7439-95-4	182	± 32.7	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Manganese	7439-96-5	17.9	± 5.24	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Mercury	7439-97-6	0.0639	± 0.0090	0.0050	mg/kg	E510/VA	16-Jul-2025	16-Jul-2025	2106799
Molybdenum	7439-98-7	1.08	± 0.174	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Nickel	7440-02-0	0.90	± 0.18	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Phosphorus	7723-14-0	252	± 55	10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Potassium	7440-09-7	224	± 30	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Selenium	7782-49-2	0.096	± 0.019	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Silver	7440-22-4	0.0225	± 0.0046	0.0050	mg/kg	E440.Ag/VA	16-Jul-2025	17-Jul-2025	2106798
Sodium	7440-23-5	184	± 23	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Strontium	7440-24-6	1.92	± 0.898	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Sulfur	7704-34-9	670	± 130	100	mg/kg	E440.S/VA	03-Oct-2025	09-Oct-2025	2257719
Thallium	7440-28-0	0.0071	± 0.0013	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Tin	7440-31-5	0.38	± 0.06	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Titanium	7440-32-6	15.4	-	0.25	mg/kg	E440.Ti/VA	16-Jul-2025	17-Jul-2025	2106800
Uranium	7440-61-1	0.0429	± 0.0153	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Vanadium	7440-62-2	0.96	± 0.21	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zinc	7440-66-6	85.2	± 14.2	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zirconium	7440-67-7	0.84	± 0.30	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797

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

Analytical Results

EO2505051-049

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250617210
Client sampling date / time: [17-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	28.8	± 1.09	0.50	%	E144/VA	-	07-Jul-2025	2093423
Metals									
Aluminum	7429-90-5	704	± 285	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Antimony	7440-36-0	0.092	± 0.014	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Arsenic	7440-38-2	0.395	± 0.067	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Barium	7440-39-3	10.6	± 4.08	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Beryllium	7440-41-7	0.016	± 0.004	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Boron	7440-42-8	1.1	± 0.4	1.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cadmium	7440-43-9	0.0604	± 0.0116	0.0050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Calcium	7440-70-2	478	± 237	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Chromium	7440-47-3	1.42	± 0.361	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cobalt	7440-48-4	0.311	± 0.067	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Copper	7440-50-8	2.72	± 0.43	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Iron	7439-89-6	653	± 165	3.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lead	7439-92-1	1.75	± 0.666	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Magnesium	7439-95-4	175	± 31.5	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Manganese	7439-96-5	20.9	± 6.13	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Mercury	7439-97-6	0.0659	± 0.0092	0.0050	mg/kg	E510/VA	16-Jul-2025	16-Jul-2025	2106799
Molybdenum	7439-98-7	0.506	± 0.082	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Nickel	7440-02-0	0.86	± 0.17	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Phosphorus	7723-14-0	208	± 46	10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Potassium	7440-09-7	148	± 22	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Selenium	7782-49-2	0.098	± 0.020	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Silver	7440-22-4	0.0161	± 0.0033	0.0050	mg/kg	E440.Ag/VA	16-Jul-2025	17-Jul-2025	2106798
Sodium	7440-23-5	48	± 7	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Strontium	7440-24-6	1.95	± 0.914	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Sulfur	7704-34-9	680	± 130	100	mg/kg	E440.S/VA	03-Oct-2025	09-Oct-2025	2257719
Thallium	7440-28-0	0.0072	± 0.0013	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Tin	7440-31-5	0.48	± 0.08	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Titanium	7440-32-6	20.2	-	0.25	mg/kg	E440.Ti/VA	16-Jul-2025	17-Jul-2025	2106800
Uranium	7440-61-1	0.0677	± 0.0241	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Vanadium	7440-62-2	1.48	± 0.32	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zinc	7440-66-6	76.5	± 12.7	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zirconium	7440-67-7	1.37	± 0.48	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797

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

Analytical Results

EO2505051-050

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250617211
Client sampling date / time: [17-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	30.1	± 1.13	0.50	%	E144/VA	-	07-Jul-2025	2093423
Metals									
Aluminum	7429-90-5	290	± 117	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Antimony	7440-36-0	0.056	± 0.009	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Arsenic	7440-38-2	0.266	± 0.047	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Barium	7440-39-3	4.44	± 1.71	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Boron	7440-42-8	1.0	± 0.4	1.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cadmium	7440-43-9	0.0183	± 0.0036	0.0050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Calcium	7440-70-2	116	± 58	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Chromium	7440-47-3	0.673	± 0.172	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cobalt	7440-48-4	0.121	± 0.026	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Copper	7440-50-8	1.69	± 0.27	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Iron	7439-89-6	363	± 91.8	3.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lead	7439-92-1	0.803	± 0.306	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Magnesium	7439-95-4	65.2	± 11.8	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Manganese	7439-96-5	8.59	± 2.52	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Mercury	7439-97-6	0.0464	± 0.0065	0.0050	mg/kg	E510/VA	16-Jul-2025	16-Jul-2025	2106799
Molybdenum	7439-98-7	0.391	± 0.063	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Nickel	7440-02-0	0.46	± 0.10	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Phosphorus	7723-14-0	293	± 64	10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Potassium	7440-09-7	182	± 26	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Selenium	7782-49-2	0.074	± 0.017	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Silver	7440-22-4	0.0077	± 0.0016	0.0050	mg/kg	E440.Ag/VA	16-Jul-2025	17-Jul-2025	2106798
Sodium	7440-23-5	29	± 5	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Strontium	7440-24-6	0.626	± 0.294	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Sulfur	7704-34-9	620	± 130	100	mg/kg	E440.S/VA	03-Oct-2025	09-Oct-2025	2257719
Thallium	7440-28-0	0.0029	± 0.0010	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Tin	7440-31-5	0.20	± 0.04	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Titanium	7440-32-6	10.8	-	0.25	mg/kg	E440.Ti/VA	16-Jul-2025	17-Jul-2025	2106800
Uranium	7440-61-1	0.0326	± 0.0116	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Vanadium	7440-62-2	0.64	± 0.14	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zinc	7440-66-6	4.74	± 0.86	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zirconium	7440-67-7	0.55	± 0.19	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797

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

Analytical Results

EO2505051-051

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250617212
Client sampling date / time: [17-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	34.0	± 1.26	0.50	%	E144/VA	-	07-Jul-2025	2093423
Metals									
Aluminum	7429-90-5	356	± 144	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Antimony	7440-36-0	0.062	± 0.010	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Arsenic	7440-38-2	0.305	± 0.053	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Barium	7440-39-3	6.27	± 2.42	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Boron	7440-42-8	1.1	± 0.4	1.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cadmium	7440-43-9	0.0272	± 0.0053	0.0050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Calcium	7440-70-2	302	± 150	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Chromium	7440-47-3	0.830	± 0.212	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cobalt	7440-48-4	0.171	± 0.037	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Copper	7440-50-8	1.91	± 0.30	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Iron	7439-89-6	424	± 107	3.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lead	7439-92-1	0.818	± 0.312	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Magnesium	7439-95-4	118	± 21.1	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Manganese	7439-96-5	20.5	± 6.02	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Mercury	7439-97-6	0.0715	± 0.0100	0.0050	mg/kg	E510/VA	16-Jul-2025	16-Jul-2025	2106799
Molybdenum	7439-98-7	0.403	± 0.065	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Nickel	7440-02-0	0.62	± 0.13	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Phosphorus	7723-14-0	254	± 55	10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Potassium	7440-09-7	246	± 33	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Selenium	7782-49-2	0.083	± 0.018	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Silver	7440-22-4	0.0083	± 0.0017	0.0050	mg/kg	E440.Ag/VA	16-Jul-2025	17-Jul-2025	2106798
Sodium	7440-23-5	38	± 6	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Strontium	7440-24-6	1.08	± 0.509	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Sulfur	7704-34-9	580	± 120	100	mg/kg	E440.S/VA	03-Oct-2025	09-Oct-2025	2257719
Thallium	7440-28-0	0.0038	± 0.0011	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Tin	7440-31-5	0.18	± 0.03	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Titanium	7440-32-6	11.9	-	0.25	mg/kg	E440.Ti/VA	16-Jul-2025	17-Jul-2025	2106800
Uranium	7440-61-1	0.0374	± 0.0133	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Vanadium	7440-62-2	0.79	± 0.17	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zinc	7440-66-6	7.97	± 1.38	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zirconium	7440-67-7	0.63	± 0.22	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797

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

Analytical Results

EO2505051-052

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250617213
Client sampling date / time: [17-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	80.0	± 2.76	0.50	%	E144/VA	-	07-Jul-2025	2093423
Metals									
Aluminum	7429-90-5	338	± 136	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Antimony	7440-36-0	0.059	± 0.009	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Arsenic	7440-38-2	0.279	± 0.049	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Barium	7440-39-3	6.00	± 2.31	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Boron	7440-42-8	<1.0	-	1.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cadmium	7440-43-9	0.0343	± 0.0066	0.0050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Calcium	7440-70-2	677	± 336	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Chromium	7440-47-3	0.715	± 0.183	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cobalt	7440-48-4	0.173	± 0.037	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Copper	7440-50-8	1.81	± 0.28	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Iron	7439-89-6	386	± 97.6	3.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lead	7439-92-1	0.640	± 0.244	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Magnesium	7439-95-4	225	± 40.4	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Manganese	7439-96-5	95.5	± 28.0	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Mercury	7439-97-6	0.0511	± 0.0072	0.0050	mg/kg	E510/VA	16-Jul-2025	16-Jul-2025	2106799
Molybdenum	7439-98-7	0.392	± 0.064	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Nickel	7440-02-0	0.60	± 0.12	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Phosphorus	7723-14-0	205	± 45	10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Potassium	7440-09-7	299	± 39	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Selenium	7782-49-2	0.085	± 0.018	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Silver	7440-22-4	0.0084	± 0.0017	0.0050	mg/kg	E440.Ag/VA	16-Jul-2025	17-Jul-2025	2106798
Sodium	7440-23-5	41	± 6	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Strontium	7440-24-6	1.37	± 0.644	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Sulfur	7704-34-9	590	± 120	100	mg/kg	E440.S/VA	03-Oct-2025	09-Oct-2025	2257719
Thallium	7440-28-0	0.0043	± 0.0011	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Tin	7440-31-5	<0.10	-	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Titanium	7440-32-6	11.3	-	0.25	mg/kg	E440.Ti/VA	16-Jul-2025	17-Jul-2025	2106800
Uranium	7440-61-1	0.0348	± 0.0124	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Vanadium	7440-62-2	0.68	± 0.15	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zinc	7440-66-6	9.38	± 1.61	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zirconium	7440-67-7	0.58	± 0.20	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797

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

Analytical Results

EO2505051-053

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250617214
Client sampling date / time: [17-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	7.86	± 0.51	0.50	%	E144/VA	-	07-Jul-2025	2093423
Metals									
Aluminum	7429-90-5	348	± 140	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Antimony	7440-36-0	0.079	± 0.012	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Arsenic	7440-38-2	0.465	± 0.078	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Barium	7440-39-3	7.11	± 2.74	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Beryllium	7440-41-7	0.011	± 0.002	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Boron	7440-42-8	1.0	± 0.4	1.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cadmium	7440-43-9	0.0700	± 0.0135	0.0050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Calcium	7440-70-2	345	± 172	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Chromium	7440-47-3	1.00	± 0.255	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cobalt	7440-48-4	0.246	± 0.053	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Copper	7440-50-8	2.37	± 0.37	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Iron	7439-89-6	542	± 137	3.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lead	7439-92-1	1.39	± 0.531	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Magnesium	7439-95-4	128	± 23.1	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Manganese	7439-96-5	15.0	± 4.39	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Mercury	7439-97-6	0.0525	± 0.0074	0.0050	mg/kg	E510/VA	16-Jul-2025	16-Jul-2025	2106799
Molybdenum	7439-98-7	0.462	± 0.075	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Nickel	7440-02-0	0.77	± 0.16	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Phosphorus	7723-14-0	236	± 52	10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Potassium	7440-09-7	121	± 19	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Selenium	7782-49-2	0.083	± 0.018	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Silver	7440-22-4	0.0124	± 0.0025	0.0050	mg/kg	E440.Ag/VA	16-Jul-2025	17-Jul-2025	2106798
Sodium	7440-23-5	45	± 6	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Strontium	7440-24-6	1.28	± 0.598	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Sulfur	7704-34-9	580	± 120	100	mg/kg	E440.S/VA	03-Oct-2025	09-Oct-2025	2257719
Thallium	7440-28-0	0.0046	± 0.0011	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Tin	7440-31-5	0.16	± 0.03	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Titanium	7440-32-6	12.0	-	0.25	mg/kg	E440.Ti/VA	16-Jul-2025	17-Jul-2025	2106800
Uranium	7440-61-1	0.0408	± 0.0145	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Vanadium	7440-62-2	0.86	± 0.19	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zinc	7440-66-6	25.1	± 4.21	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zirconium	7440-67-7	0.68	± 0.24	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797

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

Analytical Results

EO2505051-054

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250617215
Client sampling date / time: [17-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	82.1	± 2.84	0.50	%	E144/VA	-	07-Jul-2025	2093423
Metals									
Aluminum	7429-90-5	306	± 124	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Antimony	7440-36-0	0.053	± 0.009	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Arsenic	7440-38-2	0.248	± 0.044	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Barium	7440-39-3	6.78	± 2.61	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Boron	7440-42-8	<1.0	-	1.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cadmium	7440-43-9	0.0344	± 0.0066	0.0050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Calcium	7440-70-2	475	± 236	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Chromium	7440-47-3	0.651	± 0.166	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cobalt	7440-48-4	0.195	± 0.042	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Copper	7440-50-8	2.09	± 0.33	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Iron	7439-89-6	347	± 87.6	3.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lead	7439-92-1	0.552	± 0.210	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Magnesium	7439-95-4	212	± 38.1	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Manganese	7439-96-5	46.3	± 13.6	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Mercury	7439-97-6	0.0444	± 0.0062	0.0050	mg/kg	E510/VA	16-Jul-2025	16-Jul-2025	2106799
Molybdenum	7439-98-7	0.360	± 0.058	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Nickel	7440-02-0	0.62	± 0.13	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Phosphorus	7723-14-0	213	± 47	10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Potassium	7440-09-7	411	± 52	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Selenium	7782-49-2	0.073	± 0.017	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Silver	7440-22-4	0.0070	± 0.0014	0.0050	mg/kg	E440.Ag/VA	16-Jul-2025	17-Jul-2025	2106798
Sodium	7440-23-5	28	± 5	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Strontium	7440-24-6	1.39	± 0.651	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Sulfur	7704-34-9	580	± 120	100	mg/kg	E440.S/VA	03-Oct-2025	09-Oct-2025	2257719
Thallium	7440-28-0	0.0042	± 0.0011	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Tin	7440-31-5	<0.10	-	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Titanium	7440-32-6	10.1	-	0.25	mg/kg	E440.Ti/VA	16-Jul-2025	17-Jul-2025	2106800
Uranium	7440-61-1	0.0310	± 0.0111	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Vanadium	7440-62-2	0.64	± 0.14	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zinc	7440-66-6	7.33	± 1.28	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zirconium	7440-67-7	0.50	± 0.18	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797

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

Analytical Results

EO2505051-055

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250617216
Client sampling date / time: [17-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	33.8	± 1.25	0.50	%	E144/VA	-	07-Jul-2025	2093423
Metals									
Aluminum	7429-90-5	270	± 109	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Antimony	7440-36-0	0.055	± 0.009	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Arsenic	7440-38-2	0.254	± 0.045	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Barium	7440-39-3	4.27	± 1.65	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Boron	7440-42-8	<1.0	-	1.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cadmium	7440-43-9	0.0178	± 0.0035	0.0050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Calcium	7440-70-2	141	± 71	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Chromium	7440-47-3	0.684	± 0.175	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cobalt	7440-48-4	0.133	± 0.029	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Copper	7440-50-8	1.58	± 0.25	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Iron	7439-89-6	337	± 85.3	3.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lead	7439-92-1	0.581	± 0.222	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Magnesium	7439-95-4	75.9	± 13.7	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Manganese	7439-96-5	15.0	± 4.39	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Mercury	7439-97-6	0.0401	± 0.0056	0.0050	mg/kg	E510/VA	16-Jul-2025	16-Jul-2025	2106799
Molybdenum	7439-98-7	0.453	± 0.073	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Nickel	7440-02-0	0.43	± 0.09	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Phosphorus	7723-14-0	176	± 38	10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Potassium	7440-09-7	135	± 20	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Selenium	7782-49-2	0.076	± 0.017	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Silver	7440-22-4	0.0069	± 0.0014	0.0050	mg/kg	E440.Ag/VA	16-Jul-2025	17-Jul-2025	2106798
Sodium	7440-23-5	21	± 4	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Strontium	7440-24-6	0.662	± 0.311	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Sulfur	7704-34-9	600	± 120	100	mg/kg	E440.S/VA	03-Oct-2025	09-Oct-2025	2257719
Thallium	7440-28-0	0.0028	± 0.0010	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Tin	7440-31-5	<0.10	-	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Titanium	7440-32-6	9.40	-	0.25	mg/kg	E440.Ti/VA	16-Jul-2025	17-Jul-2025	2106800
Uranium	7440-61-1	0.0306	± 0.0109	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Vanadium	7440-62-2	0.57	± 0.12	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zinc	7440-66-6	4.20	± 0.78	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zirconium	7440-67-7	0.56	± 0.20	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797

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

Analytical Results

EO2505051-056

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250618217
Client sampling date / time: [18-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	77.6	± 2.69	0.50	%	E144/VA	-	07-Jul-2025	2093423
Metals									
Aluminum	7429-90-5	314	± 127	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Antimony	7440-36-0	0.056	± 0.009	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Arsenic	7440-38-2	0.256	± 0.045	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Barium	7440-39-3	5.50	± 2.12	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Boron	7440-42-8	<1.0	-	1.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cadmium	7440-43-9	0.0240	± 0.0047	0.0050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Calcium	7440-70-2	246	± 123	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Chromium	7440-47-3	0.740	± 0.189	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cobalt	7440-48-4	0.167	± 0.036	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Copper	7440-50-8	1.73	± 0.27	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Iron	7439-89-6	383	± 96.8	3.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lead	7439-92-1	0.614	± 0.234	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Magnesium	7439-95-4	114	± 20.5	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Manganese	7439-96-5	27.1	± 7.96	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Mercury	7439-97-6	0.0412	± 0.0058	0.0050	mg/kg	E510/VA	16-Jul-2025	16-Jul-2025	2106799
Molybdenum	7439-98-7	0.381	± 0.062	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Nickel	7440-02-0	0.52	± 0.11	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Phosphorus	7723-14-0	195	± 43	10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Potassium	7440-09-7	230	± 31	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Selenium	7782-49-2	0.079	± 0.018	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Silver	7440-22-4	0.0075	± 0.0015	0.0050	mg/kg	E440.Ag/VA	16-Jul-2025	17-Jul-2025	2106798
Sodium	7440-23-5	24	± 4	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Strontium	7440-24-6	1.03	± 0.482	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Sulfur	7704-34-9	580	± 120	100	mg/kg	E440.S/VA	03-Oct-2025	09-Oct-2025	2257719
Thallium	7440-28-0	0.0031	± 0.0010	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Tin	7440-31-5	0.34	± 0.06	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Titanium	7440-32-6	9.47	-	0.25	mg/kg	E440.Ti/VA	16-Jul-2025	17-Jul-2025	2106800
Uranium	7440-61-1	0.0329	± 0.0117	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Vanadium	7440-62-2	0.68	± 0.15	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zinc	7440-66-6	6.06	± 1.07	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zirconium	7440-67-7	0.56	± 0.20	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797

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

Analytical Results

EO2505051-057

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250618218
Client sampling date / time: [18-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	73.9	± 2.56	0.50	%	E144/VA	-	07-Jul-2025	2093423
Metals									
Aluminum	7429-90-5	496	± 200	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Antimony	7440-36-0	0.065	± 0.010	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Arsenic	7440-38-2	0.316	± 0.055	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Barium	7440-39-3	18.1	± 6.96	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Beryllium	7440-41-7	0.014	± 0.003	0.010	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Boron	7440-42-8	2.8	± 0.6	1.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cadmium	7440-43-9	0.0781	± 0.0151	0.0050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Calcium	7440-70-2	2820	± 1400	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Chromium	7440-47-3	0.918	± 0.234	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Cobalt	7440-48-4	0.292	± 0.063	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Copper	7440-50-8	2.80	± 0.44	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Iron	7439-89-6	557	± 141	3.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lead	7439-92-1	0.799	± 0.304	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Magnesium	7439-95-4	846	± 152	2.0	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Manganese	7439-96-5	124	± 36.2	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Mercury	7439-97-6	0.0518	± 0.0073	0.0050	mg/kg	E510/VA	16-Jul-2025	16-Jul-2025	2106799
Molybdenum	7439-98-7	0.405	± 0.066	0.020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Nickel	7440-02-0	0.84	± 0.17	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Phosphorus	7723-14-0	394	± 86	10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Potassium	7440-09-7	1600	± 196	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Selenium	7782-49-2	0.092	± 0.019	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Silver	7440-22-4	0.0133	± 0.0027	0.0050	mg/kg	E440.Ag/VA	16-Jul-2025	17-Jul-2025	2106798
Sodium	7440-23-5	122	± 16	20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Strontium	7440-24-6	11.4	± 5.35	0.050	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Sulfur	7704-34-9	700	± 140	100	mg/kg	E440.S/VA	09-Oct-2025	09-Oct-2025	2268884
Thallium	7440-28-0	0.0059	± 0.0012	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Tin	7440-31-5	0.24	± 0.04	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Titanium	7440-32-6	16.3	-	0.25	mg/kg	E440.Ti/VA	16-Jul-2025	17-Jul-2025	2106800
Uranium	7440-61-1	0.0575	± 0.0205	0.0020	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Vanadium	7440-62-2	1.02	± 0.22	0.10	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zinc	7440-66-6	14.0	± 2.38	0.50	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797
Zirconium	7440-67-7	0.84	± 0.30	0.20	mg/kg	E440/VA	16-Jul-2025	17-Jul-2025	2106797

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

Analytical Results

EO2505051-058

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250618219
Client sampling date / time: [18-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	5.47	± 0.46	0.50	%	E144/VA	-	08-Jul-2025	2095532
Metals									
Aluminum	7429-90-5	237	± 95.8	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Antimony	7440-36-0	0.042	± 0.007	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Arsenic	7440-38-2	0.246	± 0.044	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Barium	7440-39-3	3.84	± 1.48	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Boron	7440-42-8	<1.0	-	1.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Cadmium	7440-43-9	0.0194	± 0.0038	0.0050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Calcium	7440-70-2	56	± 29	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Chromium	7440-47-3	0.602	± 0.154	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Cobalt	7440-48-4	0.162	± 0.035	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Copper	7440-50-8	1.52	± 0.24	0.10	mg/kg	E440/VA	15-Jul-2025	21-Jul-2025	2105328
Iron	7439-89-6	297	± 75.1	3.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Lead	7439-92-1	0.517	± 0.197	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Magnesium	7439-95-4	72.3	± 13.0	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Manganese	7439-96-5	10.2	± 3.00	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Mercury	7439-97-6	0.0340	± 0.0048	0.0050	mg/kg	E510/VA	15-Jul-2025	16-Jul-2025	2105330
Molybdenum	7439-98-7	0.624	± 0.101	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Nickel	7440-02-0	0.40	± 0.08	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Phosphorus	7723-14-0	394	± 86	10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Potassium	7440-09-7	37	± 12	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Selenium	7782-49-2	0.065	± 0.016	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Silver	7440-22-4	0.0054	± 0.0011	0.0050	mg/kg	E440.Ag/VA	15-Jul-2025	15-Jul-2025	2105329
Sodium	7440-23-5	30	± 5	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Strontium	7440-24-6	0.482	± 0.227	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Sulfur	7704-34-9	600	± 120	100	mg/kg	E440.S/VA	09-Oct-2025	09-Oct-2025	2268884
Thallium	7440-28-0	0.0021	± 0.0010	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Tin	7440-31-5	<0.10	-	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Titanium	7440-32-6	10.1	-	0.25	mg/kg	E440.Ti/VA	15-Jul-2025	15-Jul-2025	2105331
Uranium	7440-61-1	0.0265	± 0.0094	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Vanadium	7440-62-2	0.48	± 0.11	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Zinc	7440-66-6	5.06	± 0.91	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Zirconium	7440-67-7	<0.50 DLM	-	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328

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

Analytical Results

EO2505051-059

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250618220
Client sampling date / time: [18-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	6.10	± 0.47	0.50	%	E144/VA	-	08-Jul-2025	2095532
Metals									
Aluminum	7429-90-5	278	± 113	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Antimony	7440-36-0	0.049	± 0.008	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Arsenic	7440-38-2	0.269	± 0.047	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Barium	7440-39-3	4.15	± 1.60	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Boron	7440-42-8	<1.0	-	1.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Cadmium	7440-43-9	0.0160	± 0.0031	0.0050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Calcium	7440-70-2	63	± 33	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Chromium	7440-47-3	0.663	± 0.170	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Cobalt	7440-48-4	0.139	± 0.030	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Copper	7440-50-8	1.50	± 0.24	0.10	mg/kg	E440/VA	15-Jul-2025	21-Jul-2025	2105328
Iron	7439-89-6	326	± 82.6	3.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Lead	7439-92-1	0.537	± 0.205	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Magnesium	7439-95-4	61.4	± 11.1	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Manganese	7439-96-5	7.72	± 2.27	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Mercury	7439-97-6	0.0363	± 0.0051	0.0050	mg/kg	E510/VA	15-Jul-2025	16-Jul-2025	2105330
Molybdenum	7439-98-7	0.366	± 0.059	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Nickel	7440-02-0	0.45	± 0.09	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Phosphorus	7723-14-0	403	± 88	10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Potassium	7440-09-7	39	± 12	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Selenium	7782-49-2	0.076	± 0.017	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Silver	7440-22-4	0.0063	± 0.0013	0.0050	mg/kg	E440.Ag/VA	15-Jul-2025	15-Jul-2025	2105329
Sodium	7440-23-5	29	± 5	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Strontium	7440-24-6	0.472	± 0.222	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Sulfur	7704-34-9	620	± 130	100	mg/kg	E440.S/VA	03-Oct-2025	09-Oct-2025	2257719
Thallium	7440-28-0	0.0024	± 0.0010	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Tin	7440-31-5	0.14	± 0.02	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Titanium	7440-32-6	10.8	-	0.25	mg/kg	E440.Ti/VA	15-Jul-2025	15-Jul-2025	2105331
Uranium	7440-61-1	0.0313	± 0.0112	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Vanadium	7440-62-2	0.58	± 0.13	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Zinc	7440-66-6	5.43	± 0.97	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Zirconium	7440-67-7	0.49	± 0.17	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328

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

Analytical Results

EO2505051-060

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250618221
Client sampling date / time: [18-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	6.29	± 0.48	0.50	%	E144/VA	-	08-Jul-2025	2095532
Metals									
Aluminum	7429-90-5	253	± 102	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Antimony	7440-36-0	0.051	± 0.008	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Arsenic	7440-38-2	0.259	± 0.046	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Barium	7440-39-3	4.54	± 1.75	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Boron	7440-42-8	<1.0	-	1.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Cadmium	7440-43-9	0.0171	± 0.0033	0.0050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Calcium	7440-70-2	64	± 33	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Chromium	7440-47-3	0.622	± 0.159	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Cobalt	7440-48-4	0.151	± 0.033	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Copper	7440-50-8	1.48	± 0.23	0.10	mg/kg	E440/VA	15-Jul-2025	21-Jul-2025	2105328
Iron	7439-89-6	318	± 80.4	3.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Lead	7439-92-1	0.538	± 0.205	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Magnesium	7439-95-4	65.4	± 11.8	2.0	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Manganese	7439-96-5	8.57	± 2.52	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Mercury	7439-97-6	0.0364	± 0.0052	0.0050	mg/kg	E510/VA	15-Jul-2025	16-Jul-2025	2105330
Molybdenum	7439-98-7	0.376	± 0.061	0.020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Nickel	7440-02-0	0.42	± 0.09	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Phosphorus	7723-14-0	435	± 95	10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Potassium	7440-09-7	48	± 12	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Selenium	7782-49-2	0.066	± 0.016	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Silver	7440-22-4	0.0063	± 0.0013	0.0050	mg/kg	E440.Ag/VA	15-Jul-2025	15-Jul-2025	2105329
Sodium	7440-23-5	26	± 4	20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Strontium	7440-24-6	0.523	± 0.246	0.050	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Sulfur	7704-34-9	670	± 130	100	mg/kg	E440.S/VA	03-Oct-2025	09-Oct-2025	2257719
Thallium	7440-28-0	0.0023	± 0.0010	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Tin	7440-31-5	0.17	± 0.03	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Titanium	7440-32-6	10.0	-	0.25	mg/kg	E440.Ti/VA	15-Jul-2025	15-Jul-2025	2105331
Uranium	7440-61-1	0.0293	± 0.0105	0.0020	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Vanadium	7440-62-2	0.53	± 0.12	0.10	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Zinc	7440-66-6	5.47	± 0.98	0.50	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328
Zirconium	7440-67-7	0.46	± 0.16	0.20	mg/kg	E440/VA	15-Jul-2025	15-Jul-2025	2105328

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

Analytical Results

EO2505051-061

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250617007 Recheck
Client sampling date / time: [18-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	50.4	± 1.79	0.50	%	E144/VA	-	11-Sep-2025	2212574
Metals									
Aluminum	7429-90-5	475	± 192	2.0	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Antimony	7440-36-0	0.203	± 0.029	0.010	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Arsenic	7440-38-2	0.511	± 0.086	0.020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Barium	7440-39-3	55.3	± 21.3	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Beryllium	7440-41-7	0.017	± 0.004	0.010	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Boron	7440-42-8	5.4	± 1.0	1.0	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Cadmium	7440-43-9	0.283	± 0.0546	0.0050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Calcium	7440-70-2	7510	± 3710	20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Chromium	7440-47-3	1.32	± 0.335	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Cobalt	7440-48-4	0.484	± 0.105	0.020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Copper	7440-50-8	6.91	± 1.08	0.10	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Iron	7439-89-6	594	± 150	3.0	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Lead	7439-92-1	8.46	± 3.22	0.020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Magnesium	7439-95-4	1080	± 194	2.0	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Manganese	7439-96-5	858	± 251	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Molybdenum	7439-98-7	0.316	± 0.051	0.020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Nickel	7440-02-0	1.56	± 0.31	0.20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Phosphorus	7723-14-0	1090	± 236	10	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Potassium	7440-09-7	2450	± 300	20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Selenium	7782-49-2	0.107	± 0.021	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Silver	7440-22-4	0.0538	± 0.0110	0.0050	mg/kg	E440.Ag/VA	10-Sep-2025	10-Sep-2025	2210894
Sodium	7440-23-5	22	± 4	20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Strontium	7440-24-6	7.93	± 3.71	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Sulfur	7704-34-9	870	± 160	100	mg/kg	E440.S/VA	11-Sep-2025	16-Sep-2025	2213509
Thallium	7440-28-0	0.0226	± 0.0028	0.0020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Tin	7440-31-5	0.66	± 0.11	0.10	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Titanium	7440-32-6	17.0	-	0.25	mg/kg	E440.Ti/VA	10-Sep-2025	10-Sep-2025	2210896
Uranium	7440-61-1	0.0309	± 0.0110	0.0020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Vanadium	7440-62-2	1.18	± 0.26	0.10	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Zinc	7440-66-6	521	± 86.4	0.50	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Zirconium	7440-67-7	0.28	± 0.10	0.20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893

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

Analytical Results

EO2505051-062

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250617107 Recheck
Client sampling date / time: [18-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	46.2	± 1.65	0.50	%	E144/VA	-	11-Sep-2025	2212574
Metals									
Aluminum	7429-90-5	67.3	± 27.3	2.0	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Antimony	7440-36-0	<0.010	-	0.010	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Arsenic	7440-38-2	0.036	± 0.014	0.020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Barium	7440-39-3	131	± 50.5	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Boron	7440-42-8	22.0	± 3.8	1.0	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Cadmium	7440-43-9	0.0056	± 0.0012	0.0050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Calcium	7440-70-2	7150	± 3530	20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Chromium	7440-47-3	0.081	± 0.024	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Cobalt	7440-48-4	0.026	± 0.006	0.020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Copper	7440-50-8	3.23	± 0.50	0.10	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Iron	7439-89-6	76.6	± 19.5	3.0	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Lead	7439-92-1	0.102	± 0.040	0.020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Magnesium	7439-95-4	1460	± 261	2.0	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Manganese	7439-96-5	994	± 291	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Molybdenum	7439-98-7	0.030	± 0.005	0.020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Nickel	7440-02-0	0.73	± 0.15	0.20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Phosphorus	7723-14-0	1300	± 282	10	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Potassium	7440-09-7	4230	± 515	20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Selenium	7782-49-2	<0.050	-	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Silver	7440-22-4	<0.0050	-	0.0050	mg/kg	E440.Ag/VA	10-Sep-2025	10-Sep-2025	2210894
Sodium	7440-23-5	<20	-	20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Strontium	7440-24-6	6.02	± 2.82	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Sulfur	7704-34-9	990	± 180	100	mg/kg	E440.S/VA	12-Sep-2025	16-Sep-2025	2215360
Thallium	7440-28-0	0.0572	± 0.0066	0.0020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Tin	7440-31-5	<0.10	-	0.10	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Titanium	7440-32-6	1.24	-	0.25	mg/kg	E440.Ti/VA	10-Sep-2025	10-Sep-2025	2210896
Uranium	7440-61-1	<0.0020	-	0.0020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Vanadium	7440-62-2	<0.10	-	0.10	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Zinc	7440-66-6	27.6	± 4.63	0.50	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Zirconium	7440-67-7	<0.20	-	0.20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893

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

Analytical Results

EO2505051-063

Sub-Matrix: **Biota**
(Matrix: **Biota)**

Client sample ID: 15687250617008 Recheck
Client sampling date / time: [18-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	63.4	± 2.22	0.50	%	E144/VA	-	11-Sep-2025	2212574
Metals									
Aluminum	7429-90-5	376	± 152	2.0	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Antimony	7440-36-0	0.130	± 0.019	0.010	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Arsenic	7440-38-2	0.309	± 0.054	0.020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Barium	7440-39-3	33.8	± 13.0	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Beryllium	7440-41-7	0.016	± 0.004	0.010	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Boron	7440-42-8	5.3	± 1.0	1.0	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Cadmium	7440-43-9	0.163	± 0.0313	0.0050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Calcium	7440-70-2	5870	± 2900	20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Chromium	7440-47-3	0.884	± 0.225	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Cobalt	7440-48-4	0.219	± 0.047	0.020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Copper	7440-50-8	5.58	± 0.87	0.10	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Iron	7439-89-6	502	± 127	3.0	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Lead	7439-92-1	4.69	± 1.78	0.020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Magnesium	7439-95-4	1010	± 181	2.0	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Manganese	7439-96-5	825	± 242	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Molybdenum	7439-98-7	0.236	± 0.038	0.020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Nickel	7440-02-0	1.23	± 0.24	0.20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Phosphorus	7723-14-0	1250	± 272	10	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Potassium	7440-09-7	3660	± 446	20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Selenium	7782-49-2	0.089	± 0.019	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Silver	7440-22-4	0.0414	± 0.0085	0.0050	mg/kg	E440.Ag/VA	10-Sep-2025	10-Sep-2025	2210894
Sodium	7440-23-5	24	± 4	20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Strontium	7440-24-6	6.64	± 3.11	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Sulfur	7704-34-9	820	± 150	100	mg/kg	E440.S/VA	12-Sep-2025	16-Sep-2025	2215360
Thallium	7440-28-0	0.0195	± 0.0025	0.0020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Tin	7440-31-5	0.44	± 0.08	0.10	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Titanium	7440-32-6	13.1	-	0.25	mg/kg	E440.Ti/VA	10-Sep-2025	10-Sep-2025	2210896
Uranium	7440-61-1	0.0254	± 0.0090	0.0020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Vanadium	7440-62-2	1.00	± 0.22	0.10	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Zinc	7440-66-6	64.4	± 10.7	0.50	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Zirconium	7440-67-7	<0.20	-	0.20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893

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

Analytical Results

EO2505051-064

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250617009 Recheck
Client sampling date / time: [18-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	62.1	± 2.17	0.50	%	E144/VA	-	11-Sep-2025	2212574
Metals									
Aluminum	7429-90-5	279	± 113	2.0	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Antimony	7440-36-0	0.033	± 0.006	0.010	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Arsenic	7440-38-2	0.151	± 0.029	0.020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Barium	7440-39-3	74.4	± 28.7	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Beryllium	7440-41-7	0.011	± 0.002	0.010	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Boron	7440-42-8	7.1	± 1.3	1.0	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Cadmium	7440-43-9	0.150	± 0.0290	0.0050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Calcium	7440-70-2	8660	± 4270	20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Chromium	7440-47-3	0.486	± 0.125	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Cobalt	7440-48-4	0.247	± 0.053	0.020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Copper	7440-50-8	4.82	± 0.75	0.10	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Iron	7439-89-6	366	± 92.4	3.0	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Lead	7439-92-1	1.41	± 0.536	0.020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Magnesium	7439-95-4	873	± 156	2.0	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Manganese	7439-96-5	1270	± 373	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Molybdenum	7439-98-7	0.113	± 0.019	0.020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Nickel	7440-02-0	0.72	± 0.15	0.20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Phosphorus	7723-14-0	1370	± 298	10	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Potassium	7440-09-7	3080	± 376	20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Selenium	7782-49-2	0.072	± 0.017	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Silver	7440-22-4	0.0252	± 0.0051	0.0050	mg/kg	E440.Ag/VA	10-Sep-2025	10-Sep-2025	2210894
Sodium	7440-23-5	30	± 5	20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Strontium	7440-24-6	16.3	± 7.62	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Sulfur	7704-34-9	940	± 170	100	mg/kg	E440.S/VA	12-Sep-2025	16-Sep-2025	2215360
Thallium	7440-28-0	0.0149	± 0.0020	0.0020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Tin	7440-31-5	0.18	± 0.03	0.10	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Titanium	7440-32-6	6.59	-	0.25	mg/kg	E440.Ti/VA	10-Sep-2025	10-Sep-2025	2210896
Uranium	7440-61-1	0.0206	± 0.0074	0.0020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Vanadium	7440-62-2	0.69	± 0.15	0.10	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Zinc	7440-66-6	68.9	± 11.5	0.50	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Zirconium	7440-67-7	<0.20	-	0.20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893

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

Analytical Results

EO2505051-065

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250617109 Recheck
Client sampling date / time: [18-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	50.0	± 1.78	0.50	%	E144/VA	-	11-Sep-2025	2212574
Metals									
Aluminum	7429-90-5	77.8	± 31.6	2.0	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Antimony	7440-36-0	<0.010	-	0.010	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Arsenic	7440-38-2	0.038	± 0.014	0.020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Barium	7440-39-3	144	± 55.4	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Boron	7440-42-8	29.4	± 5.0	1.0	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Cadmium	7440-43-9	0.0071	± 0.0014	0.0050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Calcium	7440-70-2	8290	± 4090	20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Chromium	7440-47-3	0.097	± 0.028	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Cobalt	7440-48-4	0.027	± 0.006	0.020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Copper	7440-50-8	3.52	± 0.55	0.10	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Iron	7439-89-6	92.7	± 23.5	3.0	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Lead	7439-92-1	0.325	± 0.124	0.020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Magnesium	7439-95-4	1770	± 318	2.0	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Manganese	7439-96-5	1570	± 460	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Molybdenum	7439-98-7	0.024	± 0.005	0.020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Nickel	7440-02-0	0.32	± 0.07	0.20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Phosphorus	7723-14-0	1380	± 300	10	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Potassium	7440-09-7	4790	± 584	20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Selenium	7782-49-2	<0.050	-	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Silver	7440-22-4	<0.0050	-	0.0050	mg/kg	E440.Ag/VA	10-Sep-2025	10-Sep-2025	2210894
Sodium	7440-23-5	<20	-	20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Strontium	7440-24-6	10.1	± 4.73	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Sulfur	7704-34-9	1160	± 200	100	mg/kg	E440.S/VA	12-Sep-2025	16-Sep-2025	2215360
Thallium	7440-28-0	0.0080	± 0.0014	0.0020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Tin	7440-31-5	<0.10	-	0.10	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Titanium	7440-32-6	1.74	-	0.25	mg/kg	E440.Ti/VA	10-Sep-2025	10-Sep-2025	2210896
Uranium	7440-61-1	0.0025	± 0.0009	0.0020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Vanadium	7440-62-2	0.11	± 0.03	0.10	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Zinc	7440-66-6	34.4	± 5.75	0.50	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Zirconium	7440-67-7	<0.20	-	0.20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893

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

Analytical Results

EO2505051-066

Sub-Matrix: **Biota**
(Matrix: **Biota)**

Client sample ID: 15867250618010 Recheck
Client sampling date / time: [18-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	66.8	± 2.33	0.50	%	E144/VA	-	11-Sep-2025	2212574
Metals									
Aluminum	7429-90-5	293	± 118	2.0	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Antimony	7440-36-0	0.037	± 0.007	0.010	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Arsenic	7440-38-2	0.156	± 0.030	0.020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Barium	7440-39-3	95.6	± 36.8	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Beryllium	7440-41-7	0.013	± 0.003	0.010	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Boron	7440-42-8	9.4	± 1.7	1.0	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Cadmium	7440-43-9	0.300	± 0.0578	0.0050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Calcium	7440-70-2	10800	± 5320	20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Chromium	7440-47-3	0.455	± 0.117	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Cobalt	7440-48-4	0.362	± 0.078	0.020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Copper	7440-50-8	4.84	± 0.75	0.10	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Iron	7439-89-6	385	± 97.2	3.0	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Lead	7439-92-1	1.69	± 0.644	0.020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Magnesium	7439-95-4	1260	± 226	2.0	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Manganese	7439-96-5	1610	± 470	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Molybdenum	7439-98-7	0.115	± 0.019	0.020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Nickel	7440-02-0	1.16	± 0.23	0.20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Phosphorus	7723-14-0	1480	± 321	10	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Potassium	7440-09-7	3680	± 448	20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Selenium	7782-49-2	0.138	± 0.024	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Silver	7440-22-4	0.0395	± 0.0081	0.0050	mg/kg	E440.Ag/VA	10-Sep-2025	10-Sep-2025	2210894
Sodium	7440-23-5	48	± 7	20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Strontium	7440-24-6	19.4	± 9.10	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Sulfur	7704-34-9	1080	± 190	100	mg/kg	E440.S/VA	12-Sep-2025	16-Sep-2025	2215360
Thallium	7440-28-0	0.0176	± 0.0023	0.0020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Tin	7440-31-5	0.16	± 0.03	0.10	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Titanium	7440-32-6	7.39	-	0.25	mg/kg	E440.Ti/VA	10-Sep-2025	10-Sep-2025	2210896
Uranium	7440-61-1	0.0244	± 0.0087	0.0020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Vanadium	7440-62-2	0.76	± 0.17	0.10	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Zinc	7440-66-6	69.3	± 11.5	0.50	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Zirconium	7440-67-7	<0.20	-	0.20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893

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

Analytical Results

EO2505051-067

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250618110 Recheck
Client sampling date / time: [18-Jun-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	50.0	± 1.78	0.50	%	E144/VA	-	11-Sep-2025	2212574
Metals									
Aluminum	7429-90-5	69.6	± 28.3	2.0	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Antimony	7440-36-0	<0.010	-	0.010	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Arsenic	7440-38-2	0.038	± 0.014	0.020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Barium	7440-39-3	144	± 55.6	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Boron	7440-42-8	24.5	± 4.2	1.0	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Cadmium	7440-43-9	0.0072	± 0.0015	0.0050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Calcium	7440-70-2	7860	± 3880	20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Chromium	7440-47-3	0.093	± 0.027	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Cobalt	7440-48-4	0.026	± 0.006	0.020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Copper	7440-50-8	3.26	± 0.51	0.10	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Iron	7439-89-6	91.2	± 23.1	3.0	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Lead	7439-92-1	0.077	± 0.030	0.020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Magnesium	7439-95-4	1920	± 344	2.0	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Manganese	7439-96-5	1830	± 536	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Molybdenum	7439-98-7	<0.020	-	0.020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Nickel	7440-02-0	0.31	± 0.07	0.20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Phosphorus	7723-14-0	1280	± 278	10	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Potassium	7440-09-7	4160	± 507	20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Selenium	7782-49-2	<0.050	-	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Silver	7440-22-4	<0.0050	-	0.0050	mg/kg	E440.Ag/VA	10-Sep-2025	10-Sep-2025	2210894
Sodium	7440-23-5	<20	-	20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Strontium	7440-24-6	8.16	± 3.82	0.050	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Sulfur	7704-34-9	1040	± 180	100	mg/kg	E440.S/VA	11-Sep-2025	16-Sep-2025	2213509
Thallium	7440-28-0	0.0157	± 0.0021	0.0020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Tin	7440-31-5	<0.10	-	0.10	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Titanium	7440-32-6	1.59	-	0.25	mg/kg	E440.Ti/VA	10-Sep-2025	10-Sep-2025	2210896
Uranium	7440-61-1	0.0026	± 0.0009	0.0020	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Vanadium	7440-62-2	0.11	± 0.02	0.10	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Zinc	7440-66-6	32.3	± 5.39	0.50	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893
Zirconium	7440-67-7	<0.20	-	0.20	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893

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

Analytical Results

EO2505051-068

Sub-Matrix: **Biota**
(Matrix: **Biota)**

Client sample ID: 15867250618011 Recheck
Client sampling date / time: 10-Sep-2025

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	67.2	± 2.34	0.50	%	E144/VA	-	11-Sep-2025	2212574
Metals									
Aluminum	7429-90-5	437	± 177	2.0	mg/kg	E440/VA	11-Sep-2025	16-Sep-2025	2213510
Antimony	7440-36-0	0.036	± 0.007	0.010	mg/kg	E440/VA	11-Sep-2025	16-Sep-2025	2213510
Arsenic	7440-38-2	0.193	± 0.035	0.020	mg/kg	E440/VA	11-Sep-2025	16-Sep-2025	2213510
Barium	7440-39-3	111	± 42.8	0.050	mg/kg	E440/VA	11-Sep-2025	16-Sep-2025	2213510
Beryllium	7440-41-7	0.018	± 0.004	0.010	mg/kg	E440/VA	11-Sep-2025	16-Sep-2025	2213510
Boron	7440-42-8	5.8	± 1.1	1.0	mg/kg	E440/VA	11-Sep-2025	16-Sep-2025	2213510
Cadmium	7440-43-9	0.103	± 0.0198	0.0050	mg/kg	E440/VA	11-Sep-2025	16-Sep-2025	2213510
Calcium	7440-70-2	6730	± 3320	20	mg/kg	E440/VA	11-Sep-2025	16-Sep-2025	2213510
Chromium	7440-47-3	0.673	± 0.172	0.050	mg/kg	E440/VA	11-Sep-2025	16-Sep-2025	2213510
Cobalt	7440-48-4	0.320	± 0.069	0.020	mg/kg	E440/VA	11-Sep-2025	16-Sep-2025	2213510
Copper	7440-50-8	3.64	± 0.57	0.10	mg/kg	E440/VA	11-Sep-2025	16-Sep-2025	2213510
Iron	7439-89-6	583	± 147	3.0	mg/kg	E440/VA	11-Sep-2025	16-Sep-2025	2213510
Lead	7439-92-1	0.986	± 0.375	0.020	mg/kg	E440/VA	11-Sep-2025	16-Sep-2025	2213510
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	11-Sep-2025	16-Sep-2025	2213510
Magnesium	7439-95-4	1030	± 184	2.0	mg/kg	E440/VA	11-Sep-2025	16-Sep-2025	2213510
Manganese	7439-96-5	909	± 266	0.050	mg/kg	E440/VA	11-Sep-2025	16-Sep-2025	2213510
Molybdenum	7439-98-7	0.185	± 0.030	0.020	mg/kg	E440/VA	11-Sep-2025	16-Sep-2025	2213510
Nickel	7440-02-0	1.03	± 0.21	0.20	mg/kg	E440/VA	11-Sep-2025	16-Sep-2025	2213510
Phosphorus	7723-14-0	1230	± 267	10	mg/kg	E440/VA	11-Sep-2025	16-Sep-2025	2213510
Potassium	7440-09-7	3480	± 424	20	mg/kg	E440/VA	11-Sep-2025	16-Sep-2025	2213510
Selenium	7782-49-2	0.075	± 0.017	0.050	mg/kg	E440/VA	11-Sep-2025	16-Sep-2025	2213510
Sodium	7440-23-5	52	± 7	20	mg/kg	E440/VA	11-Sep-2025	16-Sep-2025	2213510
Strontium	7440-24-6	20.1	± 9.41	0.050	mg/kg	E440/VA	11-Sep-2025	16-Sep-2025	2213510
Thallium	7440-28-0	0.0128	± 0.0018	0.0020	mg/kg	E440/VA	11-Sep-2025	16-Sep-2025	2213510
Tin	7440-31-5	0.33	± 0.06	0.10	mg/kg	E440/VA	11-Sep-2025	16-Sep-2025	2213510
Titanium	7440-32-6	12.1	-	0.25	mg/kg	E440.Ti/VA	10-Sep-2025	10-Sep-2025	2210896
Uranium	7440-61-1	0.0349	± 0.0124	0.0020	mg/kg	E440/VA	11-Sep-2025	16-Sep-2025	2213510
Vanadium	7440-62-2	1.16	± 0.25	0.10	mg/kg	E440/VA	11-Sep-2025	16-Sep-2025	2213510
Zinc	7440-66-6	46.0	± 7.66	0.50	mg/kg	E440/VA	11-Sep-2025	16-Sep-2025	2213510
Zirconium	7440-67-7	0.29	± 0.10	0.20	mg/kg	E440/VA	11-Sep-2025	16-Sep-2025	2213510

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

Analytical Results

EO2505051-069

Sub-Matrix: **Biota**
(Matrix: **Biota)**

Client sample ID: 15867250616201 Recheck
Client sampling date / time: 10-Sep-2025

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	80.3	± 2.78	0.50	%	E144/VA	-	11-Sep-2025	2212574
Metals									
Zinc	7440-66-6	14.8	± 2.50	0.50	mg/kg	E440/VA	10-Sep-2025	10-Sep-2025	2210893

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

Analytical Results

EO2505051-070

Sub-Matrix: **Biota**
(Matrix: **Biota)**

Client sample ID: 15867250617006 Recheck
Client sampling date / time: [11-Sep-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	64.3	± 2.24	0.50	%	E144/VA	-	11-Sep-2025	2213573
Metals									
Mercury	7439-97-6	0.320	± 0.0445	0.0056	mg/kg	E510/VA	11-Sep-2025	15-Sep-2025	2213511

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

Analytical Results

EO2505051-071

Sub-Matrix: **Biota**
(Matrix: **Biota**)

Client sample ID: 15867250617212 Recheck
Client sampling date / time: [10-Oct-2025]

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	33.7	± 1.25	0.50	%	E144/VA	-	14-Oct-2025	2274823
Metals									
Aluminum	7429-90-5	332	± 134	2.0	mg/kg	E440/VA	11-Oct-2025	14-Oct-2025	2272024
Antimony	7440-36-0	0.065	± 0.010	0.010	mg/kg	E440/VA	11-Oct-2025	14-Oct-2025	2272024
Arsenic	7440-38-2	0.285	± 0.050	0.020	mg/kg	E440/VA	11-Oct-2025	14-Oct-2025	2272024
Barium	7440-39-3	7.92	± 3.05	0.050	mg/kg	E440/VA	11-Oct-2025	14-Oct-2025	2272024
Beryllium	7440-41-7	<0.010	-	0.010	mg/kg	E440/VA	11-Oct-2025	14-Oct-2025	2272024
Boron	7440-42-8	2.0	± 0.5	1.0	mg/kg	E440/VA	11-Oct-2025	14-Oct-2025	2272024
Cadmium	7440-43-9	0.0321	± 0.0062	0.0050	mg/kg	E440/VA	11-Oct-2025	14-Oct-2025	2272024
Calcium	7440-70-2	690	± 342	20	mg/kg	E440/VA	11-Oct-2025	14-Oct-2025	2272024
Chromium	7440-47-3	0.868	± 0.221	0.050	mg/kg	E440/VA	11-Oct-2025	14-Oct-2025	2272024
Cobalt	7440-48-4	0.170	± 0.037	0.020	mg/kg	E440/VA	11-Oct-2025	14-Oct-2025	2272024
Copper	7440-50-8	2.22	± 0.35	0.10	mg/kg	E440/VA	11-Oct-2025	14-Oct-2025	2272024
Iron	7439-89-6	400	± 101	3.0	mg/kg	E440/VA	11-Oct-2025	14-Oct-2025	2272024
Lead	7439-92-1	1.16	± 0.442	0.020	mg/kg	E440/VA	11-Oct-2025	14-Oct-2025	2272024
Lithium	7439-93-2	<0.50	-	0.50	mg/kg	E440/VA	11-Oct-2025	14-Oct-2025	2272024
Magnesium	7439-95-4	154	± 27.8	2.0	mg/kg	E440/VA	11-Oct-2025	14-Oct-2025	2272024
Manganese	7439-96-5	57.7	± 16.9	0.050	mg/kg	E440/VA	11-Oct-2025	14-Oct-2025	2272024
Mercury	7439-97-6	0.0580	± 0.0081	0.0050	mg/kg	E510/VA	11-Oct-2025	15-Oct-2025	2272025
Molybdenum	7439-98-7	0.370	± 0.060	0.020	mg/kg	E440/VA	11-Oct-2025	14-Oct-2025	2272024
Nickel	7440-02-0	0.65	± 0.13	0.20	mg/kg	E440/VA	11-Oct-2025	14-Oct-2025	2272024
Phosphorus	7723-14-0	320	± 70	10	mg/kg	E440/VA	11-Oct-2025	14-Oct-2025	2272024
Potassium	7440-09-7	322	± 42	20	mg/kg	E440/VA	11-Oct-2025	14-Oct-2025	2272024
Selenium	7782-49-2	0.080	± 0.018	0.050	mg/kg	E440/VA	11-Oct-2025	14-Oct-2025	2272024
Sodium	7440-23-5	37	± 6	20	mg/kg	E440/VA	11-Oct-2025	14-Oct-2025	2272024
Strontium	7440-24-6	1.39	± 0.652	0.050	mg/kg	E440/VA	11-Oct-2025	14-Oct-2025	2272024
Thallium	7440-28-0	0.0047	± 0.0011	0.0020	mg/kg	E440/VA	11-Oct-2025	14-Oct-2025	2272024
Tin	7440-31-5	0.20	± 0.04	0.10	mg/kg	E440/VA	11-Oct-2025	14-Oct-2025	2272024
Uranium	7440-61-1	0.0344	± 0.0123	0.0020	mg/kg	E440/VA	11-Oct-2025	14-Oct-2025	2272024
Vanadium	7440-62-2	0.74	± 0.16	0.10	mg/kg	E440/VA	11-Oct-2025	14-Oct-2025	2272024
Zinc	7440-66-6	10.9	± 1.86	0.50	mg/kg	E440/VA	11-Oct-2025	14-Oct-2025	2272024
Zirconium	7440-67-7	0.53	± 0.19	0.20	mg/kg	E440/VA	11-Oct-2025	14-Oct-2025	2272024

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

ALS Canada Ltd.

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QUALITY CONTROL REPORT

Work Order	: **EO2505051**	Page	: 1 of 31
Amendment	: **2**		
Client	: Montrose Environmental Solutions Canada Inc.	Laboratory	: ALS Environmental - Edmonton
Contact	: Lindsay Oiffer	Account Manager	: Kieran Tordoff
Address	: 13804 164 St NW Edmonton AB Canada T5V 0C8	Address	: 9450 - 17 Avenue NW Edmonton, Alberta Canada T6N 1M9
Telephone	: 780 989 8347	Telephone	: +1 780 413 5227
Project	: 15867-503	Date Samples Received	: 18-Jun-2025 14:45
PO	: PO-086285	Date Analysis Commenced	: 20-Jun-2025
C-O-C number	: 119878,119881,119879,119882	Issue Date	: 15-Oct-2025 12:39
Sampler	: LO/LZ		
Site	: Swan Hills Treatment Centre		
Quote number	: EO24-MSOI100-004 (Swan Hills Treatment Centre)		
No. of samples received	: 71		
No. of samples analysed	: 71		

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

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- 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
Physical Tests (QC Lot: 2092937)											
EO2505051-001	15867250616001	Moisture	----	E144	0.50	%	80.6	81.2	0.738%	20%	----
Physical Tests (QC Lot: 2093423)											
EO2505051-035	15867250618011	Moisture	----	E144	0.50	%	70.7	69.8	1.27%	20%	----
Physical Tests (QC Lot: 2095532)											
EO2505051-058	15867250618219	Moisture	----	E144	0.50	%	5.47	5.47	0.00%	20%	----
Physical Tests (QC Lot: 2212574)											
EO2505051-061	15867250617007 Recheck	Moisture	----	E144	0.50	%	50.4	50.8	0.926%	20%	----
Metals (QC Lot: 2105042)											
EO2505051-001	15867250616001	Aluminum	7429-90-5	E440	2.0	mg/kg	576	602	4.58%	40%	----
		Antimony	7440-36-0	E440	0.010	mg/kg	0.032	# 0.056	0.024	Diff <2x LOR	DUP-H,J
		Arsenic	7440-38-2	E440	0.020	mg/kg	0.154	0.154	0.202%	40%	----
		Barium	7440-39-3	E440	0.050	mg/kg	17.9	18.5	3.52%	40%	----
		Beryllium	7440-41-7	E440	0.010	mg/kg	0.017	0.018	0.001	Diff <2x LOR	----
		Boron	7440-42-8	E440	1.0	mg/kg	3.3	3.6	0.3	Diff <2x LOR	----
		Cadmium	7440-43-9	E440	0.0050	mg/kg	0.115	0.114	1.24%	40%	----
		Calcium	7440-70-2	E440	20	mg/kg	4900	5270	7.29%	60%	----
		Chromium	7440-47-3	E440	0.050	mg/kg	0.434	0.463	6.56%	40%	----
		Cobalt	7440-48-4	E440	0.020	mg/kg	0.242	0.245	1.10%	40%	----
		Copper	7440-50-8	E440	0.10	mg/kg	3.85	3.74	2.96%	40%	----
		Iron	7439-89-6	E440	3.0	mg/kg	373	374	0.356%	40%	----
		Lead	7439-92-1	E440	0.020	mg/kg	0.571	0.578	1.18%	40%	----
		Lithium	7439-93-2	E440	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----
		Magnesium	7439-95-4	E440	2.0	mg/kg	792	770	2.85%	40%	----
		Manganese	7439-96-5	E440	0.050	mg/kg	981	1020	3.64%	40%	----
		Molybdenum	7439-98-7	E440	0.020	mg/kg	0.069	0.072	0.002	Diff <2x LOR	----
		Nickel	7440-02-0	E440	0.20	mg/kg	1.33	1.36	1.62%	40%	----
		Phosphorus	7723-14-0	E440	10	mg/kg	1340	1290	3.93%	40%	----
		Potassium	7440-09-7	E440	20	mg/kg	4020	3810	5.40%	40%	----
		Selenium	7782-49-2	E440	0.050	mg/kg	0.079	0.078	0.001	Diff <2x LOR	----
		Sodium	7440-23-5	E440	20	mg/kg	34	35	2	Diff <2x LOR	----

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*
Metals (QC Lot: 2105042) - continued											
EO2505051-001	15867250616001	Strontium	7440-24-6	E440	0.050	mg/kg	5.19	5.44	4.71%	60%	----
		Thallium	7440-28-0	E440	0.0020	mg/kg	0.0265	0.0261	1.50%	40%	----
		Tin	7440-31-5	E440	0.10	mg/kg	0.28	0.31	0.02	Diff <2x LOR	----
		Uranium	7440-61-1	E440	0.0020	mg/kg	0.0198	0.0201	1.57%	40%	----
		Vanadium	7440-62-2	E440	0.10	mg/kg	0.75	0.79	4.70%	40%	----
		Zinc	7440-66-6	E440	0.50	mg/kg	49.6	52.8	6.20%	40%	----
		Zirconium	7440-67-7	E440	0.20	mg/kg	0.31	0.34	0.03	Diff <2x LOR	----
Metals (QC Lot: 2105043)											
EO2505051-001	15867250616001	Mercury	7439-97-6	E510	0.0050	mg/kg	0.0850	0.0876	3.02%	40%	----
Metals (QC Lot: 2105044)											
EO2505051-001	15867250616001	Titanium	7440-32-6	E440.Ti	0.25	mg/kg	10.7	11.0	3.29%	40%	----
Metals (QC Lot: 2105045)											
EO2505051-001	15867250616001	Sulfur	7704-34-9	E440.S	100	mg/kg	890	870	1.60%	40%	----
Metals (QC Lot: 2105046)											
EO2505051-001	15867250616001	Silver	7440-22-4	E440.Ag	0.0050	mg/kg	0.0528	0.0368	35.8%	40%	----
Metals (QC Lot: 2105328)											
EO2505051-021	15867250617007	Copper	7440-50-8	E440	0.10	mg/kg	1.33	1.29	3.24%	40%	----
EO2505051-021	15867250617007	Aluminum	7429-90-5	E440	2.0	mg/kg	74.7	81.6	8.85%	40%	----
		Antimony	7440-36-0	E440	0.010	mg/kg	0.023	0.028	0.005	Diff <2x LOR	----
		Arsenic	7440-38-2	E440	0.020	mg/kg	0.066	0.066	0.0002	Diff <2x LOR	----
		Barium	7440-39-3	E440	0.050	mg/kg	6.38	6.72	5.23%	40%	----
		Beryllium	7440-41-7	E440	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	----
		Boron	7440-42-8	E440	1.0	mg/kg	1.5	1.4	0.1	Diff <2x LOR	----
		Cadmium	7440-43-9	E440	0.0050	mg/kg	0.0351	0.0386	9.69%	40%	----
		Calcium	7440-70-2	E440	20	mg/kg	1690	1660	1.79%	60%	----
		Chromium	7440-47-3	E440	0.050	mg/kg	0.161	0.184	0.023	Diff <2x LOR	----
		Cobalt	7440-48-4	E440	0.020	mg/kg	0.048	0.051	0.003	Diff <2x LOR	----
		Iron	7439-89-6	E440	3.0	mg/kg	104	113	8.20%	40%	----
		Lead	7439-92-1	E440	0.020	mg/kg	0.903	1.10	19.4%	40%	----
		Lithium	7439-93-2	E440	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----
		Magnesium	7439-95-4	E440	2.0	mg/kg	214	208	2.46%	40%	----
		Manganese	7439-96-5	E440	0.050	mg/kg	226	226	0.0646%	40%	----
		Molybdenum	7439-98-7	E440	0.020	mg/kg	0.041	0.047	0.005	Diff <2x LOR	----
		Nickel	7440-02-0	E440	0.20	mg/kg	0.24	0.29	0.04	Diff <2x LOR	----

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*
Metals (QC Lot: 2105328) - continued											
EO2505051-021	15867250617007	Phosphorus	7723-14-0	E440	10	mg/kg	298	297	0.180%	40%	----
		Potassium	7440-09-7	E440	20	mg/kg	965	1000	3.58%	40%	----
		Selenium	7782-49-2	E440	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Sodium	7440-23-5	E440	20	mg/kg	<20	<20	0	Diff <2x LOR	----
		Strontium	7440-24-6	E440	0.050	mg/kg	1.60	1.66	3.77%	60%	----
		Thallium	7440-28-0	E440	0.0020	mg/kg	0.0042	0.0044	0.0002	Diff <2x LOR	----
		Tin	7440-31-5	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Uranium	7440-61-1	E440	0.0020	mg/kg	0.0058	0.0059	0.0002	Diff <2x LOR	----
		Vanadium	7440-62-2	E440	0.10	mg/kg	0.20	0.21	0.02	Diff <2x LOR	----
		Zinc	7440-66-6	E440	0.50	mg/kg	18.9	19.5	3.33%	40%	----
		Zirconium	7440-67-7	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	----
Metals (QC Lot: 2105329)											
EO2505051-021	15867250617007	Silver	7440-22-4	E440.Ag	0.0050	mg/kg	0.0112	0.0133	0.0021	Diff <2x LOR	----
Metals (QC Lot: 2105330)											
EO2505051-021	15867250617007	Mercury	7439-97-6	E510	0.0050	mg/kg	0.0396	0.0474	17.8%	40%	----
Metals (QC Lot: 2105331)											
EO2505051-021	15867250617007	Titanium	7440-32-6	E440.Ti	0.25	mg/kg	3.05	3.63	17.2%	40%	----
Metals (QC Lot: 2105332)											
EO2505051-021	15867250617007	Sulfur	7704-34-9	E440.S	100	mg/kg	200	200	2	Diff <2x LOR	----
Metals (QC Lot: 2106797)											
EO2505051-035	15867250618011	Aluminum	7429-90-5	E440	2.0	mg/kg	496	439	12.3%	40%	----
		Antimony	7440-36-0	E440	0.010	mg/kg	0.038	0.033	0.005	Diff <2x LOR	----
		Arsenic	7440-38-2	E440	0.020	mg/kg	0.198	0.189	4.59%	40%	----
		Barium	7440-39-3	E440	0.050	mg/kg	85.6	81.3	5.23%	40%	----
		Beryllium	7440-41-7	E440	0.010	mg/kg	0.022	0.021	0.001	Diff <2x LOR	----
		Boron	7440-42-8	E440	1.0	mg/kg	7.0	7.1	1.94%	40%	----
		Cadmium	7440-43-9	E440	0.0050	mg/kg	0.161	0.152	5.88%	40%	----
		Calcium	7440-70-2	E440	20	mg/kg	7540	7240	3.96%	60%	----
		Chromium	7440-47-3	E440	0.050	mg/kg	0.747	0.664	11.7%	40%	----
		Cobalt	7440-48-4	E440	0.020	mg/kg	0.378	0.366	3.41%	40%	----
		Copper	7440-50-8	E440	0.10	mg/kg	3.69	3.62	1.76%	40%	----
		Iron	7439-89-6	E440	3.0	mg/kg	611	544	11.5%	40%	----
		Lead	7439-92-1	E440	0.020	mg/kg	1.06	0.996	6.29%	40%	----
		Lithium	7439-93-2	E440	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----

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*
Metals (QC Lot: 2106797) - continued											
EO2505051-035	15867250618011	Magnesium	7439-95-4	E440	2.0	mg/kg	989	975	1.40%	40%	----
		Manganese	7439-96-5	E440	0.050	mg/kg	977	926	5.39%	40%	----
		Molybdenum	7439-98-7	E440	0.020	mg/kg	0.181	0.177	2.10%	40%	----
		Nickel	7440-02-0	E440	0.20	mg/kg	1.07	0.98	8.24%	40%	----
		Phosphorus	7723-14-0	E440	10	mg/kg	1220	1250	3.16%	40%	----
		Potassium	7440-09-7	E440	20	mg/kg	3450	3500	1.48%	40%	----
		Selenium	7782-49-2	E440	0.050	mg/kg	0.096	0.094	0.002	Diff <2x LOR	----
		Sodium	7440-23-5	E440	20	mg/kg	65	65	0.03	Diff <2x LOR	----
		Strontium	7440-24-6	E440	0.050	mg/kg	24.0	24.0	0.243%	60%	----
		Thallium	7440-28-0	E440	0.0020	mg/kg	0.0127	0.0119	6.10%	40%	----
		Tin	7440-31-5	E440	0.10	mg/kg	0.35	0.35	0.0006	Diff <2x LOR	----
		Uranium	7440-61-1	E440	0.0020	mg/kg	0.0410	0.0381	7.31%	40%	----
		Vanadium	7440-62-2	E440	0.10	mg/kg	1.21	1.08	11.6%	40%	----
		Zinc	7440-66-6	E440	0.50	mg/kg	42.9	41.6	3.13%	40%	----
		Zirconium	7440-67-7	E440	0.20	mg/kg	0.53	0.44	0.08	Diff <2x LOR	----
Metals (QC Lot: 2106798)											
EO2505051-035	15867250618011	Silver	7440-22-4	E440.Ag	0.0050	mg/kg	0.0267	0.0269	0.761%	40%	----
Metals (QC Lot: 2106799)											
EO2505051-035	15867250618011	Mercury	7439-97-6	E510	0.0050	mg/kg	0.0694	0.0640	8.07%	40%	----
Metals (QC Lot: 2106800)											
EO2505051-035	15867250618011	Titanium	7440-32-6	E440.Ti	0.25	mg/kg	13.7	11.3	19.7%	40%	----
Metals (QC Lot: 2106801)											
EO2505051-035	15867250618011	Sulfur	7704-34-9	E440.S	100	mg/kg	1000	990	1.14%	40%	----
Metals (QC Lot: 2210893)											
EO2505051-061	15867250617007 Recheck	Aluminum	7429-90-5	E440	2.0	mg/kg	475	460	3.26%	40%	----
		Antimony	7440-36-0	E440	0.010	mg/kg	0.203	0.196	3.56%	40%	----
		Arsenic	7440-38-2	E440	0.020	mg/kg	0.511	0.444	14.0%	40%	----
		Barium	7440-39-3	E440	0.050	mg/kg	55.3	53.1	4.02%	40%	----
		Beryllium	7440-41-7	E440	0.010	mg/kg	0.017	0.017	0.00008	Diff <2x LOR	----
		Boron	7440-42-8	E440	1.0	mg/kg	5.4	5.0	7.15%	40%	----
		Cadmium	7440-43-9	E440	0.0050	mg/kg	0.283	0.284	0.450%	40%	----
		Calcium	7440-70-2	E440	20	mg/kg	7510	7400	1.41%	60%	----
		Chromium	7440-47-3	E440	0.050	mg/kg	1.32	1.24	5.81%	40%	----
		Cobalt	7440-48-4	E440	0.020	mg/kg	0.484	0.479	0.994%	40%	----

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*
Metals (QC Lot: 2210893) - continued											
EO2505051-061	15867250617007 Recheck	Copper	7440-50-8	E440	0.10	mg/kg	6.91	6.83	1.22%	40%	----
		Iron	7439-89-6	E440	3.0	mg/kg	594	580	2.34%	40%	----
		Lead	7439-92-1	E440	0.020	mg/kg	8.46	8.60	1.63%	40%	----
		Lithium	7439-93-2	E440	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----
		Magnesium	7439-95-4	E440	2.0	mg/kg	1080	1030	4.94%	40%	----
		Manganese	7439-96-5	E440	0.050	mg/kg	858	818	4.72%	40%	----
		Molybdenum	7439-98-7	E440	0.020	mg/kg	0.316	0.331	4.86%	40%	----
		Nickel	7440-02-0	E440	0.20	mg/kg	1.56	1.76	12.1%	40%	----
		Phosphorus	7723-14-0	E440	10	mg/kg	1090	1100	1.33%	40%	----
		Potassium	7440-09-7	E440	20	mg/kg	2450	2420	1.48%	40%	----
		Selenium	7782-49-2	E440	0.050	mg/kg	0.107	0.107	0.0003	Diff <2x LOR	----
		Sodium	7440-23-5	E440	20	mg/kg	22	24	1	Diff <2x LOR	----
		Strontium	7440-24-6	E440	0.050	mg/kg	7.93	7.49	5.64%	60%	----
		Thallium	7440-28-0	E440	0.0020	mg/kg	0.0226	0.0223	1.32%	40%	----
		Tin	7440-31-5	E440	0.10	mg/kg	0.66	0.62	7.39%	40%	----
		Uranium	7440-61-1	E440	0.0020	mg/kg	0.0309	0.0293	5.06%	40%	----
		Vanadium	7440-62-2	E440	0.10	mg/kg	1.18	1.14	3.48%	40%	----
		Zinc	7440-66-6	E440	0.50	mg/kg	521	547	4.77%	40%	----
		Zirconium	7440-67-7	E440	0.20	mg/kg	0.28	<0.20	0.08	Diff <2x LOR	----
Metals (QC Lot: 2210894)											
EO2505051-061	15867250617007 Recheck	Silver	7440-22-4	E440.Ag	0.0050	mg/kg	0.0538	0.0560	4.10%	40%	----
Metals (QC Lot: 2210896)											
EO2505051-061	15867250617007 Recheck	Titanium	7440-32-6	E440.Ti	0.25	mg/kg	17.0	16.8	1.58%	40%	----
Metals (QC Lot: 2213509)											
EO2505051-061	15867250617007 Recheck	Sulfur	7704-34-9	E440.S	100	mg/kg	870	860	1.69%	40%	----
Metals (QC Lot: 2213510)											
EO2505051-068	15867250618011 Recheck	Aluminum	7429-90-5	E440	2.0	mg/kg	437	369	16.8%	40%	----
		Antimony	7440-36-0	E440	0.010	mg/kg	0.036	0.032	0.004	Diff <2x LOR	----
		Arsenic	7440-38-2	E440	0.020	mg/kg	0.193	0.175	9.42%	40%	----
		Barium	7440-39-3	E440	0.050	mg/kg	111	108	2.50%	40%	----
		Beryllium	7440-41-7	E440	0.010	mg/kg	0.018	0.017	0.002	Diff <2x LOR	----
		Boron	7440-42-8	E440	1.0	mg/kg	5.8	5.2	12.2%	40%	----
		Cadmium	7440-43-9	E440	0.0050	mg/kg	0.103	0.0991	3.62%	40%	----
		Calcium	7440-70-2	E440	20	mg/kg	6730	6730	0.0267%	60%	----

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*
Metals (QC Lot: 2213510) - continued											
EO2505051-068	15867250618011 Recheck	Chromium	7440-47-3	E440	0.050	mg/kg	0.673	0.563	17.9%	40%	----
		Cobalt	7440-48-4	E440	0.020	mg/kg	0.320	0.302	5.83%	40%	----
		Copper	7440-50-8	E440	0.10	mg/kg	3.64	3.46	4.98%	40%	----
		Iron	7439-89-6	E440	3.0	mg/kg	583	520	11.5%	40%	----
		Lead	7439-92-1	E440	0.020	mg/kg	0.986	0.958	2.88%	40%	----
		Lithium	7439-93-2	E440	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----
		Magnesium	7439-95-4	E440	2.0	mg/kg	1030	990	3.78%	40%	----
		Manganese	7439-96-5	E440	0.050	mg/kg	909	908	0.101%	40%	----
		Molybdenum	7439-98-7	E440	0.020	mg/kg	0.185	0.160	14.8%	40%	----
		Nickel	7440-02-0	E440	0.20	mg/kg	1.03	0.95	0.08	Diff <2x LOR	----
		Phosphorus	7723-14-0	E440	10	mg/kg	1230	1220	1.03%	40%	----
		Potassium	7440-09-7	E440	20	mg/kg	3480	3530	1.51%	40%	----
		Selenium	7782-49-2	E440	0.050	mg/kg	0.075	0.070	0.005	Diff <2x LOR	----
		Sodium	7440-23-5	E440	20	mg/kg	52	49	3	Diff <2x LOR	----
		Strontium	7440-24-6	E440	0.050	mg/kg	20.1	19.6	2.63%	60%	----
		Thallium	7440-28-0	E440	0.0020	mg/kg	0.0128	0.0124	3.81%	40%	----
		Tin	7440-31-5	E440	0.10	mg/kg	0.33	0.37	0.04	Diff <2x LOR	----
		Uranium	7440-61-1	E440	0.0020	mg/kg	0.0349	0.0300	15.1%	40%	----
		Vanadium	7440-62-2	E440	0.10	mg/kg	1.16	0.99	16.3%	40%	----
		Zinc	7440-66-6	E440	0.50	mg/kg	46.0	44.4	3.55%	40%	----
		Zirconium	7440-67-7	E440	0.20	mg/kg	0.29	0.23	0.06	Diff <2x LOR	----
Metals (QC Lot: 2213511)											
EO2505051-070	15867250617006 Recheck	Mercury	7439-97-6	E510	0.0058	mg/kg	0.320	0.338	5.38%	40%	----
Metals (QC Lot: 2215360)											
EO2505051-062	15867250617107 Recheck	Sulfur	7704-34-9	E440.S	100	mg/kg	990	1010	2.37%	40%	----

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Physical Tests (QC Lot: 2064372)											
EO2504915-036	Anonymous	Moisture	----	E144	0.25	%	15.9	15.6	2.17%	20%	----
Physical Tests (QC Lot: 2065066)											
EO2504762-089	Anonymous	Moisture	----	E144	0.25	%	15.1	14.7	2.63%	20%	----
Saturated Paste Extractables (QC Lot: 2077472)											
EO2505051-002	15867250616001	Conductivity, saturated paste	----	E102	20	µS/cm	0.114 dS/m	109	5	Diff <2x LOR	----

Sub-Matrix: **Soil/Solid**

					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*
Saturated Paste Extractables (QC Lot: 2077473)											
EO2505051-002	15867250616001	pH, saturated paste	----	E114	0.10	pH units	5.06	4.93	2.60%	5%	----
Saturated Paste Extractables (QC Lot: 2077474)											
EO2505051-002	15867250616001	% Saturation	----	E141	1.0	%	1300	1130	13.5%	20%	----
Polychlorinated Biphenyls (QC Lot: 2069790)											
CG2507609-001	Anonymous	Aroclor 1016	12674-11-2	E685	0.761	mg/kg	<0.764	<0.761	0.003	Diff <2x LOR	----
		Aroclor 1221	11104-28-2	E685	0.761	mg/kg	<0.764	<0.761	0.003	Diff <2x LOR	----
		Aroclor 1232	11141-16-5	E685	0.761	mg/kg	<0.764	<0.761	0.003	Diff <2x LOR	----
		Aroclor 1242	53469-21-9	E685	0.761	mg/kg	12.0	11.7	2.30%	40%	----
		Aroclor 1248	12672-29-6	E685	0.761	mg/kg	<0.764	<0.761	0.003	Diff <2x LOR	----
		Aroclor 1254	11097-69-1	E685	0.761	mg/kg	<0.764	<0.761	0.003	Diff <2x LOR	----
		Aroclor 1260	11096-82-5	E685	0.761	mg/kg	<0.764	<0.761	0.003	Diff <2x LOR	----
		Aroclor 1262	37324-23-5	E685	0.761	mg/kg	<0.764	<0.761	0.003	Diff <2x LOR	----
		Aroclor 1268	11100-14-4	E685	0.761	mg/kg	<0.764	<0.761	0.003	Diff <2x LOR	----

Qualifiers

Qualifier	*Description*
DUP-H	*Duplicate results outside ALS DQO, due to sample heterogeneity.*
J	*Duplicate results and limits are expressed in terms of absolute difference.*

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: 2092937)						
Moisture	----	E144	0.5	%	<0.50	----
Physical Tests (QCLot: 2093423)						
Moisture	----	E144	0.5	%	<0.50	----
Physical Tests (QCLot: 2095532)						
Moisture	----	E144	0.5	%	<0.50	----
Physical Tests (QCLot: 2212574)						
Moisture	----	E144	0.5	%	<0.50	----
Physical Tests (QCLot: 2213573)						
Moisture	----	E144	0.5	%	<0.50	----
Physical Tests (QCLot: 2274823)						
Moisture	----	E144	0.5	%	<0.50	----
Metals (QCLot: 2105042)						
Aluminum	7429-90-5	E440	2	mg/kg	<2.0	----
Antimony	7440-36-0	E440	0.01	mg/kg	<0.010	----
Arsenic	7440-38-2	E440	0.02	mg/kg	<0.020	----
Barium	7440-39-3	E440	0.05	mg/kg	<0.050	----
Beryllium	7440-41-7	E440	0.01	mg/kg	<0.010	----
Boron	7440-42-8	E440	1	mg/kg	<1.0	----
Cadmium	7440-43-9	E440	0.005	mg/kg	<0.0050	----
Calcium	7440-70-2	E440	20	mg/kg	<20	----
Chromium	7440-47-3	E440	0.05	mg/kg	<0.050	----
Cobalt	7440-48-4	E440	0.02	mg/kg	<0.020	----
Copper	7440-50-8	E440	0.1	mg/kg	<0.10	----
Iron	7439-89-6	E440	3	mg/kg	<3.0	----
Lead	7439-92-1	E440	0.02	mg/kg	<0.020	----
Lithium	7439-93-2	E440	0.5	mg/kg	<0.50	----
Magnesium	7439-95-4	E440	2	mg/kg	<2.0	----
Manganese	7439-96-5	E440	0.05	mg/kg	# 0.053	B
Molybdenum	7439-98-7	E440	0.02	mg/kg	<0.020	----
Nickel	7440-02-0	E440	0.2	mg/kg	<0.20	----
Phosphorus	7723-14-0	E440	10	mg/kg	<10	----
Potassium	7440-09-7	E440	20	mg/kg	<20	----

Sub-Matrix: **Biota**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 2105042) - continued						
Selenium	7782-49-2	E440	0.05	mg/kg	<0.050	----
Sodium	7440-23-5	E440	20	mg/kg	<20	----
Strontium	7440-24-6	E440	0.05	mg/kg	<0.050	----
Thallium	7440-28-0	E440	0.002	mg/kg	<0.0020	----
Tin	7440-31-5	E440	0.1	mg/kg	<0.10	----
Uranium	7440-61-1	E440	0.002	mg/kg	<0.0020	----
Vanadium	7440-62-2	E440	0.1	mg/kg	<0.10	----
Zinc	7440-66-6	E440	0.5	mg/kg	<0.50	----
Zirconium	7440-67-7	E440	0.2	mg/kg	<0.20	----
Metals (QCLot: 2105043)						
Mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	----
Metals (QCLot: 2105044)						
Titanium	7440-32-6	E440.Ti	0.25	mg/kg	<0.25	----
Metals (QCLot: 2105045)						
Sulfur	7704-34-9	E440.S	100	mg/kg	<100	----
Metals (QCLot: 2105046)						
Silver	7440-22-4	E440.Ag	0.005	mg/kg	<0.0050	----
Metals (QCLot: 2105328)						
Aluminum	7429-90-5	E440	2	mg/kg	<2.0	----
Antimony	7440-36-0	E440	0.01	mg/kg	<0.010	----
Arsenic	7440-38-2	E440	0.02	mg/kg	<0.020	----
Barium	7440-39-3	E440	0.05	mg/kg	<0.050	----
Beryllium	7440-41-7	E440	0.01	mg/kg	<0.010	----
Boron	7440-42-8	E440	1	mg/kg	<1.0	----
Cadmium	7440-43-9	E440	0.005	mg/kg	<0.0050	----
Calcium	7440-70-2	E440	20	mg/kg	<20	----
Chromium	7440-47-3	E440	0.05	mg/kg	<0.050	----
Cobalt	7440-48-4	E440	0.02	mg/kg	<0.020	----
Copper	7440-50-8	E440	0.1	mg/kg	<0.10	----
Iron	7439-89-6	E440	3	mg/kg	<3.0	----
Lead	7439-92-1	E440	0.02	mg/kg	<0.020	----
Lithium	7439-93-2	E440	0.5	mg/kg	<0.50	----
Magnesium	7439-95-4	E440	2	mg/kg	<2.0	----
Manganese	7439-96-5	E440	0.05	mg/kg	<0.050	----
Molybdenum	7439-98-7	E440	0.02	mg/kg	<0.020	----

Sub-Matrix: **Biota**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 2105328) - continued						
Nickel	7440-02-0	E440	0.2	mg/kg	<0.20	----
Phosphorus	7723-14-0	E440	10	mg/kg	<10	----
Potassium	7440-09-7	E440	20	mg/kg	<20	----
Selenium	7782-49-2	E440	0.05	mg/kg	<0.050	----
Sodium	7440-23-5	E440	20	mg/kg	<20	----
Strontium	7440-24-6	E440	0.05	mg/kg	<0.050	----
Thallium	7440-28-0	E440	0.002	mg/kg	<0.0020	----
Tin	7440-31-5	E440	0.1	mg/kg	<0.10	----
Uranium	7440-61-1	E440	0.002	mg/kg	<0.0020	----
Vanadium	7440-62-2	E440	0.1	mg/kg	<0.10	----
Zinc	7440-66-6	E440	0.5	mg/kg	<0.50	----
Zirconium	7440-67-7	E440	0.2	mg/kg	<0.20	----
Metals (QCLot: 2105329)						
Silver	7440-22-4	E440.Ag	0.005	mg/kg	<0.0050	----
Metals (QCLot: 2105330)						
Mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	----
Metals (QCLot: 2105331)						
Titanium	7440-32-6	E440.Ti	0.25	mg/kg	<0.25	----
Metals (QCLot: 2105332)						
Sulfur	7704-34-9	E440.S	100	mg/kg	<100	----
Metals (QCLot: 2106797)						
Aluminum	7429-90-5	E440	2	mg/kg	<2.0	----
Antimony	7440-36-0	E440	0.01	mg/kg	<0.010	----
Arsenic	7440-38-2	E440	0.02	mg/kg	<0.020	----
Barium	7440-39-3	E440	0.05	mg/kg	<0.050	----
Beryllium	7440-41-7	E440	0.01	mg/kg	<0.010	----
Boron	7440-42-8	E440	1	mg/kg	<1.0	----
Cadmium	7440-43-9	E440	0.005	mg/kg	<0.0050	----
Calcium	7440-70-2	E440	20	mg/kg	<20	----
Chromium	7440-47-3	E440	0.05	mg/kg	<0.050	----
Cobalt	7440-48-4	E440	0.02	mg/kg	<0.020	----
Copper	7440-50-8	E440	0.1	mg/kg	<0.10	----
Iron	7439-89-6	E440	3	mg/kg	<3.0	----
Lead	7439-92-1	E440	0.02	mg/kg	<0.020	----
Lithium	7439-93-2	E440	0.5	mg/kg	<0.50	----

Sub-Matrix: **Biota**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 2106797) - continued						
Magnesium	7439-95-4	E440	2	mg/kg	<2.0	----
Manganese	7439-96-5	E440	0.05	mg/kg	<0.050	----
Molybdenum	7439-98-7	E440	0.02	mg/kg	<0.020	----
Nickel	7440-02-0	E440	0.2	mg/kg	<0.20	----
Phosphorus	7723-14-0	E440	10	mg/kg	<10	----
Potassium	7440-09-7	E440	20	mg/kg	<20	----
Selenium	7782-49-2	E440	0.05	mg/kg	<0.050	----
Sodium	7440-23-5	E440	20	mg/kg	<20	----
Strontium	7440-24-6	E440	0.05	mg/kg	<0.050	----
Thallium	7440-28-0	E440	0.002	mg/kg	<0.0020	----
Tin	7440-31-5	E440	0.1	mg/kg	<0.10	----
Uranium	7440-61-1	E440	0.002	mg/kg	<0.0020	----
Vanadium	7440-62-2	E440	0.1	mg/kg	<0.10	----
Zinc	7440-66-6	E440	0.5	mg/kg	<0.50	----
Zirconium	7440-67-7	E440	0.2	mg/kg	<0.20	----
Metals (QCLot: 2106798)						
Silver	7440-22-4	E440.Ag	0.005	mg/kg	<0.0050	----
Metals (QCLot: 2106799)						
Mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	----
Metals (QCLot: 2106800)						
Titanium	7440-32-6	E440.Ti	0.25	mg/kg	<0.25	----
Metals (QCLot: 2106801)						
Sulfur	7704-34-9	E440.S	100	mg/kg	<100	----
Metals (QCLot: 2210893)						
Aluminum	7429-90-5	E440	2	mg/kg	<2.0	----
Antimony	7440-36-0	E440	0.01	mg/kg	<0.010	----
Arsenic	7440-38-2	E440	0.02	mg/kg	<0.020	----
Barium	7440-39-3	E440	0.05	mg/kg	<0.050	----
Beryllium	7440-41-7	E440	0.01	mg/kg	<0.010	----
Boron	7440-42-8	E440	1	mg/kg	<1.0	----
Cadmium	7440-43-9	E440	0.005	mg/kg	<0.0050	----
Calcium	7440-70-2	E440	20	mg/kg	<20	----
Chromium	7440-47-3	E440	0.05	mg/kg	<0.050	----
Cobalt	7440-48-4	E440	0.02	mg/kg	<0.020	----
Copper	7440-50-8	E440	0.1	mg/kg	<0.10	----

Sub-Matrix: **Biota**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 2210893) - continued						
Iron	7439-89-6	E440	3	mg/kg	<3.0	----
Lead	7439-92-1	E440	0.02	mg/kg	<0.020	----
Lithium	7439-93-2	E440	0.5	mg/kg	<0.50	----
Magnesium	7439-95-4	E440	2	mg/kg	<2.0	----
Manganese	7439-96-5	E440	0.05	mg/kg	<0.050	----
Molybdenum	7439-98-7	E440	0.02	mg/kg	<0.020	----
Nickel	7440-02-0	E440	0.2	mg/kg	<0.20	----
Phosphorus	7723-14-0	E440	10	mg/kg	<10	----
Potassium	7440-09-7	E440	20	mg/kg	<20	----
Selenium	7782-49-2	E440	0.05	mg/kg	<0.050	----
Sodium	7440-23-5	E440	20	mg/kg	<20	----
Strontium	7440-24-6	E440	0.05	mg/kg	<0.050	----
Thallium	7440-28-0	E440	0.002	mg/kg	<0.0020	----
Tin	7440-31-5	E440	0.1	mg/kg	<0.10	----
Uranium	7440-61-1	E440	0.002	mg/kg	<0.0020	----
Vanadium	7440-62-2	E440	0.1	mg/kg	<0.10	----
Zinc	7440-66-6	E440	0.5	mg/kg	<0.50	----
Zirconium	7440-67-7	E440	0.2	mg/kg	<0.20	----
Metals (QCLot: 2210894)						
Silver	7440-22-4	E440.Ag	0.005	mg/kg	<0.0050	----
Metals (QCLot: 2210896)						
Titanium	7440-32-6	E440.Ti	0.25	mg/kg	<0.25	----
Metals (QCLot: 2213509)						
Sulfur	7704-34-9	E440.S	100	mg/kg	<100	----
Metals (QCLot: 2213510)						
Aluminum	7429-90-5	E440	2	mg/kg	<2.0	----
Antimony	7440-36-0	E440	0.01	mg/kg	<0.010	----
Arsenic	7440-38-2	E440	0.02	mg/kg	<0.020	----
Barium	7440-39-3	E440	0.05	mg/kg	<0.050	----
Beryllium	7440-41-7	E440	0.01	mg/kg	<0.010	----
Boron	7440-42-8	E440	1	mg/kg	<1.0	----
Cadmium	7440-43-9	E440	0.005	mg/kg	<0.0050	----
Calcium	7440-70-2	E440	20	mg/kg	<20	----
Chromium	7440-47-3	E440	0.05	mg/kg	<0.050	----
Cobalt	7440-48-4	E440	0.02	mg/kg	<0.020	----

Sub-Matrix: **Biota**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 2213510) - continued						
Copper	7440-50-8	E440	0.1	mg/kg	<0.10	----
Iron	7439-89-6	E440	3	mg/kg	<3.0	----
Lead	7439-92-1	E440	0.02	mg/kg	<0.020	----
Lithium	7439-93-2	E440	0.5	mg/kg	<0.50	----
Magnesium	7439-95-4	E440	2	mg/kg	<2.0	----
Manganese	7439-96-5	E440	0.05	mg/kg	<0.050	----
Molybdenum	7439-98-7	E440	0.02	mg/kg	<0.020	----
Nickel	7440-02-0	E440	0.2	mg/kg	<0.20	----
Phosphorus	7723-14-0	E440	10	mg/kg	<10	----
Potassium	7440-09-7	E440	20	mg/kg	<20	----
Selenium	7782-49-2	E440	0.05	mg/kg	<0.050	----
Sodium	7440-23-5	E440	20	mg/kg	<20	----
Strontium	7440-24-6	E440	0.05	mg/kg	<0.050	----
Thallium	7440-28-0	E440	0.002	mg/kg	<0.0020	----
Tin	7440-31-5	E440	0.1	mg/kg	<0.10	----
Uranium	7440-61-1	E440	0.002	mg/kg	<0.0020	----
Vanadium	7440-62-2	E440	0.1	mg/kg	<0.10	----
Zinc	7440-66-6	E440	0.5	mg/kg	<0.50	----
Zirconium	7440-67-7	E440	0.2	mg/kg	<0.20	----
Metals (QCLot: 2213511)						
Mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	----
Metals (QCLot: 2215360)						
Sulfur	7704-34-9	E440.S	100	mg/kg	<100	----
Metals (QCLot: 2257719)						
Sulfur	7704-34-9	E440.S	100	mg/kg	<100	----
Metals (QCLot: 2268884)						
Sulfur	7704-34-9	E440.S	100	mg/kg	<100	----
Metals (QCLot: 2272024)						
Aluminum	7429-90-5	E440	2	mg/kg	<2.0	----
Antimony	7440-36-0	E440	0.01	mg/kg	<0.010	----
Arsenic	7440-38-2	E440	0.02	mg/kg	<0.020	----
Barium	7440-39-3	E440	0.05	mg/kg	<0.050	----
Beryllium	7440-41-7	E440	0.01	mg/kg	<0.010	----
Boron	7440-42-8	E440	1	mg/kg	<1.0	----
Cadmium	7440-43-9	E440	0.005	mg/kg	<0.0050	----

Sub-Matrix: **Biota**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 2272024) - continued						
Calcium	7440-70-2	E440	20	mg/kg	<20	----
Chromium	7440-47-3	E440	0.05	mg/kg	<0.050	----
Cobalt	7440-48-4	E440	0.02	mg/kg	<0.020	----
Copper	7440-50-8	E440	0.1	mg/kg	<0.10	----
Iron	7439-89-6	E440	3	mg/kg	<3.0	----
Lead	7439-92-1	E440	0.02	mg/kg	<0.020	----
Lithium	7439-93-2	E440	0.5	mg/kg	<0.50	----
Magnesium	7439-95-4	E440	2	mg/kg	<2.0	----
Manganese	7439-96-5	E440	0.05	mg/kg	<0.050	----
Molybdenum	7439-98-7	E440	0.02	mg/kg	<0.020	----
Nickel	7440-02-0	E440	0.2	mg/kg	<0.20	----
Phosphorus	7723-14-0	E440	10	mg/kg	<10	----
Potassium	7440-09-7	E440	20	mg/kg	<20	----
Selenium	7782-49-2	E440	0.05	mg/kg	<0.050	----
Sodium	7440-23-5	E440	20	mg/kg	<20	----
Strontium	7440-24-6	E440	0.05	mg/kg	<0.050	----
Thallium	7440-28-0	E440	0.002	mg/kg	<0.0020	----
Tin	7440-31-5	E440	0.1	mg/kg	<0.10	----
Uranium	7440-61-1	E440	0.002	mg/kg	<0.0020	----
Vanadium	7440-62-2	E440	0.1	mg/kg	<0.10	----
Zinc	7440-66-6	E440	0.5	mg/kg	<0.50	----
Zirconium	7440-67-7	E440	0.2	mg/kg	<0.20	----
Metals (QCLot: 2272025)						
Mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	----

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 2064372)						
Moisture	----	E144	0.25	%	<0.25	----
Physical Tests (QCLot: 2065066)						
Moisture	----	E144	0.25	%	<0.25	----
Saturated Paste Extractables (QCLot: 2077472)						
Conductivity, saturated paste	----	E102	20	µS/cm	<20	----
Saturated Paste Extractables (QCLot: 2077474)						
% Saturation	----	E141	1	%	50.0	----

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polychlorinated Biphenyls (QCLot: 2069790)						
Aroclor 1016	12674-11-2	E685	0.01	mg/kg	<0.010	----
Aroclor 1221	11104-28-2	E685	0.01	mg/kg	<0.010	----
Aroclor 1232	11141-16-5	E685	0.01	mg/kg	<0.010	----
Aroclor 1242	53469-21-9	E685	0.01	mg/kg	<0.010	----
Aroclor 1248	12672-29-6	E685	0.01	mg/kg	<0.010	----
Aroclor 1254	11097-69-1	E685	0.01	mg/kg	<0.010	----
Aroclor 1260	11096-82-5	E685	0.01	mg/kg	<0.010	----
Aroclor 1262	37324-23-5	E685	0.01	mg/kg	<0.010	----
Aroclor 1268	11100-14-4	E685	0.01	mg/kg	<0.010	----

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.*

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: 2092937)									
Moisture	----	E144	0.5	%	50 %	99.9	90.0	110	----
Physical Tests (QCLot: 2093423)									
Moisture	----	E144	0.5	%	50 %	100	90.0	110	----
Physical Tests (QCLot: 2095532)									
Moisture	----	E144	0.5	%	50 %	100	90.0	110	----
Physical Tests (QCLot: 2212574)									
Moisture	----	E144	0.5	%	50 %	99.9	90.0	110	----
Physical Tests (QCLot: 2213573)									
Moisture	----	E144	0.5	%	50 %	100	90.0	110	----
Physical Tests (QCLot: 2274823)									
Moisture	----	E144	0.5	%	50 %	100	90.0	110	----
Metals (QCLot: 2105042)									
Aluminum	7429-90-5	E440	2	mg/kg	20 mg/kg	107	80.0	120	----
Antimony	7440-36-0	E440	0.01	mg/kg	10 mg/kg	103	80.0	120	----
Arsenic	7440-38-2	E440	0.02	mg/kg	10 mg/kg	112	80.0	120	----
Barium	7440-39-3	E440	0.05	mg/kg	2.5 mg/kg	108	80.0	120	----
Beryllium	7440-41-7	E440	0.01	mg/kg	1 mg/kg	102	80.0	120	----
Boron	7440-42-8	E440	1	mg/kg	10 mg/kg	94.2	80.0	120	----
Cadmium	7440-43-9	E440	0.005	mg/kg	1 mg/kg	102	80.0	120	----
Calcium	7440-70-2	E440	20	mg/kg	500 mg/kg	99.8	80.0	120	----
Chromium	7440-47-3	E440	0.05	mg/kg	2.5 mg/kg	108	80.0	120	----
Cobalt	7440-48-4	E440	0.02	mg/kg	2.5 mg/kg	104	80.0	120	----
Copper	7440-50-8	E440	0.1	mg/kg	2.5 mg/kg	104	80.0	120	----
Iron	7439-89-6	E440	3	mg/kg	10 mg/kg	104	80.0	120	----
Lead	7439-92-1	E440	0.02	mg/kg	5 mg/kg	103	80.0	120	----
Lithium	7439-93-2	E440	0.5	mg/kg	2.5 mg/kg	103	80.0	120	----
Magnesium	7439-95-4	E440	2	mg/kg	500 mg/kg	110	80.0	120	----
Manganese	7439-96-5	E440	0.05	mg/kg	2.5 mg/kg	105	80.0	120	----
Molybdenum	7439-98-7	E440	0.02	mg/kg	2.5 mg/kg	101	80.0	120	----
Nickel	7440-02-0	E440	0.2	mg/kg	5 mg/kg	104	80.0	120	----
Phosphorus	7723-14-0	E440	10	mg/kg	100 mg/kg	107	80.0	120	----

Sub-Matrix: **Biota**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
					Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 2105042) - continued									
Potassium	7440-09-7	E440	20	mg/kg	500 mg/kg	105	80.0	120	----
Selenium	7782-49-2	E440	0.05	mg/kg	10 mg/kg	105	80.0	120	----
Sodium	7440-23-5	E440	20	mg/kg	500 mg/kg	108	80.0	120	----
Strontium	7440-24-6	E440	0.05	mg/kg	2.5 mg/kg	104	80.0	120	----
Thallium	7440-28-0	E440	0.002	mg/kg	10 mg/kg	100	80.0	120	----
Tin	7440-31-5	E440	0.1	mg/kg	5 mg/kg	108	80.0	120	----
Uranium	7440-61-1	E440	0.002	mg/kg	0.05 mg/kg	101	80.0	120	----
Vanadium	7440-62-2	E440	0.1	mg/kg	5 mg/kg	107	80.0	120	----
Zinc	7440-66-6	E440	0.5	mg/kg	5 mg/kg	99.5	80.0	120	----
Zirconium	7440-67-7	E440	0.2	mg/kg	1 mg/kg	93.1	80.0	120	----
Metals (QCLot: 2105043)									
Mercury	7439-97-6	E510	0.005	mg/kg	0.02 mg/kg	94.8	80.0	120	----
Metals (QCLot: 2105044)									
Titanium	7440-32-6	E440.Ti	0.25	mg/kg	2.5 mg/kg	103	80.0	120	----
Metals (QCLot: 2105045)									
Sulfur	7704-34-9	E440.S	100	mg/kg	500 mg/kg	100	80.0	120	----
Metals (QCLot: 2105046)									
Silver	7440-22-4	E440.Ag	0.005	mg/kg	1 mg/kg	94.5	80.0	120	----
Metals (QCLot: 2105328)									
Aluminum	7429-90-5	E440	2	mg/kg	20 mg/kg	103	80.0	120	----
Antimony	7440-36-0	E440	0.01	mg/kg	10 mg/kg	105	80.0	120	----
Arsenic	7440-38-2	E440	0.02	mg/kg	10 mg/kg	110	80.0	120	----
Barium	7440-39-3	E440	0.05	mg/kg	2.5 mg/kg	106	80.0	120	----
Beryllium	7440-41-7	E440	0.01	mg/kg	1 mg/kg	105	80.0	120	----
Boron	7440-42-8	E440	1	mg/kg	10 mg/kg	109	80.0	120	----
Cadmium	7440-43-9	E440	0.005	mg/kg	1 mg/kg	104	80.0	120	----
Calcium	7440-70-2	E440	20	mg/kg	500 mg/kg	103	80.0	120	----
Chromium	7440-47-3	E440	0.05	mg/kg	2.5 mg/kg	107	80.0	120	----
Cobalt	7440-48-4	E440	0.02	mg/kg	2.5 mg/kg	102	80.0	120	----
Copper	7440-50-8	E440	0.1	mg/kg	2.5 mg/kg	103	80.0	120	----
Iron	7439-89-6	E440	3	mg/kg	10 mg/kg	104	80.0	120	----
Lead	7439-92-1	E440	0.02	mg/kg	5 mg/kg	105	80.0	120	----
Lithium	7439-93-2	E440	0.5	mg/kg	2.5 mg/kg	106	80.0	120	----
Magnesium	7439-95-4	E440	2	mg/kg	500 mg/kg	106	80.0	120	----
Manganese	7439-96-5	E440	0.05	mg/kg	2.5 mg/kg	104	80.0	120	----
Molybdenum	7439-98-7	E440	0.02	mg/kg	2.5 mg/kg	104	80.0	120	----

Sub-Matrix: **Biota**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike: Target Concentration	Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Metals (QCLot: 2105328) - continued									
Nickel	7440-02-0	E440	0.2	mg/kg	5 mg/kg	103	80.0	120	----
Phosphorus	7723-14-0	E440	10	mg/kg	100 mg/kg	108	80.0	120	----
Potassium	7440-09-7	E440	20	mg/kg	500 mg/kg	106	80.0	120	----
Selenium	7782-49-2	E440	0.05	mg/kg	10 mg/kg	104	80.0	120	----
Sodium	7440-23-5	E440	20	mg/kg	500 mg/kg	106	80.0	120	----
Strontium	7440-24-6	E440	0.05	mg/kg	2.5 mg/kg	107	80.0	120	----
Thallium	7440-28-0	E440	0.002	mg/kg	10 mg/kg	102	80.0	120	----
Tin	7440-31-5	E440	0.1	mg/kg	5 mg/kg	108	80.0	120	----
Uranium	7440-61-1	E440	0.002	mg/kg	0.05 mg/kg	99.5	80.0	120	----
Vanadium	7440-62-2	E440	0.1	mg/kg	5 mg/kg	106	80.0	120	----
Zinc	7440-66-6	E440	0.5	mg/kg	5 mg/kg	98.4	80.0	120	----
Zirconium	7440-67-7	E440	0.2	mg/kg	1 mg/kg	100.0	80.0	120	----
Metals (QCLot: 2105329)									
Silver	7440-22-4	E440.Ag	0.005	mg/kg	1 mg/kg	98.8	80.0	120	----
Metals (QCLot: 2105330)									
Mercury	7439-97-6	E510	0.005	mg/kg	0.02 mg/kg	95.4	80.0	120	----
Metals (QCLot: 2105331)									
Titanium	7440-32-6	E440.Ti	0.25	mg/kg	2.5 mg/kg	107	80.0	120	----
Metals (QCLot: 2105332)									
Sulfur	7704-34-9	E440.S	100	mg/kg	500 mg/kg	109	80.0	120	----
Metals (QCLot: 2106797)									
Aluminum	7429-90-5	E440	2	mg/kg	20 mg/kg	107	80.0	120	----
Antimony	7440-36-0	E440	0.01	mg/kg	10 mg/kg	105	80.0	120	----
Arsenic	7440-38-2	E440	0.02	mg/kg	10 mg/kg	108	80.0	120	----
Barium	7440-39-3	E440	0.05	mg/kg	2.5 mg/kg	103	80.0	120	----
Beryllium	7440-41-7	E440	0.01	mg/kg	1 mg/kg	103	80.0	120	----
Boron	7440-42-8	E440	1	mg/kg	10 mg/kg	106	80.0	120	----
Cadmium	7440-43-9	E440	0.005	mg/kg	1 mg/kg	104	80.0	120	----
Calcium	7440-70-2	E440	20	mg/kg	500 mg/kg	101	80.0	120	----
Chromium	7440-47-3	E440	0.05	mg/kg	2.5 mg/kg	107	80.0	120	----
Cobalt	7440-48-4	E440	0.02	mg/kg	2.5 mg/kg	104	80.0	120	----
Copper	7440-50-8	E440	0.1	mg/kg	2.5 mg/kg	104	80.0	120	----
Iron	7439-89-6	E440	3	mg/kg	10 mg/kg	106	80.0	120	----
Lead	7439-92-1	E440	0.02	mg/kg	5 mg/kg	101	80.0	120	----
Lithium	7439-93-2	E440	0.5	mg/kg	2.5 mg/kg	101	80.0	120	----
Magnesium	7439-95-4	E440	2	mg/kg	500 mg/kg	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: 2106797) - continued									
Manganese	7439-96-5	E440	0.05	mg/kg	2.5 mg/kg	106	80.0	120	----
Molybdenum	7439-98-7	E440	0.02	mg/kg	2.5 mg/kg	107	80.0	120	----
Nickel	7440-02-0	E440	0.2	mg/kg	5 mg/kg	104	80.0	120	----
Phosphorus	7723-14-0	E440	10	mg/kg	100 mg/kg	106	80.0	120	----
Potassium	7440-09-7	E440	20	mg/kg	500 mg/kg	103	80.0	120	----
Selenium	7782-49-2	E440	0.05	mg/kg	10 mg/kg	99.5	80.0	120	----
Sodium	7440-23-5	E440	20	mg/kg	500 mg/kg	106	80.0	120	----
Strontium	7440-24-6	E440	0.05	mg/kg	2.5 mg/kg	108	80.0	120	----
Thallium	7440-28-0	E440	0.002	mg/kg	10 mg/kg	103	80.0	120	----
Tin	7440-31-5	E440	0.1	mg/kg	5 mg/kg	103	80.0	120	----
Uranium	7440-61-1	E440	0.002	mg/kg	0.05 mg/kg	98.6	80.0	120	----
Vanadium	7440-62-2	E440	0.1	mg/kg	5 mg/kg	108	80.0	120	----
Zinc	7440-66-6	E440	0.5	mg/kg	5 mg/kg	103	80.0	120	----
Zirconium	7440-67-7	E440	0.2	mg/kg	1 mg/kg	105	80.0	120	----
Metals (QCLot: 2106798)									
Silver	7440-22-4	E440.Ag	0.005	mg/kg	1 mg/kg	99.5	80.0	120	----
Metals (QCLot: 2106799)									
Mercury	7439-97-6	E510	0.005	mg/kg	0.02 mg/kg	90.5	80.0	120	----
Metals (QCLot: 2106800)									
Titanium	7440-32-6	E440.Ti	0.25	mg/kg	2.5 mg/kg	103	80.0	120	----
Metals (QCLot: 2106801)									
Sulfur	7704-34-9	E440.S	100	mg/kg	500 mg/kg	98.6	80.0	120	----
Metals (QCLot: 2210893)									
Aluminum	7429-90-5	E440	2	mg/kg	20 mg/kg	106	80.0	120	----
Antimony	7440-36-0	E440	0.01	mg/kg	10 mg/kg	107	80.0	120	----
Arsenic	7440-38-2	E440	0.02	mg/kg	10 mg/kg	110	80.0	120	----
Barium	7440-39-3	E440	0.05	mg/kg	2.5 mg/kg	112	80.0	120	----
Beryllium	7440-41-7	E440	0.01	mg/kg	1 mg/kg	102	80.0	120	----
Boron	7440-42-8	E440	1	mg/kg	10 mg/kg	107	80.0	120	----
Cadmium	7440-43-9	E440	0.005	mg/kg	1 mg/kg	106	80.0	120	----
Calcium	7440-70-2	E440	20	mg/kg	500 mg/kg	106	80.0	120	----
Chromium	7440-47-3	E440	0.05	mg/kg	2.5 mg/kg	106	80.0	120	----
Cobalt	7440-48-4	E440	0.02	mg/kg	2.5 mg/kg	100	80.0	120	----
Copper	7440-50-8	E440	0.1	mg/kg	2.5 mg/kg	103	80.0	120	----
Iron	7439-89-6	E440	3	mg/kg	10 mg/kg	107	80.0	120	----
Lead	7439-92-1	E440	0.02	mg/kg	5 mg/kg	108	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: 2210893) - continued									
Lithium	7439-93-2	E440	0.5	mg/kg	2.5 mg/kg	109	80.0	120	----
Magnesium	7439-95-4	E440	2	mg/kg	500 mg/kg	112	80.0	120	----
Manganese	7439-96-5	E440	0.05	mg/kg	2.5 mg/kg	105	80.0	120	----
Molybdenum	7439-98-7	E440	0.02	mg/kg	2.5 mg/kg	99.3	80.0	120	----
Nickel	7440-02-0	E440	0.2	mg/kg	5 mg/kg	104	80.0	120	----
Phosphorus	7723-14-0	E440	10	mg/kg	100 mg/kg	113	80.0	120	----
Potassium	7440-09-7	E440	20	mg/kg	500 mg/kg	109	80.0	120	----
Selenium	7782-49-2	E440	0.05	mg/kg	10 mg/kg	106	80.0	120	----
Sodium	7440-23-5	E440	20	mg/kg	500 mg/kg	104	80.0	120	----
Strontium	7440-24-6	E440	0.05	mg/kg	2.5 mg/kg	109	80.0	120	----
Thallium	7440-28-0	E440	0.002	mg/kg	10 mg/kg	104	80.0	120	----
Tin	7440-31-5	E440	0.1	mg/kg	5 mg/kg	107	80.0	120	----
Uranium	7440-61-1	E440	0.002	mg/kg	0.05 mg/kg	100	80.0	120	----
Vanadium	7440-62-2	E440	0.1	mg/kg	5 mg/kg	108	80.0	120	----
Zinc	7440-66-6	E440	0.5	mg/kg	5 mg/kg	103	80.0	120	----
Zirconium	7440-67-7	E440	0.2	mg/kg	1 mg/kg	100	80.0	120	----
Metals (QCLot: 2210894)									
Silver	7440-22-4	E440.Ag	0.005	mg/kg	1 mg/kg	94.2	80.0	120	----
Metals (QCLot: 2210896)									
Titanium	7440-32-6	E440.Ti	0.25	mg/kg	2.5 mg/kg	103	80.0	120	----
Metals (QCLot: 2213509)									
Sulfur	7704-34-9	E440.S	100	mg/kg	500 mg/kg	104	80.0	120	----
Metals (QCLot: 2213510)									
Aluminum	7429-90-5	E440	2	mg/kg	20 mg/kg	106	80.0	120	----
Antimony	7440-36-0	E440	0.01	mg/kg	10 mg/kg	107	80.0	120	----
Arsenic	7440-38-2	E440	0.02	mg/kg	10 mg/kg	110	80.0	120	----
Barium	7440-39-3	E440	0.05	mg/kg	2.5 mg/kg	112	80.0	120	----
Beryllium	7440-41-7	E440	0.01	mg/kg	1 mg/kg	102	80.0	120	----
Boron	7440-42-8	E440	1	mg/kg	10 mg/kg	107	80.0	120	----
Cadmium	7440-43-9	E440	0.005	mg/kg	1 mg/kg	106	80.0	120	----
Calcium	7440-70-2	E440	20	mg/kg	500 mg/kg	106	80.0	120	----
Chromium	7440-47-3	E440	0.05	mg/kg	2.5 mg/kg	106	80.0	120	----
Cobalt	7440-48-4	E440	0.02	mg/kg	2.5 mg/kg	100	80.0	120	----
Copper	7440-50-8	E440	0.1	mg/kg	2.5 mg/kg	103	80.0	120	----
Iron	7439-89-6	E440	3	mg/kg	10 mg/kg	107	80.0	120	----
Lead	7439-92-1	E440	0.02	mg/kg	5 mg/kg	108	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: 2213510) - continued									
Lithium	7439-93-2	E440	0.5	mg/kg	2.5 mg/kg	109	80.0	120	----
Magnesium	7439-95-4	E440	2	mg/kg	500 mg/kg	112	80.0	120	----
Manganese	7439-96-5	E440	0.05	mg/kg	2.5 mg/kg	105	80.0	120	----
Molybdenum	7439-98-7	E440	0.02	mg/kg	2.5 mg/kg	99.3	80.0	120	----
Nickel	7440-02-0	E440	0.2	mg/kg	5 mg/kg	104	80.0	120	----
Phosphorus	7723-14-0	E440	10	mg/kg	100 mg/kg	113	80.0	120	----
Potassium	7440-09-7	E440	20	mg/kg	500 mg/kg	109	80.0	120	----
Selenium	7782-49-2	E440	0.05	mg/kg	10 mg/kg	106	80.0	120	----
Sodium	7440-23-5	E440	20	mg/kg	500 mg/kg	104	80.0	120	----
Strontium	7440-24-6	E440	0.05	mg/kg	2.5 mg/kg	109	80.0	120	----
Thallium	7440-28-0	E440	0.002	mg/kg	10 mg/kg	104	80.0	120	----
Tin	7440-31-5	E440	0.1	mg/kg	5 mg/kg	107	80.0	120	----
Uranium	7440-61-1	E440	0.002	mg/kg	0.05 mg/kg	100	80.0	120	----
Vanadium	7440-62-2	E440	0.1	mg/kg	5 mg/kg	108	80.0	120	----
Zinc	7440-66-6	E440	0.5	mg/kg	5 mg/kg	103	80.0	120	----
Zirconium	7440-67-7	E440	0.2	mg/kg	1 mg/kg	100	80.0	120	----
Metals (QCLot: 2213511)									
Mercury	7439-97-6	E510	0.005	mg/kg	0.02 mg/kg	98.6	80.0	120	----
Metals (QCLot: 2215360)									
Sulfur	7704-34-9	E440.S	100	mg/kg	500 mg/kg	104	80.0	120	----
Metals (QCLot: 2257719)									
Sulfur	7704-34-9	E440.S	100	mg/kg	500 mg/kg	98.6	80.0	120	----
Metals (QCLot: 2268884)									
Sulfur	7704-34-9	E440.S	100	mg/kg	500 mg/kg	109	80.0	120	----
Metals (QCLot: 2272024)									
Aluminum	7429-90-5	E440	2	mg/kg	20 mg/kg	106	80.0	120	----
Antimony	7440-36-0	E440	0.01	mg/kg	10 mg/kg	106	80.0	120	----
Arsenic	7440-38-2	E440	0.02	mg/kg	10 mg/kg	108	80.0	120	----
Barium	7440-39-3	E440	0.05	mg/kg	2.5 mg/kg	107	80.0	120	----
Beryllium	7440-41-7	E440	0.01	mg/kg	1 mg/kg	100	80.0	120	----
Boron	7440-42-8	E440	1	mg/kg	10 mg/kg	101	80.0	120	----
Cadmium	7440-43-9	E440	0.005	mg/kg	1 mg/kg	102	80.0	120	----
Calcium	7440-70-2	E440	20	mg/kg	500 mg/kg	106	80.0	120	----
Chromium	7440-47-3	E440	0.05	mg/kg	2.5 mg/kg	104	80.0	120	----
Cobalt	7440-48-4	E440	0.02	mg/kg	2.5 mg/kg	98.5	80.0	120	----
Copper	7440-50-8	E440	0.1	mg/kg	2.5 mg/kg	100	80.0	120	----

Sub-Matrix: **Biota**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike: Target Concentration	Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Metals (QCLot: 2272024) - continued									
Iron	7439-89-6	E440	3	mg/kg	10 mg/kg	106	80.0	120	----
Lead	7439-92-1	E440	0.02	mg/kg	5 mg/kg	109	80.0	120	----
Lithium	7439-93-2	E440	0.5	mg/kg	2.5 mg/kg	106	80.0	120	----
Magnesium	7439-95-4	E440	2	mg/kg	500 mg/kg	110	80.0	120	----
Manganese	7439-96-5	E440	0.05	mg/kg	2.5 mg/kg	103	80.0	120	----
Molybdenum	7439-98-7	E440	0.02	mg/kg	2.5 mg/kg	99.7	80.0	120	----
Nickel	7440-02-0	E440	0.2	mg/kg	5 mg/kg	102	80.0	120	----
Phosphorus	7723-14-0	E440	10	mg/kg	100 mg/kg	110	80.0	120	----
Potassium	7440-09-7	E440	20	mg/kg	500 mg/kg	105	80.0	120	----
Selenium	7782-49-2	E440	0.05	mg/kg	10 mg/kg	106	80.0	120	----
Sodium	7440-23-5	E440	20	mg/kg	500 mg/kg	103	80.0	120	----
Strontium	7440-24-6	E440	0.05	mg/kg	2.5 mg/kg	102	80.0	120	----
Thallium	7440-28-0	E440	0.002	mg/kg	10 mg/kg	103	80.0	120	----
Tin	7440-31-5	E440	0.1	mg/kg	5 mg/kg	104	80.0	120	----
Uranium	7440-61-1	E440	0.002	mg/kg	0.05 mg/kg	97.2	80.0	120	----
Vanadium	7440-62-2	E440	0.1	mg/kg	5 mg/kg	105	80.0	120	----
Zinc	7440-66-6	E440	0.5	mg/kg	5 mg/kg	101	80.0	120	----
Zirconium	7440-67-7	E440	0.2	mg/kg	1 mg/kg	98.3	80.0	120	----
Metals (QCLot: 2272025)									
Mercury	7439-97-6	E510	0.005	mg/kg	0.02 mg/kg	89.0	80.0	120	----

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike: Target Concentration	Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Physical Tests (QCLot: 2064372)									
Moisture	----	E144	0.25	%	50 %	99.4	90.0	110	----
Physical Tests (QCLot: 2065066)									
Moisture	----	E144	0.25	%	50 %	99.8	90.0	110	----
Saturated Paste Extractables (QCLot: 2077472)									
Conductivity, saturated paste	----	E102	20	µS/cm	147 µS/cm	102	80.0	120	----
Saturated Paste Extractables (QCLot: 2077473)									
pH, saturated paste	----	E114	----	pH units	6 pH units	100	95.0	105	----
Saturated Paste Extractables (QCLot: 2077474)									
% Saturation	----	E141	1	%	100 %	100	80.0	120	----

Sub-Matrix: **Soil/Solid**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Polychlorinated Biphenyls (QCLot: 2069790)									
Aroclor 1260	11096-82-5	E685	0.01	mg/kg	0.05 mg/kg	80.7	70.0	130	----

Matrix Spike (MS) Report

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

Sub-Matrix: **Soil/Solid**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Polychlorinated Biphenyls (QCLot: 2069790)										
CG2508106-001	Anonymous	Aroclor 1260	11096-82-5	E685	0.050 mg/kg	0.05 mg/kg	100	60.0	140	----

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:

					Reference Material (RM) Report				
					RM Target	Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Concentration	RM	Low	High	Qualifier
Metals (QCLot: 2105042)									
QC-2105042-003	RM	Aluminum	7429-90-5	E440	147 mg/kg	107	70.0	130	----
QC-2105042-003	RM	Arsenic	7440-38-2	E440	14.5 mg/kg	99.3	70.0	130	----
QC-2105042-003	RM	Barium	7440-39-3	E440	0.352 mg/kg	104	70.0	130	----
QC-2105042-003	RM	Boron	7440-42-8	E440	3.47 mg/kg	96.1	70.0	130	----
QC-2105042-003	RM	Cadmium	7440-43-9	E440	0.153 mg/kg	98.8	70.0	130	----
QC-2105042-003	RM	Calcium	7440-70-2	E440	2010 mg/kg	101	70.0	130	----
QC-2105042-003	RM	Chromium	7440-47-3	E440	0.453 mg/kg	112	70.0	130	----
QC-2105042-003	RM	Copper	7440-50-8	E440	3.3 mg/kg	98.6	70.0	130	----
QC-2105042-003	RM	Iron	7439-89-6	E440	102 mg/kg	96.6	70.0	130	----
QC-2105042-003	RM	Lead	7439-92-1	E440	0.058 mg/kg	94.0	70.0	130	----
QC-2105042-003	RM	Magnesium	7439-95-4	E440	899 mg/kg	102	70.0	130	----
QC-2105042-003	RM	Manganese	7439-96-5	E440	0.948 mg/kg	108	70.0	130	----
QC-2105042-003	RM	Molybdenum	7439-98-7	E440	0.134 mg/kg	91.7	70.0	130	----
QC-2105042-003	RM	Nickel	7440-02-0	E440	0.33 mg/kg	111	40.0	160	----
QC-2105042-003	RM	Phosphorus	7723-14-0	E440	6700 mg/kg	97.5	70.0	130	----
QC-2105042-003	RM	Potassium	7440-09-7	E440	11600 mg/kg	102	70.0	130	----
QC-2105042-003	RM	Selenium	7782-49-2	E440	2.48 mg/kg	94.8	70.0	130	----
QC-2105042-003	RM	Sodium	7440-23-5	E440	9620 mg/kg	105	70.0	130	----
QC-2105042-003	RM	Strontium	7440-24-6	E440	10.6 mg/kg	95.2	70.0	130	----
QC-2105042-003	RM	Vanadium	7440-62-2	E440	0.269 mg/kg	100	70.0	130	----
QC-2105042-003	RM	Zinc	7440-66-6	E440	28.7 mg/kg	95.6	70.0	130	----
Metals (QCLot: 2105043)									
QC-2105043-003	RM	Mercury	7439-97-6	E510	0.281 mg/kg	96.8	70.0	130	----
Metals (QCLot: 2105044)									
QC-2105044-003	RM	Titanium	7440-32-6	E440.Ti	1.15 mg/kg	95.5	70.0	130	----
Metals (QCLot: 2105045)									
QC-2105045-003	RM	Sulfur	7704-34-9	E440.S	9510 mg/kg	101	70.0	130	----
Metals (QCLot: 2105046)									
QC-2105046-003	RM	Silver	7440-22-4	E440.Ag	0.139 mg/kg	99.4	70.0	130	----
Metals (QCLot: 2105328)									
QC-2105328-003	RM	Aluminum	7429-90-5	E440	147 mg/kg	103	70.0	130	----
QC-2105328-003	RM	Arsenic	7440-38-2	E440	14.5 mg/kg	101	70.0	130	----

Sub-Matrix:

Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report: RM Target Concentration	Recovery (%): RM	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Metals (QCLot: 2105328) - continued									
QC-2105328-003	RM	Barium	7440-39-3	E440	0.352 mg/kg	101	70.0	130	----
QC-2105328-003	RM	Boron	7440-42-8	E440	3.47 mg/kg	107	70.0	130	----
QC-2105328-003	RM	Cadmium	7440-43-9	E440	0.153 mg/kg	108	70.0	130	----
QC-2105328-003	RM	Calcium	7440-70-2	E440	2010 mg/kg	101	70.0	130	----
QC-2105328-003	RM	Chromium	7440-47-3	E440	0.453 mg/kg	116	70.0	130	----
QC-2105328-003	RM	Cobalt	7440-48-4	E440	0.057 mg/kg	110	65.0	135	----
QC-2105328-003	RM	Copper	7440-50-8	E440	3.3 mg/kg	94.7	70.0	130	----
QC-2105328-003	RM	Iron	7439-89-6	E440	102 mg/kg	97.6	70.0	130	----
QC-2105328-003	RM	Lead	7439-92-1	E440	0.058 mg/kg	98.8	70.0	130	----
QC-2105328-003	RM	Magnesium	7439-95-4	E440	899 mg/kg	103	70.0	130	----
QC-2105328-003	RM	Manganese	7439-96-5	E440	0.948 mg/kg	104	70.0	130	----
QC-2105328-003	RM	Molybdenum	7439-98-7	E440	0.134 mg/kg	96.8	70.0	130	----
QC-2105328-003	RM	Nickel	7440-02-0	E440	0.33 mg/kg	115	40.0	160	----
QC-2105328-003	RM	Phosphorus	7723-14-0	E440	6700 mg/kg	99.1	70.0	130	----
QC-2105328-003	RM	Potassium	7440-09-7	E440	11600 mg/kg	106	70.0	130	----
QC-2105328-003	RM	Selenium	7782-49-2	E440	2.48 mg/kg	101	70.0	130	----
QC-2105328-003	RM	Sodium	7440-23-5	E440	9620 mg/kg	106	70.0	130	----
QC-2105328-003	RM	Strontium	7440-24-6	E440	10.6 mg/kg	98.0	70.0	130	----
QC-2105328-003	RM	Vanadium	7440-62-2	E440	0.269 mg/kg	102	70.0	130	----
QC-2105328-003	RM	Zinc	7440-66-6	E440	28.7 mg/kg	101	70.0	130	----
Metals (QCLot: 2105329)									
QC-2105329-003	RM	Silver	7440-22-4	E440.Ag	0.139 mg/kg	105	70.0	130	----
Metals (QCLot: 2105330)									
QC-2105330-003	RM	Mercury	7439-97-6	E510	0.281 mg/kg	104	70.0	130	----
Metals (QCLot: 2105331)									
QC-2105331-003	RM	Titanium	7440-32-6	E440.Ti	1.15 mg/kg	98.8	70.0	130	----
Metals (QCLot: 2105332)									
QC-2105332-003	RM	Sulfur	7704-34-9	E440.S	9510 mg/kg	98.6	70.0	130	----
Metals (QCLot: 2106797)									
QC-2106797-003	RM	Aluminum	7429-90-5	E440	147 mg/kg	97.4	70.0	130	----
QC-2106797-003	RM	Arsenic	7440-38-2	E440	14.5 mg/kg	98.4	70.0	130	----
QC-2106797-003	RM	Barium	7440-39-3	E440	0.352 mg/kg	104	70.0	130	----
QC-2106797-003	RM	Boron	7440-42-8	E440	3.47 mg/kg	115	70.0	130	----
QC-2106797-003	RM	Cadmium	7440-43-9	E440	0.153 mg/kg	106	70.0	130	----
QC-2106797-003	RM	Calcium	7440-70-2	E440	2010 mg/kg	112	70.0	130	----
QC-2106797-003	RM	Chromium	7440-47-3	E440	0.453 mg/kg	108	70.0	130	----
QC-2106797-003	RM	Cobalt	7440-48-4	E440	0.057 mg/kg	96.9	65.0	135	----

Sub-Matrix:

Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report: RM Target Concentration	Recovery (%): RM	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Metals (QCLot: 2106797) - continued									
QC-2106797-003	RM	Copper	7440-50-8	E440	3.3 mg/kg	101	70.0	130	----
QC-2106797-003	RM	Iron	7439-89-6	E440	102 mg/kg	99.2	70.0	130	----
QC-2106797-003	RM	Lead	7439-92-1	E440	0.058 mg/kg	96.9	70.0	130	----
QC-2106797-003	RM	Magnesium	7439-95-4	E440	899 mg/kg	102	70.0	130	----
QC-2106797-003	RM	Manganese	7439-96-5	E440	0.948 mg/kg	103	70.0	130	----
QC-2106797-003	RM	Molybdenum	7439-98-7	E440	0.134 mg/kg	90.2	70.0	130	----
QC-2106797-003	RM	Nickel	7440-02-0	E440	0.33 mg/kg	102	40.0	160	----
QC-2106797-003	RM	Phosphorus	7723-14-0	E440	6700 mg/kg	97.8	70.0	130	----
QC-2106797-003	RM	Potassium	7440-09-7	E440	11600 mg/kg	98.3	70.0	130	----
QC-2106797-003	RM	Selenium	7782-49-2	E440	2.48 mg/kg	97.8	70.0	130	----
QC-2106797-003	RM	Sodium	7440-23-5	E440	9620 mg/kg	105	70.0	130	----
QC-2106797-003	RM	Strontium	7440-24-6	E440	10.6 mg/kg	93.5	70.0	130	----
QC-2106797-003	RM	Vanadium	7440-62-2	E440	0.269 mg/kg	96.4	70.0	130	----
QC-2106797-003	RM	Zinc	7440-66-6	E440	28.7 mg/kg	102	70.0	130	----
Metals (QCLot: 2106798)									
QC-2106798-003	RM	Silver	7440-22-4	E440.Ag	0.139 mg/kg	96.7	70.0	130	----
Metals (QCLot: 2106799)									
QC-2106799-003	RM	Mercury	7439-97-6	E510	0.281 mg/kg	100	70.0	130	----
Metals (QCLot: 2106800)									
QC-2106800-003	RM	Titanium	7440-32-6	E440.Ti	1.15 mg/kg	91.7	70.0	130	----
Metals (QCLot: 2106801)									
QC-2106801-003	RM	Sulfur	7704-34-9	E440.S	9510 mg/kg	98.6	70.0	130	----
Metals (QCLot: 2210893)									
QC-2210893-003	RM	Aluminum	7429-90-5	E440	147 mg/kg	99.1	70.0	130	----
QC-2210893-003	RM	Arsenic	7440-38-2	E440	14.5 mg/kg	100	70.0	130	----
QC-2210893-003	RM	Barium	7440-39-3	E440	0.352 mg/kg	112	70.0	130	----
QC-2210893-003	RM	Boron	7440-42-8	E440	3.47 mg/kg	98.9	70.0	130	----
QC-2210893-003	RM	Cadmium	7440-43-9	E440	0.153 mg/kg	105	70.0	130	----
QC-2210893-003	RM	Calcium	7440-70-2	E440	2010 mg/kg	110	70.0	130	----
QC-2210893-003	RM	Chromium	7440-47-3	E440	0.453 mg/kg	116	70.0	130	----
QC-2210893-003	RM	Copper	7440-50-8	E440	3.3 mg/kg	101	70.0	130	----
QC-2210893-003	RM	Iron	7439-89-6	E440	102 mg/kg	102	70.0	130	----
QC-2210893-003	RM	Lead	7439-92-1	E440	0.058 mg/kg	105	70.0	130	----
QC-2210893-003	RM	Magnesium	7439-95-4	E440	899 mg/kg	105	70.0	130	----
QC-2210893-003	RM	Manganese	7439-96-5	E440	0.948 mg/kg	102	70.0	130	----
QC-2210893-003	RM	Molybdenum	7439-98-7	E440	0.134 mg/kg	90.9	70.0	130	----
QC-2210893-003	RM	Phosphorus	7723-14-0	E440	6700 mg/kg	104	70.0	130	----

Sub-Matrix:

Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report: RM Target Concentration	Recovery (%): RM	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Metals (QCLot: 2210893) - continued									
QC-2210893-003	RM	Potassium	7440-09-7	E440	11600 mg/kg	107	70.0	130	----
QC-2210893-003	RM	Selenium	7782-49-2	E440	2.48 mg/kg	99.4	70.0	130	----
QC-2210893-003	RM	Sodium	7440-23-5	E440	9620 mg/kg	104	70.0	130	----
QC-2210893-003	RM	Strontium	7440-24-6	E440	10.6 mg/kg	93.3	70.0	130	----
QC-2210893-003	RM	Vanadium	7440-62-2	E440	0.269 mg/kg	99.4	70.0	130	----
QC-2210893-003	RM	Zinc	7440-66-6	E440	28.7 mg/kg	103	70.0	130	----
Metals (QCLot: 2210894)									
QC-2210894-003	RM	Silver	7440-22-4	E440.Ag	0.139 mg/kg	94.8	70.0	130	----
Metals (QCLot: 2210896)									
QC-2210896-003	RM	Titanium	7440-32-6	E440.Ti	1.15 mg/kg	99.7	70.0	130	----
Metals (QCLot: 2213509)									
QC-2213509-003	RM	Sulfur	7704-34-9	E440.S	9510 mg/kg	102	70.0	130	----
Metals (QCLot: 2213510)									
QC-2213510-003	RM	Aluminum	7429-90-5	E440	147 mg/kg	99.1	70.0	130	----
QC-2213510-003	RM	Arsenic	7440-38-2	E440	14.5 mg/kg	100	70.0	130	----
QC-2213510-003	RM	Barium	7440-39-3	E440	0.352 mg/kg	112	70.0	130	----
QC-2213510-003	RM	Boron	7440-42-8	E440	3.47 mg/kg	98.9	70.0	130	----
QC-2213510-003	RM	Cadmium	7440-43-9	E440	0.153 mg/kg	105	70.0	130	----
QC-2213510-003	RM	Calcium	7440-70-2	E440	2010 mg/kg	110	70.0	130	----
QC-2213510-003	RM	Chromium	7440-47-3	E440	0.453 mg/kg	116	70.0	130	----
QC-2213510-003	RM	Copper	7440-50-8	E440	3.3 mg/kg	101	70.0	130	----
QC-2213510-003	RM	Iron	7439-89-6	E440	102 mg/kg	102	70.0	130	----
QC-2213510-003	RM	Lead	7439-92-1	E440	0.058 mg/kg	105	70.0	130	----
QC-2213510-003	RM	Magnesium	7439-95-4	E440	899 mg/kg	105	70.0	130	----
QC-2213510-003	RM	Manganese	7439-96-5	E440	0.948 mg/kg	102	70.0	130	----
QC-2213510-003	RM	Molybdenum	7439-98-7	E440	0.134 mg/kg	90.9	70.0	130	----
QC-2213510-003	RM	Phosphorus	7723-14-0	E440	6700 mg/kg	104	70.0	130	----
QC-2213510-003	RM	Potassium	7440-09-7	E440	11600 mg/kg	107	70.0	130	----
QC-2213510-003	RM	Selenium	7782-49-2	E440	2.48 mg/kg	99.4	70.0	130	----
QC-2213510-003	RM	Sodium	7440-23-5	E440	9620 mg/kg	104	70.0	130	----
QC-2213510-003	RM	Strontium	7440-24-6	E440	10.6 mg/kg	93.3	70.0	130	----
QC-2213510-003	RM	Vanadium	7440-62-2	E440	0.269 mg/kg	99.4	70.0	130	----
QC-2213510-003	RM	Zinc	7440-66-6	E440	28.7 mg/kg	103	70.0	130	----
Metals (QCLot: 2213511)									
QC-2213511-003	RM	Mercury	7439-97-6	E510	0.281 mg/kg	102	70.0	130	----
Metals (QCLot: 2215360)									
QC-2215360-003	RM	Sulfur	7704-34-9	E440.S	9510 mg/kg	102	70.0	130	----

Sub-Matrix:

Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report: RM Target Concentration	Recovery (%): RM	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Metals (QCLot: 2257719)									
QC-2257719-003	RM	Sulfur	7704-34-9	E440.S	9510 mg/kg	98.6	70.0	130	----
Metals (QCLot: 2268884)									
QC-2268884-003	RM	Sulfur	7704-34-9	E440.S	9510 mg/kg	98.6	70.0	130	----
Metals (QCLot: 2272024)									
QC-2272024-003	RM	Aluminum	7429-90-5	E440	147 mg/kg	98.7	70.0	130	----
QC-2272024-003	RM	Arsenic	7440-38-2	E440	14.5 mg/kg	99.6	70.0	130	----
QC-2272024-003	RM	Barium	7440-39-3	E440	0.352 mg/kg	106	70.0	130	----
QC-2272024-003	RM	Boron	7440-42-8	E440	3.47 mg/kg	101	70.0	130	----
QC-2272024-003	RM	Cadmium	7440-43-9	E440	0.153 mg/kg	102	70.0	130	----
QC-2272024-003	RM	Calcium	7440-70-2	E440	2010 mg/kg	103	70.0	130	----
QC-2272024-003	RM	Chromium	7440-47-3	E440	0.453 mg/kg	109	70.0	130	----
QC-2272024-003	RM	Copper	7440-50-8	E440	3.3 mg/kg	99.3	70.0	130	----
QC-2272024-003	RM	Iron	7439-89-6	E440	102 mg/kg	101	70.0	130	----
QC-2272024-003	RM	Lead	7439-92-1	E440	0.058 mg/kg	104	70.0	130	----
QC-2272024-003	RM	Magnesium	7439-95-4	E440	899 mg/kg	105	70.0	130	----
QC-2272024-003	RM	Manganese	7439-96-5	E440	0.948 mg/kg	100	70.0	130	----
QC-2272024-003	RM	Molybdenum	7439-98-7	E440	0.134 mg/kg	94.0	70.0	130	----
QC-2272024-003	RM	Phosphorus	7723-14-0	E440	6700 mg/kg	99.8	70.0	130	----
QC-2272024-003	RM	Potassium	7440-09-7	E440	11600 mg/kg	105	70.0	130	----
QC-2272024-003	RM	Selenium	7782-49-2	E440	2.48 mg/kg	101	70.0	130	----
QC-2272024-003	RM	Sodium	7440-23-5	E440	9620 mg/kg	99.9	70.0	130	----
QC-2272024-003	RM	Strontium	7440-24-6	E440	10.6 mg/kg	96.7	70.0	130	----
QC-2272024-003	RM	Vanadium	7440-62-2	E440	0.269 mg/kg	98.2	70.0	130	----
QC-2272024-003	RM	Zinc	7440-66-6	E440	28.7 mg/kg	102	70.0	130	----
Metals (QCLot: 2272025)									
QC-2272025-003	RM	Mercury	7439-97-6	E510	0.281 mg/kg	97.8	70.0	130	----

Sub-Matrix:

Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report: RM Target Concentration	Recovery (%): RM	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Saturated Paste Extractables (QCLot: 2077472)									
QC-2077472-003	RM	Conductivity, saturated paste	----	E102	9900 µS/cm	103	70.0	130	----
Saturated Paste Extractables (QCLot: 2077473)									
QC-2077473-002	RM	pH, saturated paste	----	E114	7.4 pH units	102	95.0	105	----
Saturated Paste Extractables (QCLot: 2077474)									
QC-2077474-003	RM	% Saturation	----	E141	43.9 %	96.2	70.0	130	----

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QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **EO2505051**	Page	: 1 of 51
Amendment	: **2**		
Client	: **Montrose Environmental Solutions Canada Inc.**	Laboratory	: ALS Environmental - Edmonton
Contact	: Lindsay Oiffer	Account Manager	: Kieran Tordoff
Address	: 13804 164 St NW Edmonton AB Canada T5V 0C8	Address	: 9450 - 17 Avenue NW Edmonton, Alberta Canada T6N 1M9
Telephone	: 780 989 8347	Telephone	: +1 780 413 5227
Project	: 15867-503	Date Samples Received	: 18-Jun-2025 14:45
PO	: PO-086285	Issue Date	: 15-Oct-2025 12:39
C-O-C number	: 119878,119881,119879,119882		
Sampler	: LO/LZ		
Site	: Swan Hills Treatment Centre		
Quote number	: EO24-MSOI100-004 (Swan Hills Treatment Centre)		
No. of samples received	: 71		
No. of samples analysed	: 71		

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

- 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: **Biota**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Method Blank (MB) Values								
Metals	QC-MRG5-2105042001	----	Manganese	7439-96-5	E440	0.053 mg/kg B	0.05 mg/kg	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.*

Duplicate (DUP) RPDs								
Metals	EO2505051-001	15867250616001	Antimony	7440-36-0	E440	0.024 % DUP-H, J	Diff <2x LOR	Low Level DUP DQO exceeded (difference > 2 LOR).

Result Qualifiers

Qualifier	Description
DUP-H	*Duplicate results outside ALS DQO, due to sample heterogeneity.*
J	*Duplicate results and limits are expressed in terms of absolute difference.*

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 / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250618010	E766	18-Jun-2025	24-Jul-2025	365 days	36 days	✓	28-Jul-2025	365 days	4 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250618011	E766	18-Jun-2025	24-Jul-2025	365 days	36 days	✓	28-Jul-2025	365 days	4 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250618110	E766	18-Jun-2025	24-Jul-2025	365 days	36 days	✓	28-Jul-2025	365 days	4 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250618111	E766	18-Jun-2025	24-Jul-2025	365 days	36 days	✓	28-Jul-2025	365 days	4 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250617006	E766	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	28-Jul-2025	365 days	4 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250617007	E766	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	28-Jul-2025	365 days	4 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250617008	E766	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	28-Jul-2025	365 days	4 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250617009	E766	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	28-Jul-2025	365 days	4 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250617105	E766	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	28-Jul-2025	365 days	4 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250617106	E766	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	28-Jul-2025	365 days	4 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250617107	E766	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	28-Jul-2025	365 days	4 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250617108	E766	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	28-Jul-2025	365 days	4 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250617109	E766	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	28-Jul-2025	365 days	4 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250616001	E766	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	28-Jul-2025	365 days	4 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250616002	E766	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	28-Jul-2025	365 days	4 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250616004	E766	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	28-Jul-2025	365 days	4 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250616101	E766	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	28-Jul-2025	365 days	4 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250616102	E766	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	28-Jul-2025	365 days	4 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250616104	E766	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	28-Jul-2025	365 days	4 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250617005	E766	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	28-Jul-2025	365 days	4 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag										
15867250618010	E510	18-Jun-2025	15-Jul-2025	365 days	27 days	✓	16-Jul-2025	365 days	27 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag										
15867250618110	E510	18-Jun-2025	15-Jul-2025	365 days	27 days	✓	16-Jul-2025	365 days	27 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag										
15867250618219	E510	18-Jun-2025	15-Jul-2025	365 days	27 days	✓	16-Jul-2025	365 days	27 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag										
15867250618220	E510	18-Jun-2025	15-Jul-2025	365 days	27 days	✓	16-Jul-2025	365 days	27 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag										
15867250618221	E510	18-Jun-2025	15-Jul-2025	365 days	27 days	✓	16-Jul-2025	365 days	27 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250617007	E510	17-Jun-2025	15-Jul-2025	365 days	28 days	✓	16-Jul-2025	365 days	28 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250617008	E510	17-Jun-2025	15-Jul-2025	365 days	28 days	✓	16-Jul-2025	365 days	28 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250617009	E510	17-Jun-2025	15-Jul-2025	365 days	28 days	✓	16-Jul-2025	365 days	28 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250617107	E510	17-Jun-2025	15-Jul-2025	365 days	28 days	✓	16-Jul-2025	365 days	28 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250617108	E510	17-Jun-2025	15-Jul-2025	365 days	28 days	✓	16-Jul-2025	365 days	28 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250617109	E510	17-Jun-2025	15-Jul-2025	365 days	28 days	✓	16-Jul-2025	365 days	28 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250617006	E510	17-Jun-2025	15-Jul-2025	365 days	29 days	✓	22-Jul-2025	365 days	29 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250617105	E510	17-Jun-2025	15-Jul-2025	365 days	29 days	✓	22-Jul-2025	365 days	29 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250617106	E510	17-Jun-2025	15-Jul-2025	365 days	29 days	✓	22-Jul-2025	365 days	29 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250618011	E510	18-Jun-2025	16-Jul-2025	365 days	29 days	✓	16-Jul-2025	365 days	29 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250618111	E510	18-Jun-2025	16-Jul-2025	365 days	29 days	✓	16-Jul-2025	365 days	29 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250618217	E510	18-Jun-2025	16-Jul-2025	365 days	29 days	✓	16-Jul-2025	365 days	29 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250618218	E510	18-Jun-2025	16-Jul-2025	365 days	29 days	✓	16-Jul-2025	365 days	29 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250616001	E510	16-Jun-2025	15-Jul-2025	365 days	30 days	✓	22-Jul-2025	365 days	30 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250616002	E510	16-Jun-2025	15-Jul-2025	365 days	30 days	✓	22-Jul-2025	365 days	30 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250616003	E510	16-Jun-2025	15-Jul-2025	365 days	30 days	✓	22-Jul-2025	365 days	30 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250616004	E510	16-Jun-2025	15-Jul-2025	365 days	30 days	✓	22-Jul-2025	365 days	30 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250616101	E510	16-Jun-2025	15-Jul-2025	365 days	30 days	✓	22-Jul-2025	365 days	30 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250616102	E510	16-Jun-2025	15-Jul-2025	365 days	30 days	✓	22-Jul-2025	365 days	30 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250616103	E510	16-Jun-2025	15-Jul-2025	365 days	30 days	✓	22-Jul-2025	365 days	30 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250616104	E510	16-Jun-2025	15-Jul-2025	365 days	30 days	✓	22-Jul-2025	365 days	30 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250617005	E510	16-Jun-2025	15-Jul-2025	365 days	30 days	✓	22-Jul-2025	365 days	30 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250617207	E510	17-Jun-2025	16-Jul-2025	365 days	30 days	✓	16-Jul-2025	365 days	30 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250617208	E510	17-Jun-2025	16-Jul-2025	365 days	30 days	✓	16-Jul-2025	365 days	30 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250617209	E510	17-Jun-2025	16-Jul-2025	365 days	30 days	✓	16-Jul-2025	365 days	30 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250617210	E510	17-Jun-2025	16-Jul-2025	365 days	30 days	✓	16-Jul-2025	365 days	30 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250617211	E510	17-Jun-2025	16-Jul-2025	365 days	30 days	✓	16-Jul-2025	365 days	30 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250617212	E510	17-Jun-2025	16-Jul-2025	365 days	30 days	✓	16-Jul-2025	365 days	30 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250617213	E510	17-Jun-2025	16-Jul-2025	365 days	30 days	✓	16-Jul-2025	365 days	30 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250617214	E510	17-Jun-2025	16-Jul-2025	365 days	30 days	✓	16-Jul-2025	365 days	30 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250617215	E510	17-Jun-2025	16-Jul-2025	365 days	30 days	✓	16-Jul-2025	365 days	30 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250617216	E510	17-Jun-2025	16-Jul-2025	365 days	30 days	✓	16-Jul-2025	365 days	30 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250616201	E510	16-Jun-2025	16-Jul-2025	365 days	31 days	✓	16-Jul-2025	365 days	31 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250616202	E510	16-Jun-2025	16-Jul-2025	365 days	31 days	✓	16-Jul-2025	365 days	31 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250616203	E510	16-Jun-2025	16-Jul-2025	365 days	31 days	✓	16-Jul-2025	365 days	31 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250616204	E510	16-Jun-2025	16-Jul-2025	365 days	31 days	✓	16-Jul-2025	365 days	31 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250616205	E510	16-Jun-2025	16-Jul-2025	365 days	31 days	✓	16-Jul-2025	365 days	31 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250616206	E510	16-Jun-2025	16-Jul-2025	365 days	31 days	✓	16-Jul-2025	365 days	31 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250617006 Recheck	E510	11-Sep-2025	11-Sep-2025	449 days	85 days	✓	15-Sep-2025	449 days	85 days	✓
Metals : Mercury in Biota by CVAAS (DRY units, Routine)										
LDPE bag 15867250617212 Recheck	E510	10-Oct-2025	11-Oct-2025	478 days	115 days	✓	15-Oct-2025	478 days	115 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250618110	E440	18-Jun-2025	15-Jul-2025	730 days	27 days	✓	15-Jul-2025	730 days	27 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250618219	E440	18-Jun-2025	15-Jul-2025	730 days	27 days	✓	15-Jul-2025	730 days	27 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250618220	E440	18-Jun-2025	15-Jul-2025	730 days	27 days	✓	15-Jul-2025	730 days	27 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250618221	E440	18-Jun-2025	15-Jul-2025	730 days	27 days	✓	15-Jul-2025	730 days	27 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617007	E440	17-Jun-2025	15-Jul-2025	730 days	28 days	✓	15-Jul-2025	730 days	28 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250617008	E440	17-Jun-2025	15-Jul-2025	730 days	28 days	✓	15-Jul-2025	730 days	28 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250617009	E440	17-Jun-2025	15-Jul-2025	730 days	28 days	✓	15-Jul-2025	730 days	28 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250617107	E440	17-Jun-2025	15-Jul-2025	730 days	28 days	✓	15-Jul-2025	730 days	28 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250617108	E440	17-Jun-2025	15-Jul-2025	730 days	28 days	✓	15-Jul-2025	730 days	28 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250617109	E440	17-Jun-2025	15-Jul-2025	730 days	28 days	✓	15-Jul-2025	730 days	28 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250617006	E440	17-Jun-2025	15-Jul-2025	730 days	29 days	✓	15-Jul-2025	730 days	29 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250617105	E440	17-Jun-2025	15-Jul-2025	730 days	29 days	✓	15-Jul-2025	730 days	29 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250617106	E440	17-Jun-2025	15-Jul-2025	730 days	29 days	✓	15-Jul-2025	730 days	29 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250618011	E440	18-Jun-2025	16-Jul-2025	730 days	29 days	✓	17-Jul-2025	730 days	29 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250618111	E440	18-Jun-2025	16-Jul-2025	730 days	29 days	✓	17-Jul-2025	730 days	29 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250618217	E440	18-Jun-2025	16-Jul-2025	730 days	29 days	✓	17-Jul-2025	730 days	29 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250618218	E440	18-Jun-2025	16-Jul-2025	730 days	29 days	✓	17-Jul-2025	730 days	29 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616001	E440	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616002	E440	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616003	E440	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616004	E440	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616101	E440	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616102	E440	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616103	E440	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616104	E440	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617005	E440	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617207	E440	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617208	E440	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617209	E440	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617210	E440	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617211	E440	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617212	E440	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617213	E440	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617214	E440	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617215	E440	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617216	E440	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250618010	E440	18-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616201	E440	16-Jun-2025	16-Jul-2025	730 days	31 days	✓	17-Jul-2025	730 days	31 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616202	E440	16-Jun-2025	16-Jul-2025	730 days	31 days	✓	17-Jul-2025	730 days	31 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616203	E440	16-Jun-2025	16-Jul-2025	730 days	31 days	✓	17-Jul-2025	730 days	31 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616204	E440	16-Jun-2025	16-Jul-2025	730 days	31 days	✓	17-Jul-2025	730 days	31 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250616205	E440	16-Jun-2025	16-Jul-2025	730 days	31 days	✓	17-Jul-2025	730 days	31 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250616206	E440	16-Jun-2025	16-Jul-2025	730 days	31 days	✓	17-Jul-2025	730 days	31 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15687250617008 Recheck	E440	18-Jun-2025	10-Sep-2025	730 days	85 days	✓	10-Sep-2025	730 days	85 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250617007 Recheck	E440	18-Jun-2025	10-Sep-2025	730 days	85 days	✓	10-Sep-2025	730 days	85 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250617009 Recheck	E440	18-Jun-2025	10-Sep-2025	730 days	85 days	✓	10-Sep-2025	730 days	85 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250617107 Recheck	E440	18-Jun-2025	10-Sep-2025	730 days	85 days	✓	10-Sep-2025	730 days	85 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250617109 Recheck	E440	18-Jun-2025	10-Sep-2025	730 days	85 days	✓	10-Sep-2025	730 days	85 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250618010 Recheck	E440	18-Jun-2025	10-Sep-2025	730 days	85 days	✓	10-Sep-2025	730 days	85 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250618110 Recheck	E440	18-Jun-2025	10-Sep-2025	730 days	85 days	✓	10-Sep-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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250616201 Recheck	E440	10-Sep-2025	10-Sep-2025	813 days	84 days	✓	10-Sep-2025	813 days	84 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250618011 Recheck	E440	10-Sep-2025	11-Sep-2025	813 days	85 days	✓	16-Sep-2025	813 days	85 days	✓
Metals : Metals in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250617212 Recheck	E440	10-Oct-2025	11-Oct-2025	843 days	115 days	✓	14-Oct-2025	843 days	115 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250618010	E440.Ag	18-Jun-2025	15-Jul-2025	730 days	27 days	✓	15-Jul-2025	730 days	27 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250618110	E440.Ag	18-Jun-2025	15-Jul-2025	730 days	27 days	✓	15-Jul-2025	730 days	27 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250618219	E440.Ag	18-Jun-2025	15-Jul-2025	730 days	27 days	✓	15-Jul-2025	730 days	27 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250618220	E440.Ag	18-Jun-2025	15-Jul-2025	730 days	27 days	✓	15-Jul-2025	730 days	27 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250618221	E440.Ag	18-Jun-2025	15-Jul-2025	730 days	27 days	✓	15-Jul-2025	730 days	27 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250617007	E440.Ag	17-Jun-2025	15-Jul-2025	730 days	28 days	✓	15-Jul-2025	730 days	28 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617008	E440.Ag	17-Jun-2025	15-Jul-2025	730 days	28 days	✓	15-Jul-2025	730 days	28 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617009	E440.Ag	17-Jun-2025	15-Jul-2025	730 days	28 days	✓	15-Jul-2025	730 days	28 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617107	E440.Ag	17-Jun-2025	15-Jul-2025	730 days	28 days	✓	15-Jul-2025	730 days	28 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617108	E440.Ag	17-Jun-2025	15-Jul-2025	730 days	28 days	✓	15-Jul-2025	730 days	28 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617109	E440.Ag	17-Jun-2025	15-Jul-2025	730 days	28 days	✓	15-Jul-2025	730 days	28 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617006	E440.Ag	17-Jun-2025	15-Jul-2025	730 days	29 days	✓	15-Jul-2025	730 days	29 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617105	E440.Ag	17-Jun-2025	15-Jul-2025	730 days	29 days	✓	15-Jul-2025	730 days	29 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617106	E440.Ag	17-Jun-2025	15-Jul-2025	730 days	29 days	✓	15-Jul-2025	730 days	29 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250618011	E440.Ag	18-Jun-2025	16-Jul-2025	730 days	29 days	✓	17-Jul-2025	730 days	29 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250618111	E440.Ag	18-Jun-2025	16-Jul-2025	730 days	29 days	✓	17-Jul-2025	730 days	29 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250618217	E440.Ag	18-Jun-2025	16-Jul-2025	730 days	29 days	✓	17-Jul-2025	730 days	29 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250618218	E440.Ag	18-Jun-2025	16-Jul-2025	730 days	29 days	✓	17-Jul-2025	730 days	29 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616001	E440.Ag	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616002	E440.Ag	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616003	E440.Ag	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616004	E440.Ag	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616101	E440.Ag	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616102	E440.Ag	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616103	E440.Ag	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616104	E440.Ag	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617005	E440.Ag	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617207	E440.Ag	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617208	E440.Ag	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617209	E440.Ag	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617210	E440.Ag	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617211	E440.Ag	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617212	E440.Ag	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617213	E440.Ag	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617214	E440.Ag	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617215	E440.Ag	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617216	E440.Ag	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616201	E440.Ag	16-Jun-2025	16-Jul-2025	730 days	31 days	✓	17-Jul-2025	730 days	31 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616202	E440.Ag	16-Jun-2025	16-Jul-2025	730 days	31 days	✓	17-Jul-2025	730 days	31 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616203	E440.Ag	16-Jun-2025	16-Jul-2025	730 days	31 days	✓	17-Jul-2025	730 days	31 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616204	E440.Ag	16-Jun-2025	16-Jul-2025	730 days	31 days	✓	17-Jul-2025	730 days	31 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616205	E440.Ag	16-Jun-2025	16-Jul-2025	730 days	31 days	✓	17-Jul-2025	730 days	31 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250616206	E440.Ag	16-Jun-2025	16-Jul-2025	730 days	31 days	✓	17-Jul-2025	730 days	31 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15687250617008 Recheck	E440.Ag	18-Jun-2025	10-Sep-2025	730 days	85 days	✓	10-Sep-2025	730 days	85 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250617007 Recheck	E440.Ag	18-Jun-2025	10-Sep-2025	730 days	85 days	✓	10-Sep-2025	730 days	85 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250617009 Recheck	E440.Ag	18-Jun-2025	10-Sep-2025	730 days	85 days	✓	10-Sep-2025	730 days	85 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250617107 Recheck	E440.Ag	18-Jun-2025	10-Sep-2025	730 days	85 days	✓	10-Sep-2025	730 days	85 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250617109 Recheck	E440.Ag	18-Jun-2025	10-Sep-2025	730 days	85 days	✓	10-Sep-2025	730 days	85 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250618010 Recheck	E440.Ag	18-Jun-2025	10-Sep-2025	730 days	85 days	✓	10-Sep-2025	730 days	85 days	✓
Metals : Silver in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250618110 Recheck	E440.Ag	18-Jun-2025	10-Sep-2025	730 days	85 days	✓	10-Sep-2025	730 days	85 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250618217	E440.S	18-Jun-2025	03-Oct-2025	730 days	108 days	✓	09-Oct-2025	730 days	108 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250618220	E440.S	18-Jun-2025	03-Oct-2025	730 days	108 days	✓	09-Oct-2025	730 days	108 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250618221	E440.S	18-Jun-2025	03-Oct-2025	730 days	108 days	✓	09-Oct-2025	730 days	108 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250617207	E440.S	17-Jun-2025	03-Oct-2025	730 days	109 days	✓	09-Oct-2025	730 days	109 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250617208	E440.S	17-Jun-2025	03-Oct-2025	730 days	109 days	✓	09-Oct-2025	730 days	109 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250617209	E440.S	17-Jun-2025	03-Oct-2025	730 days	109 days	✓	09-Oct-2025	730 days	109 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250617210	E440.S	17-Jun-2025	03-Oct-2025	730 days	109 days	✓	09-Oct-2025	730 days	109 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250617211	E440.S	17-Jun-2025	03-Oct-2025	730 days	109 days	✓	09-Oct-2025	730 days	109 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250617212	E440.S	17-Jun-2025	03-Oct-2025	730 days	109 days	✓	09-Oct-2025	730 days	109 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250617213	E440.S	17-Jun-2025	03-Oct-2025	730 days	109 days	✓	09-Oct-2025	730 days	109 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617214	E440.S	17-Jun-2025	03-Oct-2025	730 days	109 days	✓	09-Oct-2025	730 days	109 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617215	E440.S	17-Jun-2025	03-Oct-2025	730 days	109 days	✓	09-Oct-2025	730 days	109 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617216	E440.S	17-Jun-2025	03-Oct-2025	730 days	109 days	✓	09-Oct-2025	730 days	109 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616201	E440.S	16-Jun-2025	03-Oct-2025	730 days	110 days	✓	09-Oct-2025	730 days	110 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616202	E440.S	16-Jun-2025	03-Oct-2025	730 days	110 days	✓	09-Oct-2025	730 days	110 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616203	E440.S	16-Jun-2025	03-Oct-2025	730 days	110 days	✓	09-Oct-2025	730 days	110 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616204	E440.S	16-Jun-2025	03-Oct-2025	730 days	110 days	✓	09-Oct-2025	730 days	110 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616205	E440.S	16-Jun-2025	03-Oct-2025	730 days	110 days	✓	09-Oct-2025	730 days	110 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616206	E440.S	16-Jun-2025	03-Oct-2025	730 days	110 days	✓	09-Oct-2025	730 days	110 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250618218	E440.S	18-Jun-2025	09-Oct-2025	730 days	114 days	✓	09-Oct-2025	730 days	114 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250618219	E440.S	18-Jun-2025	09-Oct-2025	730 days	114 days	✓	09-Oct-2025	730 days	114 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250618010	E440.S	18-Jun-2025	15-Jul-2025	730 days	27 days	✓	15-Jul-2025	730 days	27 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250618110	E440.S	18-Jun-2025	15-Jul-2025	730 days	27 days	✓	15-Jul-2025	730 days	27 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617007	E440.S	17-Jun-2025	15-Jul-2025	730 days	28 days	✓	15-Jul-2025	730 days	28 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617008	E440.S	17-Jun-2025	15-Jul-2025	730 days	28 days	✓	15-Jul-2025	730 days	28 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617009	E440.S	17-Jun-2025	15-Jul-2025	730 days	28 days	✓	15-Jul-2025	730 days	28 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617107	E440.S	17-Jun-2025	15-Jul-2025	730 days	28 days	✓	15-Jul-2025	730 days	28 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617108	E440.S	17-Jun-2025	15-Jul-2025	730 days	28 days	✓	15-Jul-2025	730 days	28 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617109	E440.S	17-Jun-2025	15-Jul-2025	730 days	28 days	✓	15-Jul-2025	730 days	28 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617006	E440.S	17-Jun-2025	15-Jul-2025	730 days	29 days	✓	15-Jul-2025	730 days	29 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617105	E440.S	17-Jun-2025	15-Jul-2025	730 days	29 days	✓	15-Jul-2025	730 days	29 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617106	E440.S	17-Jun-2025	15-Jul-2025	730 days	29 days	✓	15-Jul-2025	730 days	29 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250618011	E440.S	18-Jun-2025	16-Jul-2025	730 days	29 days	✓	17-Jul-2025	730 days	29 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250618111	E440.S	18-Jun-2025	16-Jul-2025	730 days	29 days	✓	17-Jul-2025	730 days	29 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616001	E440.S	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616002	E440.S	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616003	E440.S	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616004	E440.S	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616101	E440.S	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616102	E440.S	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616103	E440.S	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616104	E440.S	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617005	E440.S	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15687250617008 Recheck	E440.S	18-Jun-2025	12-Sep-2025	730 days	86 days	✓	16-Sep-2025	730 days	86 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617007 Recheck	E440.S	18-Jun-2025	11-Sep-2025	730 days	86 days	✓	16-Sep-2025	730 days	86 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617009 Recheck	E440.S	18-Jun-2025	12-Sep-2025	730 days	86 days	✓	16-Sep-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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250617107 Recheck	E440.S	18-Jun-2025	12-Sep-2025	730 days	86 days	✓	16-Sep-2025	730 days	86 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250617109 Recheck	E440.S	18-Jun-2025	12-Sep-2025	730 days	86 days	✓	16-Sep-2025	730 days	86 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250618010 Recheck	E440.S	18-Jun-2025	12-Sep-2025	730 days	86 days	✓	16-Sep-2025	730 days	86 days	✓
Metals : Sulfur in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250618110 Recheck	E440.S	18-Jun-2025	11-Sep-2025	730 days	86 days	✓	16-Sep-2025	730 days	86 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250618010	E440.Ti	18-Jun-2025	15-Jul-2025	730 days	27 days	✓	15-Jul-2025	730 days	27 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250618110	E440.Ti	18-Jun-2025	15-Jul-2025	730 days	27 days	✓	15-Jul-2025	730 days	27 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250618219	E440.Ti	18-Jun-2025	15-Jul-2025	730 days	27 days	✓	15-Jul-2025	730 days	27 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250618220	E440.Ti	18-Jun-2025	15-Jul-2025	730 days	27 days	✓	15-Jul-2025	730 days	27 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag										
15867250618221	E440.Ti	18-Jun-2025	15-Jul-2025	730 days	27 days	✓	15-Jul-2025	730 days	27 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617007	E440.Ti	17-Jun-2025	15-Jul-2025	730 days	28 days	✓	15-Jul-2025	730 days	28 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617008	E440.Ti	17-Jun-2025	15-Jul-2025	730 days	28 days	✓	15-Jul-2025	730 days	28 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617009	E440.Ti	17-Jun-2025	15-Jul-2025	730 days	28 days	✓	15-Jul-2025	730 days	28 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617107	E440.Ti	17-Jun-2025	15-Jul-2025	730 days	28 days	✓	15-Jul-2025	730 days	28 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617108	E440.Ti	17-Jun-2025	15-Jul-2025	730 days	28 days	✓	15-Jul-2025	730 days	28 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617109	E440.Ti	17-Jun-2025	15-Jul-2025	730 days	28 days	✓	15-Jul-2025	730 days	28 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617006	E440.Ti	17-Jun-2025	15-Jul-2025	730 days	29 days	✓	15-Jul-2025	730 days	29 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617105	E440.Ti	17-Jun-2025	15-Jul-2025	730 days	29 days	✓	15-Jul-2025	730 days	29 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617106	E440.Ti	17-Jun-2025	15-Jul-2025	730 days	29 days	✓	15-Jul-2025	730 days	29 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250618011	E440.Ti	18-Jun-2025	16-Jul-2025	730 days	29 days	✓	17-Jul-2025	730 days	29 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250618111	E440.Ti	18-Jun-2025	16-Jul-2025	730 days	29 days	✓	17-Jul-2025	730 days	29 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250618217	E440.Ti	18-Jun-2025	16-Jul-2025	730 days	29 days	✓	17-Jul-2025	730 days	29 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250618218	E440.Ti	18-Jun-2025	16-Jul-2025	730 days	29 days	✓	17-Jul-2025	730 days	29 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616001	E440.Ti	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616002	E440.Ti	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616003	E440.Ti	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616004	E440.Ti	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616101	E440.Ti	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616102	E440.Ti	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616103	E440.Ti	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616104	E440.Ti	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617005	E440.Ti	16-Jun-2025	15-Jul-2025	730 days	30 days	✓	15-Jul-2025	730 days	30 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617207	E440.Ti	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617208	E440.Ti	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617209	E440.Ti	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617210	E440.Ti	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617211	E440.Ti	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617212	E440.Ti	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617213	E440.Ti	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617214	E440.Ti	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617215	E440.Ti	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617216	E440.Ti	17-Jun-2025	16-Jul-2025	730 days	30 days	✓	17-Jul-2025	730 days	30 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616201	E440.Ti	16-Jun-2025	16-Jul-2025	730 days	31 days	✓	17-Jul-2025	730 days	31 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616202	E440.Ti	16-Jun-2025	16-Jul-2025	730 days	31 days	✓	17-Jul-2025	730 days	31 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616203	E440.Ti	16-Jun-2025	16-Jul-2025	730 days	31 days	✓	17-Jul-2025	730 days	31 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616204	E440.Ti	16-Jun-2025	16-Jul-2025	730 days	31 days	✓	17-Jul-2025	730 days	31 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616205	E440.Ti	16-Jun-2025	16-Jul-2025	730 days	31 days	✓	17-Jul-2025	730 days	31 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250616206	E440.Ti	16-Jun-2025	16-Jul-2025	730 days	31 days	✓	17-Jul-2025	730 days	31 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15687250617008 Recheck	E440.Ti	18-Jun-2025	10-Sep-2025	730 days	85 days	✓	10-Sep-2025	730 days	85 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617007 Recheck	E440.Ti	18-Jun-2025	10-Sep-2025	730 days	85 days	✓	10-Sep-2025	730 days	85 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617009 Recheck	E440.Ti	18-Jun-2025	10-Sep-2025	730 days	85 days	✓	10-Sep-2025	730 days	85 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617107 Recheck	E440.Ti	18-Jun-2025	10-Sep-2025	730 days	85 days	✓	10-Sep-2025	730 days	85 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250617109 Recheck	E440.Ti	18-Jun-2025	10-Sep-2025	730 days	85 days	✓	10-Sep-2025	730 days	85 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250618010 Recheck	E440.Ti	18-Jun-2025	10-Sep-2025	730 days	85 days	✓	10-Sep-2025	730 days	85 days	✓
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250618110 Recheck	E440.Ti	18-Jun-2025	10-Sep-2025	730 days	85 days	✓	10-Sep-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* Rec	*Holding Times* Actual	*Eval*	*Analysis Date*	*Holding Times* Rec	*Holding Times* Actual	*Eval*
Metals : Titanium in Biota by CRC ICPMS (DRY units, Routine)										
LDPE bag 15867250618011 Recheck	E440.Ti	10-Sep-2025	10-Sep-2025	813 days	84 days	✓	10-Sep-2025	813 days	84 days	✓
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 15687250617008 Recheck	E144	18-Jun-2025	----	----	----		11-Sep-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 15867250616001	E144	16-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 15867250616002	E144	16-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 15867250616003	E144	16-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 15867250616004	E144	16-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 15867250616101	E144	16-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 15867250616102	E144	16-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 15867250616103	E144	16-Jun-2025	----	----	----		07-Jul-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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250616104	E144	16-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250616201	E144	16-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250616201 Recheck	E144	10-Sep-2025	----	----	----		11-Sep-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250616202	E144	16-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250616203	E144	16-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250616204	E144	16-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250616205	E144	16-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250616206	E144	16-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250617005	E144	16-Jun-2025	----	----	----		07-Jul-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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250617006	E144	17-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250617006 Recheck	E144	11-Sep-2025	----	----	----		11-Sep-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250617007	E144	17-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250617007 Recheck	E144	18-Jun-2025	----	----	----		11-Sep-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250617008	E144	17-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250617009	E144	17-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250617009 Recheck	E144	18-Jun-2025	----	----	----		11-Sep-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250617105	E144	17-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250617106	E144	17-Jun-2025	----	----	----		07-Jul-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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250617107	E144	17-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250617107 Recheck	E144	18-Jun-2025	----	----	----		11-Sep-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250617108	E144	17-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250617109	E144	17-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250617109 Recheck	E144	18-Jun-2025	----	----	----		11-Sep-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250617207	E144	17-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250617208	E144	17-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250617209	E144	17-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250617210	E144	17-Jun-2025	----	----	----		07-Jul-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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250617211	E144	17-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250617212	E144	17-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250617212 Recheck	E144	10-Oct-2025	----	----	----		14-Oct-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250617213	E144	17-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250617214	E144	17-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250617215	E144	17-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250617216	E144	17-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250618010	E144	18-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250618010 Recheck	E144	18-Jun-2025	----	----	----		11-Sep-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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250618011	E144	18-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250618011 Recheck	E144	10-Sep-2025	----	----	----		11-Sep-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250618110	E144	18-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250618110 Recheck	E144	18-Jun-2025	----	----	----		11-Sep-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250618111	E144	18-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250618217	E144	18-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250618218	E144	18-Jun-2025	----	----	----		07-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250618219	E144	18-Jun-2025	----	----	----		08-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag										
15867250618220	E144	18-Jun-2025	----	----	----		08-Jul-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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Moisture Content by Gravimetry										
LDPE bag 15867250618221	E144	18-Jun-2025	----	----	----		08-Jul-2025	----	----	
Polychlorinated Biphenyls : PCBs in Biota by GC/HRMS - (DRY units)										
Glass soil jar/Teflon lined cap 15867250618010	E781	18-Jun-2025	24-Jul-2025	365 days	36 days	✓	28-Jul-2025	365 days	4 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC/HRMS - (DRY units)										
Glass soil jar/Teflon lined cap 15867250618011	E781	18-Jun-2025	24-Jul-2025	365 days	36 days	✓	28-Jul-2025	365 days	4 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC/HRMS - (DRY units)										
Glass soil jar/Teflon lined cap 15867250618110	E781	18-Jun-2025	24-Jul-2025	365 days	36 days	✓	28-Jul-2025	365 days	4 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC/HRMS - (DRY units)										
Glass soil jar/Teflon lined cap 15867250618111	E781	18-Jun-2025	24-Jul-2025	365 days	36 days	✓	28-Jul-2025	365 days	4 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC/HRMS - (DRY units)										
Glass soil jar/Teflon lined cap 15867250617006	E781	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	28-Jul-2025	365 days	4 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC/HRMS - (DRY units)										
Glass soil jar/Teflon lined cap 15867250617007	E781	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	28-Jul-2025	365 days	4 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC/HRMS - (DRY units)										
Glass soil jar/Teflon lined cap 15867250617008	E781	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	28-Jul-2025	365 days	4 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC/HRMS - (DRY units)										
Glass soil jar/Teflon lined cap 15867250617009	E781	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	28-Jul-2025	365 days	4 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polychlorinated Biphenyls : PCBs in Biota by GC/HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250617105	E781	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	28-Jul-2025	365 days	4 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC/HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250617106	E781	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	28-Jul-2025	365 days	4 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC/HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250617107	E781	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	28-Jul-2025	365 days	4 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC/HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250617108	E781	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	28-Jul-2025	365 days	4 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC/HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250617109	E781	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	28-Jul-2025	365 days	4 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC/HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250616001	E781	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	28-Jul-2025	365 days	4 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC/HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250616002	E781	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	28-Jul-2025	365 days	4 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC/HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250616004	E781	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	28-Jul-2025	365 days	4 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC/HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250616101	E781	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	28-Jul-2025	365 days	4 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polychlorinated Biphenyls : PCBs in Biota by GC/HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250616102	E781	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	28-Jul-2025	365 days	4 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC/HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250616104	E781	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	28-Jul-2025	365 days	4 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC/HRMS - (DRY units)										
Glass soil jar/Teflon lined cap										
15867250617005	E781	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	28-Jul-2025	365 days	4 days	✓

Matrix: **Soil/Solid**

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

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
15867250616301	E144	16-Jun-2025	----	----	----		20-Jun-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
15867250617303	E144	17-Jun-2025	----	----	----		20-Jun-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
15867250618305	E144	18-Jun-2025	----	----	----		20-Jun-2025	----	----	
Polychlorinated Biphenyls : PCB Aroclors by GC-ECD										
Glass soil jar/Teflon lined cap										
15867250618305	E685	18-Jun-2025	23-Jun-2025	365 days	6 days	✓	24-Jun-2025	40 days	1 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-ECD										
Glass soil jar/Teflon lined cap										
15867250617303	E685	17-Jun-2025	23-Jun-2025	365 days	7 days	✓	24-Jun-2025	40 days	1 days	✓

Matrix: **Soil/Solid**

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

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polychlorinated Biphenyls : PCB Aroclors by GC-ECD										
Glass soil jar/Teflon lined cap										
15867250616301	E685	16-Jun-2025	23-Jun-2025	365 days	8 days	✓	24-Jun-2025	40 days	1 days	✓
Sample Data : Sample Hold Fee for Soil/Solid										
Glass soil jar/Teflon lined cap										
15867250616302	HOLD	16-Jun-2025	----	----	----		20-Jun-2025	----	----	
Sample Data : Sample Hold Fee for Soil/Solid										
Glass soil jar/Teflon lined cap										
15867250617304	HOLD	17-Jun-2025	----	----	----		20-Jun-2025	----	----	
Sample Data : Sample Hold Fee for Soil/Solid										
Glass soil jar/Teflon lined cap										
15867250618306	HOLD	18-Jun-2025	----	----	----		20-Jun-2025	----	----	
Saturated Paste Extractables : Conductivity in Soil (Saturated Paste)										
Glass soil jar/Teflon lined cap										
15867250618010	E102	18-Jun-2025	03-Jul-2025	365 days	16 days	✓	07-Jul-2025	28 days	4 days	✓
Saturated Paste Extractables : Conductivity in Soil (Saturated Paste)										
Glass soil jar/Teflon lined cap										
15867250618011	E102	18-Jun-2025	03-Jul-2025	365 days	16 days	✓	07-Jul-2025	28 days	4 days	✓
Saturated Paste Extractables : Conductivity in Soil (Saturated Paste)										
Glass soil jar/Teflon lined cap										
15867250617005	E102	17-Jun-2025	03-Jul-2025	365 days	17 days	✓	07-Jul-2025	28 days	4 days	✓
Saturated Paste Extractables : Conductivity in Soil (Saturated Paste)										
Glass soil jar/Teflon lined cap										
15867250617006	E102	17-Jun-2025	03-Jul-2025	365 days	17 days	✓	07-Jul-2025	28 days	4 days	✓
Saturated Paste Extractables : Conductivity in Soil (Saturated Paste)										
Glass soil jar/Teflon lined cap										
15867250617007	E102	17-Jun-2025	03-Jul-2025	365 days	17 days	✓	07-Jul-2025	28 days	4 days	✓

Matrix: **Soil/Solid**

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

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Saturated Paste Extractables : Conductivity in Soil (Saturated Paste)										
Glass soil jar/Teflon lined cap										
15867250617008	E102	17-Jun-2025	03-Jul-2025	365 days	17 days	✓	07-Jul-2025	28 days	4 days	✓
Saturated Paste Extractables : Conductivity in Soil (Saturated Paste)										
Glass soil jar/Teflon lined cap										
15867250617009	E102	17-Jun-2025	03-Jul-2025	365 days	17 days	✓	07-Jul-2025	28 days	4 days	✓
Saturated Paste Extractables : Conductivity in Soil (Saturated Paste)										
Glass soil jar/Teflon lined cap										
15867250616001	E102	16-Jun-2025	03-Jul-2025	365 days	18 days	✓	07-Jul-2025	28 days	4 days	✓
Saturated Paste Extractables : Conductivity in Soil (Saturated Paste)										
Glass soil jar/Teflon lined cap										
15867250616002	E102	16-Jun-2025	03-Jul-2025	365 days	18 days	✓	07-Jul-2025	28 days	4 days	✓
Saturated Paste Extractables : Conductivity in Soil (Saturated Paste)										
LDPE bag										
15867250616003	E102	16-Jun-2025	03-Jul-2025	365 days	18 days	✓	07-Jul-2025	28 days	4 days	✓
Saturated Paste Extractables : Conductivity in Soil (Saturated Paste)										
Glass soil jar/Teflon lined cap										
15867250616004	E102	16-Jun-2025	03-Jul-2025	365 days	18 days	✓	07-Jul-2025	28 days	4 days	✓
Saturated Paste Extractables : pH by Meter (Saturated Paste)										
Glass soil jar/Teflon lined cap										
15867250618010	E114	18-Jun-2025	03-Jul-2025	365 days	16 days	✓	03-Jul-2025	365 days	16 days	✓
Saturated Paste Extractables : pH by Meter (Saturated Paste)										
Glass soil jar/Teflon lined cap										
15867250618011	E114	18-Jun-2025	03-Jul-2025	365 days	16 days	✓	03-Jul-2025	365 days	16 days	✓
Saturated Paste Extractables : pH by Meter (Saturated Paste)										
Glass soil jar/Teflon lined cap										
15867250617005	E114	17-Jun-2025	03-Jul-2025	365 days	17 days	✓	03-Jul-2025	365 days	17 days	✓

Matrix: **Soil/Solid**

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

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Saturated Paste Extractables : pH by Meter (Saturated Paste)										
Glass soil jar/Teflon lined cap										
15867250617006	E114	17-Jun-2025	03-Jul-2025	365 days	17 days	✓	03-Jul-2025	365 days	17 days	✓
Saturated Paste Extractables : pH by Meter (Saturated Paste)										
Glass soil jar/Teflon lined cap										
15867250617007	E114	17-Jun-2025	03-Jul-2025	365 days	17 days	✓	03-Jul-2025	365 days	17 days	✓
Saturated Paste Extractables : pH by Meter (Saturated Paste)										
Glass soil jar/Teflon lined cap										
15867250617008	E114	17-Jun-2025	03-Jul-2025	365 days	17 days	✓	03-Jul-2025	365 days	17 days	✓
Saturated Paste Extractables : pH by Meter (Saturated Paste)										
Glass soil jar/Teflon lined cap										
15867250617009	E114	17-Jun-2025	03-Jul-2025	365 days	17 days	✓	03-Jul-2025	365 days	17 days	✓
Saturated Paste Extractables : pH by Meter (Saturated Paste)										
Glass soil jar/Teflon lined cap										
15867250616001	E114	16-Jun-2025	03-Jul-2025	365 days	18 days	✓	03-Jul-2025	365 days	18 days	✓
Saturated Paste Extractables : pH by Meter (Saturated Paste)										
Glass soil jar/Teflon lined cap										
15867250616002	E114	16-Jun-2025	03-Jul-2025	365 days	18 days	✓	03-Jul-2025	365 days	18 days	✓
Saturated Paste Extractables : pH by Meter (Saturated Paste)										
LDPE bag										
15867250616003	E114	16-Jun-2025	03-Jul-2025	365 days	18 days	✓	03-Jul-2025	365 days	18 days	✓
Saturated Paste Extractables : pH by Meter (Saturated Paste)										
Glass soil jar/Teflon lined cap										
15867250616004	E114	16-Jun-2025	03-Jul-2025	365 days	18 days	✓	03-Jul-2025	365 days	18 days	✓
Saturated Paste Extractables : Saturation Percentage										
Glass soil jar/Teflon lined cap										
15867250616001	E141	16-Jun-2025	03-Jul-2025	----	----		03-Jul-2025	----	0 days	

Matrix: **Soil/Solid**

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

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Saturated Paste Extractables : Saturation Percentage										
Glass soil jar/Teflon lined cap										
15867250616002	E141	16-Jun-2025	03-Jul-2025	----	----		03-Jul-2025	----	0 days	
Saturated Paste Extractables : Saturation Percentage										
LDPE bag										
15867250616003	E141	16-Jun-2025	03-Jul-2025	----	----		03-Jul-2025	----	0 days	
Saturated Paste Extractables : Saturation Percentage										
Glass soil jar/Teflon lined cap										
15867250616004	E141	16-Jun-2025	03-Jul-2025	----	----		03-Jul-2025	----	0 days	
Saturated Paste Extractables : Saturation Percentage										
Glass soil jar/Teflon lined cap										
15867250617005	E141	17-Jun-2025	03-Jul-2025	----	----		03-Jul-2025	----	0 days	
Saturated Paste Extractables : Saturation Percentage										
Glass soil jar/Teflon lined cap										
15867250617006	E141	17-Jun-2025	03-Jul-2025	----	----		03-Jul-2025	----	0 days	
Saturated Paste Extractables : Saturation Percentage										
Glass soil jar/Teflon lined cap										
15867250617007	E141	17-Jun-2025	03-Jul-2025	----	----		03-Jul-2025	----	0 days	
Saturated Paste Extractables : Saturation Percentage										
Glass soil jar/Teflon lined cap										
15867250617008	E141	17-Jun-2025	03-Jul-2025	----	----		03-Jul-2025	----	0 days	
Saturated Paste Extractables : Saturation Percentage										
Glass soil jar/Teflon lined cap										
15867250617009	E141	17-Jun-2025	03-Jul-2025	----	----		03-Jul-2025	----	0 days	
Saturated Paste Extractables : Saturation Percentage										
Glass soil jar/Teflon lined cap										
15867250618010	E141	18-Jun-2025	03-Jul-2025	----	----		03-Jul-2025	----	0 days	

Matrix: **Soil/Solid**

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

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Saturated Paste Extractables : Saturation Percentage										
Glass soil jar/Teflon lined cap										
15867250618011	E141	18-Jun-2025	03-Jul-2025	----	----		03-Jul-2025	----	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			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
Moisture Content by Gravimetry	E144	2092937	4	71	5.6	5.0	✓
Silver in Biota by CRC ICPMS (DRY units, Routine)	E440.Ag	2105046	4	50	8.0	5.0	✓
Sulfur in Biota by CRC ICPMS (DRY units, Routine)	E440.S	2105045	5	50	10.0	5.0	✓
Titanium in Biota by CRC ICPMS (DRY units, Routine)	E440.Ti	2105044	4	51	7.8	5.0	✓
Metals in Biota by CRC ICPMS (DRY units, Routine)	E440	2105042	6	53	11.3	5.0	✓
Mercury in Biota by CVAAS (DRY units, Routine)	E510	2105043	4	45	8.8	5.0	✓
Laboratory Control Samples (LCS)							
Moisture Content by Gravimetry	E144	2092937	6	71	8.4	5.0	✓
Silver in Biota by CRC ICPMS (DRY units, Routine)	E440.Ag	2105046	8	50	16.0	10.0	✓
Sulfur in Biota by CRC ICPMS (DRY units, Routine)	E440.S	2105045	14	50	28.0	10.0	✓
Titanium in Biota by CRC ICPMS (DRY units, Routine)	E440.Ti	2105044	8	51	15.6	10.0	✓
Metals in Biota by CRC ICPMS (DRY units, Routine)	E440	2105042	13	53	24.5	10.0	✓
Mercury in Biota by CVAAS (DRY units, Routine)	E510	2105043	10	45	22.2	10.0	✓
Method Blanks (MB)							
Moisture Content by Gravimetry	E144	2092937	6	71	8.4	5.0	✓
Silver in Biota by CRC ICPMS (DRY units, Routine)	E440.Ag	2105046	4	50	8.0	5.0	✓
Sulfur in Biota by CRC ICPMS (DRY units, Routine)	E440.S	2105045	7	50	14.0	5.0	✓
Titanium in Biota by CRC ICPMS (DRY units, Routine)	E440.Ti	2105044	4	51	7.8	5.0	✓
Metals in Biota by CRC ICPMS (DRY units, Routine)	E440	2105042	6	53	11.3	5.0	✓
Mercury in Biota by CVAAS (DRY units, Routine)	E510	2105043	5	45	11.1	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 Duplicates (DUP)							
Conductivity in Soil (Saturated Paste)	E102	2077472	1	11	9.0	5.0	✓
pH by Meter (Saturated Paste)	E114	2077473	1	11	9.0	5.0	✓
Saturation Percentage	E141	2077474	1	11	9.0	5.0	✓
Moisture Content by Gravimetry	E144	2064372	2	40	5.0	5.0	✓
PCB Aroclors by GC-ECD	E685	2069790	1	14	7.1	5.0	✓
Laboratory Control Samples (LCS)							
Conductivity in Soil (Saturated Paste)	E102	2077472	2	11	18.1	10.0	✓
pH by Meter (Saturated Paste)	E114	2077473	2	11	18.1	10.0	✓
Saturation Percentage	E141	2077474	2	11	18.1	10.0	✓
Moisture Content by Gravimetry	E144	2064372	2	40	5.0	5.0	✓
PCB Aroclors by GC-ECD	E685	2069790	1	14	7.1	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*
Method Blanks (MB)							
Conductivity in Soil (Saturated Paste)	E102	2077472	1	11	9.0	5.0	✓
Saturation Percentage	E141	2077474	1	11	9.0	5.0	✓
Moisture Content by Gravimetry	E144	2064372	2	40	5.0	5.0	✓
PCB Aroclors by GC-ECD	E685	2069790	1	14	7.1	5.0	✓
Matrix Spikes (MS)							
PCB Aroclors by GC-ECD	E685	2069790	1	14	7.1	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
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.
Metals in Biota by CRC ICPMS (DRY units, Routine)	E440 ALS Environmental - Vancouver	Biota	EPA 200.3/6020B (mod)	Tissue samples are homogenized and sub-sampled prior to hotblock digestion with HNO3, HCl, and H2O2. 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.
Silver in Biota by CRC ICPMS (DRY units, Routine)	E440.Ag ALS Environmental - Vancouver	Biota	EPA 200.3/6020B (mod)	Tissue samples are homogenized and sub-sampled prior to hotblock digestion with HNO3, HCl, and H2O2. 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.
Sulfur in Biota by CRC ICPMS (DRY units, Routine)	E440.S ALS Environmental - Vancouver	Biota	EPA 200.3/6020B (mod)	Tissue samples are homogenized and sub-sampled prior to hotblock digestion with HNO3, HCl, and H2O2. 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.
Titanium in Biota by CRC ICPMS (DRY units, Routine)	E440.Ti ALS Environmental - Vancouver	Biota	EPA 200.3/6020B (mod)	Tissue samples are homogenized and sub-sampled prior to hotblock digestion with HNO3, HCl, and H2O2. 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, Routine)	E510 ALS Environmental - Vancouver	Biota	EPA 200.3/1631 Appendix (mod)	Samples are homogenized and sub-sampled prior to hotblock digestion with HNO3, HCl, and H2O2. Analysis is by CVAAS.
Dioxins and Furans in Biota by GC-HRMS - (DRY units)	E766 ALS Environmental - Burlington	Biota	USEPA 1613B	The sample is extracted by Soxhlet extraction. Extracts are prepared using column chromatography, reduced in volume and analyzed by isotope-dilution GC-HRMS. Reported on a dry-weight basis.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
PCBs in Biota by GC/HRMS - (DRY units)	E781 ALS Environmental - Burlington	Biota	EPA 1668C	The sample is extracted by Soxhlet extraction. Extracts are prepared using column chromatography, reduced in volume and analyzed by isotope-dilution GC/HRMS Reported on a dry-weight basis.
Conductivity in Soil (Saturated Paste)	E102 ALS Environmental - Vancouver	Soil/Solid	CSSS Ch. 15 (mod)/APHA 2510 (mod)/AER D50	Conductivity, also known as Electrical Conductivity (EC) or Specific Conductance, is measured by immersion of a conductivity cell with platinum electrodes into a filtered extract from a soil sample prepared using the saturated paste procedure. Conductivity measurements are temperature-compensated to 25°C.
pH by Meter (Saturated Paste)	E114 ALS Environmental - Vancouver	Soil/Solid	Carter-CSSS / APHA 4500 H	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 ± 5°C) on a soil produced by the saturated paste extraction procedure.
Saturation Percentage	E141 ALS Environmental - Vancouver	Soil/Solid	CSSS Ch. 15 (mod)/AER D50	Saturation Percentage (SP) is determined as the total volume of water present in a saturated paste (in mL) divided by the dry weight of the sample (in grams), expressed as a percentage.
Moisture Content by Gravimetry	E144 ALS Environmental - Edmonton	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.
PCB Aroclors by GC-ECD	E685 ALS Environmental - Edmonton	Soil/Solid	EPA 8082A (mod)	PCB Aroclors are analyzed by GC-ECD
Sample Hold Fee for Soil/Solid	HOLD ALS Environmental - Edmonton	Soil/Solid		Fee for storing sample to meet sample integrity requirements and holding times.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Metals and Mercury Biota Digestion (Routine)	EP440 ALS Environmental - Vancouver	Biota	EPA 200.3	This method uses a heated strong acid digestion with HNO_3, HCl, and H_2O_2 and is intended to provide a conservative estimate of bio-available metals.
Soxhlet extraction of Tissues for DX/Fs, and/or PCNs	EP800 ALS Environmental - Burlington	Biota	EPA Method 3540C (preparation)	Solid samples are homogenized and sub-sampled, then extracted using Soxhlet.
PCB Aroclors Extraction	EP685 ALS Environmental - Edmonton	Soil/Solid	EPA 3570/3550C (mod)	Samples are subsampled and PCBs are extracted with solvents using a mechanical shaking extractor.Water is added to the extract and the resulting hexane extract undergoes one or more of the following clean-up procedures (if required): florisil clean-up, silica gel clean-up, sulphur clean-up and/or sulphuric acid clean-up.

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

COC # 119878

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Lab Submitted to : ALS
Lab Agreement no :
Lab Job ID:

Invoice to: Require Report: Y / N

Company Name: Montrose Environmental
Contact Name: Lindsay Dilger
Address:
PC:
Phone / Fax#: Ph: Fax:

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Calgary, Alberta, Canada
T2R 0K1
Ph: 403-237-0606 Fax: 403-263-2493
email invoices to ap@matrix-solutions.com

Matrix Project # : 15867-507
Matrix Proj. Name: SWAN Hills Treatment centre
Location: SWAN Hills Treatment Centre
Sampler's Name(s): L. Dilger / L. Zaharuk

AFE #:

REGULATORY REQUIREMENTS: (check)
- Alberta Tier 1
- BC CSR
- Alberta SW FAL
- Canadian Drinking Water
- CCME FAL
- SPIGEC
- SEQG

Other: QUOTE EO24-MS01200-004

SERVICE REQUESTED:
- RUSH (Please ensure you contact the lab) Due Date:
- REGULAR Turnaround

REPORT DISTRIBUTION: always send to eds@matrix-solutions.com
- Additional Emails: ldilger@montrose-env.com

	Sample Number (14 digits only) yr-mth-day	Sample Point Name	Depth (m)	Sample Type	Date/Time Sampled	Quanity # of Containers J/V	Bags	Bottles	Analysis Required: Dioxins & Furans	Condenser PCBs Hems	METALS	PH/EC	A-PCB	JLD
1	15867250616001	plot123	—	moss	June 16/25		1	3	X	X	X	X		
2	101	↓	—	LAB TEA	↓		1	3	X	X	X			
3	002	plot402	—	moss			1	3	X	X	X	X		
4	003	↓	—	moss			/	1			X	X		
5	102	—	—	LAB TEA			1	3	X	X	X			
6	103	—	—	LAB TEA			/	1			X			
7	004	plot 7D	—	moss			1	3	X	X	X	X		
8	104	↓	—	LAB TEA	↓		1	3	X	X	X			
9	301	Field BLANK	—	—			/	1					X	
10	302	Trip BLANK	—	—	↓		/	1						X
11	15867250617 005	plot 114	—	moss	June 17/25		1	3	X	X	X	X		
12	105	↓	—	LAB TEA	↓		1	3	X	X	X			
13	006	plot4	—	moss			1	3	X	X	X	X		
14	106	↓	—	LAB TEA			1	3	X	X	X			
15	007	plot 101	—	moss	↓		1	3	X	X	X	X		

Preserved/Filtered

*For metals in water samples indicate if you want Total (T) or Dissolved (D) as part of "Analysis Required"

Relinquished by: Lindsay Dilger Date/Time: June 18/25 1pm
Signature:
Received by: PRINCE Date/Time: 6/06 hr 2:45°C
Signature: PP

COMMENTS/SPECIAL INSTRUCTIONS: QUOTE MS01200
9.8°, 4.5, 6.2°C

J = jars V = vials

Environmental Division
Edmonton
Work Order Reference
EO2505051

Telephone : +1 780 413 5227

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

COC # 119881

Page: 2 of 4

Lab Submitted to : ALS
Lab Agreement no :
Lab Job ID:

Invoice to: Require Report: Y ___ N ___
Company Name: See p.1
Contact Name:
Address:
PC:
Phone / Fax#: Ph: Fax:

Copy of Report to:
Matrix Solutions - EDS
Suite 600, 214 - 11th Avenue SW
Calgary, Alberta, Canada
T2R 0K1
Ph: 403-237-0606 Fax: 403-263-2493
email invoices to ap@matrix-solutions.com

Matrix Project # : 15867-507
Matrix Proj. Name: SWAN HILLS Treatment Centre
Location: SWAN HILLS TREATMENT CENTRE
Sampler's Name(s): L. OLIFFE / L. ~~ZAPALSKY~~ ZARALSKY

AFE #:

REGULATORY REQUIREMENTS: (check)
- Alberta Tier 1 ☐ BC CSR
- Alberta SW FAL
- Canadian Drinking Water
- CCME FAL
- SPIGEC
- SEQG Other: See p.1

SERVICE REQUESTED:
- ☐ RUSH (Please ensure you contact the lab) Due Date:
- ☑ REGULAR Turnaround

REPORT DISTRIBUTION: always send to eds@matrix-solutions.com
- ☑ Additional Emails See p.1

	Sample Number (14 digits only) yr-mth-day	Sample Point Name	Depth (m)	Sample Type	Date/Time Sampled	Quanity # of Containers J/V	Bags	Bottles	Dioxins & Furans	Congeners PCBs HRMS	METALS	PH/EC	A-PCB	HOLD
1	15867250617L07	plot 109	—	LAB TEA	TUNE 17/25		1	3	X	X	X			
2	L08	—	—	MOSS			1	3	X	X	X	X		
3	L08	—	—	LAB TEA			1	3	X	X	X			
4	L09	plot 110	—	MOSS			1	3	X	X	X	X		
5	L09	↓	—	LAB TEA			1	3	X	X	X			
6	303	Field Blank	—	—			—	1					X	
7	304	TRIP Blank	—	—			—	1						X
8	15867250618010	plot 11		MOSS	TUNE 18/25		1	3	X	X	X	X		
9	M10	plot 11		LAB TEA			1	3	X	X	X			
10	011	plot 71		MOSS			1	3	X	X	X	X		
11	L11	plot 71		LAB TEA			1	3	X	X	X			
12	305	Field		—			—	1					X	
13	306	TRIP		—			—	1						X
14														
15														

*For metals in water samples indicate if you want Total (T) or Dissolved (D) as part of "Analysis Required"

Preserved/Filtered

Relinquished by: Lindsay Oliffe Date/Time: TUNE 18/25 1pm
Signature:
Received by: PRINCE Date/Time: 18/06/25 2:45 PM
Signature: PP

COMMENTS/SPECIAL INSTRUCTIONS 9.8°C, 4.5°C, 6.2°C

J = jars V = vials

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

COC # 119879

Page: 3 of 4

Lab Submitted to : ALS
Lab Agreement no :
Lab Job ID:

Invoice to: Require Report: Y ✓ N

Company Name: See p.1
Contact Name:
Address:
PC:
Phone / Fax#: Ph: Fax:

Copy of Report to:
Matrix Solutions - EDS
Suite 600, 214 - 11th Avenue SW
Calgary, Alberta, Canada
T2R 0K1
Ph: 403-237-0606 Fax: 403-263-2493
email invoices to ap@matrix-solutions.com

Matrix Project # : 15867-503
Matrix Proj. Name: SWAN Hills Treatment Centre
Location: SWAN Hills Treatment Centre
Sampler's Name(s): L. Miller / L. Zaborniak

AFE #:

REGULATORY REQUIREMENTS: (check)
- Alberta Tier 1
- BC CSR
- Alberta SW FAL
- Canadian Drinking Water
- CCME FAL
- SPIGEC
- SEQG

Other: Quote EO24 - M501100-004

SERVICE REQUESTED:
- RUSH (Please ensure you contact the lab) Due Date:
- ☒ REGULAR Turnaround

REPORT DISTRIBUTION: always send to eds@matrix-solutions.com
- ☒ Additional Emails: See p.1

	Sample Number (14 digits only) yr-mth-day	Sample Point Name	Depth (m)	Sample Type	Date/Time Sampled	Quanity # of Containers J/V	Bags	Bottles	Analysis Required: Metals	HOLD
1	15867250616201	MB9	—	MOSS BAG	June 16/25		1		X	
2	202	MB24	—				1		X	
3	203	MB14	—				1		X	
4	204	MB50	—				1		X	
5	205	MB26	—				1		X	
6	206	MB19	—				1		X	
7	15867250617207	MB20	—		June 17/25		1		X	
8	208	MB22	—				1		X	
9	209	Site9	—				1		X	
10	210	Site1	—				1		X	
11	211	MB5	—				1		X	
12	212	MB4	—				1		X	
13	213	MB15	—				1		X	
14	214	Site5	—				1		X	
15	215	MB1	—				1		X	
								Preserved/Filtered		

*For metals in water samples indicate if you want Total (T) or Dissolved (D) as part of "Analysis Required"

Relinquished by: Lindsay Stuart Date/Time: June 18/25 1pm
Signature:
Received by: Date/Time:
Signature:

COMMENTS/SPECIAL INSTRUCTIONS QUOTE M501100

J = jars V = vials

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

COC # 119882

Page: 4 of 4

Lab Submitted to : ALS
Lab Agreement no :
Lab Job ID:

Invoice to: Require Report: Y ✓ N

Company Name: See p.1
Contact Name:
Address:
PC:
Phone / Fax#: Ph: Fax:

AFE #:

Copy of Report to:
Matrix Solutions - EDS
Suite 600, 214 - 11th Avenue SW
Calgary, Alberta, Canada
T2R 0K1
Ph: 403-237-0606 Fax: 403-263-2493
email invoices to ap@matrix-solutions.com

Matrix Project # : 15867-503
Matrix Proj. Name: SWAN HILLS Treatment Centre
Location: SWAN HILLS Treatment Centre
Sampler's Name(s): L. Colter / L. ZAPOWNY

REGULATORY REQUIREMENTS: (check)
- [ ] Alberta Tier 1 [ ] BC CSR
- [ ] Alberta SW FAL
- [ ] Canadian Drinking Water
- [ ] CCME FAL
- [ ] SPIGEC
- [ ] SEQG Other: See p.1

SERVICE REQUESTED:
- [ ] RUSH (Please ensure you contact the lab) Due Date:
- [x] REGULAR Turnaround

REPORT DISTRIBUTION: always send to eds@matrix-solutions.com
- [x] Additional Emails See p.1

	Sample Number (14 digits only) yr-mth-day	Sample Point Name	Depth (m)	Sample Type	Date/Time Sampled	Quanity # of Containers J/V	Bags	Bottles	Analysis Required: METALS	HOLD
1	15867250617216	MB2	—	MISSING	June 17/25		1		X	
2	15867250618217	MB11	—	MISSING	June 18/25		1		X	
3	218	MB7L	—	↓	↓		1		X	
4	219	unexposed	—				1		X	
5	220	unexposed	—				1		X	
6	221	unexposed	—	↓	↓		1		X	
7										
8										
9										
10										
11										
12										
13										
14										
15										

*For metals in water samples indicate if you want Total (T) or Dissolved (D) as part of "Analysis Required" Preserved/Filtered

Relinquished by: L Hollyer **Date/Time:** June 18/25 1pm
Signature:
Received by: **Date/Time:**
Signature:

COMMENTS/SPECIAL INSTRUCTIONS

J = jars V = vials

CERTIFICATE OF ANALYSIS

Work Order	:	**BU2501974**		
Amendment	:	**1**		
Client	:	**Montrose Environmental Solutions Canada Inc.**	Laboratory	: ALS Environmental - Burlington
Contact	:	Lindsay Oiffer	Account Manager	: Kieran Tordoff
Address	:	13804 164 St NW Edmonton Alberta Canada T5V 0C8	Address	: 1435 Norjohn Court, Unit 1 Burlington ON Canada L7L 0E6
Telephone	:	780 989 8347	E-mail	: kieran.tordoff@alsglobal.com
Project	:	15867-503	Telephone	: +1 905 331 3111
PO	:	PO-086285	Date Samples Received	: 18-Jun-2025 16:45
C-O-C number	:	----	Date Analysis Commenced	: 23-Jul-2025
Sampler	:	----	Issue Date	: 12-Sep-2025 15:39
Site	:	----		
Quote number	:	EO24-MSOI100-004 (Swan Hills Treatment Centre)		
No. of samples received	:	20		
No. of samples analysed	:	20		

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
- Surrogate Control Limits

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

Signatories

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

Signatories	*Position*	*Laboratory Department*
Brad Reimer		Organics, Burlington, Ontario
Navdeep Buttar		Organics, Burlington, 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
%	percent
g	grams
pg/g	picograms/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

Amendment (12/09/2025): This report has been amended as a result of changes to the contacts for the distribution of the report. All analysis results are as per the previous report.

Qualifiers

Qualifier	Description
[B]	The analyte was detected in the Method Blank at >10% of the sample concentration.
[E]	Estimated value. The reported concentration is above the calibration range of the instrument.
[J]	Estimated value. The reported concentration is below the calibrated range of the instrument but above the EDL.
[U]	The analyte was not detected above the EDL (or LOR where applicable).
F	The ion abundance ratio(s) did not meet the acceptance criteria. Estimated Detection Limit for that compound has been elevated to the level of the EMPC.
M	Peak has been manually integrated.

Analytical Results

Sub-Matrix: Vegetation
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250616001 ----	15867250616002 ----	15867250616004 ----	15867250617005 ----	15867250617006 ----
					Client sampling date / time	16-Jun-2025 00:00	16-Jun-2025 00:00	16-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00
						BU2501974-001	BU2501974-003	BU2501974-005	BU2501974-007	BU2501974-009
						Result	Result	Result	Result	Result
Sample Preparation										
Weight, extraction (wet)	----	EP800/BU	0.0001	g		10.4408	10.1476	10.1214	10.2843	10.0872
Physical Tests										
Moisture	----	E144/BU	0.50	%		80.6	73.4	73.7	75.0	66.7
Dioxins and Furans										
TCDD, 2,3,7,8-	1746-01-6	XE766/BU	1	pg/g		<0.30 [U]	<0.18 [U]	<0.24 [U]	0.234 [J], M	<0.21 [J], M, F
PeCDD, 1,2,3,7,8-	40321-76-4	XE766/BU	1	pg/g		<0.30 [U]	<0.21 [U]	<0.28 [U], M	0.600 [J], M	1.15 [J], M
HxCDD, 1,2,3,4,7,8-	39227-28-6	XE766/BU	1	pg/g		<0.22 [U]	<0.25 [U]	0.323 [J], M	0.754 [J], M	1.21 [J]
HxCDD, 1,2,3,6,7,8-	57653-85-7	XE766/BU	1	pg/g		<0.22 [U]	<0.34 [J], M, F	0.526 [J], M	<1.3 [J], M, F	<2.6 [J], M, F
HxCDD, 1,2,3,7,8,9-	19408-74-3	XE766/BU	1	pg/g		<0.21 [U]	<0.24 [U]	<0.45 [J], M, F	<0.80 [J], M, F	1.64 [J], M
HpCDD, 1,2,3,4,6,7,8-	35822-46-9	XE766/BU	1	pg/g		<2.2 [J], F	5.19 M	6.78	16.6	40.5
OCDD	3268-87-9	XE766/BU	2	pg/g		9.21 [J], M, [B]	27.9	43.8	59.2	161
Tetrachlorodibenzo-p-dioxins [TCDD], total	41903-57-5	XE766/BU	1	pg/g		<0.30 [U]	<0.18 [U]	0.376 [J]	0.234 [J]	0.242 [J]
TCDD, total, # homologues detected	----	XE766/BU	0	-		0	0	1	1	2
Pentachlorodibenzo-p-dioxins [PeCDD], total	----	XE766/BU	1	pg/g		0.766 [J]	<0.21 [U]	0.398 [J]	3.75 [J]	1.78 [J]
PeCDD, total, # homologues detected	----	XE766/BU	0	-		1	0	1	3	2
Hexachlorodibenzo-p-dioxins [HxCDD], total	34465-46-8	XE766/BU	1	pg/g		0.624 [J]	<0.34 [U]	2.62 [J]	<1.3 [U]	11.0
HxCDD, total, # homologues detected	----	XE766/BU	0	-		1	0	3	0	3
Heptachlorodibenzo-p-dioxins [HpCDD], total	37871-00-4	XE766/BU	1	pg/g		<2.2 [U]	5.19	13.8	35.4	86.3
HpCDD, total, # homologues detected	----	XE766/BU	0	-		0	1	2	2	2
TCDF, 2,3,7,8-	51207-31-9	XE766/BU	1	pg/g		<0.62 [J], M, F	<0.37 [U]	<0.32 [U]	<1.7 [J], F	19.3
PeCDF, 1,2,3,7,8-	57117-41-6	XE766/BU	1	pg/g		0.389 [J]	<0.2 [U]	<0.1 [U]	<1.0 [J], F	4.09

Analytical Results

Sub-Matrix: Vegetation
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250616001 ----	15867250616002 ----	15867250616004 ----	15867250617005 ----	15867250617006 ----
					Client sampling date / time	16-Jun-2025 00:00	16-Jun-2025 00:00	16-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00
						BU2501974-001	BU2501974-003	BU2501974-005	BU2501974-007	BU2501974-009
						Result	Result	Result	Result	Result
Dioxins and Furans										
PeCDF, 2,3,4,7,8-	57117-31-4	XE766/BU	1	pg/g	<0.29 [J], M, F	<0.22 [U]	<0.14 [U]	1.46 [J]	9.78	
HxCDF, 1,2,3,4,7,8-	70648-26-9	XE766/BU	1	pg/g	<0.12 [U], M	<0.28 [U]	<0.22 [U]	1.31 [J]	3.94	
HxCDF, 1,2,3,6,7,8-	57117-44-9	XE766/BU	1	pg/g	0.273 [J]	<0.28 [U]	<0.22 [U]	<1.2 [J], M, F	3.20	
HxCDF, 1,2,3,7,8,9-	72918-21-9	XE766/BU	1	pg/g	<0.15 [U]	<0.41 [U]	<0.32 [U]	0.657 [J]	1.33 [J]	
HxCDF, 2,3,4,6,7,8-	60851-34-5	XE766/BU	1	pg/g	<0.17 [J], M, F	<0.30 [U]	<0.26 [U]	2.82 [J]	5.04	
HpCDF, 1,2,3,4,6,7,8-	67562-39-4	XE766/BU	2	pg/g	1.07 [J], M	<0.61 [J], M, F	1.36 [J]	9.51	18.4	
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	XE766/BU	1	pg/g	<0.37 [U]	<0.19 [U]	<0.31 [U]	<1.0 [J], F	<1.8 [J], F	
OCDF	39001-02-0	XE766/BU	2	pg/g	<1.5 [J], M, F	1.58 [J], M	<3.2 [J], M, F	9.21 M	<18 F	
Tetrachlorodibenzofurans [TCDF], total	----	XE766/BU	1	pg/g	1.15 [J]	<0.37 [U]	0.674 [J]	3.25 [J]	102	
TCDF, total, # homologues detected	----	XE766/BU	0	-	4	0	1	5	15	
Pentachlorodibenzofurans [PeCDF], total	----	XE766/BU	1	pg/g	1.13 [J]	0.515 [J]	<0.14 [U]	7.11	63.8	
PeCDF, total, # homologues detected	----	XE766/BU	0	-	3	2	0	7	10	
Hexachlorodibenzofurans [HxCDF], total	55684-94-1	XE766/BU	1	pg/g	0.273 [J]	<0.41 [U]	0.355 [J]	11.0	32.3	
HxCDF, total, # homologues detected	----	XE766/BU	0	-	1	0	1	6	9	
Heptachlorodibenzofurans [HpCDF], total	38998-75-3	XE766/BU	2	pg/g	1.07 [J]	<0.61 [U]	1.36 [J]	11.3	25.8	
HpCDF, total, # homologues detected	----	XE766/BU	0	-	1	0	1	2	3	
Dioxins and Furans Surrogates										
TCDD-13C12, 2,3,7,8-	76523-40-5	XE766/BU	0.1	%	61.2	70.8	61.8	57.9	67.1	
PeCDD-13C12, 1,2,3,7,8-	109719-79-1	XE766/BU	0.1	%	51.8	59.0	55.6	48.7	55.6	
HxCDD-13C12, 1,2,3,4,7,8-	109719-80-4	XE766/BU	0.1	%	70.2	78.7	67.8	63.8	77.4	
HxCDD-13C12, 1,2,3,6,7,8-	109719-81-5	XE766/BU	0.1	%	67.7	81.7	69.6	67.3	72.7	

Analytical Results

Sub-Matrix: Vegetation
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250616001 ----	15867250616002 ----	15867250616004 ----	15867250617005 ----	15867250617006 ----
					Client sampling date / time	16-Jun-2025 00:00	16-Jun-2025 00:00	16-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00
						BU2501974-001	BU2501974-003	BU2501974-005	BU2501974-007	BU2501974-009
						Result	Result	Result	Result	Result
Dioxins and Furans Surrogates										
HpCDD-13C12, 1,2,3,4,6,7,8-	109719-83-7	XE766/BU	0.1	%		50.8	57.8	51.1	50.9	55.3
OCDD-13C12	114423-97-1	XE766/BU	0.1	%		39.6	44.9	39.0	38.8	41.5
TCDF-13C12, 2,3,7,8-	89059-46-1	XE766/BU	0.1	%		48.8	57.2	48.3	47.4	54.5
PeCDF-13C12, 1,2,3,7,8-	109719-77-9	XE766/BU	0.1	%		53.2	57.6	53.8	50.6	55.4
PeCDF-13C12, 2,3,4,7,8-	116843-02-8	XE766/BU	0.1	%		51.2	56.1	50.9	45.2	54.6
HxCDF-13C12, 1,2,3,4,7,8-	114423-98-2	XE766/BU	0.1	%		71.4	84.2	72.5	69.3	80.9
HxCDF-13C12, 1,2,3,6,7,8-	116843-03-9	XE766/BU	0.1	%		78.6	83.5	73.8	73.0	83.4
HxCDF-13C12, 2,3,4,6,7,8-	116843-05-1	XE766/BU	0.1	%		66.8	77.2	61.4	63.8	73.4
HxCDF-13C12, 1,2,3,7,8,9-	116843-04-0	XE766/BU	0.1	%		70.1	79.5	68.2	66.6	75.5
HpCDF-13C12, 1,2,3,4,6,7,8-	67562-39-4	XE766/BU	0.1	%		56.4	64.1	56.6	55.0	61.6
HpCDF-13C12, 1,2,3,4,7,8,9-	55673-89-7	XE766/BU	0.1	%		53.8	60.8	52.2	52.5	56.8
Polychlorinated Biphenyls										
PCB 001	2051-60-7	XE781/BU	2	pg/g		<1.7 [U]	<1.4 [U]	<1.1 [U]	13.2 M	19.5 M
PCB 002	2051-61-8	XE781/BU	2	pg/g		<1.6 [U]	<1.2 [U]	<0.99 [U]	<2.5 M, F	<4.2 M, F
PCB 003	2051-62-9	XE781/BU	5	pg/g		<1.8 [U]	<1.3 [U]	<1.7 [J], F	11.1	15.6 M
PCB 004	13029-08-8	XE781/BU	5	pg/g		<6.3 M, F	<5.9 [U]	<6.2 [U]	50.4 M	82.2 M
PCB 010	33146-45-1	XE781/BU	5	pg/g		<2.6 [U]	<2.2 [U]	<3.0 [U]	<2.2 [U]	<2.3 [U]
PCB 009	34883-39-1	XE781/BU	2	pg/g		<2.8 [U]	<2.4 [U]	<3.3 [U]	<8.7 M, F	<15 F
PCB 007	33284-50-3	XE781/BU	2	pg/g		<2.3 [U]	<2.0 [U]	<2.8 [U]	<4.1 M, F	<7.0 F
PCB 006	25569-80-6	XE781/BU	2	pg/g		<2.7 [U]	<2.4 [U]	<3.2 [U]	31.4	48.1
PCB 005	16605-91-7	XE781/BU	2	pg/g		<2.9 [U]	<2.2 [U]	<3.0 [U]	<2.1 [U], M	<2.3 [U]

Analytical Results

Sub-Matrix: Vegetation
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250616001 ----	15867250616002 ----	15867250616004 ----	15867250617005 ----	15867250617006 ----
					Client sampling date / time	16-Jun-2025 00:00	16-Jun-2025 00:00	16-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00
						BU2501974-001	BU2501974-003	BU2501974-005	BU2501974-007	BU2501974-009
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 008	34883-43-7	XE781/BU	5	pg/g		<9.2 M, F	<6.7 M, F	<8.2 M, F	146 M	245 M
PCB 014	34883-41-5	XE781/BU	2	pg/g		<4.7 [U]	<3.3 [U]	<5.2 [U]	<4.8 [U]	<4.2 [U]
PCB 011	2050-67-1	XE781/BU	20	pg/g		79.3 [B]	65.6 [B]	73.1 M, [B]	68.6 [B]	69.6 M, [B]
PCB 012+013	n/a	XE781/BU	5	pg/g		<4.2 [U]	<2.9 [U]	<4.6 [U]	<11 F	30.5 M
PCB 015	2050-68-2	XE781/BU	5	pg/g		<12 M, F	<4.1 F	<4.8 [U]	104	301
PCB 019	38444-73-4	XE781/BU	2	pg/g		<2.0 [U]	<1.4 [U]	<1.8 [U]	13.7	26.6
PCB 018+030	----	XE781/BU	5	pg/g		9.80 M	<3.7 F	<8.2 M, F	108	219
PCB 017	37680-66-3	XE781/BU	2	pg/g		<8.3 F	<2.4 M, F	<5.6 F	54.6	124
PCB 027	38444-76-7	XE781/BU	2	pg/g		<1.8 [U]	<1.7 [U]	<1.5 [U]	9.13	<20 F
PCB 024	55702-45-9	XE781/BU	2	pg/g		<1.6 [U]	<1.5 [U]	<1.2 [U]	<1.7 [J], F	<2.6 M, F
PCB 016	38444-78-9	XE781/BU	2	pg/g		<3.0 M, F	<2.6 [U], M	<5.0 M, F	52.2	103 M
PCB 032	38444-77-8	XE781/BU	2	pg/g		<3.5 F	<1.5 [U], M	<3.1 F	<30 M, F	93.5
PCB 034	37680-68-5	XE781/BU	2	pg/g		<2.6 [U]	<2.5 [U]	<2.6 [U]	<2.1 [U]	<2.6 [U]
PCB 023	55720-44-0	XE781/BU	2	pg/g		<2.2 [U]	<2.1 [U]	<2.3 [U]	<1.8 [U]	<2.2 [U]
PCB 026+029	----	XE781/BU	5	pg/g		<2.5 M, F	<2.2 [U]	<2.4 [U]	34.5	90.3
PCB 025	55712-37-3	XE781/BU	2	pg/g		3.34 M	<2.2 [U]	<2.4 [U]	21.1	59.2
PCB 031	16606-02-3	XE781/BU	5	pg/g		30.7	12.3	<12 M, F	244	857
PCB 020+028	----	XE781/BU	5	pg/g		29.0	12.3	17.1	260	770
PCB 021+033	----	XE781/BU	5	pg/g		9.45	<3.2 F	<6.1 F	117	267
PCB 022	38444-85-8	XE781/BU	2	pg/g		<9.6 M, F	3.88 M	<3.6 F	84.6 M	294
PCB 036	38444-87-0	XE781/BU	2	pg/g		<2.1 [U]	<2.0 [U]	<2.2 [U]	<1.7 [U]	<2.1 [U]

Analytical Results

Sub-Matrix: Vegetation
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250616001 ----	15867250616002 ----	15867250616004 ----	15867250617005 ----	15867250617006 ----
					Client sampling date / time	16-Jun-2025 00:00	16-Jun-2025 00:00	16-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00
						BU2501974-001	BU2501974-003	BU2501974-005	BU2501974-007	BU2501974-009
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 039	38444-88-1	XE781/BU	2	pg/g		<2.0 [U]	<1.9 [U]	<2.0 [U]	<1.6 [U]	<6.2 F
PCB 038	53555-66-1	XE781/BU	2	pg/g		<8.8 F	6.00	7.48 M	<5.9 F	8.13
PCB 035	37680-69-6	XE781/BU	2	pg/g		<2.7 [U]	<2.6 [U]	<2.7 [U]	16.6 M	75.5 M
PCB 037	38444-90-5	XE781/BU	2	pg/g		<21 M, F	<4.9 F	<2.6 [U]	210 M	914 M
PCB 054	15968-05-5	XE781/BU	5	pg/g		<1.1 [U]	<1.0 [U]	<0.91 [U]	<0.98 [U]	<0.92 [U], M
PCB 050+053	----	XE781/BU	10	pg/g		<4.3 [U]	<1.7 [U]	<2.2 [U]	23.7	63.1
PCB 045+051	----	XE781/BU	10	pg/g		<4.7 M, F	3.18 M	<4.4 F	26.4	73.4
PCB 046	41464-47-5	XE781/BU	5	pg/g		<5.1 [U]	<2.1 [U]	<2.7 [U]	<9.2 F	28.2 M
PCB 052	35693-99-3	XE781/BU	5	pg/g		55.5 [B]	19.9 [B]	<15 F	685 M	1990 M
PCB 073	74338-23-1	XE781/BU	5	pg/g		<3.0 [U]	<1.2 [U]	<1.6 [U]	2.93 M	<5.1 M, F
PCB 043	70362-46-8	XE781/BU	5	pg/g		<5.2 [U]	<1.9 [U]	<2.5 [U]	<6.4 F	25.1
PCB 049+069	----	XE781/BU	5	pg/g		24.6	10.4	8.40	232	927
PCB 048	70362-47-9	XE781/BU	5	pg/g		<4.1 [U]	<1.6 [U]	<2.2 [U]	35.6	91.8
PCB 044+047+065	----	XE781/BU	5	pg/g		48.4	<21 F	21.0	320	1110
PCB 059+062+075	----	XE781/BU	5	pg/g		<3.2 [U]	<1.3 [U]	<1.7 [U]	24.2	68.8
PCB 042	36559-22-5	XE781/BU	5	pg/g		10.6	3.88 M	<3.7 F	71.1	304
PCB 040+041+071	----	XE781/BU	5	pg/g		<8.6 M, F	4.43 M	<5.9 M, F	115	351
PCB 064	52663-58-8	XE781/BU	5	pg/g		24.0	<8.5 F	<6.5 F	199	850
PCB 072	41464-42-0	XE781/BU	5	pg/g		<3.0 [U]	<2.0 [U]	<2.3 [U]	5.70	29.7
PCB 068	73575-52-7	XE781/BU	5	pg/g		2.93	2.50	<2.0 [U], M	<3.4 F	10.6 M
PCB 057	70424-67-8	XE781/BU	5	pg/g		<3.1 [U]	<2.0 [U]	<2.4 [U]	<3.7 [U]	<10 F

Analytical Results

Sub-Matrix: Vegetation
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250616001 ----	15867250616002 ----	15867250616004 ----	15867250617005 ----	15867250617006 ----
					Client sampling date / time	16-Jun-2025 00:00	16-Jun-2025 00:00	16-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00
						BU2501974-001	BU2501974-003	BU2501974-005	BU2501974-007	BU2501974-009
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 058	41464-49-7	XE781/BU	5	pg/g		<2.6 [U]	<1.7 [U]	<2.1 [U]	4.46 M	<21 M, F
PCB 067	73575-53-8	XE781/BU	5	pg/g		<2.5 [U], M	<1.6 [U]	<2.0 [U]	16.6 M	76.5
PCB 063	74472-34-7	XE781/BU	5	pg/g		<2.9 [U], M	<1.9 [U]	<2.3 [U]	27.3	112
PCB 061+070+074+076	----	XE781/BU	5	pg/g		181	43.8	26.6	2210	8520
PCB 066	32598-10-0	XE781/BU	5	pg/g		76.4	<16 F	13.3	943	3680 M
PCB 055	74338-24-2	XE781/BU	5	pg/g		<2.8 [U]	<1.8 [U]	<2.2 [U]	12.5	36.0 M
PCB 056	41464-43-1	XE781/BU	5	pg/g		27.8	<6.6 F	<3.8 M, F	333	1210
PCB 060	33025-41-1	XE781/BU	5	pg/g		16.2	5.56 M	4.24 M	200 M	816 M
PCB 080	33284-52-5	XE781/BU	5	pg/g		<2.4 [U]	<1.6 [U]	<1.9 [U]	<2.8 [U], M	<4.8 [U], M
PCB 079	41464-48-6	XE781/BU	5	pg/g		<3.9 M, F	<1.7 [U]	<2.0 [U]	31.3	157 M
PCB 078	70362-49-1	XE781/BU	5	pg/g		<3.4 [U]	<2.2 [U]	<2.7 [U]	<4.0 [U]	11.6 M
PCB 081	70362-50-4	XE781/BU	5	pg/g		<3.4 [U]	<2.2 [U]	<2.6 [U]	9.56 M	67.6
PCB 077	32598-13-3	XE781/BU	5	pg/g		44.7	<6.6 F	<3.4 [U], M	305	2070
PCB 104	56558-16-8	XE781/BU	5	pg/g		<0.98 [U]	<0.61 [U]	<0.67 [U]	<0.66 [U]	<0.68 [U]
PCB 096	73575-54-9	XE781/BU	5	pg/g		<1.5 [U]	<0.93 [U]	<1.1 [U]	6.75	24.1
PCB 103	60145-21-3	XE781/BU	5	pg/g		<4.0 [U]	<2.9 [U]	<2.4 [U]	<8.0 F	44.9
PCB 094	73575-55-0	XE781/BU	5	pg/g		<3.8 [U]	<2.8 [U]	<2.3 [U]	<3.3 [U]	17.1
PCB 095	38379-99-6	XE781/BU	5	pg/g		135 M	38.4	21.6	1410 M	6250 M
PCB 093+098+100+102	----	XE781/BU	20	pg/g		<4.4 M, F	<2.6 [U]	<2.2 [U]	39.5 M	138 M
PCB 088+091	----	XE781/BU	5	pg/g		<23 F	<6.0 M, F	<3.3 M, F	214	1010
PCB 084	52663-60-2	XE781/BU	5	pg/g		29.4	<8.4 M, F	<2.6 [U]	368	1600

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Analytical Results

Sub-Matrix: Vegetation
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250616001 ----	15867250616002 ----	15867250616004 ----	15867250617005 ----	15867250617006 ----
					Client sampling date / time	16-Jun-2025 00:00	16-Jun-2025 00:00	16-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00
						BU2501974-001	BU2501974-003	BU2501974-005	BU2501974-007	BU2501974-009
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 089	73575-57-2	XE781/BU	5	pg/g		<5.1 [U]	<3.8 [U]	<3.1 [U]	16.1	66.3
PCB 121	56558-18-0	XE781/BU	5	pg/g		<2.5 [U]	<1.8 [U]	<1.5 [U]	<2.2 [U]	<2.3 [U]
PCB 092	52663-61-3	XE781/BU	5	pg/g		50.0	13.1	<2.8 [U]	433	2040
PCB 090+101+113	----	XE781/BU	20	pg/g		271	65.0	29.8	2620	12600
PCB 083+099	----	XE781/BU	20	pg/g		163	37.2 M	<18 M, F	1550 M	7310 M
PCB 112	74472-36-9	XE781/BU	5	pg/g		<2.6 [U]	<1.9 [U]	<1.6 [U]	<3.7 M, F	<11 M, F
PCB 086+087+097+109+119+125	----	XE781/BU	5	pg/g		132 M	31.0 M	13.9 M	1360 M	6360 M
PCB 085+110+115+116+117	----	XE781/BU	5	pg/g		423 M	105 M	47.6 M	4750 M	21300 M, [E]
PCB 082	52663-62-4	XE781/BU	5	pg/g		31.5	<5.7 F	<3.2 [U], M	406	1640
PCB 111	39635-32-0	XE781/BU	5	pg/g		<2.5 [U]	<1.8 [U]	<1.5 [U]	<2.2 [U]	<2.3 F
PCB 120	68194-12-7	XE781/BU	5	pg/g		<2.8 [U]	<2.1 [U]	<1.7 [U]	10.2	43.6 M
PCB 108+124	----	XE781/BU	10	pg/g		<9.8 F	<1.6 [U]	<1.8 [U]	160	768
PCB 107	70424-68-9	XE781/BU	5	pg/g		20.2 M	<4.5 M, F	<1.6 [U]	306 M	1370 M
PCB 123	65510-44-3	XE781/BU	5	pg/g		6.00 M	<1.9 [U]	<2.3 [U]	109 M	368 M
PCB 106	70424-69-0	XE781/BU	5	pg/g		<2.8 [U]	<1.8 [U]	<2.0 [U]	3.44 M	9.66 M
PCB 118	31508-00-6	XE781/BU	10	pg/g		324 M	69.3	36.6	4610 M	19900 M, [E]
PCB 122	76842-07-4	XE781/BU	5	pg/g		5.78	<2.2 [U]	<2.5 [U]	86.8	344
PCB 114	74472-37-0	XE781/BU	5	pg/g		<9.3 M, F	<2.6 F	<2.3 [U]	152	615
PCB 105	32598-14-4	XE781/BU	5	pg/g		196	44.5	<17 F	2700	12700
PCB 127	39635-33-1	XE781/BU	5	pg/g		<2.5 [U]	<1.7 [U]	<1.9 [U]	13.2 M	60.9
PCB 126	57465-28-8	XE781/BU	5	pg/g		<7.6 M, F	<2.8 [U]	<3.1 [U]	68.6 M	477

Analytical Results

Sub-Matrix: Vegetation
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250616001 ----	15867250616002 ----	15867250616004 ----	15867250617005 ----	15867250617006 ----
					Client sampling date / time	16-Jun-2025 00:00	16-Jun-2025 00:00	16-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00
						BU2501974-001	BU2501974-003	BU2501974-005	BU2501974-007	BU2501974-009
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 155	33979-03-2	XE781/BU	5	pg/g		<0.94 [U]	<0.83 [U]	<0.64 [U]	<0.52 [U]	0.901 [J], M
PCB 152	68194-09-2	XE781/BU	5	pg/g		<2.0 [U]	<1.2 [U]	<1.5 [U]	<2.3 M, F	<7.2 M, F
PCB 150	68194-08-1	XE781/BU	5	pg/g		<1.7 [U]	<0.96 [U]	<1.1 [U]	4.74 M	31.3 M
PCB 136	38411-22-2	XE781/BU	5	pg/g		35.8	<17 F	<4.8 F	389	2030
PCB 145	74472-40-5	XE781/BU	5	pg/g		<1.8 [U]	<1.0 [U]	<1.2 [U]	<0.97 [U]	<3.4 F
PCB 148	74472-41-6	XE781/BU	5	pg/g		<2.8 [U]	<1.7 [U]	<2.0 [U]	4.00 M	20.0
PCB 135+151	----	XE781/BU	10	pg/g		101 M	<46 M, F	14.5 M	1250 M	6540 M
PCB 154	60145-22-4	XE781/BU	10	pg/g		<4.1 M, F	<2.0 M, F	<1.4 [U]	23.1 M	132 M
PCB 144	68194-14-9	XE781/BU	5	pg/g		21.3	<6.9 F	<2.0 [U]	200	1090 M
PCB 147+149	----	XE781/BU	10	pg/g		344	87.1	41.7	3740	19800 [E]
PCB 134+143	----	XE781/BU	10	pg/g		<20 F	<5.3 M, F	3.88	258	1230
PCB 139+140	----	XE781/BU	10	pg/g		<5.2 F	3.26	<2.1 [U]	75.3	388
PCB 131	61798-70-7	XE781/BU	5	pg/g		6.60	<3.4 [U]	<3.0 [U]	71.7	339
PCB 142	41411-61-4	XE781/BU	5	pg/g		<2.7 [U]	<3.3 [U]	<3.0 [U]	<4.7 [U]	<7.3 [U]
PCB 132	38380-05-1	XE781/BU	5	pg/g		135	38.1	<15 F	1550	7970
PCB 133	35694-04-3	XE781/BU	5	pg/g		10.0	<3.1 [U]	<2.7 [U]	86.3	412
PCB 165	74472-46-1	XE781/BU	5	pg/g		<1.5 [U]	<1.9 [U]	<1.7 [U]	19.6	117
PCB 146	51908-16-8	XE781/BU	5	pg/g		76.5	<17 F	<7.2 F	858 M	4410 M
PCB 161	74472-43-8	XE781/BU	5	pg/g		<1.6 [U]	<2.0 [U]	<1.8 [U]	<2.8 [U], M	<4.4 [U], M
PCB 153+168	----	XE781/BU	10	pg/g		451	105	56.4	5400	28200 [E]
PCB 141	52712-04-6	XE781/BU	5	pg/g		111	27.2	<8.7 F	1210	6560

Analytical Results

Sub-Matrix: Vegetation
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250616001 ----	15867250616002 ----	15867250616004 ----	15867250617005 ----	15867250617006 ----
					Client sampling date / time	16-Jun-2025 00:00	16-Jun-2025 00:00	16-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00
						BU2501974-001	BU2501974-003	BU2501974-005	BU2501974-007	BU2501974-009
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 130	52663-66-8	XE781/BU	5	pg/g		35.9	<3.9 F	<4.4 F	409	2040
PCB 137+164	----	XE781/BU	5	pg/g		56.8 M	<13 M, F	<6.0 M, F	702 M	3500 M
PCB 129+138+163	----	XE781/BU	10	pg/g		671 M	163 M	76.1	8150 M	42500 M, [E]
PCB 160	41411-62-5	XE781/BU	10	pg/g		<1.2 [U], M	<1.7 [U], M	<1.5 [U]	17.4 M	75.5 M
PCB 158	74472-42-7	XE781/BU	5	pg/g		52.9	<11 F	<6.8 F	702	3390 M
PCB 128+166	----	XE781/BU	10	pg/g		<78 F	<14 F	9.97	1050	5490
PCB 159	39635-35-3	XE781/BU	5	pg/g		6.85 M	<1.9 [U]	<1.7 [U]	107	602 M
PCB 162	39635-34-2	XE781/BU	5	pg/g		<2.0 [J], M, F	<1.9 [U]	<1.6 [U]	<25 F	143
PCB 167	52663-72-6	XE781/BU	5	pg/g		<23 F	<5.7 F	<2.0 [U]	320	1620
PCB 156+157	----	XE781/BU	10	pg/g		63.0	16.6	<5.1 F	893	4610
PCB 169	32774-16-6	XE781/BU	5	pg/g		<2.5 [U]	<2.7 [U]	<2.8 [U]	4.04	29.0
PCB 188	74487-85-7	XE781/BU	5	pg/g		<1.1 [U]	<1.4 [U]	<0.95 [U]	<2.8 F	20.4
PCB 179	52663-64-6	XE781/BU	5	pg/g		47.1	<11 F	<5.3 F	628	3390
PCB 184	74472-48-3	XE781/BU	5	pg/g		<1.1 [U]	<1.5 [U]	<1.0 [U]	<1.6 [U]	10.6
PCB 176	52663-65-7	XE781/BU	5	pg/g		<15 F	<5.0 F	<1.2 [U], M	194	1110
PCB 186	74472-49-4	XE781/BU	5	pg/g		<1.2 [U]	<1.7 [U]	<1.1 [U]	<1.7 [U]	<1.6 [U]
PCB 178	52663-67-9	XE781/BU	5	pg/g		27.8	<10 M, F	<2.5 F	381	2100
PCB 175	40186-70-7	XE781/BU	5	pg/g		6.58	<2.6 F	<1.7 [U]	84.9	444
PCB 187	52663-68-0	XE781/BU	5	pg/g		144	42.9 M	<16 F	1900 M	11000 M
PCB 182	60145-23-5	XE781/BU	5	pg/g		<1.7 [U]	<2.2 [U]	<1.5 [U]	<13 M, F	<53 M, F
PCB 183	52663-69-1	XE781/BU	10	pg/g		75.7	23.2	<6.8 M, F	1020	5880

Analytical Results

Sub-Matrix: Vegetation
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250616001 ----	15867250616002 ----	15867250616004 ----	15867250617005 ----	15867250617006 ----
					Client sampling date / time	16-Jun-2025 00:00	16-Jun-2025 00:00	16-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00
						BU2501974-001	BU2501974-003	BU2501974-005	BU2501974-007	BU2501974-009
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 185	52712-05-7	XE781/BU	10	pg/g		6.35 M	<3.8 F	<1.6 [U]	135	719 M
PCB 174	38411-25-5	XE781/BU	5	pg/g		119 M	38.9	14.7 M	1650	10000 M
PCB 177	52663-70-4	XE781/BU	5	pg/g		76.2	26.4	<5.8 F	999	5690
PCB 181	74472-47-2	XE781/BU	20	pg/g		<1.7 [U]	<2.3 [U]	<1.6 [U]	9.12	43.3
PCB 171+173	----	XE781/BU	20	pg/g		37.7	12.0	<3.9 F	539	3030
PCB 172	52663-74-8	XE781/BU	5	pg/g		23.6	<6.3 F	<1.7 [U]	326	1910
PCB 192	74472-51-8	XE781/BU	20	pg/g		<1.4 [U]	<1.9 [U]	<1.3 [U]	<2.0 [U]	<1.9 [U]
PCB 180+193	----	XE781/BU	10	pg/g		283	83.0	26.7	3940	23700 [E]
PCB 191	74472-50-7	XE781/BU	5	pg/g		<4.6 F	2.37	<1.4 [U]	83.3	421
PCB 170	35065-30-6	XE781/BU	5	pg/g		122	37.7	<9.6 F	1680	10500
PCB 190	41411-64-7	XE781/BU	5	pg/g		21.6	<7.1 F	<1.2 [U]	335	2040
PCB 189	39635-31-9	XE781/BU	5	pg/g		<3.9 F	<3.2 [U]	<1.5 [U]	88.5	489
PCB 202	2136-99-4	XE781/BU	10	pg/g		11.1	<3.0 M, F	1.88 M	128	706
PCB 201	40186-71-8	XE781/BU	5	pg/g		<5.9 F	<2.2 [U]	<1.2 [U]	113	581
PCB 204	74472-52-9	XE781/BU	5	pg/g		<1.8 [U]	<2.3 [U]	<1.2 [U]	<0.79 [U]	<0.93 [J], F
PCB 197	33091-17-7	XE781/BU	10	pg/g		<1.7 [J], F	<2.0 [U]	<1.0 [U]	32.3	163
PCB 200	52663-73-7	XE781/BU	10	pg/g		5.60	<2.4 [U]	<1.3 [U]	106	625
PCB 198+199	----	XE781/BU	10	pg/g		<52 F	<15 F	<7.1 M, F	901	5560
PCB 196	42740-50-1	XE781/BU	5	pg/g		33.1	<7.8 F	3.55	476	2890
PCB 203	52663-76-0	XE781/BU	5	pg/g		<34 F	<5.0 M, F	<3.2 F	466	2720
PCB 195	52663-78-2	XE781/BU	5	pg/g		24.9	<3.8 F	<3.3 F	365	2190

Analytical Results

Sub-Matrix: Vegetation
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250616001 ----	15867250616002 ----	15867250616004 ----	15867250617005 ----	15867250617006 ----
					Client sampling date / time	16-Jun-2025 00:00	16-Jun-2025 00:00	16-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00
						BU2501974-001	BU2501974-003	BU2501974-005	BU2501974-007	BU2501974-009
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 194	35694-08-7	XE781/BU	5	pg/g		47.4	15.1	<4.2 F	808	4970
PCB 205	74472-53-0	XE781/BU	5	pg/g		<3.7 [U]	<3.2 [U]	<1.9 [U]	62.8 M	343
PCB 208	52663-77-1	XE781/BU	5	pg/g		<4.8 [U]	<5.4 [U]	<3.6 [U]	33.1	156
PCB 207	52663-79-3	XE781/BU	5	pg/g		<5.8 [U]	<5.9 [U]	<4.2 [U]	32.1	145
PCB 206	40186-72-9	XE781/BU	5	pg/g		<11 [U]	<10 [U]	<8.5 [U]	223	1190
PCB 209	2051-24-3	XE781/BU	10	pg/g		<2.1 [U]	<5.2 [U]	<2.3 [U]	<33 F	444
Monochlorinated biphenyls, total	n/a	XE781/BU	200	pg/g		<1.6 [U]	<1.2 [U]	<0.99 [U]	24.3 [J]	35.0 [J]
Dichlorinated biphenyls, total	n/a	XE781/BU	200	pg/g		79.3 [J]	65.6 [J]	73.1 [J]	400 [J]	777 [J]
Trichlorinated biphenyls, total	n/a	XE781/BU	200	pg/g		82.3 [J]	34.5 [J]	24.6 [J]	1220 [J]	3900 [J]
Tetrachlorinated biphenyls, total	n/a	XE781/BU	400	pg/g		512 [J]	93.6 [J]	73.6 [J]	5830 [J]	22700 [J]
Pentachlorinated biphenyls, total	n/a	XE781/BU	400	pg/g		1790 [J]	404 [J]	149 [J]	21400 [J]	97100 [J]
Hexachlorinated biphenyls, total	n/a	XE781/BU	400	pg/g		2180 [J]	441 [J]	202 [J]	27500 [J]	143000 [J]
Heptachlorinated biphenyls, total	n/a	XE781/BU	200	pg/g		991 [J]	266 [J]	41.4 [J]	14000 [J]	82500 [J]
Octachlorinated biphenyls, total	n/a	XE781/BU	100	pg/g		122 [J]	15.1 [J]	5.44 [J]	3460 [J]	20800 [J]
Nonachlorinated biphenyls, total	n/a	XE781/BU	100	pg/g		<4.8 [U]	<5.4 [U]	<3.6 [U]	289 [J]	1490 [J]
Decachlorobiphenyl	2051-24-3	XE781/BU	5	pg/g		<2.1 [U]	<5.2 [U]	<2.3 [U]	<1.4 [U]	443 [J]
Polychlorinated biphenyls [PCBs], total	n/a	XE781/BU	800	pg/g		5750 [J]	1320 [J]	570 [J]	74100 [J]	373000 [J]
Extraction Standards (Surrogates)										
PCB 001, 13C12	234432-85-0	XE781/BU	0.1	%		39.3	39.0	38.1	45.1	40.4
PCB 003, 13C12	208263-77-8	XE781/BU	0.1	%		44.3	45.7	40.4	47.0	41.3
PCB 004, 13C12	234432-86-1	XE781/BU	0.1	%		45.2	44.1	42.6	50.6	44.2

Analytical Results

Sub-Matrix: Vegetation
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250616001 ----	15867250616002 ----	15867250616004 ----	15867250617005 ----	15867250617006 ----
					Client sampling date / time	16-Jun-2025 00:00	16-Jun-2025 00:00	16-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00
						BU2501974-001	BU2501974-003	BU2501974-005	BU2501974-007	BU2501974-009
						Result	Result	Result	Result	Result
Extraction Standards (Surrogates)										
PCB 015, 13C12	208263-67-6	XE781/BU	0.1	%		57.2	64.9	48.6	57.2	52.3
PCB 019, 13C12	234432-87-2	XE781/BU	0.1	%		64.2	66.2	61.4	68.0 M	55.1
PCB 037, 13C12	208263-79-0	XE781/BU	0.1	%		63.2 M	72.2	58.3	67.4	58.8
PCB 054, 13C12	234432-88-3	XE781/BU	0.1	%		65.1	66.1	59.9	63.2	57.3
PCB 081, 13C12	208461-24-9	XE781/BU	0.1	%		67.4	61.7	54.9	29.9	37.1
PCB 077, 13C12	105600-23-5	XE781/BU	0.1	%		62.0	60.4	49.4	28.6	35.9
PCB 104, 13C12	234432-89-4	XE781/BU	0.1	%		72.2	67.5	66.6	72.2	66.0
PCB 123, 13C12	208263-64-3	XE781/BU	0.1	%		60.6	57.4	51.5	62.4	57.2
PCB 118, 13C12	104130-40-7	XE781/BU	0.1	%		67.0	63.3	58.2	68.1	63.1
PCB 114, 13C12	208263-63-2	XE781/BU	0.1	%		60.4	56.3	50.8	63.3	56.6
PCB 105, 13C12	208263-62-1	XE781/BU	0.1	%		58.3	54.9	49.2	61.8	53.8
PCB 126, 13C12	208263-65-4	XE781/BU	0.1	%		52.3	46.2	42.9	25.2	32.6
PCB 155, 13C12	234432-90-7	XE781/BU	0.1	%		74.1	35.8	65.3	75.1	66.6
PCB 167, 13C12	235416-30-5	XE781/BU	0.1	%		69.2	65.2	56.4	74.1	64.9
PCB 156+157, 13C12	N/A	XE781/BU	0.1	%		65.9	62.7	55.5	72.6	62.1
PCB 169, 13C12	208263-70-1	XE781/BU	0.1	%		58.3	57.0	49.3	28.6	39.2
PCB 188, 13C12	234432-91-8	XE781/BU	0.1	%		89.3	68.5	77.7	95.9	80.5
PCB 189, 13C12	208263-73-4	XE781/BU	0.1	%		55.7	48.5	47.1	60.6	51.7
PCB 202, 13C12	105600-26-8	XE781/BU	0.1	%		79.0	67.4	71.7	90.0	74.9
PCB 205, 13C12	234446-64-1	XE781/BU	0.1	%		78.0	66.7	63.8	76.3	72.0
PCB 208, 13C12	234432-92-9	XE781/BU	0.1	%		106	69.7	90.3	104	97.0

Analytical Results

Sub-Matrix: Vegetation (Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID: 15867250616001 ----	15867250616002 ----	15867250616004 ----	15867250617005 ----	15867250617006 ----
					Client sampling date / time: 16-Jun-2025 00:00	16-Jun-2025 00:00	16-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00
					BU2501974-001	BU2501974-003	BU2501974-005	BU2501974-007	BU2501974-009
					Result	Result	Result	Result	Result
Extraction Standards (Surrogates)									
PCB 206, 13C12	208263-75-6	XE781/BU	0.1	%	78.4	64.3 F	65.2	75.2	68.9
PCB 209, 13C12	105600-27-9	XE781/BU	0.1	%	71.3	29.0	62.0	72.7	67.9
Cleanup Standards (Surrogate)									
TCDD-37Cl4, 2,3,7,8-	----	XE766/BU	0.1	%	58.1	68.4	61.3	54.3	59.3
PCB 028, 13C12	208263-76-7	XE781/BU	0.1	%	73.3	71.4	68.5	78.1	63.0
PCB 111, 13C12	235416-29-2	XE781/BU	0.1	%	73.2	50.7	62.2	73.5	65.4
PCB 178, 13C12	232919-67-4	XE781/BU	0.1	%	81.0	78.8	73.2	87.9	75.9
Toxic Equivalency									
PCDD/F TEQ - WHO 2005 (ND=0*EDL)	n/a	XE766/BU	0.0	pg/g	0.0522	0.0607	0.179	2.11	8.42
PCDD/F TEQ - WHO 2005 (ND=0.5*EDL)	n/a	XE766/BU	0.0	pg/g	0.498	0.422	0.557	2.38	8.66
PCDD/F TEQ - WHO 2005 (ND=1*EDL)	n/a	XE766/BU	0.0	pg/g	0.941	0.784	0.929	2.65	8.90
PCB TEQ - WHO 2005 (ND=0.5*EDL)	n/a	XE781/BU	0.0	pg/g	0.438	0.183	0.201	7.30	50.0
PCB TEQ - WHO 2005 (ND=0*EDL)	n/a	XE781/BU	0.0	pg/g	0.0222	0.00392	0.00110	7.30	50.0
PCB TEQ - WHO 2005 (ND=1*EDL)	n/a	XE781/BU	0.0	pg/g	0.852	0.363	0.403	7.30	50.0

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

Analytical Results

Sub-Matrix: Vegetation (Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID: 15867250617007 ----	15867250617008 ----	15867250617009 ----	15867250618010 ----	15867250618011 ----
					Client sampling date / time: 17-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00	18-Jun-2025 00:00	18-Jun-2025 00:00
					BU2501974-011	BU2501974-013	BU2501974-015	BU2501974-017	BU2501974-019
					Result	Result	Result	Result	Result
Sample Preparation									
Weight, extraction (wet)	----	EP800/BU	0.0001	g	10.3573	10.1070	10.4339	10.1341	10.4865

Analytical Results

Sub-Matrix: Vegetation
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250617007 ----	15867250617008 ----	15867250617009 ----	15867250618010 ----	15867250618011 ----
					Client sampling date / time	17-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00	18-Jun-2025 00:00	18-Jun-2025 00:00
						BU2501974-011	BU2501974-013	BU2501974-015	BU2501974-017	BU2501974-019
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/BU	0.50	%		64.4	64.9	77.3	68.1	69.4
Dioxins and Furans										
TCDD, 2,3,7,8-	1746-01-6	XE766/BU	1	pg/g		0.378 [J]	0.213 [J]	<0.25 [U]	<0.34 [U]	<0.20 [U]
PeCDD, 1,2,3,7,8-	40321-76-4	XE766/BU	1	pg/g		1.46 [J]	<0.54 [J], M, F	<0.31 [U]	0.368 [J], M	<0.15 [U]
HxCDD, 1,2,3,4,7,8-	39227-28-6	XE766/BU	1	pg/g		1.11 [J], M	<0.77 [J], M, F	<0.41 [U]	0.446 [J], M	<0.23 [U]
HxCDD, 1,2,3,6,7,8-	57653-85-7	XE766/BU	1	pg/g		2.95	2.26 [J]	<0.39 [U]	0.722 [J], M	<0.23 [U]
HxCDD, 1,2,3,7,8,9-	19408-74-3	XE766/BU	1	pg/g		2.38 [J], M	1.45 [J]	<0.38 [U]	0.566 [J], M	<0.22 [U]
HpCDD, 1,2,3,4,6,7,8-	35822-46-9	XE766/BU	1	pg/g		34.7	24.1	<2.4 [J], F	<6.6 M, F	<2.2 [J], F
OCDD	3268-87-9	XE766/BU	2	pg/g		94.5	77.7	9.31 M, [B]	20.7 [B]	13.9 [B]
Tetrachlorodibenzo-p-dioxins [TCDD], total	41903-57-5	XE766/BU	1	pg/g		2.16 [J]	0.883 [J]	<0.25 [U]	0.748 [J]	<0.20 [U]
TCDD, total, # homologues detected	----	XE766/BU	0	-		5	2	0	1	0
Pentachlorodibenzo-p-dioxins [PeCDD], total	----	XE766/BU	1	pg/g		11.7	6.40	0.406 [J]	1.31 [J]	<0.15 [U]
PeCDD, total, # homologues detected	----	XE766/BU	0	-		6	4	1	3	0
Hexachlorodibenzo-p-dioxins [HxCDD], total	34465-46-8	XE766/BU	1	pg/g		35.2	25.8	2.18 [J]	7.05	<0.23 [U]
HxCDD, total, # homologues detected	----	XE766/BU	0	-		6	5	2	5	0
Heptachlorodibenzo-p-dioxins [HpCDD], total	37871-00-4	XE766/BU	1	pg/g		72.0	50.6	3.91 [J]	8.59	2.85 [J]
HpCDD, total, # homologues detected	----	XE766/BU	0	-		2	2	1	1	1
TCDF, 2,3,7,8-	51207-31-9	XE766/BU	1	pg/g		6.06	6.78	1.09 [J]	3.69	<0.16 [U]
PeCDF, 1,2,3,7,8-	57117-41-6	XE766/BU	1	pg/g		2.09 [J]	1.94 [J]	<0.4 [J], M, F	0.851 [J]	<0.1 [U], M
PeCDF, 2,3,4,7,8-	57117-31-4	XE766/BU	1	pg/g		4.30 M	3.65	0.409 [J], M	2.14 [J]	<0.16 [J], M, F
HxCDF, 1,2,3,4,7,8-	70648-26-9	XE766/BU	1	pg/g		3.26	2.43 [J]	0.302 [J]	0.813 [J]	<0.100 [U]

Analytical Results

Sub-Matrix: Vegetation
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250617007 ----	15867250617008 ----	15867250617009 ----	15867250618010 ----	15867250618011 ----
					Client sampling date / time	17-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00	18-Jun-2025 00:00	18-Jun-2025 00:00
						BU2501974-011	BU2501974-013	BU2501974-015	BU2501974-017	BU2501974-019
						Result	Result	Result	Result	Result
Dioxins and Furans										
HxCDF, 1,2,3,6,7,8-	57117-44-9	XE766/BU	1	pg/g		3.03	2.21 [J]	<0.27 [J], F	0.804 [J]	<0.098 [U]
HxCDF, 1,2,3,7,8,9-	72918-21-9	XE766/BU	1	pg/g		<1.0 [J], M, F	<0.58 [J], M, F	<0.27 [U]	<0.19 [U], M	<0.15 [U]
HxCDF, 2,3,4,6,7,8-	60851-34-5	XE766/BU	1	pg/g		4.93	3.67	<0.22 [U]	1.02 [J]	<0.11 [U]
HpCDF, 1,2,3,4,6,7,8-	67562-39-4	XE766/BU	2	pg/g		16.5	12.3	1.74 [J]	<3.2 F	<0.60 [J], F
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	XE766/BU	1	pg/g		<1.3 [J], F	<0.72 [J], M, F	<0.34 [U]	<0.61 [U], M	<0.62 [U]
OCDF	39001-02-0	XE766/BU	2	pg/g		12.7	9.99	<1.3 [J], M, F	3.17 [J], M	<0.89 [J], M, F
Tetrachlorodibenzofurans [TCDF], total	----	XE766/BU	1	pg/g		32.7	25.3	1.97 [J]	32.2	<0.16 [U]
TCDF, total, # homologues detected	----	XE766/BU	0	-		15	13	3	9	0
Pentachlorodibenzofurans [PeCDF], total	----	XE766/BU	1	pg/g		31.1	21.3	1.30 [J]	8.70	<0.16 [U]
PeCDF, total, # homologues detected	----	XE766/BU	0	-		11	9	2	5	0
Hexachlorodibenzofurans [HxCDF], total	55684-94-1	XE766/BU	1	pg/g		21.2	19.8	0.525 [J]	5.74	0.346 [J]
HxCDF, total, # homologues detected	----	XE766/BU	0	-		6	8	2	5	1
Heptachlorodibenzofurans [HpCDF], total	38998-75-3	XE766/BU	2	pg/g		18.9	12.3	1.74 [J]	<3.2 [U]	<0.62 [U]
HpCDF, total, # homologues detected	----	XE766/BU	0	-		2	1	1	0	0
Dioxins and Furans Surrogates										
TCDD-13C12, 2,3,7,8-	76523-40-5	XE766/BU	0.1	%		57.7	66.7	47.1	62.3	66.2
PeCDD-13C12, 1,2,3,7,8-	109719-79-1	XE766/BU	0.1	%		48.6	57.2	42.7	55.4	59.8
HxCDD-13C12, 1,2,3,4,7,8-	109719-80-4	XE766/BU	0.1	%		67.0	72.9	56.9	70.6	69.8
HxCDD-13C12, 1,2,3,6,7,8-	109719-81-5	XE766/BU	0.1	%		64.9	78.0	54.3	67.4	72.2
HpCDD-13C12, 1,2,3,4,6,7,8-	109719-83-7	XE766/BU	0.1	%		50.0	57.6	50.4	53.2	55.2
OCDD-13C12	114423-97-1	XE766/BU	0.1	%		37.1	42.7	43.5	40.1	42.1

Analytical Results

Sub-Matrix: Vegetation
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250617007 ----	15867250617008 ----	15867250617009 ----	15867250618010 ----	15867250618011 ----
					Client sampling date / time	17-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00	18-Jun-2025 00:00	18-Jun-2025 00:00
						BU2501974-011	BU2501974-013	BU2501974-015	BU2501974-017	BU2501974-019
						Result	Result	Result	Result	Result
Dioxins and Furans Surrogates										
TCDF-13C12, 2,3,7,8-	89059-46-1	XE766/BU	0.1	%		48.3	55.3	38.4	52.2	58.7
PeCDF-13C12, 1,2,3,7,8-	109719-77-9	XE766/BU	0.1	%		50.4	58.3	42.5	55.8	60.2
PeCDF-13C12, 2,3,4,7,8-	116843-02-8	XE766/BU	0.1	%		46.4	56.7	41.7	54.8	60.5
HxCDF-13C12, 1,2,3,4,7,8-	114423-98-2	XE766/BU	0.1	%		71.3	81.8	56.2	75.0	76.8
HxCDF-13C12, 1,2,3,6,7,8-	116843-03-9	XE766/BU	0.1	%		75.2	81.0	58.2	78.0	78.6
HxCDF-13C12, 2,3,4,6,7,8-	116843-05-1	XE766/BU	0.1	%		62.8	74.4	51.9	69.7	71.9
HxCDF-13C12, 1,2,3,7,8,9-	116843-04-0	XE766/BU	0.1	%		66.7	79.0	58.2	72.2	73.9
HpCDF-13C12, 1,2,3,4,6,7,8-	67562-39-4	XE766/BU	0.1	%		55.6	61.8	50.4	58.3	58.6
HpCDF-13C12, 1,2,3,4,7,8,9-	55673-89-7	XE766/BU	0.1	%		53.0	60.6	53.3	56.8	58.7
Polychlorinated Biphenyls										
PCB 001	2051-60-7	XE781/BU	2	pg/g		11.2 M	20.0	<1.3 [U]	5.12	<0.89 [U]
PCB 002	2051-61-8	XE781/BU	2	pg/g		<3.1 F	<3.3 M, F	<1.2 [U]	<1.7 M, F	<0.85 [U]
PCB 003	2051-62-9	XE781/BU	5	pg/g		<9.1 M, F	<8.4 M, F	<1.5 [U]	<3.7 F	<1.0 [U]
PCB 004	13029-08-8	XE781/BU	5	pg/g		59.4	70.9 M	<6.9 [U]	17.2 M	<4.0 [U]
PCB 010	33146-45-1	XE781/BU	5	pg/g		<2.3 [U]	<1.5 [U]	<3.2 [U]	<2.0 [U]	<1.9 [U]
PCB 009	34883-39-1	XE781/BU	2	pg/g		16.1	<13 M, F	<3.5 [U]	<2.2 [U]	<2.0 [U]
PCB 007	33284-50-3	XE781/BU	2	pg/g		7.53	<6.1 F	<3.0 [U]	<1.9 [U]	<1.7 [U]
PCB 006	25569-80-6	XE781/BU	2	pg/g		50.0	40.7 M	<5.4 M, F	<8.8 M, F	<2.0 [U]
PCB 005	16605-91-7	XE781/BU	2	pg/g		<2.3 [U], M	2.17 M	<3.2 [U]	<2.0 [U]	<1.8 [U]
PCB 008	34883-43-7	XE781/BU	5	pg/g		205 M	191 M	<19 F	53.9	15.5
PCB 014	34883-41-5	XE781/BU	2	pg/g		<4.9 [U]	<3.0 [U]	<5.5 [U]	<4.2 [U]	<3.3 [U]

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Analytical Results

Sub-Matrix: Vegetation
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250617007 ----	15867250617008 ----	15867250617009 ----	15867250618010 ----	15867250618011 ----
					Client sampling date / time	17-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00	18-Jun-2025 00:00	18-Jun-2025 00:00
						BU2501974-011	BU2501974-013	BU2501974-015	BU2501974-017	BU2501974-019
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 011	2050-67-1	XE781/BU	20	pg/g		53.1 [B]	92.2 [B]	88.2 [B]	68.2 [B]	66.0 [B]
PCB 012+013	n/a	XE781/BU	5	pg/g		19.3 M	16.8	<4.8 [U]	<3.7 [U]	<2.9 [U]
PCB 015	2050-68-2	XE781/BU	5	pg/g		183	172	12.1	47.5	<4.3 M, F
PCB 019	38444-73-4	XE781/BU	2	pg/g		21.0	22.6	<2.0 [U]	<4.5 M, F	2.77 M
PCB 018+030	----	XE781/BU	5	pg/g		182	172	<14 F	39.3	<15 M, F
PCB 017	37680-66-3	XE781/BU	2	pg/g		<86 M, F	92.8	<7.8 F	23.1 M	10.1 M
PCB 027	38444-76-7	XE781/BU	2	pg/g		15.7	<15 F	<2.2 [U]	<3.5 M, F	<2.1 [U]
PCB 024	55702-45-9	XE781/BU	2	pg/g		<2.0 F	3.18	<1.8 [U]	<1.3 [U]	<1.8 [U]
PCB 016	38444-78-9	XE781/BU	2	pg/g		89.8	85.8	6.12 M	<17 F	<8.9 F
PCB 032	38444-77-8	XE781/BU	2	pg/g		58.1	62.3	5.51	14.4 M	<4.6 F
PCB 034	37680-68-5	XE781/BU	2	pg/g		<3.4 [U]	<2.6 [U]	<2.8 [U]	<2.0 [U]	<1.4 [U]
PCB 023	55720-44-0	XE781/BU	2	pg/g		<2.9 [U]	<2.2 [U]	<2.4 [U]	<1.8 [U]	<1.2 [U]
PCB 026+029	----	XE781/BU	5	pg/g		68.3	61.8	6.45	<14 F	<2.8 F
PCB 025	55712-37-3	XE781/BU	2	pg/g		39.4	38.5	<2.6 M, F	<8.5 F	1.72 M
PCB 031	16606-02-3	XE781/BU	5	pg/g		478	480	38.9	132	15.9
PCB 020+028	----	XE781/BU	5	pg/g		482	535	43.9	142	16.8
PCB 021+033	----	XE781/BU	5	pg/g		224	211	<13 F	45.2	<8.8 F
PCB 022	38444-85-8	XE781/BU	2	pg/g		166	178	11.3	47.5 M	<5.0 M, F
PCB 036	38444-87-0	XE781/BU	2	pg/g		<2.8 [U]	<2.1 [U]	<2.3 [U]	<1.6 [U]	<1.1 [U]
PCB 039	38444-88-1	XE781/BU	2	pg/g		4.05	<3.6 F	<2.2 [U]	<1.6 [U], M	<1.0 [U]
PCB 038	53555-66-1	XE781/BU	2	pg/g		8.49	<7.2 F	<4.8 F	6.99	<2.8 F

Analytical Results

Sub-Matrix: Vegetation
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250617007 ----	15867250617008 ----	15867250617009 ----	15867250618010 ----	15867250618011 ----
					Client sampling date / time	17-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00	18-Jun-2025 00:00	18-Jun-2025 00:00
						BU2501974-011	BU2501974-013	BU2501974-015	BU2501974-017	BU2501974-019
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 035	37680-69-6	XE781/BU	2	pg/g		47.5 M	49.1	<2.9 [U]	<12 M, F	<1.4 [U]
PCB 037	38444-90-5	XE781/BU	2	pg/g		376 M	398 M	<20 F	102 M	<5.1 M, F
PCB 054	15968-05-5	XE781/BU	5	pg/g		<1.1 [U]	<0.95 [J], M, F	<1.1 [U]	<0.80 [U]	<0.78 [U]
PCB 050+053	----	XE781/BU	10	pg/g		37.5	38.6	3.73 M	10.6	<2.0 F
PCB 045+051	----	XE781/BU	10	pg/g		45.3	44.4	<4.8 M, F	<10 M, F	<3.6 M, F
PCB 046	41464-47-5	XE781/BU	5	pg/g		15.8 M	16.6	<2.4 [U]	<3.1 F	<2.3 [U]
PCB 052	35693-99-3	XE781/BU	5	pg/g		1080 M	1020 M	<56 M, F	289 M	18.4 [B]
PCB 073	74338-23-1	XE781/BU	5	pg/g		2.27 M	1.90 M	<1.4 [U]	<0.94 [U], M	<1.3 [U]
PCB 043	70362-46-8	XE781/BU	5	pg/g		11.6 M	12.0	<2.3 [U]	<1.8 M, F	<2.1 [U]
PCB 049+069	----	XE781/BU	5	pg/g		414	406	<27 F	117	6.58
PCB 048	70362-47-9	XE781/BU	5	pg/g		55.7	57.4	<3.8 F	16.2	<2.8 F
PCB 044+047+065	----	XE781/BU	5	pg/g		509	483	49.8	148	<18 F
PCB 059+062+075	----	XE781/BU	5	pg/g		37.8	37.4	<2.1 [J], F	<7.8 F	<1.4 [U]
PCB 042	36559-22-5	XE781/BU	5	pg/g		135	137	12.9	41.6	<3.1 M, F
PCB 040+041+071	----	XE781/BU	5	pg/g		201	200	<12 M, F	52.0	<7.3 M, F
PCB 064	52663-58-8	XE781/BU	5	pg/g		371	345	23.4	103	7.16
PCB 072	41464-42-0	XE781/BU	5	pg/g		12.8	14.1	<2.9 [U]	4.70 M	<2.0 [U]
PCB 068	73575-52-7	XE781/BU	5	pg/g		<5.1 [U]	<4.5 M, F	<2.4 [U]	<2.7 [U]	<1.7 [U]
PCB 057	70424-67-8	XE781/BU	5	pg/g		<6.2 [U]	<6.1 F	<3.0 [U]	<3.4 [U]	<2.1 [U]
PCB 058	41464-49-7	XE781/BU	5	pg/g		8.00 M	<2.2 [U]	<2.6 [U]	<2.9 [U], M	<1.8 [U]
PCB 067	73575-53-8	XE781/BU	5	pg/g		41.2	40.9	<2.4 [U]	<11 F	<1.7 [U]

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Analytical Results

Sub-Matrix: Vegetation
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250617007 ----	15867250617008 ----	15867250617009 ----	15867250618010 ----	15867250618011 ----
					Client sampling date / time	17-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00	18-Jun-2025 00:00	18-Jun-2025 00:00
						BU2501974-011	BU2501974-013	BU2501974-015	BU2501974-017	BU2501974-019
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 063	74472-34-7	XE781/BU	5	pg/g		52.2	46.0	<2.8 [U], M	14.2	<2.0 [U]
PCB 061+070+074+076	----	XE781/BU	5	pg/g		3690	3520	174	990	20.4
PCB 066	32598-10-0	XE781/BU	5	pg/g		1540 M	1490 M	79.2 M	432 M	9.37
PCB 055	74338-24-2	XE781/BU	5	pg/g		28.1 M	20.0 M	<2.7 [U]	<5.7 M, F	<1.9 [U]
PCB 056	41464-43-1	XE781/BU	5	pg/g		584	568	24.2	149	<3.1 F
PCB 060	33025-41-1	XE781/BU	5	pg/g		349 M	349 M	<17 F	101 M	<1.9 [U], M
PCB 080	33284-52-5	XE781/BU	5	pg/g		<4.9 [U], M	<2.0 [U], M	<2.3 [U]	<2.6 [U]	<1.7 [U]
PCB 079	41464-48-6	XE781/BU	5	pg/g		67.0	74.5	<3.3 M, F	16.8 M	<1.8 [U]
PCB 078	70362-49-1	XE781/BU	5	pg/g		<7.2 M, F	9.15 M	<3.3 [U]	<3.7 [U]	<2.3 [U]
PCB 081	70362-50-4	XE781/BU	5	pg/g		23.0	23.9 M	<3.4 [U]	7.24 M	<2.4 [U]
PCB 077	32598-13-3	XE781/BU	5	pg/g		767	767	36.1 M	240	<3.2 M, F
PCB 104	56558-16-8	XE781/BU	5	pg/g		<0.78 [U]	<0.62 [U]	<1.0 [U]	<0.82 [U]	<0.75 [U]
PCB 096	73575-54-9	XE781/BU	5	pg/g		<12 F	11.6	<1.7 [U]	<2.3 F	<1.3 [U]
PCB 103	60145-21-3	XE781/BU	5	pg/g		21.4	23.3	<3.8 [U]	6.20	<2.8 [U]
PCB 094	73575-55-0	XE781/BU	5	pg/g		7.81	<8.5 M, F	<3.7 [U]	<3.4 [U]	<2.7 [U]
PCB 095	38379-99-6	XE781/BU	5	pg/g		2480 M	2560 M	132 M	589 M	13.2
PCB 093+098+100+102	----	XE781/BU	20	pg/g		61.0 M	66.0 M	<5.7 M, F	17.9 M	<2.6 [U]
PCB 088+091	----	XE781/BU	5	pg/g		384	390	24.3	103	<2.8 [U]
PCB 084	52663-60-2	XE781/BU	5	pg/g		588	593	29.5	141	3.50
PCB 089	73575-57-2	XE781/BU	5	pg/g		32.7	29.5	<5.0 [U]	<4.6 [U]	<3.7 [U]
PCB 121	56558-18-0	XE781/BU	5	pg/g		<3.5 [U]	<1.8 [U]	<2.5 [U]	<2.3 [U]	<1.8 [U]

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Analytical Results

Sub-Matrix: Vegetation
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250617007 ----	15867250617008 ----	15867250617009 ----	15867250618010 ----	15867250618011 ----
					Client sampling date / time	17-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00	18-Jun-2025 00:00	18-Jun-2025 00:00
						BU2501974-011	BU2501974-013	BU2501974-015	BU2501974-017	BU2501974-019
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 092	52663-61-3	XE781/BU	5	pg/g		797	827	43.6	210	<3.3 [U]
PCB 090+101+113	----	XE781/BU	20	pg/g		5020	4980	253	1320	21.5
PCB 083+099	----	XE781/BU	20	pg/g		2790 M	2760 M	147	765 M	<11 F
PCB 112	74472-36-9	XE781/BU	5	pg/g		<5.9 M, F	5.68 M	<2.6 [U]	<3.2 M, F	<1.8 [U]
PCB 086+087+097+109+119+125	----	XE781/BU	5	pg/g		2430 M	2470 M	120 M	612 M	7.97 M
PCB 085+110+115+116+117	----	XE781/BU	5	pg/g		8210 M	8040 M	366 M	2120 M	28.8 M
PCB 082	52663-62-4	XE781/BU	5	pg/g		718	668 M	37.9 M	166	<3.8 [U]
PCB 111	39635-32-0	XE781/BU	5	pg/g		<6.0 F	3.85 M	<2.5 [U]	<2.3 [U], M	<1.8 [U]
PCB 120	68194-12-7	XE781/BU	5	pg/g		34.2	30.0 M	<2.8 [U]	11.1	<2.0 [U]
PCB 108+124	----	XE781/BU	10	pg/g		290	293	<10 M, F	76.2	<1.4 [U]
PCB 107	70424-68-9	XE781/BU	5	pg/g		497 M	537 M	21.9 M	124 M	<1.3 [U]
PCB 123	65510-44-3	XE781/BU	5	pg/g		163 M	135 M	6.31 M	43.3 M	<1.9 [U]
PCB 106	70424-69-0	XE781/BU	5	pg/g		<7.4 [U], M	<4.6 M, F	<2.3 [U]	<3.7 [U]	<1.6 [U]
PCB 118	31508-00-6	XE781/BU	10	pg/g		7670	7530	301 M	1950 M	22.4 M
PCB 122	76842-07-4	XE781/BU	5	pg/g		145	144	4.74 M	38.7	<2.0 [U]
PCB 114	74472-37-0	XE781/BU	5	pg/g		240	240	<6.6 F	58.1	<1.7 [U]
PCB 105	32598-14-4	XE781/BU	5	pg/g		4440	4370	186	1110	<11 F
PCB 127	39635-33-1	XE781/BU	5	pg/g		20.1	<17 F	<2.2 [U]	<3.5 [U], M	<1.5 [U]
PCB 126	57465-28-8	XE781/BU	5	pg/g		166	176	<3.3 [U]	46.1	<2.5 [U]
PCB 155	33979-03-2	XE781/BU	5	pg/g		<0.53 [U]	<0.44 [U]	<0.62 [U]	<0.44 [U]	<0.84 [U]
PCB 152	68194-09-2	XE781/BU	5	pg/g		<2.5 F	4.60 M	<1.4 [U]	<1.0 [U], M	<2.0 [U]

Analytical Results

Sub-Matrix: Vegetation
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250617007 ----	15867250617008 ----	15867250617009 ----	15867250618010 ----	15867250618011 ----
					Client sampling date / time	17-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00	18-Jun-2025 00:00	18-Jun-2025 00:00
						BU2501974-011	BU2501974-013	BU2501974-015	BU2501974-017	BU2501974-019
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 150	68194-08-1	XE781/BU	5	pg/g		12.7	12.1 M	<1.1 [U]	3.70 M	<1.6 [U]
PCB 136	38411-22-2	XE781/BU	5	pg/g		741	775	38.6	176	2.65
PCB 145	74472-40-5	XE781/BU	5	pg/g		<1.0 [J], F	<2.0 F	<1.2 [U]	<0.83 [U]	<1.7 [U]
PCB 148	74472-41-6	XE781/BU	5	pg/g		8.88	8.40	<1.9 [U]	<2.3 M, F	<2.7 [U]
PCB 135+151	----	XE781/BU	10	pg/g		2360 M	2350 M	102 M	518 M	7.69 M
PCB 154	60145-22-4	XE781/BU	10	pg/g		45.4 M	45.6 M	<3.5 M, F	15.3 M	<1.9 [U]
PCB 144	68194-14-9	XE781/BU	5	pg/g		404 M	412 M	19.8 M	96.6 M	<2.8 [U]
PCB 147+149	----	XE781/BU	10	pg/g		7240	7560	342	1850	22.3
PCB 134+143	----	XE781/BU	10	pg/g		438	452	22.3	102	<2.5 [U]
PCB 139+140	----	XE781/BU	10	pg/g		155	150	<5.0 F	39.5	<1.8 [U]
PCB 131	61798-70-7	XE781/BU	5	pg/g		138	138	<5.7 F	<32 F	<2.6 [U]
PCB 142	41411-61-4	XE781/BU	5	pg/g		<6.2 [U]	<4.2 [U]	<3.1 [U]	<2.6 [U]	<2.5 [U]
PCB 132	38380-05-1	XE781/BU	5	pg/g		2800	2900	114	703	<7.2 F
PCB 133	35694-04-3	XE781/BU	5	pg/g		177	159	<8.3 F	44.7	<2.3 [U]
PCB 165	74472-46-1	XE781/BU	5	pg/g		39.6	47.4 M	<2.0 [J], F	10.5	<1.4 [U]
PCB 146	51908-16-8	XE781/BU	5	pg/g		1670 M	1670 M	83.8	434 M	<3.5 F
PCB 161	74472-43-8	XE781/BU	5	pg/g		<3.7 [U], M	<2.5 [U], M	<1.9 [U]	<1.5 [U], M	<1.5 [U]
PCB 153+168	----	XE781/BU	10	pg/g		10400	10400	452	2670	<28 F
PCB 141	52712-04-6	XE781/BU	5	pg/g		2400	2370	102	570	<6.3 F
PCB 130	52663-66-8	XE781/BU	5	pg/g		770	777	<32 F	198	2.58
PCB 137+164	----	XE781/BU	5	pg/g		1290 M	1290 M	<47 M, F	310 M	<3.0 M, F

Analytical Results

Sub-Matrix: Vegetation
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250617007 ----	15867250617008 ----	15867250617009 ----	15867250618010 ----	15867250618011 ----
					Client sampling date / time	17-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00	18-Jun-2025 00:00	18-Jun-2025 00:00
						BU2501974-011	BU2501974-013	BU2501974-015	BU2501974-017	BU2501974-019
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 129+138+163	----	XE781/BU	10	pg/g		15100 M, [E]	15100 M, [E]	644 M	3710 M	36.0 M
PCB 160	41411-62-5	XE781/BU	10	pg/g		<11 M, F	<11 M, F	1.76 [J], M	4.09 M	<1.3 [U]
PCB 158	74472-42-7	XE781/BU	5	pg/g		1200 M	1210 M	53.7	295	<2.9 M, F
PCB 128+166	----	XE781/BU	10	pg/g		1930	1950	81.4	474	<6.0 F
PCB 159	39635-35-3	XE781/BU	5	pg/g		203 M	209 M	9.18 M	49.8 M	<1.4 [U]
PCB 162	39635-34-2	XE781/BU	5	pg/g		52.1	51.8	<1.9 [J], M, F	14.6	<1.4 [U], M
PCB 167	52663-72-6	XE781/BU	5	pg/g		577	590	<19 F	133	<1.8 F
PCB 156+157	----	XE781/BU	10	pg/g		1540	1620	58.4	371	<4.5 F
PCB 169	32774-16-6	XE781/BU	5	pg/g		10.4	10.3	<3.0 [U], M	2.74	<2.3 [U]
PCB 188	74487-85-7	XE781/BU	5	pg/g		<8.3 F	8.42	<1.8 [U]	<2.1 F	<1.0 [U]
PCB 179	52663-64-6	XE781/BU	5	pg/g		1210	1240	54.2	283	<2.8 M, F
PCB 184	74472-48-3	XE781/BU	5	pg/g		<4.0 F	3.97	<2.0 [U]	<0.93 [U]	<1.2 [U]
PCB 176	52663-65-7	XE781/BU	5	pg/g		404	399	18.5	93.4	<1.4 [U]
PCB 186	74472-49-4	XE781/BU	5	pg/g		<2.2 [U]	<1.6 [U]	<2.2 [U]	<1.0 [U]	<1.3 [U]
PCB 178	52663-67-9	XE781/BU	5	pg/g		736	731	36.8	182	<2.0 [U]
PCB 175	40186-70-7	XE781/BU	5	pg/g		169	165	7.62	38.8	<1.9 [U]
PCB 187	52663-68-0	XE781/BU	5	pg/g		3810 M	3770 M	163 M	939 M	<7.9 F
PCB 182	60145-23-5	XE781/BU	5	pg/g		24.0 M	<23 M, F	<2.9 [U]	<5.9 M, F	<1.7 [U]
PCB 183	52663-69-1	XE781/BU	10	pg/g		2140 M	2050	86.8	527	5.40
PCB 185	52712-05-7	XE781/BU	10	pg/g		196 M	263	9.88 M	40.9 M	<1.7 [U]
PCB 174	38411-25-5	XE781/BU	5	pg/g		3420 M	3420	127 M	819 M	9.51 M

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Analytical Results

Sub-Matrix: Vegetation
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250617007 ----	15867250617008 ----	15867250617009 ----	15867250618010 ----	15867250618011 ----
					Client sampling date / time	17-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00	18-Jun-2025 00:00	18-Jun-2025 00:00
						BU2501974-011	BU2501974-013	BU2501974-015	BU2501974-017	BU2501974-019
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 177	52663-70-4	XE781/BU	5	pg/g		1910	1960	77.0	467	<5.2 M, F
PCB 181	74472-47-2	XE781/BU	20	pg/g		18.2	<16 F	<3.0 [U]	<4.2 F	<1.8 [U]
PCB 171+173	----	XE781/BU	20	pg/g		1040	1050	39.8	257	2.68
PCB 172	52663-74-8	XE781/BU	5	pg/g		685	660	<25 F	162	<2.1 M, F
PCB 192	74472-51-8	XE781/BU	20	pg/g		<2.6 [U]	<1.9 [U]	<2.5 [U]	<1.2 [U]	<1.5 [U]
PCB 180+193	----	XE781/BU	10	pg/g		7970	8060	324	1960	<16 F
PCB 191	74472-50-7	XE781/BU	5	pg/g		149	154	<7.7 F	38.4	<1.5 [U]
PCB 170	35065-30-6	XE781/BU	5	pg/g		3410	3530	139	850	<6.2 F
PCB 190	41411-64-7	XE781/BU	5	pg/g		661	668	25.3 M	150	<1.3 [U]
PCB 189	39635-31-9	XE781/BU	5	pg/g		168	178	<5.1 M, F	<34 M, F	<1.7 [U]
PCB 202	2136-99-4	XE781/BU	10	pg/g		218	238	<8.1 F	54.2	<1.4 [U]
PCB 201	40186-71-8	XE781/BU	5	pg/g		206	209	<6.0 F	49.3	<1.7 [U]
PCB 204	74472-52-9	XE781/BU	5	pg/g		<1.0 [U]	<0.84 [U]	<0.90 [U]	<1.3 [U]	<1.8 [U]
PCB 197	33091-17-7	XE781/BU	10	pg/g		50.8	58.2	3.14	13.4	<1.6 [U]
PCB 200	52663-73-7	XE781/BU	10	pg/g		204	223	<6.8 M, F	49.1	<1.9 [U]
PCB 198+199	----	XE781/BU	10	pg/g		1750	1840	68.4	381	<4.9 M, F
PCB 196	42740-50-1	XE781/BU	5	pg/g		923	967	<34 F	197	<2.7 [U], M
PCB 203	52663-76-0	XE781/BU	5	pg/g		865	941	<31 F	200	2.48
PCB 195	52663-78-2	XE781/BU	5	pg/g		650	721	24.5	158 M	<2.7 [U]
PCB 194	35694-08-7	XE781/BU	5	pg/g		1550	1720	55.4	346	5.11 M
PCB 205	74472-53-0	XE781/BU	5	pg/g		<100 F	131	<4.4 F	<26 F	<3.3 [U]

Analytical Results

Sub-Matrix: Vegetation
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250617007 ----	15867250617008 ----	15867250617009 ----	15867250618010 ----	15867250618011 ----
					Client sampling date / time	17-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00	18-Jun-2025 00:00	18-Jun-2025 00:00
						BU2501974-011	BU2501974-013	BU2501974-015	BU2501974-017	BU2501974-019
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 208	52663-77-1	XE781/BU	5	pg/g		<57 M, F	66.0	<3.6 [U]	<16 F	<3.0 [U]
PCB 207	52663-79-3	XE781/BU	5	pg/g		58.9	53.8	<4.3 [U]	15.8	<3.7 [U]
PCB 206	40186-72-9	XE781/BU	5	pg/g		360	451	25.6 M	98.2	<7.7 [U]
PCB 209	2051-24-3	XE781/BU	10	pg/g		40.4	<44 F	8.22	26.8	<3.8 F
Monochlorinated biphenyls, total	n/a	XE781/BU	200	pg/g		11.2 [J]	20.0 [J]	<1.2 [U]	5.12 [J]	<0.85 [U]
Dichlorinated biphenyls, total	n/a	XE781/BU	200	pg/g		593 [J]	585 [J]	100 [J]	187 [J]	81.6 [J]
Trichlorinated biphenyls, total	n/a	XE781/BU	200	pg/g		2260 [J]	2390 [J]	112 [J]	554 [J]	47.4 [J]
Tetrachlorinated biphenyls, total	n/a	XE781/BU	400	pg/g		10100 [J]	9730 [J]	403 [J]	2730 [J]	61.9 [J]
Pentachlorinated biphenyls, total	n/a	XE781/BU	400	pg/g		37200 [J]	36900 [J]	1670 [J]	9510 [J]	97.3 [J]
Hexachlorinated biphenyls, total	n/a	XE781/BU	400	pg/g		51700 [J]	52300 [J]	2130 [J]	12800 [J]	71.2 [J]
Heptachlorinated biphenyls, total	n/a	XE781/BU	200	pg/g		28100 [J]	28300 [J]	1110 [J]	6810 [J]	17.6 [J]
Octachlorinated biphenyls, total	n/a	XE781/BU	100	pg/g		6420 [J]	7050 [J]	151 [J]	1450 [J]	7.59 [J]
Nonachlorinated biphenyls, total	n/a	XE781/BU	100	pg/g		419 [J]	570 [J]	25.6 [J]	114 [J]	<3.0 [U]
Decachlorobiphenyl	2051-24-3	XE781/BU	5	pg/g		40.5 [J]	<1.4 [U]	8.20 [J]	26.8 [J]	<3.2 [U]
Polychlorinated biphenyls [PCBs], total	n/a	XE781/BU	800	pg/g		137000 [J]	138000 [J]	5710 [J]	34200 [J]	384 [J]
Extraction Standards (Surrogates)										
PCB 001, 13C12	234432-85-0	XE781/BU	0.1	%		30.7	47.1	42.2	41.8	42.9
PCB 003, 13C12	208263-77-8	XE781/BU	0.1	%		30.7	47.8	42.4	42.0	45.5
PCB 004, 13C12	234432-86-1	XE781/BU	0.1	%		32.7	51.3	42.6	43.6	46.6
PCB 015, 13C12	208263-67-6	XE781/BU	0.1	%		37.5	59.6	54.0	49.5	52.6
PCB 019, 13C12	234432-87-2	XE781/BU	0.1	%		43.8 M	66.4	60.8	60.7 M	60.6

Analytical Results

Sub-Matrix: Vegetation
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250617007 ----	15867250617008 ----	15867250617009 ----	15867250618010 ----	15867250618011 ----
					Client sampling date / time	17-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00	18-Jun-2025 00:00	18-Jun-2025 00:00
						BU2501974-011	BU2501974-013	BU2501974-015	BU2501974-017	BU2501974-019
						Result	Result	Result	Result	Result
Extraction Standards (Surrogates)										
PCB 037, 13C12	208263-79-0	XE781/BU	0.1	%		41.0	61.6	61.1	54.9	65.1
PCB 054, 13C12	234432-88-3	XE781/BU	0.1	%		40.5	66.3	62.6	55.0	58.2
PCB 081, 13C12	208461-24-9	XE781/BU	0.1	%		30.6	33.8	58.6	30.2	57.6
PCB 077, 13C12	105600-23-5	XE781/BU	0.1	%		29.3	33.4	58.7	29.5	55.2
PCB 104, 13C12	234432-89-4	XE781/BU	0.1	%		48.1	71.3	68.5	64.4	67.6
PCB 123, 13C12	208263-64-3	XE781/BU	0.1	%		39.2	57.6	57.8	53.4	53.1
PCB 118, 13C12	104130-40-7	XE781/BU	0.1	%		41.8	65.0	64.0	56.5	57.0
PCB 114, 13C12	208263-63-2	XE781/BU	0.1	%		40.0	59.3	57.2	53.2	54.6
PCB 105, 13C12	208263-62-1	XE781/BU	0.1	%		38.3	58.5	55.8	51.0	50.4
PCB 126, 13C12	208263-65-4	XE781/BU	0.1	%		27.3	28.3	49.0	27.6	44.0
PCB 155, 13C12	234432-90-7	XE781/BU	0.1	%		47.2	70.3	70.1	64.1	68.0
PCB 167, 13C12	235416-30-5	XE781/BU	0.1	%		45.5	68.3	67.9	62.0	60.6
PCB 156+157, 13C12	N/A	XE781/BU	0.1	%		45.2	66.0	66.4	58.6	58.0
PCB 169, 13C12	208263-70-1	XE781/BU	0.1	%		32.6	33.0	59.0	32.5	54.5
PCB 188, 13C12	234432-91-8	XE781/BU	0.1	%		58.2	86.6	84.4	75.9	83.9
PCB 189, 13C12	208263-73-4	XE781/BU	0.1	%		34.2	53.9	52.4	48.0	45.4
PCB 202, 13C12	105600-26-8	XE781/BU	0.1	%		57.1	80.9	83.2	74.4	74.1
PCB 205, 13C12	234446-64-1	XE781/BU	0.1	%		47.6	70.9	70.3	68.0	63.2
PCB 208, 13C12	234432-92-9	XE781/BU	0.1	%		63.9	97.9	97.2	87.9	90.5
PCB 206, 13C12	208263-75-6	XE781/BU	0.1	%		51.7	72.5	75.0	65.5	62.7
PCB 209, 13C12	105600-27-9	XE781/BU	0.1	%		45.7	71.1	68.3	63.2	62.9

Analytical Results

Sub-Matrix: Vegetation (Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250617007 ----	15867250617008 ----	15867250617009 ----	15867250618010 ----	15867250618011 ----
					Client sampling date / time	17-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00	18-Jun-2025 00:00	18-Jun-2025 00:00
						BU2501974-011	BU2501974-013	BU2501974-015	BU2501974-017	BU2501974-019
						Result	Result	Result	Result	Result
Cleanup Standards (Surrogate)										
TCDD-37Cl4, 2,3,7,8-	----	XE766/BU	0.1	%		52.2	61.3	45.6	57.4	61.0
PCB 028, 13C12	208263-76-7	XE781/BU	0.1	%		48.3	72.8	72.8	69.5	67.8
PCB 111, 13C12	235416-29-2	XE781/BU	0.1	%		48.2	69.7	68.2	65.8	63.1
PCB 178, 13C12	232919-67-4	XE781/BU	0.1	%		55.4	79.6	82.9	81.6	73.7
Toxic Equivalency										
PCDD/F TEQ - WHO 2005 (ND=0*EDL)	n/a	XE766/BU	0.0	pg/g		6.11	3.64	0.282	1.85	0.00418
PCDD/F TEQ - WHO 2005 (ND=0.5*EDL)	n/a	XE766/BU	0.0	pg/g		6.16	3.98	0.680	2.08	0.288
PCDD/F TEQ - WHO 2005 (ND=1*EDL)	n/a	XE766/BU	0.0	pg/g		6.22	4.32	1.08	2.32	0.571
PCB TEQ - WHO 2005 (ND=0.5*EDL)	n/a	XE781/BU	0.0	pg/g		17.4	18.4	0.233	4.83	0.162
PCB TEQ - WHO 2005 (ND=0*EDL)	n/a	XE781/BU	0.0	pg/g		17.4	18.4	0.0202	4.83	0.000671
PCB TEQ - WHO 2005 (ND=1*EDL)	n/a	XE781/BU	0.0	pg/g		17.4	18.4	0.448	4.83	0.324

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

Analytical Results

Sub-Matrix: Plant (Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250616101 ----	15867250616102 ----	15867250616104 ----	15867250617105 ----	15867250617106 ----
					Client sampling date / time	16-Jun-2025 00:00	16-Jun-2025 00:00	16-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00
						BU2501974-002	BU2501974-004	BU2501974-006	BU2501974-008	BU2501974-010
						Result	Result	Result	Result	Result
Sample Preparation										
Weight, extraction (wet)	----	EP800/BU	0.0001	g		1.3983	1.2401	1.1153	1.1380	1.1915
Physical Tests										
Moisture	----	E144/BU	0.50	%		48.8	48.4	49.4	44.3	48.7

Analytical Results

Sub-Matrix: Plant
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250616101 ----	15867250616102 ----	15867250616104 ----	15867250617105 ----	15867250617106 ----
					Client sampling date / time	16-Jun-2025 00:00	16-Jun-2025 00:00	16-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00
						BU2501974-002	BU2501974-004	BU2501974-006	BU2501974-008	BU2501974-010
						Result	Result	Result	Result	Result
Dioxins and Furans										
TCDD, 2,3,7,8-	1746-01-6	XE766/BU	1	pg/g	<1.5 [U]	<2.0 [U]	<1.9 [U]	<2.7 [U]	<2.2 [U]	
PeCDD, 1,2,3,7,8-	40321-76-4	XE766/BU	1	pg/g	<1.5 [U]	<1.7 [U]	<2.6 [U]	<2.0 [U]	<2.1 [U]	
HxCDD, 1,2,3,4,7,8-	39227-28-6	XE766/BU	1	pg/g	<1.9 [U]	<2.0 [U]	<2.6 [U]	<2.7 [U]	<2.9 [U]	
HxCDD, 1,2,3,6,7,8-	57653-85-7	XE766/BU	1	pg/g	<1.8 [U]	<1.9 [U]	<2.6 [U]	<2.7 [U]	<2.8 [U]	
HxCDD, 1,2,3,7,8,9-	19408-74-3	XE766/BU	1	pg/g	<1.8 [U]	<1.9 [U]	<2.5 [U]	<2.6 [U]	<2.8 [U]	
HpCDD, 1,2,3,4,6,7,8-	35822-46-9	XE766/BU	1	pg/g	<3.2 [J], M, F	<3.8 [U], M	<6.3 [U]	<5.5 [J], M, F	<5.6 [U]	
OCDD	3268-87-9	XE766/BU	2	pg/g	<11 [J], M, F	<10 [J], M, F	<9.2 [U]	<19 M, F	<15 [J], M, F	
Tetrachlorodibenzo-p-dioxins [TCDD], total	41903-57-5	XE766/BU	1	pg/g	<1.5 [U]	<2.0 [U]	<1.9 [U]	<2.7 [U]	<2.2 [U]	
TCDD, total, # homologues detected	----	XE766/BU	0	-	0	0	0	0	0	
Pentachlorodibenzo-p-dioxins [PeCDD], total	----	XE766/BU	1	pg/g	<1.5 [U]	<1.7 [U]	<2.6 [U]	<2.0 [U]	<2.1 [U]	
PeCDD, total, # homologues detected	----	XE766/BU	0	-	0	0	0	0	0	
Hexachlorodibenzo-p-dioxins [HxCDD], total	34465-46-8	XE766/BU	1	pg/g	<1.9 [U]	<2.0 [U]	<2.6 [U]	<2.7 [U]	<2.9 [U]	
HxCDD, total, # homologues detected	----	XE766/BU	0	-	0	0	0	0	0	
Heptachlorodibenzo-p-dioxins [HpCDD], total	37871-00-4	XE766/BU	1	pg/g	<3.2 [U]	<3.8 [U]	<6.3 [U]	<5.5 [U]	<5.6 [U]	
HpCDD, total, # homologues detected	----	XE766/BU	0	-	0	0	0	0	0	
TCDF, 2,3,7,8-	51207-31-9	XE766/BU	1	pg/g	<1.6 [U]	<1.7 [U]	<2.4 [U]	<2.1 [U]	<2.3 [U]	
PeCDF, 1,2,3,7,8-	57117-41-6	XE766/BU	1	pg/g	<1 [U]	<1 [U]	<1 [U]	<2 [U]	<2 [U]	
PeCDF, 2,3,4,7,8-	57117-31-4	XE766/BU	1	pg/g	<1.2 [U]	<1.0 [U]	<1.0 [U], M	<1.5 [U]	<1.6 [U]	
HxCDF, 1,2,3,4,7,8-	70648-26-9	XE766/BU	1	pg/g	<0.97 [U]	<0.92 [U]	<1.8 [U]	<1.2 [U]	<2.3 [U]	
HxCDF, 1,2,3,6,7,8-	57117-44-9	XE766/BU	1	pg/g	<0.94 [U]	<0.85 [U]	<1.8 [U]	<1.3 [U]	<2.3 [U]	
HxCDF, 1,2,3,7,8,9-	72918-21-9	XE766/BU	1	pg/g	<1.5 [U]	<1.3 [U]	<2.7 [U]	<2.0 [U]	<3.3 [U]	

Analytical Results

Sub-Matrix: Plant
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250616101 ----	15867250616102 ----	15867250616104 ----	15867250617105 ----	15867250617106 ----
					Client sampling date / time	16-Jun-2025 00:00	16-Jun-2025 00:00	16-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00
						BU2501974-002	BU2501974-004	BU2501974-006	BU2501974-008	BU2501974-010
						Result	Result	Result	Result	Result
Dioxins and Furans										
HxCDF, 2,3,4,6,7,8-	60851-34-5	XE766/BU	1	pg/g	<1.1 [U]	<1.0 [U]	<1.9 [U]	<1.4 [U]	<2.6 [U]	
HpCDF, 1,2,3,4,6,7,8-	67562-39-4	XE766/BU	2	pg/g	<0.88 [U], M	<1.4 [U]	<3.0 [U]	3.03 [J], M	<2.5 [U]	
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	XE766/BU	1	pg/g	<1.5 [U], M	<2.3 [U]	<4.8 [U]	<3.1 [U]	<4.1 [U]	
OCDF	39001-02-0	XE766/BU	2	pg/g	<3.0 [U]	<4.8 [U]	<7.6 [U]	<5.2 [U], M	<7.9 [U]	
Tetrachlorodibenzofurans [TCDF], total	----	XE766/BU	1	pg/g	<1.6 [U]	<1.7 [U]	<2.4 [U]	2.96 [J]	<2.3 [U]	
TCDF, total, # homologues detected	----	XE766/BU	0	-	0	0	0	1	0	
Pentachlorodibenzofurans [PeCDF], total	----	XE766/BU	1	pg/g	<1.3 [U]	<1.1 [U]	<1.2 [U]	<1.5 [U]	<1.7 [U]	
PeCDF, total, # homologues detected	----	XE766/BU	0	-	0	0	0	0	0	
Hexachlorodibenzofurans [HxCDF], total	55684-94-1	XE766/BU	1	pg/g	<1.5 [U]	<1.3 [U]	<2.7 [U]	<2.0 [U]	<3.3 [U]	
HxCDF, total, # homologues detected	----	XE766/BU	0	-	0	0	0	0	0	
Heptachlorodibenzofurans [HpCDF], total	38998-75-3	XE766/BU	2	pg/g	<1.5 [U]	<2.3 [U]	<4.8 [U]	<3.1 [U]	<4.1 [U]	
HpCDF, total, # homologues detected	----	XE766/BU	0	-	0	0	0	0	0	
Dioxins and Furans Surrogates										
TCDD-13C12, 2,3,7,8-	76523-40-5	XE766/BU	0.1	%	59.2	53.8	48.3	44.8	43.8	
PeCDD-13C12, 1,2,3,7,8-	109719-79-1	XE766/BU	0.1	%	48.2	49.5	42.8	38.6	35.9	
HxCDD-13C12, 1,2,3,4,7,8-	109719-80-4	XE766/BU	0.1	%	66.3	64.3	58.5	55.9	52.7	
HxCDD-13C12, 1,2,3,6,7,8-	109719-81-5	XE766/BU	0.1	%	68.8	65.6	56.1	55.4	52.9	
HpCDD-13C12, 1,2,3,4,6,7,8-	109719-83-7	XE766/BU	0.1	%	52.1	47.4	41.0	42.2	37.7	
OCDD-13C12	114423-97-1	XE766/BU	0.1	%	40.6	36.6	31.9	36.3	28.9	
TCDF-13C12, 2,3,7,8-	89059-46-1	XE766/BU	0.1	%	59.0	54.2	46.9	44.9	44.6	
PeCDF-13C12, 1,2,3,7,8-	109719-77-9	XE766/BU	0.1	%	54.8	54.2	46.6	41.8	38.4	

Analytical Results

Sub-Matrix: Plant
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250616101 ----	15867250616102 ----	15867250616104 ----	15867250617105 ----	15867250617106 ----
					Client sampling date / time	16-Jun-2025 00:00	16-Jun-2025 00:00	16-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00
						BU2501974-002	BU2501974-004	BU2501974-006	BU2501974-008	BU2501974-010
						Result	Result	Result	Result	Result
Dioxins and Furans Surrogates										
PeCDF-13C12, 2,3,4,7,8-	116843-02-8	XE766/BU	0.1	%		51.0	49.6	44.0	39.0	37.4
HxCDF-13C12, 1,2,3,4,7,8-	114423-98-2	XE766/BU	0.1	%		77.0	68.9	62.9	61.4	58.0
HxCDF-13C12, 1,2,3,6,7,8-	116843-03-9	XE766/BU	0.1	%		82.4	77.8	66.3	64.4	61.8
HxCDF-13C12, 2,3,4,6,7,8-	116843-05-1	XE766/BU	0.1	%		69.2	63.9	58.2	56.2	53.5
HxCDF-13C12, 1,2,3,7,8,9-	116843-04-0	XE766/BU	0.1	%		67.8	66.7	60.4	56.3	55.2
HpCDF-13C12, 1,2,3,4,6,7,8-	67562-39-4	XE766/BU	0.1	%		60.7	53.4	47.2	47.8	42.8
HpCDF-13C12, 1,2,3,4,7,8,9-	55673-89-7	XE766/BU	0.1	%		52.6	49.1	41.8	42.1	38.0
Polychlorinated Biphenyls										
PCB 001	2051-60-7	XE781/BU	2	pg/g		<2.4 [U], M	<5.4 [U]	<3.0 [U]	<2.8 [U]	<3.9 [U]
PCB 002	2051-61-8	XE781/BU	2	pg/g		<5.9 F	<5.1 [U]	<2.9 [U]	<8.7 F	<6.6 F
PCB 003	2051-62-9	XE781/BU	5	pg/g		<2.3 [U]	<4.9 [U]	<2.8 [U]	<14 M, F	<12 M, F
PCB 004	13029-08-8	XE781/BU	5	pg/g		<5.8 [U]	<12 [U]	<7.8 [U]	<8.7 [U]	<9.9 [U]
PCB 010	33146-45-1	XE781/BU	5	pg/g		<2.8 [U]	<5.2 [U]	<3.7 [U]	<4.1 [U]	<4.5 [U]
PCB 009	34883-39-1	XE781/BU	2	pg/g		<2.8 [U]	<5.2 [U]	<3.7 [U]	<4.1 [U]	<4.6 [U]
PCB 007	33284-50-3	XE781/BU	2	pg/g		<2.4 [U]	<4.5 [U]	<3.2 [U]	<3.6 [U]	<4.0 [U]
PCB 006	25569-80-6	XE781/BU	2	pg/g		<2.8 [U]	<5.6 F	<3.6 [U]	<8.9 M, F	<13 M, F
PCB 005	16605-91-7	XE781/BU	2	pg/g		<2.5 [U]	<4.6 [U]	<3.3 [U]	<3.7 [U]	<4.3 [U]
PCB 008	34883-43-7	XE781/BU	5	pg/g		18.5 M	<17 F	<18 M, F	<39 F	45.4
PCB 014	34883-41-5	XE781/BU	2	pg/g		<4.4 [U]	<9.4 [U]	<6.8 [U]	<5.4 [U]	<8.0 [U]
PCB 011	2050-67-1	XE781/BU	20	pg/g		205 [B]	283 [B]	423 [B]	358 [B]	277 [B]
PCB 012+013	n/a	XE781/BU	5	pg/g		<3.9 [U]	<8.3 [U]	<6.0 [U]	<4.8 [U]	<7.0 [U]

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Analytical Results

Sub-Matrix: Plant
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250616101 ----	15867250616102 ----	15867250616104 ----	15867250617105 ----	15867250617106 ----
					Client sampling date / time	16-Jun-2025 00:00	16-Jun-2025 00:00	16-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00
						BU2501974-002	BU2501974-004	BU2501974-006	BU2501974-008	BU2501974-010
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 015	2050-68-2	XE781/BU	5	pg/g		<6.8 F	<6.8 [U]	<7.4 F	<27 M, F	72.6
PCB 019	38444-73-4	XE781/BU	2	pg/g		<3.3 [U]	<5.8 [U]	<3.7 [U]	5.54 M	<5.5 [U]
PCB 018+030	----	XE781/BU	5	pg/g		18.3	<4.4 [U]	<9.7 F	40.6	48.2
PCB 017	37680-66-3	XE781/BU	2	pg/g		<6.3 M, F	<5.1 [U]	<5.8 F	<21 F	<20 M, F
PCB 027	38444-76-7	XE781/BU	2	pg/g		<2.1 [U]	<3.9 [U]	<2.6 [U]	<4.0 F	<3.3 [U]
PCB 024	55702-45-9	XE781/BU	2	pg/g		<5.0 F	<3.6 [U]	<2.4 [U]	<3.6 [U]	<3.1 [U]
PCB 016	38444-78-9	XE781/BU	2	pg/g		<3.3 [U]	<6.2 [U]	<4.9 M, F	24.6	24.2
PCB 032	38444-77-8	XE781/BU	2	pg/g		<5.1 F	<3.7 [U], M	<3.7 F	15.6	<17 F
PCB 034	37680-68-5	XE781/BU	2	pg/g		<2.6 [U]	<4.8 [U]	<3.2 [U]	<3.3 [U]	<4.0 [U]
PCB 023	55720-44-0	XE781/BU	2	pg/g		<2.4 [U]	<4.3 [U]	<2.8 [U]	<3.0 [U]	<3.5 [U]
PCB 026+029	----	XE781/BU	5	pg/g		<4.5 F	<4.4 [U]	<2.9 [U]	<12 F	20.6
PCB 025	55712-37-3	XE781/BU	2	pg/g		<2.5 [U]	<4.6 [U]	<3.0 [U]	7.58	13.5
PCB 031	16606-02-3	XE781/BU	5	pg/g		17.9 [B]	13.2 [B]	20.2 [B]	72.6 [B]	103 [B]
PCB 020+028	----	XE781/BU	5	pg/g		<24 F	17.8 [B]	21.4 [B]	92.5 [B]	266
PCB 021+033	----	XE781/BU	5	pg/g		<13 F	<8.6 F	10.9	39.4	53.0
PCB 022	38444-85-8	XE781/BU	2	pg/g		<7.1 F	<7.3 M, F	<6.3 F	26.4 M	50.1
PCB 036	38444-87-0	XE781/BU	2	pg/g		<2.3 [U]	<4.2 [U]	<2.8 [U]	<3.0 [U]	<3.4 [U]
PCB 039	38444-88-1	XE781/BU	2	pg/g		<2.1 [U]	<3.8 [U]	<2.5 [U]	<2.7 [U]	<3.1 [U]
PCB 038	53555-66-1	XE781/BU	2	pg/g		19.2	<15 F	<13 F	28.8	<15 F
PCB 035	37680-69-6	XE781/BU	2	pg/g		4.89	<4.6 [U]	<3.0 [U]	<14 F	<20 F
PCB 037	38444-90-5	XE781/BU	2	pg/g		9.73 M	<5.6 M, F	<3.9 F	<55 F	224

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Analytical Results

Sub-Matrix: Plant
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250616101 ----	15867250616102 ----	15867250616104 ----	15867250617105 ----	15867250617106 ----
					Client sampling date / time	16-Jun-2025 00:00	16-Jun-2025 00:00	16-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00
						BU2501974-002	BU2501974-004	BU2501974-006	BU2501974-008	BU2501974-010
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 054	15968-05-5	XE781/BU	5	pg/g		<2.3 [U]	<4.0 [U]	<2.7 [U]	<2.9 [U]	<3.1 [U]
PCB 050+053	----	XE781/BU	10	pg/g		<3.1 [U]	<4.7 [U]	<4.4 [U]	<11 F	<14 F
PCB 045+051	----	XE781/BU	10	pg/g		<3.2 [U]	<5.8 F	14.4	<12 F	<17 F
PCB 046	41464-47-5	XE781/BU	5	pg/g		<3.6 [U]	<5.4 [U]	<5.1 [U]	<5.8 [U]	<5.3 [U]
PCB 052	35693-99-3	XE781/BU	5	pg/g		24.3 [B]	<16 F	<20 F	155	339
PCB 073	74338-23-1	XE781/BU	5	pg/g		<2.2 [U]	<3.3 [U]	<3.1 [U]	<3.6 [U]	<3.1 [U]
PCB 043	70362-46-8	XE781/BU	5	pg/g		<3.7 [U]	<5.6 [U]	<5.2 [U]	<6.0 [U]	<5.3 [U]
PCB 049+069	----	XE781/BU	5	pg/g		<10 F	<6.0 F	<9.1 M, F	59.4	97.6
PCB 048	70362-47-9	XE781/BU	5	pg/g		<3.1 M, F	<4.3 [U]	<4.1 [U]	12.2	<18 F
PCB 044+047+065	----	XE781/BU	5	pg/g		43.8 [B]	<29 F	<43 F	121 [B]	252 [B]
PCB 059+062+075	----	XE781/BU	5	pg/g		<2.3 [U]	<3.4 [U]	<3.2 [U]	<9.3 F	10.4
PCB 042	36559-22-5	XE781/BU	5	pg/g		<3.7 [U]	<5.5 [U]	<5.2 [U]	23.2	40.0
PCB 040+041+071	----	XE781/BU	5	pg/g		<6.0 M, F	<4.6 [U]	<5.3 F	<36 F	71.7
PCB 064	52663-58-8	XE781/BU	5	pg/g		7.23 M, [B]	4.64 [B]	6.24 M, [B]	44.4	89.7
PCB 072	41464-42-0	XE781/BU	5	pg/g		<3.7 [U]	<4.7 [U]	<5.6 [U]	<6.1 [U]	<8.7 [U]
PCB 068	73575-52-7	XE781/BU	5	pg/g		<3.1 [U]	<4.0 [U]	<4.7 [U], M	<5.9 F	<7.4 [U]
PCB 057	70424-67-8	XE781/BU	5	pg/g		<3.7 [U]	<4.7 [U]	<5.6 [U]	<6.1 [U]	<8.8 [U]
PCB 058	41464-49-7	XE781/BU	5	pg/g		<3.3 [U]	<4.2 [U]	<4.9 [U]	8.85	<7.7 [U]
PCB 067	73575-53-8	XE781/BU	5	pg/g		<3.2 [U]	<4.1 [U]	<4.8 [U]	<7.3 F	<16 F
PCB 063	74472-34-7	XE781/BU	5	pg/g		<3.6 [U]	<4.6 [U]	<5.4 [U]	<6.0 [U]	<22 F
PCB 061+070+074+076	----	XE781/BU	5	pg/g		34.5 [B]	17.7 M, [B]	20.8 M, [B]	406	1180

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Analytical Results

Sub-Matrix: Plant
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250616101 ----	15867250616102 ----	15867250616104 ----	15867250617105 ----	15867250617106 ----
					Client sampling date / time	16-Jun-2025 00:00	16-Jun-2025 00:00	16-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00
						BU2501974-002	BU2501974-004	BU2501974-006	BU2501974-008	BU2501974-010
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 066	32598-10-0	XE781/BU	5	pg/g		21.6	10.5	<10 F	209	796
PCB 055	74338-24-2	XE781/BU	5	pg/g		<3.4 [U]	<4.3 [U]	<5.1 [U]	<5.6 [U]	<8.1 [U]
PCB 056	41464-43-1	XE781/BU	5	pg/g		4.90	<4.2 [U]	<4.9 [U]	64.2	166
PCB 060	33025-41-1	XE781/BU	5	pg/g		<4.3 M, F	<4.3 [U]	<5.0 [U]	44.6	183
PCB 080	33284-52-5	XE781/BU	5	pg/g		<3.0 [U]	<3.8 [U]	<4.5 [U]	<4.9 [U]	<7.0 [U]
PCB 079	41464-48-6	XE781/BU	5	pg/g		<3.3 [U]	<4.2 [U]	<5.0 [U]	7.98	25.7
PCB 078	70362-49-1	XE781/BU	5	pg/g		<4.0 [U]	<5.1 [U]	<6.0 [U]	<6.6 [U]	<9.2 [U]
PCB 081	70362-50-4	XE781/BU	5	pg/g		<3.9 [U]	<4.5 [U]	<5.9 [U]	<6.6 [U]	26.6 M
PCB 077	32598-13-3	XE781/BU	5	pg/g		7.49 M	<4.7 [U]	<6.2 [U]	144	618
PCB 104	56558-16-8	XE781/BU	5	pg/g		<2.6 [U]	<4.2 [U]	<3.0 [U]	<3.4 [U]	<5.1 [U]
PCB 096	73575-54-9	XE781/BU	5	pg/g		<3.5 [U]	<4.2 [U]	<3.7 [U]	<4.2 [U]	<5.9 [U]
PCB 103	60145-21-3	XE781/BU	5	pg/g		<4.5 [U]	<4.3 [U]	<4.9 [U]	<6.1 [U]	<9.1 [U]
PCB 094	73575-55-0	XE781/BU	5	pg/g		<4.3 [U]	<4.1 [U]	<4.6 [U]	<5.8 [U]	<8.6 [U]
PCB 095	38379-99-6	XE781/BU	5	pg/g		36.1	17.8	<18 M, F	365	1140
PCB 093+098+100+102	----	XE781/BU	20	pg/g		<4.2 [U]	<4.0 [U]	<4.5 [U]	<5.6 [U]	17.8
PCB 088+091	----	XE781/BU	5	pg/g		<4.5 [U]	<4.3 [U]	<4.8 [U]	53.7	106
PCB 084	52663-60-2	XE781/BU	5	pg/g		<4.6 [U]	<4.4 [U]	<5.0 [U]	90.4	201
PCB 089	73575-57-2	XE781/BU	5	pg/g		<5.5 [U]	<5.3 [U]	<6.0 [U]	<7.4 [U]	<11 [U]
PCB 121	56558-18-0	XE781/BU	5	pg/g		<2.9 [U]	<2.7 [U]	<3.1 [U]	<3.9 [U]	<5.6 [U]
PCB 092	52663-61-3	XE781/BU	5	pg/g		<7.6 F	<4.8 [U]	<5.5 [U]	109	434
PCB 090+101+113	----	XE781/BU	20	pg/g		<40 F	<16 F	<16 F	557	1660

Analytical Results

Sub-Matrix: Plant
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250616101 ----	15867250616102 ----	15867250616104 ----	15867250617105 ----	15867250617106 ----
					Client sampling date / time	16-Jun-2025 00:00	16-Jun-2025 00:00	16-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00
						BU2501974-002	BU2501974-004	BU2501974-006	BU2501974-008	BU2501974-010
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 083+099	----	XE781/BU	20	pg/g		<31 F	15.2 [B]	<12 F	365	1470
PCB 112	74472-36-9	XE781/BU	5	pg/g		<3.0 [U]	<2.9 [U]	<3.2 [U]	<4.0 [U]	<5.9 [U]
PCB 086+087+097+109+119+125	----	XE781/BU	5	pg/g		28.0 M	15.5 M	<12 M, F	378 M	965 M
PCB 085+110+115+116+117	----	XE781/BU	5	pg/g		54.8 M, [B]	29.6 M, [B]	23.0 M, [B]	806 M	2360 M
PCB 082	52663-62-4	XE781/BU	5	pg/g		<6.6 F	<5.1 [U]	<5.8 [U]	<73 F	200
PCB 111	39635-32-0	XE781/BU	5	pg/g		<2.9 [U]	<2.8 [U]	<3.1 [U]	<3.9 [U]	<5.5 [U]
PCB 120	68194-12-7	XE781/BU	5	pg/g		<3.2 [U]	<3.1 [U]	<3.5 [U]	5.56	<23 F
PCB 108+124	----	XE781/BU	10	pg/g		<2.4 [U]	<1.9 [U]	<2.4 [U]	31.7	120
PCB 107	70424-68-9	XE781/BU	5	pg/g		<2.0 [U]	<1.6 [U]	<1.9 [U]	<46 F	192
PCB 123	65510-44-3	XE781/BU	5	pg/g		<2.8 [U]	<2.1 [U]	<2.7 [U]	<17 F	85.7
PCB 106	70424-69-0	XE781/BU	5	pg/g		<2.8 [U]	<2.2 [U]	<2.7 [U]	<3.1 [U]	<5.7 [U]
PCB 118	31508-00-6	XE781/BU	10	pg/g		47.0	<15 F	<8.9 F	788	3390
PCB 122	76842-07-4	XE781/BU	5	pg/g		<3.4 [U]	<2.7 [U]	<3.3 [U]	19.6	57.5
PCB 114	74472-37-0	XE781/BU	5	pg/g		<2.7 [U]	<2.0 [U]	<2.6 [U]	26.0	97.8
PCB 105	32598-14-4	XE781/BU	5	pg/g		25.7	<7.9 F	<3.9 F	429	1870
PCB 127	39635-33-1	XE781/BU	5	pg/g		<2.6 [U]	<2.0 [U]	<2.5 [U]	<2.9 [U]	<5.3 [U]
PCB 126	57465-28-8	XE781/BU	5	pg/g		<3.3 [U]	<2.1 [U]	<3.0 [U]	<15 F	77.5
PCB 155	33979-03-2	XE781/BU	5	pg/g		<1.1 [U]	<1.2 [U]	<1.3 [U]	<1.6 [U]	<3.1 [U]
PCB 152	68194-09-2	XE781/BU	5	pg/g		<2.4 [U]	<2.0 [U]	<2.9 [U]	<3.7 [U]	<5.8 [U]
PCB 150	68194-08-1	XE781/BU	5	pg/g		<1.9 [U]	<1.6 [U]	<2.2 [U]	<2.9 [U]	<4.8 [U]
PCB 136	38411-22-2	XE781/BU	5	pg/g		<4.9 F	<2.9 M, F	<2.7 [U], M	81.8	312

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Analytical Results

Sub-Matrix: Plant
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250616101 ----	15867250616102 ----	15867250616104 ----	15867250617105 ----	15867250617106 ----
					Client sampling date / time	16-Jun-2025 00:00	16-Jun-2025 00:00	16-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00
						BU2501974-002	BU2501974-004	BU2501974-006	BU2501974-008	BU2501974-010
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 145	74472-40-5	XE781/BU	5	pg/g		<2.0 [U]	<1.6 [U]	<2.3 [U]	<3.0 [U]	<5.0 [U]
PCB 148	74472-41-6	XE781/BU	5	pg/g		<3.0 [U]	<2.5 [U]	<3.6 [U]	<4.6 [U]	<7.5 [U]
PCB 135+151	----	XE781/BU	10	pg/g		16.4 M	7.35 M	<4.3 M, F	261	1180
PCB 154	60145-22-4	XE781/BU	10	pg/g		<2.4 [U]	<2.0 [U]	<2.8 [U]	<9.6 F	<39 F
PCB 144	68194-14-9	XE781/BU	5	pg/g		<3.0 [U]	<2.5 [U]	<3.6 [U]	46.9	171
PCB 147+149	----	XE781/BU	10	pg/g		<34 F	13.0	<12 F	669	2440 M
PCB 134+143	----	XE781/BU	10	pg/g		<4.0 [U]	<3.1 [U]	<3.1 [U]	40.3	118
PCB 139+140	----	XE781/BU	10	pg/g		<3.0 [U]	<2.4 [U]	<2.3 [U]	17.1	64.2
PCB 131	61798-70-7	XE781/BU	5	pg/g		<4.3 [U]	<3.3 [U]	<3.3 [U]	<14 F	45.1
PCB 142	41411-61-4	XE781/BU	5	pg/g		<4.0 [U]	<3.1 [U]	<3.1 [U]	<5.4 [U]	<6.1 [U]
PCB 132	38380-05-1	XE781/BU	5	pg/g		16.1	8.21	6.88 M	288	913
PCB 133	35694-04-3	XE781/BU	5	pg/g		<3.8 [U]	<3.0 [U]	<3.0 [U]	<19 F	84.3
PCB 165	74472-46-1	XE781/BU	5	pg/g		<2.5 [U]	<1.9 [U]	<1.9 [U]	<3.4 [U]	9.71
PCB 146	51908-16-8	XE781/BU	5	pg/g		<10 F	<2.3 [U]	<2.3 [U]	<160 F	778
PCB 161	74472-43-8	XE781/BU	5	pg/g		<2.7 [U]	<2.1 [U]	<2.1 [U]	<3.6 [U]	<4.0 [U]
PCB 153+168	----	XE781/BU	10	pg/g		<54 F	27.4 [B]	10.4 [B]	1080	4760
PCB 141	52712-04-6	XE781/BU	5	pg/g		<12 F	5.34 [B]	<2.6 [U]	244	870
PCB 130	52663-66-8	XE781/BU	5	pg/g		<4.0 [U]	<3.1 [U]	<3.1 [U]	<63 F	248
PCB 137+164	----	XE781/BU	5	pg/g		<6.5 M, F	2.74	<2.2 [U]	130 M	451 M
PCB 129+138+163	----	XE781/BU	10	pg/g		<63 F	36.8 [B]	14.8 [B]	1460	5930
PCB 160	41411-62-5	XE781/BU	10	pg/g		<2.3 [U]	<1.8 [U]	<1.8 [U]	<3.1 [U]	<3.4 [U]

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Analytical Results

Sub-Matrix: Plant
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250616101 ----	15867250616102 ----	15867250616104 ----	15867250617105 ----	15867250617106 ----
					Client sampling date / time	16-Jun-2025 00:00	16-Jun-2025 00:00	16-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00
						BU2501974-002	BU2501974-004	BU2501974-006	BU2501974-008	BU2501974-010
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 158	74472-42-7	XE781/BU	5	pg/g		7.49	<1.8 [U]	<1.8 [U]	126	493
PCB 128+166	----	XE781/BU	10	pg/g		<9.6 F	<4.2 F	<2.9 F	190	706
PCB 159	39635-35-3	XE781/BU	5	pg/g		<2.5 [U]	<2.0 [U]	<1.9 [U]	<8.6 F	<43 F
PCB 162	39635-34-2	XE781/BU	5	pg/g		<2.4 [U]	<1.9 [U]	<1.9 [U]	6.43	<19 F
PCB 167	52663-72-6	XE781/BU	5	pg/g		<3.4 [U]	<2.5 [U]	<2.6 [U]	52.8	234
PCB 156+157	----	XE781/BU	10	pg/g		4.24	<3.1 [U]	<3.4 [U]	114	500
PCB 169	32774-16-6	XE781/BU	5	pg/g		<4.0 [U]	<2.7 [U]	<3.2 [U]	<5.6 [U]	<6.0 [U]
PCB 188	74487-85-7	XE781/BU	5	pg/g		<1.9 [U]	<1.9 [U]	<1.9 [U]	<1.8 [U]	4.94
PCB 179	52663-64-6	XE781/BU	5	pg/g		<6.4 F	<2.2 [U]	<2.5 [U]	107	418
PCB 184	74472-48-3	XE781/BU	5	pg/g		<2.2 [U]	<2.0 [U]	<2.2 [U]	<2.1 [U]	3.58
PCB 176	52663-65-7	XE781/BU	5	pg/g		<2.6 [U], M	<2.3 [U]	<2.6 [U]	36.4	126
PCB 186	74472-49-4	XE781/BU	5	pg/g		<2.4 [U]	<2.1 [U]	<2.4 [U]	<2.3 [U]	<2.9 [U]
PCB 178	52663-67-9	XE781/BU	5	pg/g		<3.7 [U], M	<3.3 [U]	<3.7 [U]	<51 F	250
PCB 175	40186-70-7	XE781/BU	5	pg/g		<3.4 [U]	<3.0 [U]	<3.4 [U]	<12 F	60.9
PCB 187	52663-68-0	XE781/BU	5	pg/g		<14 F	6.62 M, [B]	<4.2 M, F	294	1220
PCB 182	60145-23-5	XE781/BU	5	pg/g		<3.1 [U]	<2.8 [U]	<3.2 [U]	5.63	<6.6 F
PCB 183	52663-69-1	XE781/BU	10	pg/g		<6.7 F	<4.4 F	<3.4 [U]	167	748
PCB 185	52712-05-7	XE781/BU	10	pg/g		<2.9 [U], M	<2.6 [U]	<3.0 [U]	24.0 M	<57 M, F
PCB 174	38411-25-5	XE781/BU	5	pg/g		<13 M, F	<3.7 F	<3.5 [U]	272 M	1010 M
PCB 177	52663-70-4	XE781/BU	5	pg/g		<5.2 F	5.97 M	<3.6 [U]	146	636
PCB 181	74472-47-2	XE781/BU	20	pg/g		<3.2 [U]	<2.9 [U]	<3.3 [U]	<3.1 [U]	<4.0 [U]

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Analytical Results

Sub-Matrix: Plant
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250616101 ----	15867250616102 ----	15867250616104 ----	15867250617105 ----	15867250617106 ----
					Client sampling date / time	16-Jun-2025 00:00	16-Jun-2025 00:00	16-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00
						BU2501974-002	BU2501974-004	BU2501974-006	BU2501974-008	BU2501974-010
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 171+173	----	XE781/BU	20	pg/g		<3.7 [U]	<3.3 [U]	<3.7 [U]	91.3	362
PCB 172	52663-74-8	XE781/BU	5	pg/g		<3.7 [U]	<3.3 [U]	<3.7 [U]	45.8	221
PCB 192	74472-51-8	XE781/BU	20	pg/g		<2.8 [U]	<2.5 [U]	<2.8 [U]	<2.7 [U]	<3.3 [U]
PCB 180+193	----	XE781/BU	10	pg/g		25.1	12.0	4.34	520	2520
PCB 191	74472-50-7	XE781/BU	5	pg/g		<2.8 [U]	<2.5 [U]	<2.8 [U]	<7.8 F	40.8
PCB 170	35065-30-6	XE781/BU	5	pg/g		<7.2 M, F	<4.4 M, F	<3.7 [U]	188	916
PCB 190	41411-64-7	XE781/BU	5	pg/g		<2.6 [U]	<2.3 [U]	<2.6 [U]	<30 F	169
PCB 189	39635-31-9	XE781/BU	5	pg/g		<4.6 [U]	<3.3 [U]	<5.9 [U]	<6.4 [U]	44.6 M
PCB 202	2136-99-4	XE781/BU	10	pg/g		<2.5 [U]	<1.8 [U]	<3.0 [U]	<15 F	69.3
PCB 201	40186-71-8	XE781/BU	5	pg/g		<2.8 [U]	<2.0 [U]	<3.4 [U]	12.9	47.1
PCB 204	74472-52-9	XE781/BU	5	pg/g		<2.9 [U]	<2.0 [U]	<3.5 [U]	<3.3 [U]	<3.3 [U]
PCB 197	33091-17-7	XE781/BU	10	pg/g		<2.6 [U]	<1.8 [U]	<3.1 [U]	<5.0 F	<19 F
PCB 200	52663-73-7	XE781/BU	10	pg/g		<3.1 [U]	<2.2 [U]	<3.8 [U]	<8.0 F	<41 F
PCB 198+199	----	XE781/BU	10	pg/g		<4.2 [U]	<3.0 [U]	<5.2 [U]	101	424
PCB 196	42740-50-1	XE781/BU	5	pg/g		<4.4 [U]	<3.1 [U]	<5.3 [U]	45.4	190
PCB 203	52663-76-0	XE781/BU	5	pg/g		<3.7 [U]	<2.6 [U]	<4.5 [U]	37.0	204
PCB 195	52663-78-2	XE781/BU	5	pg/g		<3.9 [U]	<4.0 [U]	<5.4 [U]	<26 M, F	156
PCB 194	35694-08-7	XE781/BU	5	pg/g		<4.5 F	<4.0 [U]	<5.4 [U]	58.1	333
PCB 205	74472-53-0	XE781/BU	5	pg/g		<4.3 [U]	<4.2 [U]	<6.6 [U]	<7.3 [U]	18.3
PCB 208	52663-77-1	XE781/BU	5	pg/g		<7.2 [U]	<8.4 [U]	<13 [U]	<13 [U]	<14 [U]
PCB 207	52663-79-3	XE781/BU	5	pg/g		<9.5 [U]	<10 [U]	<17 [U]	<18 [U]	<18 [U]

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Analytical Results

Sub-Matrix: Plant
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250616101 ----	15867250616102 ----	15867250616104 ----	15867250617105 ----	15867250617106 ----
					Client sampling date / time	16-Jun-2025 00:00	16-Jun-2025 00:00	16-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00
						BU2501974-002	BU2501974-004	BU2501974-006	BU2501974-008	BU2501974-010
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 206	40186-72-9	XE781/BU	5	pg/g		<17 [U]	<17 [U]	<34 [U]	<33 [U]	86.7 M
PCB 209	2051-24-3	XE781/BU	10	pg/g		<6.6 [U]	<4.2 [U]	<10 [U]	<29 F	<52 F
Monochlorinated biphenyls, total	n/a	XE781/BU	200	pg/g		<2.3 [U]	<4.9 [U]	<2.8 [U]	<2.6 [U]	<3.9 [U]
Dichlorinated biphenyls, total	n/a	XE781/BU	200	pg/g		223 [J]	283 [J]	423 [J]	358 [J]	395 [J]
Trichlorinated biphenyls, total	n/a	XE781/BU	200	pg/g		70.0 [J]	31.0 [J]	52.5 [J]	354 [J]	803 [J]
Tetrachlorinated biphenyls, total	n/a	XE781/BU	400	pg/g		144 [J]	32.9 [J]	41.4 [J]	1300 [J]	3890 [J]
Pentachlorinated biphenyls, total	n/a	XE781/BU	400	pg/g		192 [J]	78.0 [J]	23.0 [J]	4020 [J]	14400 [J]
Hexachlorinated biphenyls, total	n/a	XE781/BU	400	pg/g		44.3 [J]	101 [J]	32.1 [J]	4800 [J]	20300 [J]
Heptachlorinated biphenyls, total	n/a	XE781/BU	200	pg/g		25.1 [J]	24.6 [J]	4.34 [J]	1900 [J]	8750 [J]
Octachlorinated biphenyls, total	n/a	XE781/BU	100	pg/g		<2.5 [U]	<1.8 [U]	<3.0 [U]	254 [J]	1440 [J]
Nonachlorinated biphenyls, total	n/a	XE781/BU	100	pg/g		<7.2 [U]	<8.4 [U]	<13 [U]	<13 [U]	86.7 [J]
Decachlorobiphenyl	2051-24-3	XE781/BU	5	pg/g		<6.6 [U]	<4.2 [U]	<10 [U]	<11 [U]	<12 [U]
Polychlorinated biphenyls [PCBs], total	n/a	XE781/BU	800	pg/g		698 [J]	551 [J]	577 [J]	13000 [J]	50100 [J]
Extraction Standards (Surrogates)										
PCB 001, 13C12	234432-85-0	XE781/BU	0.1	%		38.3	18.3	40.1	40.6	38.4
PCB 003, 13C12	208263-77-8	XE781/BU	0.1	%		39.5	20.1	41.6	41.1	38.2
PCB 004, 13C12	234432-86-1	XE781/BU	0.1	%		52.2	27.5	54.4	51.0	45.9
PCB 015, 13C12	208263-67-6	XE781/BU	0.1	%		42.0	25.3	45.9	41.2	40.9
PCB 019, 13C12	234432-87-2	XE781/BU	0.1	%		70.1	40.8	73.4	66.4	58.6
PCB 037, 13C12	208263-79-0	XE781/BU	0.1	%		53.2	39.4	57.2	52.1	51.6
PCB 054, 13C12	234432-88-3	XE781/BU	0.1	%		65.5	39.6	66.8	61.8	52.4

Analytical Results

Sub-Matrix: Plant
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250616101 ----	15867250616102 ----	15867250616104 ----	15867250617105 ----	15867250617106 ----
					Client sampling date / time	16-Jun-2025 00:00	16-Jun-2025 00:00	16-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00
						BU2501974-002	BU2501974-004	BU2501974-006	BU2501974-008	BU2501974-010
						Result	Result	Result	Result	Result
Extraction Standards (Surrogates)										
PCB 081, 13C12	208461-24-9	XE781/BU	0.1	%		53.0	46.1	57.7	51.5	49.4
PCB 077, 13C12	105600-23-5	XE781/BU	0.1	%		51.0	45.1	55.9	50.1	48.0
PCB 104, 13C12	234432-89-4	XE781/BU	0.1	%		61.6	41.3	64.1	56.3	50.0
PCB 123, 13C12	208263-64-3	XE781/BU	0.1	%		45.0	40.9	47.9	42.5	43.8
PCB 118, 13C12	104130-40-7	XE781/BU	0.1	%		46.5	44.6	50.4	46.7	47.0
PCB 114, 13C12	208263-63-2	XE781/BU	0.1	%		44.2	41.2	47.9	42.6	43.8
PCB 105, 13C12	208263-62-1	XE781/BU	0.1	%		42.6	41.8	45.4	42.0	44.4
PCB 126, 13C12	208263-65-4	XE781/BU	0.1	%		38.3	40.3	42.2	37.9	38.9
PCB 155, 13C12	234432-90-7	XE781/BU	0.1	%		67.2	53.7	71.8	62.1	54.9
PCB 167, 13C12	235416-30-5	XE781/BU	0.1	%		51.0	48.5	53.0	47.6	50.3
PCB 156+157, 13C12	N/A	XE781/BU	0.1	%		55.3	52.4	56.9	50.4	51.6
PCB 169, 13C12	208263-70-1	XE781/BU	0.1	%		50.8	52.2	50.3	44.2	46.0
PCB 188, 13C12	234432-91-8	XE781/BU	0.1	%		70.0	56.0	72.1	66.1	61.4
PCB 189, 13C12	208263-73-4	XE781/BU	0.1	%		34.2	35.9	34.5	27.9	34.0
PCB 202, 13C12	105600-26-8	XE781/BU	0.1	%		64.7	60.4	66.3	58.8	55.2
PCB 205, 13C12	234446-64-1	XE781/BU	0.1	%		60.2	56.1	63.6	59.2	56.3
PCB 208, 13C12	234432-92-9	XE781/BU	0.1	%		72.2	63.5	80.4	72.8	69.9
PCB 206, 13C12	208263-75-6	XE781/BU	0.1	%		61.0	60.7	62.8	58.0	52.5
PCB 209, 13C12	105600-27-9	XE781/BU	0.1	%		39.4	48.3	42.1	36.3	36.7
Cleanup Standards (Surrogate)										
TCDD-37Cl4, 2,3,7,8-	----	XE766/BU	0.1	%		64.4	57.2	57.5	54.1	54.5

Analytical Results

Sub-Matrix: Plant (Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250616101 ----	15867250616102 ----	15867250616104 ----	15867250617105 ----	15867250617106 ----
					Client sampling date / time	16-Jun-2025 00:00	16-Jun-2025 00:00	16-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00
						BU2501974-002	BU2501974-004	BU2501974-006	BU2501974-008	BU2501974-010
						Result	Result	Result	Result	Result
Cleanup Standards (Surrogate)										
PCB 028, 13C12	208263-76-7	XE781/BU	0.1	%		64.7	44.3	75.0	72.9	75.0
PCB 111, 13C12	235416-29-2	XE781/BU	0.1	%		67.1	60.9	77.2	69.1	69.4
PCB 178, 13C12	232919-67-4	XE781/BU	0.1	%		78.8	70.4	84.3	80.6	82.3
Toxic Equivalency										
PCDD/F TEQ - WHO 2005 (ND=0*EDL)	n/a	XE766/BU	0.0	pg/g		0.0	0.0	0.0	0.0303	0.0
PCDD/F TEQ - WHO 2005 (ND=0.5*EDL)	n/a	XE766/BU	0.0	pg/g		2.33	2.66	3.42	3.47	3.53
PCDD/F TEQ - WHO 2005 (ND=1*EDL)	n/a	XE766/BU	0.0	pg/g		4.68	5.33	6.85	6.91	7.08
PCB TEQ - WHO 2005 (ND=0.5*EDL)	n/a	XE781/BU	0.0	pg/g		0.229	0.147	0.200	0.889	8.10
PCB TEQ - WHO 2005 (ND=0*EDL)	n/a	XE781/BU	0.0	pg/g		0.00306	0.0	0.0	0.0568	8.01
PCB TEQ - WHO 2005 (ND=1*EDL)	n/a	XE781/BU	0.0	pg/g		0.456	0.294	0.401	1.72	8.19

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

Analytical Results

Sub-Matrix: Plant (Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250617107 ----	15867250617108 ----	15867250617109 ----	15867250618110 ----	15867250618111 ----
					Client sampling date / time	17-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00	18-Jun-2025 00:00	18-Jun-2025 00:00
						BU2501974-012	BU2501974-014	BU2501974-016	BU2501974-018	BU2501974-020
						Result	Result	Result	Result	Result
Sample Preparation										
Weight, extraction (wet)	----	EP800/BU	0.0001	g		1.0621	1.0569	1.2421	1.0672	1.0210
Physical Tests										
Moisture	----	E144/BU	0.50	%		44.9	45.4	49.8	51.5	45.2
Dioxins and Furans										
TCDD, 2,3,7,8-	1746-01-6	XE766/BU	1	pg/g		<2.0 [U]	<1.7 [U]	<1.2 [U]	<1.8 [U]	<2.7 [U]

Analytical Results

Sub-Matrix: Plant
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250617107 ----	15867250617108 ----	15867250617109 ----	15867250618110 ----	15867250618111 ----
					Client sampling date / time	17-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00	18-Jun-2025 00:00	18-Jun-2025 00:00
						BU2501974-012	BU2501974-014	BU2501974-016	BU2501974-018	BU2501974-020
						Result	Result	Result	Result	Result
Dioxins and Furans										
PeCDD, 1,2,3,7,8-	40321-76-4	XE766/BU	1	pg/g	<1.5 [U]	<1.4 [U]	<1.0 [U]	<1.5 [U]	<1.6 [U]	
HxCDD, 1,2,3,4,7,8-	39227-28-6	XE766/BU	1	pg/g	<1.9 [U]	<1.7 [U]	<1.4 [U]	<2.1 [U]	<2.2 [U]	
HxCDD, 1,2,3,6,7,8-	57653-85-7	XE766/BU	1	pg/g	<1.8 [U]	<1.6 [U]	<1.4 [U]	<2.0 [U]	<2.0 [U]	
HxCDD, 1,2,3,7,8,9-	19408-74-3	XE766/BU	1	pg/g	<1.8 [U]	<1.6 [U]	<1.4 [U]	<2.0 [U]	<2.1 [U]	
HpCDD, 1,2,3,4,6,7,8-	35822-46-9	XE766/BU	1	pg/g	4.61 [J, M]	<2.6 [J, M, F]	<2.7 [J, M, F]	<4.4 [U, M]	<3.3 [U]	
OCDD	3268-87-9	XE766/BU	2	pg/g	<15 [J, M, F]	<14 [J, M, F]	<13 [J, M, F]	<14 [J, M, F]	17.4 [J, M]	
Tetrachlorodibenzo-p-dioxins [TCDD], total	41903-57-5	XE766/BU	1	pg/g	<2.0 [U]	<1.7 [U]	<1.2 [U]	<1.8 [U]	<2.7 [U]	
TCDD, total, # homologues detected	----	XE766/BU	0	-	0	0	0	0	0	
Pentachlorodibenzo-p-dioxins [PeCDD], total	----	XE766/BU	1	pg/g	<1.5 [U]	<1.4 [U]	<1.0 [U]	<1.5 [U]	<1.6 [U]	
PeCDD, total, # homologues detected	----	XE766/BU	0	-	0	0	0	0	0	
Hexachlorodibenzo-p-dioxins [HxCDD], total	34465-46-8	XE766/BU	1	pg/g	<1.9 [U]	<1.7 [U]	<1.4 [U]	<2.1 [U]	<2.2 [U]	
HxCDD, total, # homologues detected	----	XE766/BU	0	-	0	0	0	0	0	
Heptachlorodibenzo-p-dioxins [HpCDD], total	37871-00-4	XE766/BU	1	pg/g	4.61 [J]	<2.6 [U]	<2.7 [U]	<4.4 [U]	<3.3 [U]	
HpCDD, total, # homologues detected	----	XE766/BU	0	-	1	0	0	0	0	
TCDF, 2,3,7,8-	51207-31-9	XE766/BU	1	pg/g	<2.4 [U]	<1.9 [U, M]	<1.6 [U, M]	<3.0 [U]	<2.0 [U]	
PeCDF, 1,2,3,7,8-	57117-41-6	XE766/BU	1	pg/g	<1 [U]	<1 [U]	<1 [U]	<2 [U]	<1 [U]	
PeCDF, 2,3,4,7,8-	57117-31-4	XE766/BU	1	pg/g	<1.1 [U]	<1.2 [U]	<0.98 [U]	<1.5 [U]	<1.2 [U]	
HxCDF, 1,2,3,4,7,8-	70648-26-9	XE766/BU	1	pg/g	<1.1 [U]	<0.90 [U]	<0.73 [U]	<1.0 [U]	<0.83 [U]	
HxCDF, 1,2,3,6,7,8-	57117-44-9	XE766/BU	1	pg/g	<1.1 [U]	<0.97 [U]	<0.71 [U]	<1.0 [U]	<0.86 [U]	
HxCDF, 1,2,3,7,8,9-	72918-21-9	XE766/BU	1	pg/g	<1.9 [U]	<1.4 [U]	<1.1 [U]	<1.6 [U]	<1.2 [U]	
HxCDF, 2,3,4,6,7,8-	60851-34-5	XE766/BU	1	pg/g	<1.3 [U]	<1.1 [U]	<0.81 [U]	<1.1 [U]	<0.99 [U]	

Analytical Results

Sub-Matrix: Plant
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250617107 ----	15867250617108 ----	15867250617109 ----	15867250618110 ----	15867250618111 ----
					Client sampling date / time	17-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00	18-Jun-2025 00:00	18-Jun-2025 00:00
						BU2501974-012	BU2501974-014	BU2501974-016	BU2501974-018	BU2501974-020
						Result	Result	Result	Result	Result
Dioxins and Furans										
HpCDF, 1,2,3,4,6,7,8-	67562-39-4	XE766/BU	2	pg/g	<2.2 [J], M, F	<2.0 [U], M	<1.2 [U]	<2.7 [U]	<1.5 [U]	
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	XE766/BU	1	pg/g	<3.3 [U]	<3.5 [U]	<1.8 [U]	<4.1 [U]	<2.3 [U]	
OCDF	39001-02-0	XE766/BU	2	pg/g	<3.8 [U]	<4.4 [U]	<3.1 [U]	<3.8 [U]	<6.4 [U]	
Tetrachlorodibenzofurans [TCDF], total	----	XE766/BU	1	pg/g	<2.4 [U]	<1.9 [U]	<1.6 [U]	<3.0 [U]	<2.0 [U]	
TCDF, total, # homologues detected	----	XE766/BU	0	-	0	0	0	0	0	
Pentachlorodibenzofurans [PeCDF], total	----	XE766/BU	1	pg/g	<1.2 [U]	<1.3 [U]	<1.0 [U]	<1.7 [U]	<1.4 [U]	
PeCDF, total, # homologues detected	----	XE766/BU	0	-	0	0	0	0	0	
Hexachlorodibenzofurans [HxCDF], total	55684-94-1	XE766/BU	1	pg/g	<1.9 [U]	<1.4 [U]	<1.1 [U]	<1.6 [U]	<1.2 [U]	
HxCDF, total, # homologues detected	----	XE766/BU	0	-	0	0	0	0	0	
Heptachlorodibenzofurans [HpCDF], total	38998-75-3	XE766/BU	2	pg/g	<3.3 [U]	<3.5 [U]	<1.8 [U]	<4.1 [U]	<2.3 [U]	
HpCDF, total, # homologues detected	----	XE766/BU	0	-	0	0	0	0	0	
Dioxins and Furans Surrogates										
TCDD-13C12, 2,3,7,8-	76523-40-5	XE766/BU	0.1	%	47.8	61.7	58.0	49.0	53.2	
PeCDD-13C12, 1,2,3,7,8-	109719-79-1	XE766/BU	0.1	%	45.1	54.7	51.3	43.5	43.9	
HxCDD-13C12, 1,2,3,4,7,8-	109719-80-4	XE766/BU	0.1	%	60.7	69.7	71.6	60.7	62.3	
HxCDD-13C12, 1,2,3,6,7,8-	109719-81-5	XE766/BU	0.1	%	62.6	74.3	69.8	62.9	63.8	
HpCDD-13C12, 1,2,3,4,6,7,8-	109719-83-7	XE766/BU	0.1	%	43.5	53.9	53.1	46.5	46.9	
OCDD-13C12	114423-97-1	XE766/BU	0.1	%	31.9	41.0	41.0	35.2	35.7	
TCDF-13C12, 2,3,7,8-	89059-46-1	XE766/BU	0.1	%	49.0	62.5	59.0	48.8	53.7	
PeCDF-13C12, 1,2,3,7,8-	109719-77-9	XE766/BU	0.1	%	50.3	61.8	57.7	47.9	49.7	
PeCDF-13C12, 2,3,4,7,8-	116843-02-8	XE766/BU	0.1	%	47.1	58.8	55.4	45.0	46.5	

Analytical Results

Sub-Matrix: Plant
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250617107 ----	15867250617108 ----	15867250617109 ----	15867250618110 ----	15867250618111 ----
					Client sampling date / time	17-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00	18-Jun-2025 00:00	18-Jun-2025 00:00
						BU2501974-012	BU2501974-014	BU2501974-016	BU2501974-018	BU2501974-020
						Result	Result	Result	Result	Result
Dioxins and Furans Surrogates										
HxCDF-13C12, 1,2,3,4,7,8-	114423-98-2	XE766/BU	0.1	%		68.5	80.8	79.2	68.7	71.0
HxCDF-13C12, 1,2,3,6,7,8-	116843-03-9	XE766/BU	0.1	%		77.6	83.9	81.9	74.8	76.5
HxCDF-13C12, 2,3,4,6,7,8-	116843-05-1	XE766/BU	0.1	%		60.4	72.4	72.9	63.8	65.7
HxCDF-13C12, 1,2,3,7,8,9-	116843-04-0	XE766/BU	0.1	%		59.1	74.2	73.5	65.2	67.8
HpCDF-13C12, 1,2,3,4,6,7,8-	67562-39-4	XE766/BU	0.1	%		51.4	61.5	60.9	53.6	55.1
HpCDF-13C12, 1,2,3,4,7,8,9-	55673-89-7	XE766/BU	0.1	%		44.8	52.0	54.6	46.9	47.7
Polychlorinated Biphenyls										
PCB 001	2051-60-7	XE781/BU	2	pg/g		<3.4 [U]	<3.9 [U]	<3.9 [U]	<3.6 [U]	<5.5 [F]
PCB 002	2051-61-8	XE781/BU	2	pg/g		<3.3 [U]	<9.4 [M, F]	<3.8 [U]	<3.5 [U]	<4.0 [U]
PCB 003	2051-62-9	XE781/BU	5	pg/g		<3.4 [U]	<16 [M, F]	<3.8 [U]	<7.1 [M, F]	<4.1 [U]
PCB 004	13029-08-8	XE781/BU	5	pg/g		<9.5 [U]	<14 [U]	<13 [U]	<16 [U]	<14 [U]
PCB 010	33146-45-1	XE781/BU	5	pg/g		<4.2 [U]	<6.2 [U]	<5.6 [U]	<6.8 [U]	<6.4 [U]
PCB 009	34883-39-1	XE781/BU	2	pg/g		<4.2 [U]	<6.3 [U]	<5.6 [U]	<6.9 [U]	<6.4 [U]
PCB 007	33284-50-3	XE781/BU	2	pg/g		<3.7 [U]	<5.5 [U]	<4.9 [U]	<6.1 [U]	<5.7 [U]
PCB 006	25569-80-6	XE781/BU	2	pg/g		<4.2 [U]	<6.3 [U]	<5.7 [U]	<7.0 [U]	<6.5 [U]
PCB 005	16605-91-7	XE781/BU	2	pg/g		<4.0 [U]	<5.9 [U]	<5.3 [U]	<6.5 [U]	<6.1 [U]
PCB 008	34883-43-7	XE781/BU	5	pg/g		51.4	32.2 [M]	<5.4 [U]	<22 [F]	<6.3 [U]
PCB 014	34883-41-5	XE781/BU	2	pg/g		<7.4 [U]	<9.7 [U]	<8.6 [U]	<11 [U]	<10 [U]
PCB 011	2050-67-1	XE781/BU	20	pg/g		328 [B]	279 [B]	303 [B]	445 [B]	356 [B]
PCB 012+013	n/a	XE781/BU	5	pg/g		<6.6 [M, F]	<11 [M, F]	<7.6 [U]	<10 [U]	<9.1 [U]
PCB 015	2050-68-2	XE781/BU	5	pg/g		60.5	56.8	<12 [F]	15.7	<10 [M, F]

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Analytical Results

Sub-Matrix: Plant
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250617107 ----	15867250617108 ----	15867250617109 ----	15867250618110 ----	15867250618111 ----
					Client sampling date / time	17-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00	18-Jun-2025 00:00	18-Jun-2025 00:00
						BU2501974-012	BU2501974-014	BU2501974-016	BU2501974-018	BU2501974-020
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 019	38444-73-4	XE781/BU	2	pg/g		<5.2 [U]	<6.4 [U]	<5.9 [U]	<7.2 [U]	<6.6 [U]
PCB 018+030	----	XE781/BU	5	pg/g		50.2	<22 F	<11 M, F	30.8	<14 F
PCB 017	37680-66-3	XE781/BU	2	pg/g		<22 F	<10.0 F	<7.0 M, F	<17 M, F	<6.1 M, F
PCB 027	38444-76-7	XE781/BU	2	pg/g		<3.5 [U]	<4.3 [U]	<4.5 [U]	<5.2 [U]	<4.3 [U]
PCB 024	55702-45-9	XE781/BU	2	pg/g		<3.2 [U]	<4.0 [U]	<4.2 [U]	<4.8 [U]	<4.0 [U]
PCB 016	38444-78-9	XE781/BU	2	pg/g		22.4	<16 F	7.10 M	11.5 M	<6.7 [U], M
PCB 032	38444-77-8	XE781/BU	2	pg/g		19.3	<7.4 F	<4.3 [U]	<5.6 M, F	<4.4 M, F
PCB 034	37680-68-5	XE781/BU	2	pg/g		<4.2 [U]	<7.2 [U]	<6.4 [U]	<6.1 [U]	<6.6 [U]
PCB 023	55720-44-0	XE781/BU	2	pg/g		<3.8 [U]	<6.4 [U]	<5.7 [U]	<5.5 [U]	<6.0 [U]
PCB 026+029	----	XE781/BU	5	pg/g		18.0	11.4	<5.8 [U]	<7.4 M, F	<6.1 [U]
PCB 025	55712-37-3	XE781/BU	2	pg/g		<7.0 F	9.66	<6.0 [U]	<5.8 [U]	<6.2 [U]
PCB 031	16606-02-3	XE781/BU	5	pg/g		90.1 [B]	71.0 [B]	26.2 [B]	36.0 [B]	15.8 [B]
PCB 020+028	----	XE781/BU	5	pg/g		176	153	42.6 [B]	54.5 [B]	21.0 [B]
PCB 021+033	----	XE781/BU	5	pg/g		51.4	42.8	<13 F	22.3	12.2 M
PCB 022	38444-85-8	XE781/BU	2	pg/g		<39 F	<30 F	<12 F	19.9	<7.8 F
PCB 036	38444-87-0	XE781/BU	2	pg/g		<3.6 [U]	<6.1 [U]	<5.5 [U]	<5.3 [U]	<5.7 [U]
PCB 039	38444-88-1	XE781/BU	2	pg/g		<3.3 [U]	<5.6 [U]	<5.0 [U]	<4.8 [U]	<5.2 [U]
PCB 038	53555-66-1	XE781/BU	2	pg/g		18.0	18.6	<12 F	<12 F	20.2
PCB 035	37680-69-6	XE781/BU	2	pg/g		19.6	16.0	<6.1 [U], M	<5.8 [U], M	<6.3 [U]
PCB 037	38444-90-5	XE781/BU	2	pg/g		136	130	21.8	34.5	7.61 M
PCB 054	15968-05-5	XE781/BU	5	pg/g		<3.0 [U]	<4.1 [U]	<4.0 [U]	<4.1 [U]	<4.5 [U]

Analytical Results

Sub-Matrix: Plant
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250617107 ----	15867250617108 ----	15867250617109 ----	15867250618110 ----	15867250618111 ----
					Client sampling date / time	17-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00	18-Jun-2025 00:00	18-Jun-2025 00:00
						BU2501974-012	BU2501974-014	BU2501974-016	BU2501974-018	BU2501974-020
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 050+053	----	XE781/BU	10	pg/g		14.2	<7.0 F	<5.4 [U]	<6.0 [U]	<6.6 [U]
PCB 045+051	----	XE781/BU	10	pg/g		20.4	15.9 M	<5.6 [U]	<9.9 F	<6.8 [U]
PCB 046	41464-47-5	XE781/BU	5	pg/g		<5.2 F	<8.1 [U]	<6.4 [U]	<7.2 [U]	<7.9 [U]
PCB 052	35693-99-3	XE781/BU	5	pg/g		262	255	48.0 [B]	53.8 [B]	<11 F
PCB 073	74338-23-1	XE781/BU	5	pg/g		<3.0 [U]	<4.8 [U]	<3.8 [U]	<4.3 [U]	<4.7 [U]
PCB 043	70362-46-8	XE781/BU	5	pg/g		<5.0 [U]	<8.1 [U]	<6.4 [U]	<7.2 [U]	<7.9 [U]
PCB 049+069	----	XE781/BU	5	pg/g		85.2	77.0	20.2	23.2	<9.1 F
PCB 048	70362-47-9	XE781/BU	5	pg/g		16.9	17.9	<5.0 [U]	5.70	<6.1 [U]
PCB 044+047+065	----	XE781/BU	5	pg/g		184 [B]	198 M, [B]	64.2 [B]	52.4 [B]	35.7 [B]
PCB 059+062+075	----	XE781/BU	5	pg/g		10.6	13.2	<4.0 [U]	<4.4 [U]	<4.8 [U]
PCB 042	36559-22-5	XE781/BU	5	pg/g		31.8	31.3	<8.1 M, F	<7.4 F	<8.0 [U]
PCB 040+041+071	----	XE781/BU	5	pg/g		55.9	56.1 M	17.4 M	<15 F	16.0
PCB 064	52663-58-8	XE781/BU	5	pg/g		67.2	62.0	<15 F	14.6 [B]	<7.7 F
PCB 072	41464-42-0	XE781/BU	5	pg/g		<6.2 [U]	<6.7 [U]	<4.9 [U]	<7.4 [U]	<5.9 [U]
PCB 068	73575-52-7	XE781/BU	5	pg/g		<5.3 [U]	<5.7 [U]	<4.2 [U]	<6.3 [U]	<5.0 [U]
PCB 057	70424-67-8	XE781/BU	5	pg/g		<6.3 [U]	<6.8 [U]	<5.0 [U]	<7.5 [U]	<6.0 [U]
PCB 058	41464-49-7	XE781/BU	5	pg/g		<5.5 [U]	<5.9 [U]	<4.3 [U]	<6.5 [U]	<5.2 [U]
PCB 067	73575-53-8	XE781/BU	5	pg/g		<9.8 F	<11 F	<4.2 [U]	<6.3 [U]	<5.0 [U]
PCB 063	74472-34-7	XE781/BU	5	pg/g		<12 M, F	<14 M, F	<4.8 [U]	<7.3 [U]	<5.8 [U]
PCB 061+070+074+076	----	XE781/BU	5	pg/g		690	716	94.3 [B]	139 [B]	<16 M, F
PCB 066	32598-10-0	XE781/BU	5	pg/g		428	430	<55 F	86.7	11.7 M

Analytical Results

Sub-Matrix: Plant
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250617107 ----	15867250617108 ----	15867250617109 ----	15867250618110 ----	15867250618111 ----
					Client sampling date / time	17-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00	18-Jun-2025 00:00	18-Jun-2025 00:00
						BU2501974-012	BU2501974-014	BU2501974-016	BU2501974-018	BU2501974-020
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 055	74338-24-2	XE781/BU	5	pg/g		<5.8 [U]	<6.2 [U]	<4.5 [U]	<6.8 [U]	<5.4 [U]
PCB 056	41464-43-1	XE781/BU	5	pg/g		96.4	100	17.4	<19 F	<6.3 M, F
PCB 060	33025-41-1	XE781/BU	5	pg/g		99.1	88.8	14.7	<17 F	<5.3 [U]
PCB 080	33284-52-5	XE781/BU	5	pg/g		<5.0 [U]	<5.4 [U]	<4.0 [U]	<6.0 [U]	<4.8 [U]
PCB 079	41464-48-6	XE781/BU	5	pg/g		13.9 M	<12 F	<4.3 [U]	<6.4 [U]	<5.1 [U]
PCB 078	70362-49-1	XE781/BU	5	pg/g		<6.6 [U]	<7.1 [U]	<5.2 [U]	<7.8 [U]	<6.2 [U]
PCB 081	70362-50-4	XE781/BU	5	pg/g		11.0 M	<6.8 [U]	<4.6 [U]	<6.9 [U]	<5.4 [U]
PCB 077	32598-13-3	XE781/BU	5	pg/g		240	250	23.3	<61 M, F	<5.8 [U]
PCB 104	56558-16-8	XE781/BU	5	pg/g		<3.9 [U]	<5.5 [U]	<4.4 [U]	<4.7 [U]	<4.0 [U]
PCB 096	73575-54-9	XE781/BU	5	pg/g		<4.1 [U]	<5.5 [U]	<4.0 [U]	<4.4 [U]	<3.6 [U]
PCB 103	60145-21-3	XE781/BU	5	pg/g		<6.5 [U]	<9.6 [U]	<7.7 [U]	<7.3 [U]	<8.0 [U]
PCB 094	73575-55-0	XE781/BU	5	pg/g		<6.2 [U]	<9.1 [U]	<7.3 [U]	<6.9 [U]	<7.6 [U]
PCB 095	38379-99-6	XE781/BU	5	pg/g		700	677	<86 F	111	<14 F
PCB 093+098+100+102	----	XE781/BU	20	pg/g		<8.1 F	<21 M, F	<7.0 [U]	<6.6 [U]	<7.3 [U]
PCB 088+091	----	XE781/BU	5	pg/g		75.1	76.5	<7.4 [U]	<9.8 F	<7.8 [U]
PCB 084	52663-60-2	XE781/BU	5	pg/g		140	152	<18 F	<20 F	<8.1 [U]
PCB 089	73575-57-2	XE781/BU	5	pg/g		<7.9 [U]	<12 [U]	<9.4 [U]	<8.8 [U]	<9.8 [U]
PCB 121	56558-18-0	XE781/BU	5	pg/g		<4.0 [U]	<5.9 [U]	<4.8 [U]	<4.5 [U]	<5.0 [U]
PCB 092	52663-61-3	XE781/BU	5	pg/g		245	238	30.0	<37 F	<8.9 [U]
PCB 090+101+113	----	XE781/BU	20	pg/g		1080	1140	150	197	<22 M, F
PCB 083+099	----	XE781/BU	20	pg/g		740	753	87.9	145	13.8 M, [B]

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Analytical Results

Sub-Matrix: Plant
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250617107 ----	15867250617108 ----	15867250617109 ----	15867250618110 ----	15867250618111 ----
					Client sampling date / time	17-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00	18-Jun-2025 00:00	18-Jun-2025 00:00
						BU2501974-012	BU2501974-014	BU2501974-016	BU2501974-018	BU2501974-020
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 112	74472-36-9	XE781/BU	5	pg/g		<4.2 [U]	<6.2 [U]	<5.0 [U]	<4.7 [U]	<5.2 [U], M
PCB 086+087+097+109+119+125	----	XE781/BU	5	pg/g		616 M	619 M	74.7 M	<110 M, F	<12 M, F
PCB 085+110+115+116+117	----	XE781/BU	5	pg/g		1360 M	1380 M	171 M	251 M	<12 F
PCB 082	52663-62-4	XE781/BU	5	pg/g		121	128	<8.8 [U], M	<20 F	<9.1 [U]
PCB 111	39635-32-0	XE781/BU	5	pg/g		<3.9 [U]	<5.8 [U]	<4.6 [U]	<4.4 [U]	<4.8 [U]
PCB 120	68194-12-7	XE781/BU	5	pg/g		<10 M, F	8.79 M	<5.3 [U], M	<5.0 [U]	<5.6 [U]
PCB 108+124	----	XE781/BU	10	pg/g		56.3	64.0	<5.4 F	<12 F	<4.5 [U]
PCB 107	70424-68-9	XE781/BU	5	pg/g		97.4	103 M	<9.2 M, F	<22 F	<4.0 [U]
PCB 123	65510-44-3	XE781/BU	5	pg/g		<28 F	<24 M, F	<3.9 [U]	8.24	<5.1 [U]
PCB 106	70424-69-0	XE781/BU	5	pg/g		<3.5 [U]	<5.9 [U]	<4.1 [U]	<5.6 [U]	<5.2 [U]
PCB 118	31508-00-6	XE781/BU	10	pg/g		1400	1380	166	345	10.8
PCB 122	76842-07-4	XE781/BU	5	pg/g		23.7	<12 F	<5.0 [U]	<6.7 [U]	<6.3 [U]
PCB 114	74472-37-0	XE781/BU	5	pg/g		<31 F	37.6	5.49	<4.7 [U]	<4.4 [U]
PCB 105	32598-14-4	XE781/BU	5	pg/g		695	744	87.5	181	<6.2 F
PCB 127	39635-33-1	XE781/BU	5	pg/g		<3.3 [U]	<6.9 F	<3.9 [U]	<5.7 F	<6.8 F
PCB 126	57465-28-8	XE781/BU	5	pg/g		27.8	28.8 M	<4.0 [U]	<5.8 M, F	<4.7 [U]
PCB 155	33979-03-2	XE781/BU	5	pg/g		<2.2 F	<1.7 [U]	<1.6 [U]	<3.1 [U]	<1.8 [U]
PCB 152	68194-09-2	XE781/BU	5	pg/g		<2.3 [U]	<2.9 [U]	<2.8 [U]	<4.7 [U]	<2.7 [U]
PCB 150	68194-08-1	XE781/BU	5	pg/g		<3.2 F	<3.1 F	<2.3 [U]	<4.0 [U]	<2.2 [U]
PCB 136	38411-22-2	XE781/BU	5	pg/g		185	184	<18 F	28.0	3.15 M
PCB 145	74472-40-5	XE781/BU	5	pg/g		<1.9 [U]	<2.5 [U]	<2.4 [U]	<4.1 [U]	<2.3 [U]

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Analytical Results

Sub-Matrix: Plant
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250617107 ----	15867250617108 ----	15867250617109 ----	15867250618110 ----	15867250618111 ----
					Client sampling date / time	17-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00	18-Jun-2025 00:00	18-Jun-2025 00:00
						BU2501974-012	BU2501974-014	BU2501974-016	BU2501974-018	BU2501974-020
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 148	74472-41-6	XE781/BU	5	pg/g		<3.0 [U]	<3.8 [U]	<3.6 [U]	<6.2 [U]	<3.5 [U]
PCB 135+151	----	XE781/BU	10	pg/g		592	590	64.2 M	113	8.16 M
PCB 154	60145-22-4	XE781/BU	10	pg/g		20.6	20.5	3.17	<4.6 [U]	<2.6 [U]
PCB 144	68194-14-9	XE781/BU	5	pg/g		91.0	97.6	<9.8 F	<15 F	<3.4 [U]
PCB 147+149	----	XE781/BU	10	pg/g		1090 M	1230 M	132 M	217 M	<10 M, F
PCB 134+143	----	XE781/BU	10	pg/g		60.2	66.4	<8.7 F	<9.7 F	<3.9 [U]
PCB 139+140	----	XE781/BU	10	pg/g		32.9	<29 F	<4.3 [U]	<6.2 F	<2.9 [U]
PCB 131	61798-70-7	XE781/BU	5	pg/g		<16 F	<17 F	<5.9 [U]	<5.9 [U]	<4.0 [U]
PCB 142	41411-61-4	XE781/BU	5	pg/g		<4.2 [U]	<7.1 [U]	<5.8 [U]	<5.8 [U]	<3.9 [U]
PCB 132	38380-05-1	XE781/BU	5	pg/g		397	433	50.5	76.1	<3.2 [U]
PCB 133	35694-04-3	XE781/BU	5	pg/g		<28 F	29.6	<5.4 [U]	6.20	<3.7 [U]
PCB 165	74472-46-1	XE781/BU	5	pg/g		<2.5 [U]	<4.3 [U]	<3.5 [U]	<3.5 [U]	<2.4 [U]
PCB 146	51908-16-8	XE781/BU	5	pg/g		285	304	31.2	62.3	<2.8 [U], M
PCB 161	74472-43-8	XE781/BU	5	pg/g		<2.8 [U]	<4.6 [U]	<3.8 [U]	<3.8 [U]	<2.6 [U]
PCB 153+168	----	XE781/BU	10	pg/g		1650	1800	194	385	<11 F
PCB 141	52712-04-6	XE781/BU	5	pg/g		341	355	40.0	73.6	<3.1 [U]
PCB 130	52663-66-8	XE781/BU	5	pg/g		106	<95 F	<12 M, F	25.4	<3.8 [U]
PCB 137+164	----	XE781/BU	5	pg/g		172 M	182 M	<16 M, F	48.9 M	<2.6 [U]
PCB 129+138+163	----	XE781/BU	10	pg/g		1990	2180	235	484	<14 F
PCB 160	41411-62-5	XE781/BU	10	pg/g		<2.4 [U]	<4.0 [U]	<3.2 [U]	<3.2 [U]	<2.2 [U]
PCB 158	74472-42-7	XE781/BU	5	pg/g		177	186	22.7	44.0	<2.2 [U]

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Analytical Results

Sub-Matrix: Plant
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250617107 ----	15867250617108 ----	15867250617109 ----	15867250618110 ----	15867250618111 ----
					Client sampling date / time	17-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00	18-Jun-2025 00:00	18-Jun-2025 00:00
						BU2501974-012	BU2501974-014	BU2501974-016	BU2501974-018	BU2501974-020
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 128+166	----	XE781/BU	10	pg/g		246	251	28.5	67.3	<2.8 [U], M
PCB 159	39635-35-3	XE781/BU	5	pg/g		<9.9 F	14.3	<3.4 [U]	<3.4 [U]	<2.3 [U]
PCB 162	39635-34-2	XE781/BU	5	pg/g		6.86	5.44	<3.4 [U]	<3.4 [U]	<2.3 [U]
PCB 167	52663-72-6	XE781/BU	5	pg/g		69.8	82.6	<7.9 F	26.6	<2.7 [U]
PCB 156+157	----	XE781/BU	10	pg/g		145	148	21.8	47.0	<3.9 [U]
PCB 169	32774-16-6	XE781/BU	5	pg/g		<3.5 [U]	<6.3 [U]	<5.2 [U]	<4.9 [U]	<3.2 [U]
PCB 188	74487-85-7	XE781/BU	5	pg/g		<2.1 [U]	<2.1 [U]	<2.2 [U]	<2.0 [U]	<2.2 [U]
PCB 179	52663-64-6	XE781/BU	5	pg/g		175	184	<19 F	34.9	<2.4 [U]
PCB 184	74472-48-3	XE781/BU	5	pg/g		<2.0 [U]	<2.2 [U]	<2.2 [U]	<2.0 [U]	<2.1 [U]
PCB 176	52663-65-7	XE781/BU	5	pg/g		57.9	59.0	<5.4 F	9.74	<2.5 [U]
PCB 186	74472-49-4	XE781/BU	5	pg/g		<2.2 [U]	<2.4 [U]	<2.3 [U]	<2.2 [U]	<2.2 [U]
PCB 178	52663-67-9	XE781/BU	5	pg/g		93.4	106	<10 F	22.0	<3.5 [U]
PCB 175	40186-70-7	XE781/BU	5	pg/g		21.8	<22 F	<3.4 [U]	<5.9 F	<3.3 [U]
PCB 187	52663-68-0	XE781/BU	5	pg/g		445	467	<45 F	<94 F	<2.7 [U]
PCB 182	60145-23-5	XE781/BU	5	pg/g		<3.0 [U]	7.98	<3.1 [U]	<2.9 [U]	<3.0 [U]
PCB 183	52663-69-1	XE781/BU	10	pg/g		260	282	<30 F	<50 F	<3.1 [U]
PCB 185	52712-05-7	XE781/BU	10	pg/g		<27 M, F	<24 M, F	<3.3 [U]	<6.8 M, F	<3.2 [U]
PCB 174	38411-25-5	XE781/BU	5	pg/g		357 M	388 M	34.2 M	78.0 M	<3.0 [U]
PCB 177	52663-70-4	XE781/BU	5	pg/g		211	233	26.8	50.1	<3.4 [U]
PCB 181	74472-47-2	XE781/BU	20	pg/g		3.46	<3.3 [U]	<3.2 [U]	<3.0 [U]	<3.1 [U]
PCB 171+173	----	XE781/BU	20	pg/g		113	<110 F	<14 F	<26 F	<3.5 [U]

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Analytical Results

Sub-Matrix: Plant
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250617107 ----	15867250617108 ----	15867250617109 ----	15867250618110 ----	15867250618111 ----
					Client sampling date / time	17-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00	18-Jun-2025 00:00	18-Jun-2025 00:00
						BU2501974-012	BU2501974-014	BU2501974-016	BU2501974-018	BU2501974-020
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 172	52663-74-8	XE781/BU	5	pg/g		64.4	72.2	<5.7 F	17.7	<3.5 [U]
PCB 192	74472-51-8	XE781/BU	20	pg/g		<2.5 [U]	<2.8 [U]	<2.7 [U]	<2.5 [U]	<2.6 [U]
PCB 180+193	----	XE781/BU	10	pg/g		742	773	80.2	225	<4.6 F
PCB 191	74472-50-7	XE781/BU	5	pg/g		<15 F	<12 F	<2.8 [U]	<3.3 F	<2.7 [U]
PCB 170	35065-30-6	XE781/BU	5	pg/g		253	270	<30 F	89.3	<3.6 [U]
PCB 190	41411-64-7	XE781/BU	5	pg/g		44.5	51.6	<5.3 F	15.9	<2.5 [U]
PCB 189	39635-31-9	XE781/BU	5	pg/g		<9.7 M, F	<9.8 F	<4.1 [U]	<4.4 [U]	<4.0 [U]
PCB 202	2136-99-4	XE781/BU	10	pg/g		<18 F	<26 F	<3.6 [U]	<4.2 F	<2.7 [U]
PCB 201	40186-71-8	XE781/BU	5	pg/g		<13 F	18.1	<3.6 [U]	<5.7 F	<2.6 [U]
PCB 204	74472-52-9	XE781/BU	5	pg/g		<2.4 [U]	<6.1 [U]	<3.8 [U]	<4.0 [U]	<2.7 [U]
PCB 197	33091-17-7	XE781/BU	10	pg/g		<5.6 F	<5.7 [U]	<3.6 [U]	<3.7 [U]	<2.5 [U]
PCB 200	52663-73-7	XE781/BU	10	pg/g		<11 F	<13 F	<4.0 [U]	<4.2 [U]	<2.9 [U]
PCB 198+199	----	XE781/BU	10	pg/g		110	110	17.7	<30 F	<4.0 [U]
PCB 196	42740-50-1	XE781/BU	5	pg/g		59.0	<51 F	<5.8 [U]	<20 F	<4.1 [U]
PCB 203	52663-76-0	XE781/BU	5	pg/g		58.3	<51 F	<5.4 F	20.1	<3.6 [U]
PCB 195	52663-78-2	XE781/BU	5	pg/g		<30 F	<32 F	<7.2 M, F	<8.6 M, F	<5.8 [U]
PCB 194	35694-08-7	XE781/BU	5	pg/g		71.5	<70 F	12.1 M	37.0	<5.9 [U]
PCB 205	74472-53-0	XE781/BU	5	pg/g		<4.8 [U]	<6.6 [U]	<4.6 [U]	<5.2 [U]	<5.5 [U]
PCB 208	52663-77-1	XE781/BU	5	pg/g		<9.5 [U]	<15 [U]	<16 [U]	<10 [U]	<11 [U]
PCB 207	52663-79-3	XE781/BU	5	pg/g		<11 [U]	<20 [U]	<20 [U]	<13 [U]	<14 [U]
PCB 206	40186-72-9	XE781/BU	5	pg/g		<19 [U]	<35 [U]	<36 [U]	<24 [U]	<25 [U]

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Analytical Results

Sub-Matrix: Plant
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250617107 ----	15867250617108 ----	15867250617109 ----	15867250618110 ----	15867250618111 ----
					Client sampling date / time	17-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00	18-Jun-2025 00:00	18-Jun-2025 00:00
						BU2501974-012	BU2501974-014	BU2501974-016	BU2501974-018	BU2501974-020
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
PCB 209	2051-24-3	XE781/BU	10	pg/g		<6.6 [U]	<9.3 [U]	<9.6 [U]	<7.7 [U]	<5.6 [U]
Monochlorinated biphenyls, total	n/a	XE781/BU	200	pg/g		<3.3 [U]	<3.8 [U]	<3.8 [U]	<3.5 [U]	<4.0 [U]
Dichlorinated biphenyls, total	n/a	XE781/BU	200	pg/g		440 [J]	368 [J]	303 [J]	461 [J]	356 [J]
Trichlorinated biphenyls, total	n/a	XE781/BU	200	pg/g		600 [J]	453 [J]	97.7 [J]	209 [J]	76.7 [J]
Tetrachlorinated biphenyls, total	n/a	XE781/BU	400	pg/g		2330 [J]	2310 [J]	300 [J]	375 [J]	63.4 [J]
Pentachlorinated biphenyls, total	n/a	XE781/BU	400	pg/g		7380 [J]	7530 [J]	773 [J]	1240 [J]	24.6 [J]
Hexachlorinated biphenyls, total	n/a	XE781/BU	400	pg/g		7670 [J]	8160 [J]	824 [J]	1700 [J]	11.3 [J]
Heptachlorinated biphenyls, total	n/a	XE781/BU	200	pg/g		2840 [J]	2890 [J]	141 [J]	542 [J]	<2.1 [U]
Octachlorinated biphenyls, total	n/a	XE781/BU	100	pg/g		298 [J]	128 [J]	29.8 [J]	57.0 [J]	<2.5 [U]
Nonachlorinated biphenyls, total	n/a	XE781/BU	100	pg/g		<9.5 [U]	<15 [U]	<16 [U]	<10 [U]	<11 [U]
Decachlorobiphenyl	2051-24-3	XE781/BU	5	pg/g		<6.6 [U]	<9.3 [U]	<9.6 [U]	<7.7 [U]	<5.6 [U]
Polychlorinated biphenyls [PCBs], total	n/a	XE781/BU	800	pg/g		21600 [J]	21800 [J]	2470 [J]	4590 [J]	532 [J]
Extraction Standards (Surrogates)										
PCB 001, 13C12	234432-85-0	XE781/BU	0.1	%		47.6	40.6	50.0	51.9	52.5
PCB 003, 13C12	208263-77-8	XE781/BU	0.1	%		44.7	39.0	48.8	50.4	51.0
PCB 004, 13C12	234432-86-1	XE781/BU	0.1	%		55.2	44.3	56.1	58.3	57.7
PCB 015, 13C12	208263-67-6	XE781/BU	0.1	%		49.7	41.8	52.6	55.1	54.9
PCB 019, 13C12	234432-87-2	XE781/BU	0.1	%		71.8	58.5	72.1	75.2	77.7
PCB 037, 13C12	208263-79-0	XE781/BU	0.1	%		62.0	56.5	65.8	69.6	69.2
PCB 054, 13C12	234432-88-3	XE781/BU	0.1	%		62.7	51.4	60.9	62.4	62.4
PCB 081, 13C12	208461-24-9	XE781/BU	0.1	%		62.3	50.9	59.8	61.5	62.0

Analytical Results

Sub-Matrix: Plant
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250617107 ----	15867250617108 ----	15867250617109 ----	15867250618110 ----	15867250618111 ----
					Client sampling date / time	17-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00	18-Jun-2025 00:00	18-Jun-2025 00:00
						BU2501974-012	BU2501974-014	BU2501974-016	BU2501974-018	BU2501974-020
						Result	Result	Result	Result	Result
Extraction Standards (Surrogates)										
PCB 077, 13C12	105600-23-5	XE781/BU	0.1	%		60.4	50.3	58.3	58.5	58.5
PCB 104, 13C12	234432-89-4	XE781/BU	0.1	%		57.3	47.1	49.3	50.9	50.6
PCB 123, 13C12	208263-64-3	XE781/BU	0.1	%		57.9	47.1	56.2	57.0	58.3
PCB 118, 13C12	104130-40-7	XE781/BU	0.1	%		61.6	51.2	59.8	60.7	64.5
PCB 114, 13C12	208263-63-2	XE781/BU	0.1	%		59.7	47.3	57.7	59.8	61.9
PCB 105, 13C12	208263-62-1	XE781/BU	0.1	%		59.2	47.9	58.7	61.4	62.6
PCB 126, 13C12	208263-65-4	XE781/BU	0.1	%		56.4	45.7	54.0	55.6	60.1
PCB 155, 13C12	234432-90-7	XE781/BU	0.1	%		70.0	57.3	66.6	63.5	65.2
PCB 167, 13C12	235416-30-5	XE781/BU	0.1	%		64.7	53.9	64.8	66.6	68.5
PCB 156+157, 13C12	N/A	XE781/BU	0.1	%		68.4	56.6	65.5	69.3	68.8
PCB 169, 13C12	208263-70-1	XE781/BU	0.1	%		66.3	51.9	62.0	65.9	69.5
PCB 188, 13C12	234432-91-8	XE781/BU	0.1	%		71.1	60.7	71.3	72.8	69.1
PCB 189, 13C12	208263-73-4	XE781/BU	0.1	%		48.5	35.3	49.0	52.1	52.2
PCB 202, 13C12	105600-26-8	XE781/BU	0.1	%		70.2	56.3	66.1	68.1	69.8
PCB 205, 13C12	234446-64-1	XE781/BU	0.1	%		71.0	59.0	67.5	69.2	69.0
PCB 208, 13C12	234432-92-9	XE781/BU	0.1	%		75.2	62.3	78.0	76.1	74.2
PCB 206, 13C12	208263-75-6	XE781/BU	0.1	%		71.7	57.5	64.6	67.9	66.9
PCB 209, 13C12	105600-27-9	XE781/BU	0.1	%		47.6	42.3	48.0	47.7	52.0
Cleanup Standards (Surrogate)										
TCDD-37Cl4, 2,3,7,8-	----	XE766/BU	0.1	%		50.2	64.3	60.1	49.9	61.1
PCB 028, 13C12	208263-76-7	XE781/BU	0.1	%		75.8	67.2	77.4	83.6	83.0

Analytical Results

Sub-Matrix: Plant
(Matrix: Biota)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	15867250617107 ----	15867250617108 ----	15867250617109 ----	15867250618110 ----	15867250618111 ----
					Client sampling date / time	17-Jun-2025 00:00	17-Jun-2025 00:00	17-Jun-2025 00:00	18-Jun-2025 00:00	18-Jun-2025 00:00
						BU2501974-012	BU2501974-014	BU2501974-016	BU2501974-018	BU2501974-020
						Result	Result	Result	Result	Result
Cleanup Standards (Surrogate)										
PCB 111, 13C12	235416-29-2	XE781/BU	0.1	%		73.2	61.0	67.3	73.1	74.7
PCB 178, 13C12	232919-67-4	XE781/BU	0.1	%		83.3	71.6	78.6	82.4	84.2
Toxic Equivalency										
PCDD/F TEQ - WHO 2005 (ND=0*EDL)	n/a	XE766/BU	0.0	pg/g		0.0460	0.0	0.0	0.0	0.00524
PCDD/F TEQ - WHO 2005 (ND=0.5*EDL)	n/a	XE766/BU	0.0	pg/g		2.67	2.32	1.78	2.63	3.02
PCDD/F TEQ - WHO 2005 (ND=1*EDL)	n/a	XE766/BU	0.0	pg/g		5.30	4.66	3.56	5.26	6.06
PCB TEQ - WHO 2005 (ND=0.5*EDL)	n/a	XE781/BU	0.0	pg/g		2.92	3.07	0.287	0.385	0.284
PCB TEQ - WHO 2005 (ND=0*EDL)	n/a	XE781/BU	0.0	pg/g		2.87	2.96	0.0108	0.0182	0.000325
PCB TEQ - WHO 2005 (ND=1*EDL)	n/a	XE781/BU	0.0	pg/g		2.99	3.17	0.563	0.752	0.568

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

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QUALITY CONTROL REPORT

Work Order	: **BU2501974**	Page	: 1 of 23
Amendment	: **1**		
Client	: Montrose Environmental Solutions Canada Inc.	Laboratory	: ALS Environmental - Burlington
Contact	: Lindsay Oiffer	Account Manager	: Kieran Tordoff
Address	: 13804 164 St NW Edmonton AB Canada T5V 0C8	Address	: 1435 Norjohn Court, Unit 1 Burlington, Ontario Canada L7L 0E6
Telephone	: 780 989 8347	Telephone	: +1 905 331 3111
Project	: 15867-503	Date Samples Received	: 18-Jun-2025 16:45
PO	: PO-086285	Date Analysis Commenced	: 23-Jul-2025
C-O-C number	: ----	Issue Date	: 12-Sep-2025 15:44
Sampler	: ----		
Site	: ----		
Quote number	: EO24-MSOI100-004 (Swan Hills Treatment Centre)		
No. of samples received	: 20		
No. of samples analysed	: 20		

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

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Matrix Spike Duplicate (MSD) Report; Relative Percent Difference (RPD)
- 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*
Brad Reimer	Analyst	Burlington Organics, Burlington, Ontario
Navdeep Buttar		Burlington Organics, Burlington, Ontario

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
Physical Tests (QC Lot: 2122377)											
BU2501974-001	15867250616001	Moisture	----	E144	0.50	%	80.6	81.2	0.844%	20%	----
Physical Tests (QC Lot: 2122457)											
BU2501974-002	15867250616101	Moisture	----	E144	0.50	%	48.8	48.5	0.645%	20%	----

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
Sample Preparation (QCLot: 2212575)						
Weight, extraction (wet)	----	EP800	0.0001	g	10.3577	----
Sample Preparation (QCLot: 2212577)						
Weight, extraction (wet)	----	EP800	0.0001	g	10.3577	----
Sample Preparation (QCLot: 2212668)						
Weight, extraction (wet)	----	EP800	0.0001	g	1.0235	----
Sample Preparation (QCLot: 2212669)						
Weight, extraction (wet)	----	EP800	0.0001	g	1.0235	----
Physical Tests (QCLot: 2122377)						
Moisture	----	E144	0.5	%	<0.50	----
Physical Tests (QCLot: 2122457)						
Moisture	----	E144	0.5	%	<0.50	----
Dioxins and Furans (QCLot: 2212577)						
HpCDD, 1,2,3,4,6,7,8-	35822-46-9	XE766	1	pg/g	<1.0	[U]
HpCDF, 1,2,3,4,6,7,8-	67562-39-4	XE766	2	pg/g	<2.0	[J],F,M
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	XE766	1	pg/g	<1.0	[U]
HxCDD, 1,2,3,4,7,8-	39227-28-6	XE766	1	pg/g	<1.0	[U]
HxCDD, 1,2,3,6,7,8-	57653-85-7	XE766	1	pg/g	<1.0	[U]
HxCDD, 1,2,3,7,8,9-	19408-74-3	XE766	1	pg/g	<1.0	[U]
HxCDF, 1,2,3,4,7,8-	70648-26-9	XE766	1	pg/g	<1.0	[J],F,M
HxCDF, 1,2,3,6,7,8-	57117-44-9	XE766	1	pg/g	<1.0	[U]
HxCDF, 1,2,3,7,8,9-	72918-21-9	XE766	1	pg/g	<1.0	[U]
HxCDF, 2,3,4,6,7,8-	60851-34-5	XE766	1	pg/g	<1.0	[U]
OCDD	3268-87-9	XE766	2	pg/g	<2.0	[J],M
OCDF	39001-02-0	XE766	2	pg/g	<2.0	[J],F,M
PeCDD, 1,2,3,7,8-	40321-76-4	XE766	1	pg/g	<1.0	[U]
PeCDF, 1,2,3,7,8-	57117-41-6	XE766	1	pg/g	<1	[J],F,M
PeCDF, 2,3,4,7,8-	57117-31-4	XE766	1	pg/g	<1.0	[U]
TCDD, 2,3,7,8-	1746-01-6	XE766	1	pg/g	<1.0	[U]
TCDF, 2,3,7,8-	51207-31-9	XE766	1	pg/g	<1.0	[U]
Dioxins and Furans (QCLot: 2212669)						
HpCDD, 1,2,3,4,6,7,8-	35822-46-9	XE766	1	pg/g	<1.8	[U]
HpCDF, 1,2,3,4,6,7,8-	67562-39-4	XE766	2	pg/g	<2.0	[U]

Sub-Matrix: **Biota**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Dioxins and Furans (QCLot: 2212669) - continued						
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	XE766	1	pg/g	<2.0	[U]
HxCDD, 1,2,3,4,7,8-	39227-28-6	XE766	1	pg/g	<1.5	[U]
HxCDD, 1,2,3,6,7,8-	57653-85-7	XE766	1	pg/g	<1.4	[U]
HxCDD, 1,2,3,7,8,9-	19408-74-3	XE766	1	pg/g	<1.4	[U]
HxCDF, 1,2,3,4,7,8-	70648-26-9	XE766	1	pg/g	<1.0	[U]
HxCDF, 1,2,3,6,7,8-	57117-44-9	XE766	1	pg/g	<1.0	[U]
HxCDF, 1,2,3,7,8,9-	72918-21-9	XE766	1	pg/g	<1.2	[U]
HxCDF, 2,3,4,6,7,8-	60851-34-5	XE766	1	pg/g	<1.0	[U]
OCDD	3268-87-9	XE766	2	pg/g	<6.0	[J],F,M
OCDF	39001-02-0	XE766	2	pg/g	<2.9	[U]
PeCDD, 1,2,3,7,8-	40321-76-4	XE766	1	pg/g	<1.3	[U]
PeCDF, 1,2,3,7,8-	57117-41-6	XE766	1	pg/g	<1	[U]
PeCDF, 2,3,4,7,8-	57117-31-4	XE766	1	pg/g	<1.0	[U]
TCDD, 2,3,7,8-	1746-01-6	XE766	1	pg/g	<1.2	[U]
TCDF, 2,3,7,8-	51207-31-9	XE766	1	pg/g	# 1.74	[J],M
Polychlorinated Biphenyls (QCLot: 2212575)						
PCB 001	2051-60-7	XE781	2	pg/g	<2.0	[U]
PCB 002	2051-61-8	XE781	2	pg/g	<2.0	[U]
PCB 003	2051-62-9	XE781	5	pg/g	<5.0	[U]
PCB 004	13029-08-8	XE781	5	pg/g	<5.0	[U]
PCB 005	16605-91-7	XE781	2	pg/g	<2.1	[U]
PCB 006	25569-80-6	XE781	2	pg/g	<2.0	[U]
PCB 007	33284-50-3	XE781	2	pg/g	<2.0	[U]
PCB 008	34883-43-7	XE781	5	pg/g	<5.0	[U]
PCB 009	34883-39-1	XE781	2	pg/g	<2.0	[U]
PCB 010	33146-45-1	XE781	5	pg/g	<5.0	[U]
PCB 011	2050-67-1	XE781	25	pg/g	<25	----
PCB 012+013	n/a	XE781	5	pg/g	<5.0	[U]
PCB 014	34883-41-5	XE781	2	pg/g	<2.9	[U]
PCB 015	2050-68-2	XE781	5	pg/g	<5.0	[U]
PCB 016	38444-78-9	XE781	2	pg/g	<2.0	[U]
PCB 017	37680-66-3	XE781	2	pg/g	<2.0	[U]
PCB 018+030	----	XE781	5	pg/g	<5.0	[U]
PCB 019	38444-73-4	XE781	2	pg/g	<2.0	[U]
PCB 020+028	----	XE781	5	pg/g	<5.0	[U]

Sub-Matrix: **Biota**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polychlorinated Biphenyls (QCLot: 2212575) - continued						
PCB 021+033	----	XE781	5	pg/g	<5.0	[U]
PCB 022	38444-85-8	XE781	2	pg/g	<2.0	[U]
PCB 023	55720-44-0	XE781	2	pg/g	<2.0	[U]
PCB 024	55702-45-9	XE781	2	pg/g	<2.0	[U]
PCB 025	55712-37-3	XE781	2	pg/g	<2.0	[U]
PCB 026+029	----	XE781	5	pg/g	<5.0	[U]
PCB 027	38444-76-7	XE781	2	pg/g	<2.0	[U]
PCB 031	16606-02-3	XE781	5	pg/g	<5.0	[U],M
PCB 032	38444-77-8	XE781	2	pg/g	<2.0	[U]
PCB 034	37680-68-5	XE781	2	pg/g	<2.0	[U]
PCB 035	37680-69-6	XE781	2	pg/g	<2.0	[U]
PCB 036	38444-87-0	XE781	2	pg/g	<2.0	[U]
PCB 037	38444-90-5	XE781	2	pg/g	<2.0	[U]
PCB 038	53555-66-1	XE781	2	pg/g	<2.0	[U]
PCB 039	38444-88-1	XE781	2	pg/g	<2.0	[U]
PCB 040+041+071	----	XE781	5	pg/g	<5.0	[U]
PCB 042	36559-22-5	XE781	5	pg/g	<5.0	[U]
PCB 043	70362-46-8	XE781	5	pg/g	<5.0	[U]
PCB 044+047+065	----	XE781	5	pg/g	<5.0	F,M
PCB 045+051	----	XE781	10	pg/g	<10	[U]
PCB 046	41464-47-5	XE781	5	pg/g	<5.0	[U]
PCB 048	70362-47-9	XE781	5	pg/g	<5.0	[U]
PCB 049+069	----	XE781	5	pg/g	<5.0	[U]
PCB 050+053	----	XE781	10	pg/g	<10	[U]
PCB 052	35693-99-3	XE781	5	pg/g	<5.0	----
PCB 054	15968-05-5	XE781	5	pg/g	<5.0	[U]
PCB 055	74338-24-2	XE781	5	pg/g	<5.0	[U]
PCB 056	41464-43-1	XE781	5	pg/g	<5.0	[U]
PCB 057	70424-67-8	XE781	5	pg/g	<5.0	[U]
PCB 058	41464-49-7	XE781	5	pg/g	<5.0	[U]
PCB 059+062+075	----	XE781	5	pg/g	<5.0	[U]
PCB 060	33025-41-1	XE781	5	pg/g	<5.0	[U]
PCB 061+070+074+076	----	XE781	5	pg/g	<5.0	[U]
PCB 063	74472-34-7	XE781	5	pg/g	<5.0	[U]
PCB 064	52663-58-8	XE781	5	pg/g	<5.0	[U]

Sub-Matrix: **Biota**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polychlorinated Biphenyls (QCLot: 2212575) - continued						
PCB 066	32598-10-0	XE781	5	pg/g	<5.0	[U]
PCB 067	73575-53-8	XE781	5	pg/g	<5.0	[U]
PCB 068	73575-52-7	XE781	5	pg/g	<5.0	[U]
PCB 072	41464-42-0	XE781	5	pg/g	<5.0	[U]
PCB 073	74338-23-1	XE781	5	pg/g	<5.0	[U]
PCB 077	32598-13-3	XE781	5	pg/g	<5.0	[U]
PCB 078	70362-49-1	XE781	5	pg/g	<5.0	[U]
PCB 079	41464-48-6	XE781	5	pg/g	<5.0	[U]
PCB 080	33284-52-5	XE781	5	pg/g	<5.0	[U]
PCB 081	70362-50-4	XE781	5	pg/g	<5.0	[U]
PCB 082	52663-62-4	XE781	5	pg/g	<5.0	[U]
PCB 083+099	----	XE781	20	pg/g	<20	[U],M
PCB 084	52663-60-2	XE781	5	pg/g	<5.0	[U]
PCB 085+110+115+116+117	----	XE781	5	pg/g	<5.0	[U]
PCB 086+087+097+109+119+125	----	XE781	5	pg/g	<5.0	[U]
PCB 088+091	----	XE781	5	pg/g	<5.0	[U]
PCB 089	73575-57-2	XE781	5	pg/g	<5.0	[U]
PCB 090+101+113	----	XE781	20	pg/g	<20	F,M
PCB 092	52663-61-3	XE781	5	pg/g	<5.0	[U]
PCB 093+098+100+102	----	XE781	20	pg/g	<20	[U]
PCB 094	73575-55-0	XE781	5	pg/g	<5.0	[U]
PCB 095	38379-99-6	XE781	5	pg/g	<5.0	[U]
PCB 096	73575-54-9	XE781	5	pg/g	<5.0	[U]
PCB 103	60145-21-3	XE781	5	pg/g	<5.0	[U]
PCB 104	56558-16-8	XE781	5	pg/g	<5.0	[U]
PCB 105	32598-14-4	XE781	5	pg/g	<5.0	[U]
PCB 106	70424-69-0	XE781	5	pg/g	<5.0	[U]
PCB 107	70424-68-9	XE781	5	pg/g	<5.0	[U]
PCB 108+124	----	XE781	10	pg/g	<10	[U]
PCB 111	39635-32-0	XE781	5	pg/g	<5.0	[U]
PCB 112	74472-36-9	XE781	5	pg/g	<5.0	[U]
PCB 114	74472-37-0	XE781	5	pg/g	<5.0	[U]
PCB 118	31508-00-6	XE781	10	pg/g	<10	[U]
PCB 120	68194-12-7	XE781	5	pg/g	<5.0	[U]
PCB 121	56558-18-0	XE781	5	pg/g	<5.0	[U]

Sub-Matrix: **Biota**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polychlorinated Biphenyls (QCLot: 2212575) - continued						
PCB 122	76842-07-4	XE781	5	pg/g	<5.0	[U]
PCB 123	65510-44-3	XE781	5	pg/g	<5.0	[U]
PCB 126	57465-28-8	XE781	5	pg/g	<5.0	[U]
PCB 127	39635-33-1	XE781	5	pg/g	<5.0	[U]
PCB 128+166	----	XE781	10	pg/g	<10	[U]
PCB 129+138+163	----	XE781	10	pg/g	<10	[J],F,M
PCB 130	52663-66-8	XE781	5	pg/g	<5.0	[U]
PCB 131	61798-70-7	XE781	5	pg/g	<5.0	[U]
PCB 132	38380-05-1	XE781	5	pg/g	<5.0	[U]
PCB 133	35694-04-3	XE781	5	pg/g	<5.0	[U]
PCB 134+143	----	XE781	10	pg/g	<10	[U]
PCB 135+151	----	XE781	10	pg/g	<10	[U]
PCB 136	38411-22-2	XE781	5	pg/g	<5.0	[U]
PCB 137+164	----	XE781	5	pg/g	<5.0	[U]
PCB 139+140	----	XE781	10	pg/g	<10	[U]
PCB 141	52712-04-6	XE781	5	pg/g	<5.0	[U]
PCB 142	41411-61-4	XE781	5	pg/g	<5.0	[U]
PCB 144	68194-14-9	XE781	5	pg/g	<5.0	[U]
PCB 145	74472-40-5	XE781	5	pg/g	<5.0	[U]
PCB 146	51908-16-8	XE781	5	pg/g	<5.0	[U]
PCB 147+149	----	XE781	10	pg/g	<10	[U]
PCB 148	74472-41-6	XE781	5	pg/g	<5.0	[U]
PCB 150	68194-08-1	XE781	5	pg/g	<5.0	[U]
PCB 152	68194-09-2	XE781	5	pg/g	<5.0	[U]
PCB 153+168	----	XE781	10	pg/g	<10	[J],F
PCB 154	60145-22-4	XE781	10	pg/g	<10	[U]
PCB 155	33979-03-2	XE781	5	pg/g	<5.0	[U]
PCB 156+157	----	XE781	10	pg/g	<10	[U]
PCB 158	74472-42-7	XE781	5	pg/g	<5.0	[U]
PCB 159	39635-35-3	XE781	5	pg/g	<5.0	[U]
PCB 160	41411-62-5	XE781	10	pg/g	<10	[U]
PCB 161	74472-43-8	XE781	5	pg/g	<5.0	[U]
PCB 162	39635-34-2	XE781	5	pg/g	<5.0	[U]
PCB 165	74472-46-1	XE781	5	pg/g	<5.0	[U]
PCB 167	52663-72-6	XE781	5	pg/g	<5.0	[U]

Sub-Matrix: **Biota**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polychlorinated Biphenyls (QCLot: 2212575) - continued						
PCB 169	32774-16-6	XE781	5	pg/g	<5.0	[U]
PCB 170	35065-30-6	XE781	5	pg/g	<5.0	[U]
PCB 171+173	----	XE781	20	pg/g	<20	[U]
PCB 172	52663-74-8	XE781	5	pg/g	<5.0	[U]
PCB 174	38411-25-5	XE781	5	pg/g	<5.0	[U]
PCB 175	40186-70-7	XE781	5	pg/g	<5.0	[U]
PCB 176	52663-65-7	XE781	5	pg/g	<5.0	[U]
PCB 177	52663-70-4	XE781	5	pg/g	<5.0	[U]
PCB 178	52663-67-9	XE781	5	pg/g	<5.0	[U]
PCB 179	52663-64-6	XE781	5	pg/g	<5.0	[U]
PCB 180+193	----	XE781	10	pg/g	<10	[U]
PCB 181	74472-47-2	XE781	20	pg/g	<20	[U]
PCB 182	60145-23-5	XE781	5	pg/g	<5.0	[U]
PCB 183	52663-69-1	XE781	10	pg/g	<10	[U]
PCB 184	74472-48-3	XE781	5	pg/g	<5.0	[U]
PCB 185	52712-05-7	XE781	10	pg/g	<10	[U]
PCB 186	74472-49-4	XE781	5	pg/g	<5.0	[U]
PCB 187	52663-68-0	XE781	5	pg/g	<5.0	[U]
PCB 188	74487-85-7	XE781	5	pg/g	<5.0	[U]
PCB 189	39635-31-9	XE781	5	pg/g	<5.0	[U]
PCB 190	41411-64-7	XE781	5	pg/g	<5.0	[U]
PCB 191	74472-50-7	XE781	5	pg/g	<5.0	[U]
PCB 192	74472-51-8	XE781	20	pg/g	<20	[U]
PCB 194	35694-08-7	XE781	5	pg/g	<5.0	[U]
PCB 195	52663-78-2	XE781	5	pg/g	<5.0	[U]
PCB 196	42740-50-1	XE781	5	pg/g	<5.0	[U]
PCB 197	33091-17-7	XE781	10	pg/g	<10	[U]
PCB 198+199	----	XE781	10	pg/g	<10	[U]
PCB 200	52663-73-7	XE781	10	pg/g	<10	[U]
PCB 201	40186-71-8	XE781	5	pg/g	<5.0	[U]
PCB 202	2136-99-4	XE781	10	pg/g	<10	[J],F
PCB 203	52663-76-0	XE781	5	pg/g	<5.0	[U]
PCB 204	74472-52-9	XE781	5	pg/g	<5.0	[U]
PCB 205	74472-53-0	XE781	5	pg/g	<5.0	[U]
PCB 206	40186-72-9	XE781	5	pg/g	<5.0	[U]

Sub-Matrix: **Biota**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polychlorinated Biphenyls (QCLot: 2212575) - continued						
PCB 207	52663-79-3	XE781	5	pg/g	<5.0	[U]
PCB 208	52663-77-1	XE781	5	pg/g	<5.0	[U]
PCB 209	2051-24-3	XE781	10	pg/g	<10	[U]
Polychlorinated Biphenyls (QCLot: 2212668)						
PCB 001	2051-60-7	XE781	2	pg/g	<3.1	[U]
PCB 002	2051-61-8	XE781	2	pg/g	<3.1	[U]
PCB 003	2051-62-9	XE781	5	pg/g	<5.0	[U]
PCB 004	13029-08-8	XE781	5	pg/g	<6.8	[U]
PCB 005	16605-91-7	XE781	2	pg/g	<2.8	[U]
PCB 006	25569-80-6	XE781	2	pg/g	<3.1	[U]
PCB 007	33284-50-3	XE781	2	pg/g	<2.7	[U]
PCB 008	34883-43-7	XE781	5	pg/g	<5.0	[U]
PCB 009	34883-39-1	XE781	2	pg/g	<3.2	[U]
PCB 010	33146-45-1	XE781	5	pg/g	<5.0	[U]
PCB 011	2050-67-1	XE781	25	pg/g	# 158	----
PCB 012+013	n/a	XE781	5	pg/g	<5.0	[U]
PCB 014	34883-41-5	XE781	2	pg/g	<4.4	[U]
PCB 015	2050-68-2	XE781	5	pg/g	<5.0	[U]
PCB 016	38444-78-9	XE781	2	pg/g	<3.4	[U]
PCB 017	37680-66-3	XE781	2	pg/g	<2.8	[U]
PCB 018+030	----	XE781	5	pg/g	<5.0	F,M
PCB 019	38444-73-4	XE781	2	pg/g	<3.0	[U]
PCB 020+028	----	XE781	5	pg/g	# 7.98	M
PCB 021+033	----	XE781	5	pg/g	<5.0	F
PCB 022	38444-85-8	XE781	2	pg/g	<3.1	F
PCB 023	55720-44-0	XE781	2	pg/g	<2.9	[U]
PCB 024	55702-45-9	XE781	2	pg/g	<2.0	[U]
PCB 025	55712-37-3	XE781	2	pg/g	<3.1	[U]
PCB 026+029	----	XE781	5	pg/g	<5.0	[U]
PCB 027	38444-76-7	XE781	2	pg/g	<2.2	[U]
PCB 031	16606-02-3	XE781	5	pg/g	# 6.60	----
PCB 032	38444-77-8	XE781	2	pg/g	<2.0	[U]
PCB 034	37680-68-5	XE781	2	pg/g	<3.2	[U]
PCB 035	37680-69-6	XE781	2	pg/g	<3.1	[U]
PCB 036	38444-87-0	XE781	2	pg/g	<2.9	[U]

Sub-Matrix: **Biota**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polychlorinated Biphenyls (QCLot: 2212668) - continued						
PCB 037	38444-90-5	XE781	2	pg/g	<2.4	[U]
PCB 038	53555-66-1	XE781	2	pg/g	<3.1	[U]
PCB 039	38444-88-1	XE781	2	pg/g	<2.6	[U]
PCB 040+041+071	----	XE781	5	pg/g	<5.0	[U]
PCB 042	36559-22-5	XE781	5	pg/g	<5.0	[U]
PCB 043	70362-46-8	XE781	5	pg/g	<5.0	[U]
PCB 044+047+065	----	XE781	5	pg/g	# 18.9	----
PCB 045+051	----	XE781	10	pg/g	<10	[U]
PCB 046	41464-47-5	XE781	5	pg/g	<5.0	[U]
PCB 048	70362-47-9	XE781	5	pg/g	<5.0	[U]
PCB 049+069	----	XE781	5	pg/g	<5.0	F,M
PCB 050+053	----	XE781	10	pg/g	<10	[U]
PCB 052	35693-99-3	XE781	5	pg/g	# 7.95	----
PCB 054	15968-05-5	XE781	5	pg/g	<5.0	[U]
PCB 055	74338-24-2	XE781	5	pg/g	<5.0	[U]
PCB 056	41464-43-1	XE781	5	pg/g	<5.0	[U]
PCB 057	70424-67-8	XE781	5	pg/g	<5.0	[U]
PCB 058	41464-49-7	XE781	5	pg/g	<5.0	[U]
PCB 059+062+075	----	XE781	5	pg/g	<5.0	[U]
PCB 060	33025-41-1	XE781	5	pg/g	<5.0	[U]
PCB 061+070+074+076	----	XE781	5	pg/g	8.02	M
PCB 063	74472-34-7	XE781	5	pg/g	<5.0	[U]
PCB 064	52663-58-8	XE781	5	pg/g	<5.0	----
PCB 066	32598-10-0	XE781	5	pg/g	<5.0	[U]
PCB 067	73575-53-8	XE781	5	pg/g	<5.0	[U]
PCB 068	73575-52-7	XE781	5	pg/g	<5.0	[U]
PCB 072	41464-42-0	XE781	5	pg/g	<5.0	[U]
PCB 073	74338-23-1	XE781	5	pg/g	<5.0	[U]
PCB 077	32598-13-3	XE781	5	pg/g	<5.0	[U]
PCB 078	70362-49-1	XE781	5	pg/g	<5.0	[U]
PCB 079	41464-48-6	XE781	5	pg/g	<5.0	[U]
PCB 080	33284-52-5	XE781	5	pg/g	<5.0	[U]
PCB 081	70362-50-4	XE781	5	pg/g	<5.0	[U]
PCB 082	52663-62-4	XE781	5	pg/g	<5.0	[U]
PCB 083+099	----	XE781	20	pg/g	<20	----

Sub-Matrix: **Biota**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polychlorinated Biphenyls (QCLot: 2212668) - continued						
PCB 084	52663-60-2	XE781	5	pg/g	<5.0	[U]
PCB 085+110+115+116+117	----	XE781	5	pg/g	# 7.64	----
PCB 086+087+097+109+119+125	----	XE781	5	pg/g	<5.0	F,M
PCB 088+091	----	XE781	5	pg/g	<5.0	[U]
PCB 089	73575-57-2	XE781	5	pg/g	<5.0	[U]
PCB 090+101+113	----	XE781	20	pg/g	<20	F
PCB 092	52663-61-3	XE781	5	pg/g	<5.0	[U]
PCB 093+098+100+102	----	XE781	20	pg/g	<20	[U]
PCB 094	73575-55-0	XE781	5	pg/g	<5.0	[U]
PCB 095	38379-99-6	XE781	5	pg/g	<5.0	[U]
PCB 096	73575-54-9	XE781	5	pg/g	<5.0	[U]
PCB 103	60145-21-3	XE781	5	pg/g	<5.0	[U]
PCB 104	56558-16-8	XE781	5	pg/g	<5.0	[U]
PCB 105	32598-14-4	XE781	5	pg/g	<5.0	F
PCB 106	70424-69-0	XE781	5	pg/g	<5.0	[U]
PCB 107	70424-68-9	XE781	5	pg/g	<5.0	[U]
PCB 108+124	----	XE781	10	pg/g	<10	[U]
PCB 111	39635-32-0	XE781	5	pg/g	<5.0	[U]
PCB 112	74472-36-9	XE781	5	pg/g	<5.0	[U]
PCB 114	74472-37-0	XE781	5	pg/g	<5.0	[U]
PCB 118	31508-00-6	XE781	10	pg/g	<10	F
PCB 120	68194-12-7	XE781	5	pg/g	<5.0	[U]
PCB 121	56558-18-0	XE781	5	pg/g	<5.0	[U]
PCB 122	76842-07-4	XE781	5	pg/g	<5.0	[U]
PCB 123	65510-44-3	XE781	5	pg/g	<5.0	[U]
PCB 126	57465-28-8	XE781	5	pg/g	<5.0	[U]
PCB 127	39635-33-1	XE781	5	pg/g	<5.0	[U]
PCB 128+166	----	XE781	10	pg/g	<10	[U]
PCB 129+138+163	----	XE781	10	pg/g	<10	M
PCB 130	52663-66-8	XE781	5	pg/g	<5.0	[U]
PCB 131	61798-70-7	XE781	5	pg/g	<5.0	[U]
PCB 132	38380-05-1	XE781	5	pg/g	<5.0	F
PCB 133	35694-04-3	XE781	5	pg/g	<5.0	[U]
PCB 134+143	----	XE781	10	pg/g	<10	[U]
PCB 135+151	----	XE781	10	pg/g	<10	F

Sub-Matrix: **Biota**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polychlorinated Biphenyls (QCLot: 2212668) - continued						
PCB 136	38411-22-2	XE781	5	pg/g	<5.0	[U]
PCB 137+164	----	XE781	5	pg/g	<5.0	[U]
PCB 139+140	----	XE781	10	pg/g	<10	[U]
PCB 141	52712-04-6	XE781	5	pg/g	<5.0	----
PCB 142	41411-61-4	XE781	5	pg/g	<5.0	[U]
PCB 144	68194-14-9	XE781	5	pg/g	<5.0	[U]
PCB 145	74472-40-5	XE781	5	pg/g	<5.0	[U]
PCB 146	51908-16-8	XE781	5	pg/g	<5.0	[U]
PCB 147+149	----	XE781	10	pg/g	<10	F
PCB 148	74472-41-6	XE781	5	pg/g	<5.0	[U]
PCB 150	68194-08-1	XE781	5	pg/g	<5.0	[U]
PCB 152	68194-09-2	XE781	5	pg/g	<5.0	[U]
PCB 153+168	----	XE781	10	pg/g	<10	----
PCB 154	60145-22-4	XE781	10	pg/g	<10	[U]
PCB 155	33979-03-2	XE781	5	pg/g	<5.0	[U]
PCB 156+157	----	XE781	10	pg/g	<10	[U]
PCB 158	74472-42-7	XE781	5	pg/g	<5.0	[U]
PCB 159	39635-35-3	XE781	5	pg/g	<5.0	[U]
PCB 160	41411-62-5	XE781	10	pg/g	<10	[U]
PCB 161	74472-43-8	XE781	5	pg/g	<5.0	[U]
PCB 162	39635-34-2	XE781	5	pg/g	<5.0	[U]
PCB 165	74472-46-1	XE781	5	pg/g	<5.0	[U]
PCB 167	52663-72-6	XE781	5	pg/g	<5.0	[U]
PCB 169	32774-16-6	XE781	5	pg/g	<5.0	[U]
PCB 170	35065-30-6	XE781	5	pg/g	<5.0	[U]
PCB 171+173	----	XE781	20	pg/g	<20	[U]
PCB 172	52663-74-8	XE781	5	pg/g	<5.0	[U]
PCB 174	38411-25-5	XE781	5	pg/g	<5.0	F,M
PCB 175	40186-70-7	XE781	5	pg/g	<5.0	[U]
PCB 176	52663-65-7	XE781	5	pg/g	<5.0	[U]
PCB 177	52663-70-4	XE781	5	pg/g	<5.0	[U]
PCB 178	52663-67-9	XE781	5	pg/g	<5.0	[U]
PCB 179	52663-64-6	XE781	5	pg/g	<5.0	[U]
PCB 180+193	----	XE781	10	pg/g	<10	F,M
PCB 181	74472-47-2	XE781	20	pg/g	<20	[U]

Sub-Matrix: **Biota**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polychlorinated Biphenyls (QCLot: 2212668) - continued						
PCB 182	60145-23-5	XE781	5	pg/g	<5.0	[U]
PCB 183	52663-69-1	XE781	10	pg/g	<10	[U]
PCB 184	74472-48-3	XE781	5	pg/g	<5.0	[U]
PCB 185	52712-05-7	XE781	10	pg/g	<10	[U]
PCB 186	74472-49-4	XE781	5	pg/g	<5.0	[U]
PCB 187	52663-68-0	XE781	5	pg/g	<5.0	----
PCB 188	74487-85-7	XE781	5	pg/g	<5.0	[U]
PCB 189	39635-31-9	XE781	5	pg/g	<5.0	[U]
PCB 190	41411-64-7	XE781	5	pg/g	<5.0	[U]
PCB 191	74472-50-7	XE781	5	pg/g	<5.0	[U]
PCB 192	74472-51-8	XE781	20	pg/g	<20	[U]
PCB 194	35694-08-7	XE781	5	pg/g	<5.0	[U]
PCB 195	52663-78-2	XE781	5	pg/g	<5.0	[U]
PCB 196	42740-50-1	XE781	5	pg/g	<5.0	[U]
PCB 197	33091-17-7	XE781	10	pg/g	<10	[U]
PCB 198+199	----	XE781	10	pg/g	<10	[U]
PCB 200	52663-73-7	XE781	10	pg/g	<10	[U]
PCB 201	40186-71-8	XE781	5	pg/g	<5.0	[U]
PCB 202	2136-99-4	XE781	10	pg/g	<10	[U]
PCB 203	52663-76-0	XE781	5	pg/g	<5.0	[U]
PCB 204	74472-52-9	XE781	5	pg/g	<5.0	[U]
PCB 205	74472-53-0	XE781	5	pg/g	<5.0	[U]
PCB 206	40186-72-9	XE781	5	pg/g	<6.7	[U]
PCB 207	52663-79-3	XE781	5	pg/g	<5.0	[U]
PCB 208	52663-77-1	XE781	5	pg/g	<5.0	[U]
PCB 209	2051-24-3	XE781	10	pg/g	<10	[U]

Qualifiers

Qualifier	Description
[J]	*Estimated value. The reported concentration is below the calibrated range of the instrument but above the EDL.*
[U]	*The analyte was not detected above the EDL (or LOR where applicable).*
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: 2122377)									
Moisture	----	E144	0.5	%	50 %	101	90.0	110	----
Physical Tests (QCLot: 2122457)									
Moisture	----	E144	0.5	%	50 %	99.8	90.0	110	----
Dioxins and Furans (QCLot: 2212577)									
HpCDD, 1,2,3,4,6,7,8-	35822-46-9	XE766	1	pg/g	97.3 pg/g	96.8	70.0	140	----
HpCDF, 1,2,3,4,6,7,8-	67562-39-4	XE766	2	pg/g	97.3 pg/g	98.6	82.0	122	----
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	XE766	1	pg/g	97.3 pg/g	95.2	78.0	138	----
HxCDD, 1,2,3,4,7,8-	39227-28-6	XE766	1	pg/g	97.3 pg/g	98.6	70.0	164	----
HxCDD, 1,2,3,6,7,8-	57653-85-7	XE766	1	pg/g	97.3 pg/g	94.7	76.0	134	----
HxCDD, 1,2,3,7,8,9-	19408-74-3	XE766	1	pg/g	97.3 pg/g	92.1	64.0	162	----
HxCDF, 1,2,3,4,7,8-	70648-26-9	XE766	1	pg/g	97.3 pg/g	92.6	72.0	134	----
HxCDF, 1,2,3,6,7,8-	57117-44-9	XE766	1	pg/g	97.3 pg/g	94.3	84.0	130	----
HxCDF, 1,2,3,7,8,9-	72918-21-9	XE766	1	pg/g	97.3 pg/g	95.0	78.0	130	----
HxCDF, 2,3,4,6,7,8-	60851-34-5	XE766	1	pg/g	97.3 pg/g	94.3	70.0	156	----
OCDD	3268-87-9	XE766	2	pg/g	195 pg/g	95.2	78.0	144	----
OCDF	39001-02-0	XE766	2	pg/g	195 pg/g	102	63.0	170	----
PeCDD, 1,2,3,7,8-	40321-76-4	XE766	1	pg/g	97.3 pg/g	96.6	70.0	142	----
PeCDF, 1,2,3,7,8-	57117-41-6	XE766	1	pg/g	97.3 pg/g	97.6	80.0	134	----
PeCDF, 2,3,4,7,8-	57117-31-4	XE766	1	pg/g	97.3 pg/g	93.8	68.0	160	----
TCDD, 2,3,7,8-	1746-01-6	XE766	1	pg/g	19.5 pg/g	81.1	67.0	158	----
TCDF, 2,3,7,8-	51207-31-9	XE766	1	pg/g	19.5 pg/g	97.5	75.0	158	----
Dioxins and Furans (QCLot: 2212669)									
HpCDD, 1,2,3,4,6,7,8-	35822-46-9	XE766	1	pg/g	888 pg/g	102	70.0	140	----
HpCDF, 1,2,3,4,6,7,8-	67562-39-4	XE766	2	pg/g	888 pg/g	107	82.0	122	----
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	XE766	1	pg/g	888 pg/g	102	78.0	138	----
HxCDD, 1,2,3,4,7,8-	39227-28-6	XE766	1	pg/g	888 pg/g	99.2	70.0	164	----
HxCDD, 1,2,3,6,7,8-	57653-85-7	XE766	1	pg/g	888 pg/g	94.8	76.0	134	----
HxCDD, 1,2,3,7,8,9-	19408-74-3	XE766	1	pg/g	888 pg/g	99.9	64.0	162	----
HxCDF, 1,2,3,4,7,8-	70648-26-9	XE766	1	pg/g	888 pg/g	93.0	72.0	134	----
HxCDF, 1,2,3,6,7,8-	57117-44-9	XE766	1	pg/g	888 pg/g	101	84.0	130	----
HxCDF, 1,2,3,7,8,9-	72918-21-9	XE766	1	pg/g	888 pg/g	98.8	78.0	130	----
HxCDF, 2,3,4,6,7,8-	60851-34-5	XE766	1	pg/g	888 pg/g	100	70.0	156	----

Sub-Matrix: **Biota**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Dioxins and Furans (QCLot: 2212669) - continued									
OCDD	3268-87-9	XE766	2	pg/g	1780 pg/g	98.8	78.0	144	----
OCDF	39001-02-0	XE766	2	pg/g	1780 pg/g	99.8	63.0	170	----
PeCDD, 1,2,3,7,8-	40321-76-4	XE766	1	pg/g	888 pg/g	101	70.0	142	----
PeCDF, 1,2,3,7,8-	57117-41-6	XE766	1	pg/g	888 pg/g	101	80.0	134	----
PeCDF, 2,3,4,7,8-	57117-31-4	XE766	1	pg/g	888 pg/g	97.4	68.0	160	----
TCDD, 2,3,7,8-	1746-01-6	XE766	1	pg/g	178 pg/g	90.7	67.0	158	----
TCDF, 2,3,7,8-	51207-31-9	XE766	1	pg/g	178 pg/g	97.7	75.0	158	----
Polychlorinated Biphenyls (QCLot: 2212575)									
PCB 001	2051-60-7	XE781	2	pg/g	97.3 pg/g	115	60.0	135	----
PCB 003	2051-62-9	XE781	5	pg/g	97.3 pg/g	109	60.0	135	----
PCB 004	13029-08-8	XE781	5	pg/g	97.3 pg/g	109	60.0	135	----
PCB 015	2050-68-2	XE781	5	pg/g	97.3 pg/g	109	60.0	135	----
PCB 019	38444-73-4	XE781	2	pg/g	97.3 pg/g	82.3	60.0	135	----
PCB 037	38444-90-5	XE781	2	pg/g	97.3 pg/g	95.4	60.0	135	----
PCB 054	15968-05-5	XE781	5	pg/g	97.3 pg/g	102	60.0	135	----
PCB 077	32598-13-3	XE781	5	pg/g	97.3 pg/g	104	60.0	135	----
PCB 081	70362-50-4	XE781	5	pg/g	97.3 pg/g	99.1	60.0	135	----
PCB 104	56558-16-8	XE781	5	pg/g	97.3 pg/g	92.9	60.0	135	----
PCB 105	32598-14-4	XE781	5	pg/g	97.3 pg/g	99.2	60.0	135	----
PCB 114	74472-37-0	XE781	5	pg/g	97.3 pg/g	95.2	60.0	135	----
PCB 118	31508-00-6	XE781	10	pg/g	97.3 pg/g	95.2	60.0	135	----
PCB 123	65510-44-3	XE781	5	pg/g	97.3 pg/g	99.1	60.0	135	----
PCB 126	57465-28-8	XE781	5	pg/g	97.3 pg/g	91.9	60.0	135	----
PCB 155	33979-03-2	XE781	5	pg/g	97.3 pg/g	97.2	60.0	135	----
PCB 156+157	----	XE781	10	pg/g	195 pg/g	93.0	60.0	135	----
PCB 167	52663-72-6	XE781	5	pg/g	97.3 pg/g	91.4	60.0	135	----
PCB 169	32774-16-6	XE781	5	pg/g	97.3 pg/g	91.1	60.0	135	----
PCB 188	74487-85-7	XE781	5	pg/g	97.3 pg/g	99.8	60.0	135	----
PCB 189	39635-31-9	XE781	5	pg/g	97.3 pg/g	99.8	60.0	135	----
PCB 202	2136-99-4	XE781	10	pg/g	97.3 pg/g	92.8	60.0	135	----
PCB 205	74472-53-0	XE781	5	pg/g	97.3 pg/g	105	60.0	135	----
PCB 206	40186-72-9	XE781	5	pg/g	97.3 pg/g	94.8	60.0	135	----
PCB 208	52663-77-1	XE781	5	pg/g	97.3 pg/g	88.6	60.0	135	----
PCB 209	2051-24-3	XE781	10	pg/g	97.3 pg/g	115	60.0	135	----
Polychlorinated Biphenyls (QCLot: 2212668)									

Sub-Matrix: **Biota**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Polychlorinated Biphenyls (QCLot: 2212668) - continued									
PCB 001	2051-60-7	XE781	2	pg/g	888 pg/g	97.9	60.0	135	----
PCB 003	2051-62-9	XE781	5	pg/g	888 pg/g	95.0	60.0	135	----
PCB 004	13029-08-8	XE781	5	pg/g	888 pg/g	97.2	60.0	135	----
PCB 015	2050-68-2	XE781	5	pg/g	888 pg/g	98.9	60.0	135	----
PCB 019	38444-73-4	XE781	2	pg/g	888 pg/g	72.6	60.0	135	----
PCB 037	38444-90-5	XE781	2	pg/g	888 pg/g	96.6	60.0	135	----
PCB 054	15968-05-5	XE781	5	pg/g	888 pg/g	103	60.0	135	----
PCB 077	32598-13-3	XE781	5	pg/g	888 pg/g	97.0	60.0	135	----
PCB 081	70362-50-4	XE781	5	pg/g	888 pg/g	96.8	60.0	135	----
PCB 104	56558-16-8	XE781	5	pg/g	888 pg/g	97.1	60.0	135	----
PCB 105	32598-14-4	XE781	5	pg/g	888 pg/g	90.8	60.0	135	----
PCB 114	74472-37-0	XE781	5	pg/g	888 pg/g	95.4	60.0	135	----
PCB 118	31508-00-6	XE781	10	pg/g	888 pg/g	85.4	60.0	135	----
PCB 123	65510-44-3	XE781	5	pg/g	888 pg/g	96.8	60.0	135	----
PCB 126	57465-28-8	XE781	5	pg/g	888 pg/g	96.5	60.0	135	----
PCB 155	33979-03-2	XE781	5	pg/g	888 pg/g	93.6	60.0	135	----
PCB 156+157	----	XE781	10	pg/g	1780 pg/g	99.2	60.0	135	----
PCB 167	52663-72-6	XE781	5	pg/g	888 pg/g	98.0	60.0	135	----
PCB 169	32774-16-6	XE781	5	pg/g	888 pg/g	104	60.0	135	----
PCB 188	74487-85-7	XE781	5	pg/g	888 pg/g	88.3	60.0	135	----
PCB 189	39635-31-9	XE781	5	pg/g	888 pg/g	113	60.0	135	----
PCB 202	2136-99-4	XE781	10	pg/g	888 pg/g	105	60.0	135	----
PCB 205	74472-53-0	XE781	5	pg/g	888 pg/g	89.8	60.0	135	----
PCB 206	40186-72-9	XE781	5	pg/g	888 pg/g	88.3	60.0	135	----
PCB 208	52663-77-1	XE781	5	pg/g	888 pg/g	87.1	60.0	135	----
PCB 209	2051-24-3	XE781	10	pg/g	888 pg/g	114	60.0	135	----

Matrix Spike (MS) Report

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

Sub-Matrix: **Biota**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Sample Preparation (QCLot: 2212575)										
BU2501974-001	15867250616001	Weight, extraction (wet)	----	EP800	----	----		0	0	----
Sample Preparation (QCLot: 2212577)										
BU2501974-001	15867250616001	Weight, extraction (wet)	----	EP800	----	----		0	0	----
Sample Preparation (QCLot: 2212668)										
BU2501974-002	15867250616101	Weight, extraction (wet)	----	EP800	----	----		0	0	----
Sample Preparation (QCLot: 2212669)										
BU2501974-002	15867250616101	Weight, extraction (wet)	----	EP800	----	----		0	0	----
Dioxins and Furans (QCLot: 2212577)										
BU2501974-001	15867250616001	HpCDD, 1,2,3,4,6,7,8-	35822-46-9	XE766	102 pg/g	95.7 pg/g	106	70.0	140	----
		HpCDF, 1,2,3,4,6,7,8-	67562-39-4	XE766	93.4 pg/g	95.7 pg/g	97.6	82.0	122	----
		HpCDF, 1,2,3,4,7,8,9-	55673-89-7	XE766	93.9 pg/g	95.7 pg/g	98.1	78.0	138	----
		HxCDD, 1,2,3,4,7,8-	39227-28-6	XE766	93.9 pg/g	95.7 pg/g	98.1	70.0	164	----
		HxCDD, 1,2,3,6,7,8-	57653-85-7	XE766	90.4 pg/g	95.7 pg/g	94.5	76.0	134	----
		HxCDD, 1,2,3,7,8,9-	19408-74-3	XE766	91.1 pg/g	95.7 pg/g	95.2	64.0	162	----
		HxCDF, 1,2,3,4,7,8-	70648-26-9	XE766	89.1 pg/g	95.7 pg/g	93.1	72.0	134	----
		HxCDF, 1,2,3,6,7,8-	57117-44-9	XE766	90.2 pg/g	95.7 pg/g	94.3	84.0	130	----
		HxCDF, 1,2,3,7,8,9-	72918-21-9	XE766	92.4 pg/g	95.7 pg/g	96.6	78.0	130	----
		HxCDF, 2,3,4,6,7,8-	60851-34-5	XE766	92.7 pg/g	95.7 pg/g	96.8	70.0	156	----
		OCDD	3268-87-9	XE766	182 pg/g	191 pg/g	95.3	78.0	144	----
		OCDF	39001-02-0	XE766	193 pg/g	191 pg/g	101	63.0	170	----
		PeCDD, 1,2,3,7,8-	40321-76-4	XE766	95.1 pg/g	95.7 pg/g	99.4	70.0	142	----
		PeCDF, 1,2,3,7,8-	57117-41-6	XE766	97.5 pg/g	95.7 pg/g	102	80.0	134	----
		PeCDF, 2,3,4,7,8-	57117-31-4	XE766	89.3 pg/g	95.7 pg/g	93.3	68.0	160	----
		TCDD, 2,3,7,8-	1746-01-6	XE766	15.6 pg/g	19.1 pg/g	81.7	67.0	158	----
		TCDF, 2,3,7,8-	51207-31-9	XE766	18.9 pg/g	19.1 pg/g	98.8	75.0	158	----
Dioxins and Furans (QCLot: 2212669)										
BU2501974-002	15867250616101	HpCDD, 1,2,3,4,6,7,8-	35822-46-9	XE766	854 pg/g	886 pg/g	96.4	70.0	140	----
		HpCDF, 1,2,3,4,6,7,8-	67562-39-4	XE766	917 pg/g	886 pg/g	103	82.0	122	----
		HpCDF, 1,2,3,4,7,8,9-	55673-89-7	XE766	918 pg/g	886 pg/g	104	78.0	138	----
		HxCDD, 1,2,3,4,7,8-	39227-28-6	XE766	853 pg/g	886 pg/g	96.2	70.0	164	----
		HxCDD, 1,2,3,6,7,8-	57653-85-7	XE766	850 pg/g	886 pg/g	95.8	76.0	134	----
		HxCDD, 1,2,3,7,8,9-	19408-74-3	XE766	876 pg/g	886 pg/g	98.8	64.0	162	----
		HxCDF, 1,2,3,4,7,8-	70648-26-9	XE766	833 pg/g	886 pg/g	93.9	72.0	134	----
		HxCDF, 1,2,3,6,7,8-	57117-44-9	XE766	867 pg/g	886 pg/g	97.8	84.0	130	----
		HxCDF, 1,2,3,7,8,9-	72918-21-9	XE766	846 pg/g	886 pg/g	95.4	78.0	130	----
		HxCDF, 2,3,4,6,7,8-	60851-34-5	XE766	881 pg/g	886 pg/g	99.4	70.0	156	----
		OCDD	3268-87-9	XE766	1670 pg/g	1770 pg/g	94.0	78.0	144	----

Sub-Matrix: **Biota**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Dioxins and Furans (QCLot: 2212669) - continued										
BU2501974-002	15867250616101	OCDF	39001-02-0	XE766	1720 pg/g	1770 pg/g	96.9	63.0	170	----
		PeCDD, 1,2,3,7,8-	40321-76-4	XE766	876 pg/g	886 pg/g	98.8	70.0	142	----
		PeCDF, 1,2,3,7,8-	57117-41-6	XE766	892 pg/g	886 pg/g	100	80.0	134	----
		PeCDF, 2,3,4,7,8-	57117-31-4	XE766	826 pg/g	886 pg/g	93.2	68.0	160	----
		TCDD, 2,3,7,8-	1746-01-6	XE766	167 pg/g	177 pg/g	94.2	67.0	158	----
		TCDF, 2,3,7,8-	51207-31-9	XE766	167 pg/g	177 pg/g	94.4	75.0	158	----
Polychlorinated Biphenyls (QCLot: 2212575)										
BU2501974-001	15867250616001	PCB 001	2051-60-7	XE781	110 pg/g	95.7 pg/g	114	60.0	135	----
		PCB 003	2051-62-9	XE781	103 pg/g	95.7 pg/g	107	60.0	135	----
		PCB 004	13029-08-8	XE781	103 pg/g	95.7 pg/g	108	60.0	135	----
		PCB 015	2050-68-2	XE781	99.4 pg/g	95.7 pg/g	104	60.0	135	----
		PCB 019	38444-73-4	XE781	89.5 pg/g	95.7 pg/g	93.6	60.0	135	----
		PCB 037	38444-90-5	XE781	102 pg/g	95.7 pg/g	106	60.0	135	----
		PCB 054	15968-05-5	XE781	92.0 pg/g	95.7 pg/g	96.2	60.0	135	----
		PCB 077	32598-13-3	XE781	88.8 pg/g	95.7 pg/g	92.8	60.0	135	----
		PCB 081	70362-50-4	XE781	92.2 pg/g	95.7 pg/g	96.4	60.0	135	----
		PCB 104	56558-16-8	XE781	89.8 pg/g	95.7 pg/g	93.8	60.0	135	----
		PCB 105	32598-14-4	XE781	86.7 pg/g	95.7 pg/g	90.6	60.0	135	----
		PCB 114	74472-37-0	XE781	99.0 pg/g	95.7 pg/g	103	60.0	135	----
		PCB 118	31508-00-6	XE781	88.1 pg/g	95.7 pg/g	92.1	60.0	135	----
		PCB 123	65510-44-3	XE781	100 pg/g	95.7 pg/g	104	60.0	135	----
		PCB 126	57465-28-8	XE781	97.0 pg/g	95.7 pg/g	101	60.0	135	----
		PCB 155	33979-03-2	XE781	91.7 pg/g	95.7 pg/g	95.8	60.0	135	----
		PCB 156+157	----	XE781	176 pg/g	191 pg/g	92.2	60.0	135	----
		PCB 167	52663-72-6	XE781	94.9 pg/g	95.7 pg/g	99.2	60.0	135	----
		PCB 169	32774-16-6	XE781	86.8 pg/g	95.7 pg/g	90.7	60.0	135	----
		PCB 188	74487-85-7	XE781	91.9 pg/g	95.7 pg/g	96.0	60.0	135	----
		PCB 189	39635-31-9	XE781	100 pg/g	95.7 pg/g	105	60.0	135	----
		PCB 202	2136-99-4	XE781	96.4 pg/g	95.7 pg/g	101	60.0	135	----
		PCB 205	74472-53-0	XE781	99.3 pg/g	95.7 pg/g	104	60.0	135	----
		PCB 206	40186-72-9	XE781	93.7 pg/g	95.7 pg/g	97.9	60.0	135	----
		PCB 208	52663-77-1	XE781	86.1 pg/g	95.7 pg/g	90.0	60.0	135	----
		PCB 209	2051-24-3	XE781	111 pg/g	95.7 pg/g	116	60.0	135	----
Polychlorinated Biphenyls (QCLot: 2212668)										
BU2501974-002	15867250616101	PCB 001	2051-60-7	XE781	874 pg/g	886 pg/g	98.6	60.0	135	----
		PCB 003	2051-62-9	XE781	817 pg/g	886 pg/g	92.2	60.0	135	----
		PCB 004	13029-08-8	XE781	834 pg/g	886 pg/g	94.0	60.0	135	----
		PCB 015	2050-68-2	XE781	900 pg/g	886 pg/g	102	60.0	135	----
		PCB 019	38444-73-4	XE781	630 pg/g	886 pg/g	71.0	60.0	135	----
		PCB 037	38444-90-5	XE781	846 pg/g	886 pg/g	95.4	60.0	135	----
		PCB 054	15968-05-5	XE781	938 pg/g	886 pg/g	106	60.0	135	----
		PCB 077	32598-13-3	XE781	869 pg/g	886 pg/g	98.1	60.0	135	----
		PCB 081	70362-50-4	XE781	857 pg/g	886 pg/g	96.7	60.0	135	----

Sub-Matrix: **Biota**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Polychlorinated Biphenyls (QCLot: 2212668) - continued										
BU2501974-002	15867250616101	PCB 104	56558-16-8	XE781	918 pg/g	886 pg/g	104	60.0	135	----
		PCB 105	32598-14-4	XE781	796 pg/g	886 pg/g	89.8	60.0	135	----
		PCB 114	74472-37-0	XE781	856 pg/g	886 pg/g	96.6	60.0	135	----
		PCB 118	31508-00-6	XE781	764 pg/g	886 pg/g	86.2	60.0	135	----
		PCB 123	65510-44-3	XE781	854 pg/g	886 pg/g	96.3	60.0	135	----
		PCB 126	57465-28-8	XE781	833 pg/g	886 pg/g	94.0	60.0	135	----
		PCB 155	33979-03-2	XE781	792 pg/g	886 pg/g	89.4	60.0	135	----
		PCB 156+157	----	XE781	1750 pg/g	1770 pg/g	98.6	60.0	135	----
		PCB 167	52663-72-6	XE781	870 pg/g	886 pg/g	98.2	60.0	135	----
		PCB 169	32774-16-6	XE781	883 pg/g	886 pg/g	99.6	60.0	135	----
		PCB 188	74487-85-7	XE781	819 pg/g	886 pg/g	92.4	60.0	135	----
		PCB 189	39635-31-9	XE781	1000 pg/g	886 pg/g	113	60.0	135	----
		PCB 202	2136-99-4	XE781	916 pg/g	886 pg/g	103	60.0	135	----
		PCB 205	74472-53-0	XE781	813 pg/g	886 pg/g	91.7	60.0	135	----
		PCB 206	40186-72-9	XE781	767 pg/g	886 pg/g	86.5	60.0	135	----
		PCB 208	52663-77-1	XE781	763 pg/g	886 pg/g	86.0	60.0	135	----
		PCB 209	2051-24-3	XE781	1000 pg/g	886 pg/g	113	60.0	135	----

Matrix Spike Duplicate (MSD) Report

A Matrix Spike Duplicate (MSD) is a duplicate of a Matrix Spike (MS), which has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spike Duplicates provide information regarding method precision. ALS DQOs for Matrix Spike Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD).

Sub-Matrix: **Biota**

					Matrix Spike Duplicate (MSD) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*MSD Result*	*RPD(%) or Difference*	*MSD Limits*	*Qualifier*
Sample Preparation (QC Lot: 2212575)											
QC-221257-005		Weight, extraction (wet)	----	EP800	0.0001	g	10.4495	10.4488	----%	Diff <2x LOR	----
Sample Preparation (QC Lot: 2212577)											
QC-221257-005		Weight, extraction (wet)	----	EP800	0.0001	g	10.4495	10.4488	----%	Diff <2x LOR	----
Sample Preparation (QC Lot: 2212668)											
QC-221266-005		Weight, extraction (wet)	----	EP800	0.0001	g	1.1282	1.0613	----%	Diff <2x LOR	----
Sample Preparation (QC Lot: 2212669)											
QC-221266-005		Weight, extraction (wet)	----	EP800	0.0001	g	1.1282	1.0613	----%	Diff <2x LOR	----
Dioxins and Furans (QC Lot: 2212577)											
QC-MRG2-2-005		HpCDD, 1,2,3,4,6,7,8-	35822-46-9	XE766	1.0	pg/g	102	102	0.939%	25%	----
		HpCDF, 1,2,3,4,6,7,8-	67562-39-4	XE766	2.0	pg/g	93.6	93.9	0.307%	25%	----
		HpCDF, 1,2,3,4,7,8,9-	55673-89-7	XE766	1.0	pg/g	93.9	92.8	1.13%	25%	----
		HxCDD, 1,2,3,4,7,8-	39227-28-6	XE766	1.0	pg/g	93.9	96.2	1.92%	25%	----
		HxCDD, 1,2,3,6,7,8-	57653-85-7	XE766	1.0	pg/g	90.4	91.6	1.26%	25%	----
		HxCDD, 1,2,3,7,8,9-	19408-74-3	XE766	1.0	pg/g	91.1	91.2	0.105%	25%	----
		HxCDF, 1,2,3,4,7,8-	70648-26-9	XE766	1.0	pg/g	89.1	91.7	2.86%	25%	----
		HxCDF, 1,2,3,6,7,8-	57117-44-9	XE766	1.0	pg/g	90.3	92.5	2.41%	25%	----
		HxCDF, 1,2,3,7,8,9-	72918-21-9	XE766	1.0	pg/g	92.4	96.9	4.45%	25%	----
		HxCDF, 2,3,4,6,7,8-	60851-34-5	XE766	1.0	pg/g	92.7	92.7	0.103%	25%	----
		OCDD	3268-87-9	XE766	2.0	pg/g	184	192	4.41%	25%	----
		OCDF	39001-02-0	XE766	2.0	pg/g	193	199	2.93%	25%	----
		PeCDD, 1,2,3,7,8-	40321-76-4	XE766	1.0	pg/g	95.1	96.5	1.60%	25%	----
		PeCDF, 1,2,3,7,8-	57117-41-6	XE766	1	pg/g	97.6	98.9	0.976%	25%	----
		PeCDF, 2,3,4,7,8-	57117-31-4	XE766	1.0	pg/g	89.3	91.8	2.75%	25%	----
		TCDD, 2,3,7,8-	1746-01-6	XE766	1.0	pg/g	15.6	16.7	6.86%	25%	----
		TCDF, 2,3,7,8-	51207-31-9	XE766	1.0	pg/g	18.9	19.6	3.19%	25%	----
Dioxins and Furans (QC Lot: 2212669)											
QC-MRG2-2-005		HpCDD, 1,2,3,4,6,7,8-	35822-46-9	XE766	1.0	pg/g	854	986	8.54%	25%	----
		HpCDF, 1,2,3,4,6,7,8-	67562-39-4	XE766	2.0	pg/g	917	1010	4.74%	25%	----
		HpCDF, 1,2,3,4,7,8,9-	55673-89-7	XE766	1.0	pg/g	918	994	0.957%	25%	----
		HxCDD, 1,2,3,4,7,8-	39227-28-6	XE766	1.0	pg/g	853	930	2.56%	25%	----
		HxCDD, 1,2,3,6,7,8-	57653-85-7	XE766	1.0	pg/g	850	909	0.624%	25%	----

Sub-Matrix: **Biota**

					Matrix Spike Duplicate (MSD) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*MSD Result*	*RPD(%) or Difference*	*MSD Limits*	*Qualifier*
Dioxins and Furans (QC Lot: 2212669) - continued											
QC-MRG2-2-005		HxCDD, 1,2,3,7,8,9-	19408-74-3	XE766	1.0	pg/g	876	895	3.92%	25%	----
		HxCDF, 1,2,3,4,7,8-	70648-26-9	XE766	1.0	pg/g	833	919	3.86%	25%	----
		HxCDF, 1,2,3,6,7,8-	57117-44-9	XE766	1.0	pg/g	867	988	7.10%	25%	----
		HxCDF, 1,2,3,7,8,9-	72918-21-9	XE766	1.0	pg/g	846	972	7.66%	25%	----
		HxCDF, 2,3,4,6,7,8-	60851-34-5	XE766	1.0	pg/g	881	988	5.48%	25%	----
		OCDD	3268-87-9	XE766	2.0	pg/g	1670	1870	5.18%	25%	----
		OCDF	39001-02-0	XE766	2.0	pg/g	1720	1950	6.10%	25%	----
		PeCDD, 1,2,3,7,8-	40321-76-4	XE766	1.0	pg/g	876	990	6.08%	25%	----
		PeCDF, 1,2,3,7,8-	57117-41-6	XE766	1	pg/g	892	973	2.96%	25%	----
		PeCDF, 2,3,4,7,8-	57117-31-4	XE766	1.0	pg/g	826	907	3.27%	25%	----
		TCDD, 2,3,7,8-	1746-01-6	XE766	1.0	pg/g	167	182	2.31%	25%	----
		TCDF, 2,3,7,8-	51207-31-9	XE766	1.0	pg/g	167	183	3.02%	25%	----
Polychlorinated Biphenyls (QC Lot: 2212575)											
QC-MRG2-2-005		PCB 001	2051-60-7	XE781	2.0	pg/g	110	106	3.57%	50%	----
		PCB 003	2051-62-9	XE781	5.0	pg/g	103	105	2.76%	50%	----
		PCB 004	13029-08-8	XE781	5.0	pg/g	103	96.3	6.70%	50%	----
		PCB 015	2050-68-2	XE781	5.0	pg/g	99.4	102	1.90%	50%	----
		PCB 019	38444-73-4	XE781	2.0	pg/g	89.5	84.5	5.83%	50%	----
		PCB 037	38444-90-5	XE781	2.0	pg/g	102	97.1	4.83%	50%	----
		PCB 054	15968-05-5	XE781	5.0	pg/g	92.0	92.4	0.415%	50%	----
		PCB 077	32598-13-3	XE781	5.0	pg/g	97.4	96.1	1.63%	50%	----
		PCB 081	70362-50-4	XE781	5.0	pg/g	92.2	87.4	5.43%	50%	----
		PCB 104	56558-16-8	XE781	5.0	pg/g	89.8	89.8	0.00%	50%	----
		PCB 105	32598-14-4	XE781	5.0	pg/g	125	128	3.68%	50%	----
		PCB 114	74472-37-0	XE781	5.0	pg/g	99.0	92.0	6.93%	50%	----
		PCB 118	31508-00-6	XE781	10	pg/g	151	147	4.55%	50%	----
		PCB 123	65510-44-3	XE781	5.0	pg/g	101	100	0.00%	50%	----
		PCB 126	57465-28-8	XE781	5.0	pg/g	97.0	95.7	0.995%	50%	----
		PCB 155	33979-03-2	XE781	5.0	pg/g	91.7	88.0	4.16%	50%	----
		PCB 156+157	----	XE781	10	pg/g	189	186	1.42%	50%	----
		PCB 167	52663-72-6	XE781	5.0	pg/g	94.9	91.7	3.49%	50%	----
		PCB 169	32774-16-6	XE781	5.0	pg/g	86.8	88.3	1.75%	50%	----
		PCB 188	74487-85-7	XE781	5.0	pg/g	91.9	91.0	1.05%	50%	----
		PCB 189	39635-31-9	XE781	5.0	pg/g	100	105	4.65%	50%	----

Sub-Matrix: **Biota**

					Matrix Spike Duplicate (MSD) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*MSD Result*	*RPD(%) or Difference*	*MSD Limits*	*Qualifier*
Polychlorinated Biphenyls (QC Lot: 2212575) - continued											
QC-MRG2-2-005		PCB 202	2136-99-4	XE781	10	pg/g	98.6	95.1	3.94%	50%	----
		PCB 205	74472-53-0	XE781	5.0	pg/g	99.3	95.0	4.62%	50%	----
		PCB 206	40186-72-9	XE781	5.0	pg/g	93.7	90.5	3.43%	50%	----
		PCB 208	52663-77-1	XE781	5.0	pg/g	86.1	88.9	3.17%	50%	----
		PCB 209	2051-24-3	XE781	10	pg/g	111	116	5.04%	50%	----
Polychlorinated Biphenyls (QC Lot: 2212668)											
QC-MRG2-2-005		PCB 001	2051-60-7	XE781	2.0	pg/g	874	922	0.712%	50%	----
		PCB 003	2051-62-9	XE781	5.0	pg/g	817	895	2.99%	50%	----
		PCB 004	13029-08-8	XE781	5.0	pg/g	834	903	1.90%	50%	----
		PCB 015	2050-68-2	XE781	5.0	pg/g	900	945	1.98%	50%	----
		PCB 019	38444-73-4	XE781	2.0	pg/g	630	663	0.991%	50%	----
		PCB 037	38444-90-5	XE781	2.0	pg/g	851	915	1.25%	50%	----
		PCB 054	15968-05-5	XE781	5.0	pg/g	938	961	3.85%	50%	----
		PCB 077	32598-13-3	XE781	5.0	pg/g	873	924	0.511%	50%	----
		PCB 081	70362-50-4	XE781	5.0	pg/g	857	897	1.56%	50%	----
		PCB 104	56558-16-8	XE781	5.0	pg/g	918	942	3.92%	50%	----
		PCB 105	32598-14-4	XE781	5.0	pg/g	809	858	0.111%	50%	----
		PCB 114	74472-37-0	XE781	5.0	pg/g	856	891	2.09%	50%	----
		PCB 118	31508-00-6	XE781	10	pg/g	788	825	1.40%	50%	----
		PCB 123	65510-44-3	XE781	5.0	pg/g	854	928	2.26%	50%	----
		PCB 126	57465-28-8	XE781	5.0	pg/g	833	897	1.27%	50%	----
		PCB 155	33979-03-2	XE781	5.0	pg/g	792	854	1.33%	50%	----
		PCB 156+157	----	XE781	10	pg/g	1750	1840	1.02%	50%	----
		PCB 167	52663-72-6	XE781	5.0	pg/g	870	912	1.44%	50%	----
		PCB 169	32774-16-6	XE781	5.0	pg/g	883	939	0.00%	50%	----
		PCB 188	74487-85-7	XE781	5.0	pg/g	819	837	3.97%	50%	----
		PCB 189	39635-31-9	XE781	5.0	pg/g	1000	1070	0.881%	50%	----
		PCB 202	2136-99-4	XE781	10	pg/g	916	1010	3.81%	50%	----
		PCB 205	74472-53-0	XE781	5.0	pg/g	813	884	2.26%	50%	----
		PCB 206	40186-72-9	XE781	5.0	pg/g	767	844	3.52%	50%	----
		PCB 208	52663-77-1	XE781	5.0	pg/g	763	824	1.61%	50%	----
		PCB 209	2051-24-3	XE781	10	pg/g	1000	1010	5.45%	50%	----

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QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **BU2501974**	Page	: 1 of 17
Amendment	: 1		
Client	: **Montrose Environmental Solutions Canada Inc.**	Laboratory	: ALS Environmental - Burlington
Contact	: Lindsay Oiffer	Account Manager	: Kieran Tordoff
Address	: 13804 164 St NW Edmonton AB Canada T5V 0C8	Address	: 1435 Norjohn Court, Unit 1 Burlington, Ontario Canada L7L 0E6
Telephone	: 780 989 8347	Telephone	: +1 905 331 3111
Project	: 15867-503	Date Samples Received	: 18-Jun-2025 16:45
PO	: PO-086285	Issue Date	: 12-Sep-2025 15:44
C-O-C number	: ----		
Sampler	: ----		
Site	: ----		
Quote number	: EO24-MSOI100-004 (Swan Hills Treatment Centre)		
No. of samples received	: 20		
No. of samples analysed	: 20		

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.
- No Matrix Spike Duplicate (MSD) outliers occur - please see following pages for full details.
- 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)

- 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.

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Biota**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Method Blank (MB) Values								
Dioxins and Furans	QC-MRG2-2212668 001	----	TCDF, 2,3,7,8-	51207-31-9	XE766	1.74 pg/g [J],M	1 pg/g	Blank result exceeds permitted value
Polychlorinated Biphenyls	QC-MRG2-2212668 001	----	PCB 011	2050-67-1	XE781	158 pg/g	25 pg/g	Blank result exceeds permitted value
Polychlorinated Biphenyls	QC-MRG2-2212668 001	----	PCB 031	16606-02-3	XE781	6.60 pg/g	5 pg/g	Blank result exceeds permitted value
Polychlorinated Biphenyls	QC-MRG2-2212668 001	----	PCB 020+028	----	XE781	7.98 pg/g M	5 pg/g	Blank result exceeds permitted value
Polychlorinated Biphenyls	QC-MRG2-2212668 001	----	PCB 052	35693-99-3	XE781	7.95 pg/g	5 pg/g	Blank result exceeds permitted value
Polychlorinated Biphenyls	QC-MRG2-2212668 001	----	PCB 044+047+065	----	XE781	18.9 pg/g	10 pg/g	Blank result exceeds permitted value
Polychlorinated Biphenyls	QC-MRG2-2212668 001	----	PCB 085+110+115+116+117	----	XE781	7.64 pg/g	5 pg/g	Blank result exceeds permitted value

Result Qualifiers

Qualifier	Description
[J]	*Estimated value. The reported concentration is below the calibrated range of the instrument but above the EDL.*
M	*Peak has been manually integrated.*

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 / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250618110	XE766	18-Jun-2025	24-Jul-2025	365 days	36 days	✓	01-Aug-2025	365 days	8 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250618111	XE766	18-Jun-2025	24-Jul-2025	365 days	36 days	✓	01-Aug-2025	365 days	8 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250618010	XE766	18-Jun-2025	24-Jul-2025	365 days	36 days	✓	02-Aug-2025	365 days	9 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250618011	XE766	18-Jun-2025	24-Jul-2025	365 days	36 days	✓	02-Aug-2025	365 days	9 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617105	XE766	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	30-Jul-2025	365 days	7 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617106	XE766	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	31-Jul-2025	365 days	7 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617107	XE766	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	01-Aug-2025	365 days	8 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617108	XE766	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	01-Aug-2025	365 days	8 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617109	XE766	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	01-Aug-2025	365 days	8 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617005	XE766	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	02-Aug-2025	365 days	9 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617006	XE766	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	02-Aug-2025	365 days	9 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617007	XE766	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	02-Aug-2025	365 days	9 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617008	XE766	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	02-Aug-2025	365 days	9 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617009	XE766	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	02-Aug-2025	365 days	9 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250616102	XE766	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	30-Jul-2025	365 days	7 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250616104	XE766	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	30-Jul-2025	365 days	7 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250616001	XE766	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	01-Aug-2025	365 days	8 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250616002	XE766	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	01-Aug-2025	365 days	8 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250616004	XE766	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	01-Aug-2025	365 days	8 days	✓
Dioxins and Furans : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250616101	XE766	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	01-Aug-2025	365 days	8 days	✓
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
15867250616001	E144	16-Jun-2025	----	----	----		23-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
15867250616002	E144	16-Jun-2025	----	----	----		23-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
15867250616004	E144	16-Jun-2025	----	----	----		23-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
15867250616101	E144	16-Jun-2025	----	----	----		23-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
15867250616102	E144	16-Jun-2025	----	----	----		23-Jul-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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
15867250616104	E144	16-Jun-2025	----	----	----		23-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
15867250617005	E144	17-Jun-2025	----	----	----		23-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
15867250617006	E144	17-Jun-2025	----	----	----		23-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
15867250617007	E144	17-Jun-2025	----	----	----		23-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
15867250617008	E144	17-Jun-2025	----	----	----		23-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
15867250617009	E144	17-Jun-2025	----	----	----		23-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
15867250617105	E144	17-Jun-2025	----	----	----		23-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
15867250617106	E144	17-Jun-2025	----	----	----		23-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
15867250617107	E144	17-Jun-2025	----	----	----		23-Jul-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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
15867250617108	E144	17-Jun-2025	----	----	----		23-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
15867250617109	E144	17-Jun-2025	----	----	----		23-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
15867250618010	E144	18-Jun-2025	----	----	----		23-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
15867250618011	E144	18-Jun-2025	----	----	----		23-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
15867250618110	E144	18-Jun-2025	----	----	----		23-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
15867250618111	E144	18-Jun-2025	----	----	----		23-Jul-2025	----	----	
Polychlorinated Biphenyls : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250618010	XE781	18-Jun-2025	24-Jul-2025	365 days	36 days	✓	30-Jul-2025	365 days	36 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250618011	XE781	18-Jun-2025	24-Jul-2025	365 days	36 days	✓	30-Jul-2025	365 days	36 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250618110	XE781	18-Jun-2025	24-Jul-2025	365 days	36 days	✓	01-Aug-2025	365 days	36 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polychlorinated Biphenyls : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250618111	XE781	18-Jun-2025	24-Jul-2025	365 days	36 days	✓	01-Aug-2025	365 days	36 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617005	XE781	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	30-Jul-2025	365 days	37 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617006	XE781	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	30-Jul-2025	365 days	37 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617007	XE781	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	30-Jul-2025	365 days	37 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617008	XE781	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	30-Jul-2025	365 days	37 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617009	XE781	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	30-Jul-2025	365 days	37 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617105	XE781	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	31-Jul-2025	365 days	37 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617106	XE781	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	01-Aug-2025	365 days	37 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617107	XE781	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	01-Aug-2025	365 days	37 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polychlorinated Biphenyls : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617108	XE781	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	01-Aug-2025	365 days	37 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617109	XE781	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	01-Aug-2025	365 days	37 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250616001	XE781	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	30-Jul-2025	365 days	38 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250616002	XE781	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	30-Jul-2025	365 days	38 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250616004	XE781	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	30-Jul-2025	365 days	38 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250616101	XE781	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	31-Jul-2025	365 days	38 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250616102	XE781	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	31-Jul-2025	365 days	38 days	✓
Polychlorinated Biphenyls : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250616104	XE781	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	31-Jul-2025	365 days	38 days	✓
Toxic Equivalency : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250618110	XE766	18-Jun-2025	24-Jul-2025	365 days	36 days	✓	01-Aug-2025	365 days	8 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Toxic Equivalency : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250618111	XE766	18-Jun-2025	24-Jul-2025	365 days	36 days	✓	01-Aug-2025	365 days	8 days	✓
Toxic Equivalency : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250618010	XE766	18-Jun-2025	24-Jul-2025	365 days	36 days	✓	02-Aug-2025	365 days	9 days	✓
Toxic Equivalency : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250618011	XE766	18-Jun-2025	24-Jul-2025	365 days	36 days	✓	02-Aug-2025	365 days	9 days	✓
Toxic Equivalency : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617105	XE766	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	30-Jul-2025	365 days	7 days	✓
Toxic Equivalency : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617106	XE766	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	31-Jul-2025	365 days	7 days	✓
Toxic Equivalency : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617107	XE766	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	01-Aug-2025	365 days	8 days	✓
Toxic Equivalency : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617108	XE766	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	01-Aug-2025	365 days	8 days	✓
Toxic Equivalency : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617109	XE766	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	01-Aug-2025	365 days	8 days	✓
Toxic Equivalency : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617005	XE766	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	02-Aug-2025	365 days	9 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Toxic Equivalency : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617006	XE766	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	02-Aug-2025	365 days	9 days	✓
Toxic Equivalency : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617007	XE766	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	02-Aug-2025	365 days	9 days	✓
Toxic Equivalency : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617008	XE766	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	02-Aug-2025	365 days	9 days	✓
Toxic Equivalency : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617009	XE766	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	02-Aug-2025	365 days	9 days	✓
Toxic Equivalency : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250616102	XE766	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	30-Jul-2025	365 days	7 days	✓
Toxic Equivalency : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250616104	XE766	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	30-Jul-2025	365 days	7 days	✓
Toxic Equivalency : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250616001	XE766	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	01-Aug-2025	365 days	8 days	✓
Toxic Equivalency : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250616002	XE766	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	01-Aug-2025	365 days	8 days	✓
Toxic Equivalency : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250616004	XE766	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	01-Aug-2025	365 days	8 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Toxic Equivalency : Dioxins and Furans in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250616101	XE766	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	01-Aug-2025	365 days	8 days	✓
Toxic Equivalency : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250618010	XE781	18-Jun-2025	24-Jul-2025	365 days	36 days	✓	30-Jul-2025	365 days	36 days	✓
Toxic Equivalency : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250618011	XE781	18-Jun-2025	24-Jul-2025	365 days	36 days	✓	30-Jul-2025	365 days	36 days	✓
Toxic Equivalency : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250618110	XE781	18-Jun-2025	24-Jul-2025	365 days	36 days	✓	01-Aug-2025	365 days	36 days	✓
Toxic Equivalency : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250618111	XE781	18-Jun-2025	24-Jul-2025	365 days	36 days	✓	01-Aug-2025	365 days	36 days	✓
Toxic Equivalency : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617005	XE781	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	30-Jul-2025	365 days	37 days	✓
Toxic Equivalency : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617006	XE781	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	30-Jul-2025	365 days	37 days	✓
Toxic Equivalency : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617007	XE781	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	30-Jul-2025	365 days	37 days	✓
Toxic Equivalency : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617008	XE781	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	30-Jul-2025	365 days	37 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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Toxic Equivalency : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617009	XE781	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	30-Jul-2025	365 days	37 days	✓
Toxic Equivalency : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617105	XE781	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	31-Jul-2025	365 days	37 days	✓
Toxic Equivalency : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617106	XE781	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	01-Aug-2025	365 days	37 days	✓
Toxic Equivalency : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617107	XE781	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	01-Aug-2025	365 days	37 days	✓
Toxic Equivalency : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617108	XE781	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	01-Aug-2025	365 days	37 days	✓
Toxic Equivalency : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250617109	XE781	17-Jun-2025	24-Jul-2025	365 days	37 days	✓	01-Aug-2025	365 days	37 days	✓
Toxic Equivalency : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250616001	XE781	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	30-Jul-2025	365 days	38 days	✓
Toxic Equivalency : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250616002	XE781	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	30-Jul-2025	365 days	38 days	✓
Toxic Equivalency : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap										
15867250616004	XE781	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	30-Jul-2025	365 days	38 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*	
Toxic Equivalency : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap 15867250616101	XE781	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	31-Jul-2025	365 days	38 days	✓
Toxic Equivalency : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap 15867250616102	XE781	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	31-Jul-2025	365 days	38 days	✓
Toxic Equivalency : PCBs in Biota by GC-HRMS										
Glass soil jar/Teflon lined cap 15867250616104	XE781	16-Jun-2025	24-Jul-2025	365 days	38 days	✓	31-Jul-2025	365 days	38 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			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
Moisture Content by Gravimetry	E144	2122377	2	20	10.0	5.0	✓
Dioxins and Furans in Biota by GC-HRMS	XE766	2212577	0	20	0.0	5.0	✗
PCBs in Biota by GC-HRMS	XE781	2212575	0	20	0.0	5.0	✗
Laboratory Control Samples (LCS)							
Moisture Content by Gravimetry	E144	2122377	2	20	10.0	5.0	✓
Dioxins and Furans in Biota by GC-HRMS	XE766	2212577	2	20	10.0	5.0	✓
PCBs in Biota by GC-HRMS	XE781	2212575	2	20	10.0	5.0	✓
Method Blanks (MB)							
Moisture Content by Gravimetry	E144	2122377	2	20	10.0	5.0	✓
Dioxins and Furans in Biota by GC-HRMS	XE766	2212577	2	20	10.0	5.0	✓
PCBs in Biota by GC-HRMS	XE781	2212575	2	20	10.0	5.0	✓
Matrix Spikes (MS)							
Dioxins and Furans in Biota by GC-HRMS	XE766	2212577	2	20	10.0	5.0	✓
PCBs in Biota by GC-HRMS	XE781	2212575	2	20	10.0	5.0	✓
Matrix Spike Duplicates (MSD)							
Dioxins and Furans in Biota by GC-HRMS	XE766	2212577	2	20	10.0	5.0	✓
PCBs in Biota by GC-HRMS	XE781	2212575	2	20	10.0	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 - Burlington	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.
Dioxins and Furans in Biota by GC-HRMS	XE766 ALS Environmental - Burlington	Biota	USEPA 1613B	The sample is extracted by Soxhlet extraction using Dichloromethane. The extracts are prepared using column chromatography, reduced in volume and analyzed by isotope-dilution GC/HRMS Reported on a dry-weight basis.
PCBs in Biota by GC-HRMS	XE781 ALS Environmental - Burlington	Biota	EPA 1668C	The sample is extracted by soxhlet extraction. Extracts are prepared using column chromatography, reduced in volume and analyzed by isotope-dilution GC-HRMS.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Soxhlet extraction of Tissues for DX/Fs, and/or PCNs	EP800 ALS Environmental - Burlington	Biota	EPA Method 3540C (preparation)	Solid samples are homogenized and sub-sampled, then extracted using Soxhlet.
Soxhlet Extraction of Tissues for OCPs, PCBs, BFRs (including PBDEs), PAHs, CPs, and/or HBCDD	EP801 ALS Environmental - Burlington	Biota	EPA Method 3540C (preparation)	Solid samples are homogenized and sub-sampled, then extracted using a Soxhlet apparatus.

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

COC # 119878

Page: 1 of 4

Lab Submitted to : ALS
Lab Agreement no :
Lab Job ID:

Invoice to: Require Report: Y / N

Company Name: Montrose Environmental
Contact Name: Lindsay Dilger
Address:
PC:
Phone / Fax#: Ph: Fax:

Copy of Report to:
Matrix Solutions - EDS
Suite 600, 214 - 11th Avenue SW
Calgary, Alberta, Canada
T2R 0K1
Ph: 403-237-0606 Fax: 403-263-2493
email invoices to ap@matrix-solutions.com

Matrix Project # : 15867-507
Matrix Proj. Name: SWAN Hills Treatment centre
Location: SWAN Hills Treatment Centre
Sampler's Name(s): L. Dilger / L. Zaharuk

AFE #:

REGULATORY REQUIREMENTS: (check)
- Alberta Tier 1
- BC CSR
- Alberta SW FAL
- Canadian Drinking Water
- CCME FAL
- SPIGEC
- SEQG

Other: QUOTE EO24-MS01200-004

SERVICE REQUESTED:
- RUSH (Please ensure you contact the lab) Due Date:
- REGULAR Turnaround

REPORT DISTRIBUTION: always send to eds@matrix-solutions.com
- Additional Emails: ldilger@montrose-env.com

	Sample Number (14 digits only) yr-mth-day	Sample Point Name	Depth (m)	Sample Type	Date/Time Sampled	Quanity # of Containers J/V	Bags	Bottles	Analysis Required: Dioxins & Furans	Condenser PCBs Hems	METALS	PH/EC	A-PCB	JLD
1	15867250616001	plot123	—	moss	June 16/25		1	3	X	X	X	X		
2	101	↓	—	LAB TEA	↓		1	3	X	X	X			
3	002	plot402	—	moss			1	3	X	X	X	X		
4	003	↓	—	moss			/	1			X	X		
5	102	—	—	LAB TEA			1	3	X	X	X			
6	103	—	—	LAB TEA			/	1			X			
7	004	plot 7D	—	moss			1	3	X	X	X	X		
8	104	↓	—	LAB TEA	↓		1	3	X	X	X			
9	301	Field BLANK	—	—			/	1					X	
10	302	Trip BLANK	—	—	↓		/	1						X
11	15867250617 005	plot 114	—	moss	June 17/25		1	3	X	X	X	X		
12	105	↓	—	LAB TEA	↓		1	3	X	X	X			
13	006	plot4	—	moss			1	3	X	X	X	X		
14	106	↓	—	LAB TEA			1	3	X	X	X			
15	007	plot 101	—	moss	↓		1	3	X	X	X	X		

Preserved/Filtered

*For metals in water samples indicate if you want Total (T) or Dissolved (D) as part of "Analysis Required"

Relinquished by: Lindsay Dilger Date/Time: June 18/25 1pm
Signature:
Received by: PRINCE Date/Time: 6/06 hr 2:45°C
Signature: PP

COMMENTS/SPECIAL INSTRUCTIONS: QUOTE MS01200
9.8°, 4.5, 6.2°C

J = jars V = vials

Environmental Division
Edmonton
Work Order Reference
EO2505051

Telephone : +1 780 413 5227

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

COC # 119881

Page: 2 of 4

Lab Submitted to : ALS
Lab Agreement no :
Lab Job ID:

Invoice to: Require Report: Y ___ N ___
Company Name: See p.1
Contact Name:
Address:
PC:
Phone / Fax#: Ph: Fax:

Copy of Report to:
Matrix Solutions - EDS
Suite 600, 214 - 11th Avenue SW
Calgary, Alberta, Canada
T2R 0K1
Ph: 403-237-0606 Fax: 403-263-2493
email invoices to ap@matrix-solutions.com

Matrix Project # : 15867-507
Matrix Proj. Name: SWAN HILLS Treatment Centre
Location: SWAN HILLS TREATMENT CENTRE
Sampler's Name(s): L. OLIFFE / L. ~~ZAPALSKY~~ ZARALSKY

AFE #:

REGULATORY REQUIREMENTS: (check)
- Alberta Tier 1 ☐ BC CSR
- Alberta SW FAL
- Canadian Drinking Water
- CCME FAL
- SPIGEC
- SEQG Other: See p.1

SERVICE REQUESTED:
- ☐ RUSH (Please ensure you contact the lab) Due Date:
- ☑ REGULAR Turnaround

REPORT DISTRIBUTION: always send to eds@matrix-solutions.com
- ☑ Additional Emails See p.1

	Sample Number (14 digits only) yr-mth-day	Sample Point Name	Depth (m)	Sample Type	Date/Time Sampled	Quanity # of Containers J/V	Bags	Bottles	Dioxins & Furans	Congeners PCBs HRMS	METALS	PH/EC	A-PCB	HOLD
1	15867250617L07	plot 109	—	LAB TEA	TUNE 17/25		1	3	X	X	X			
2	L08	—	—	MOSS			1	3	X	X	X	X		
3	L08	—	—	LAB TEA			1	3	X	X	X			
4	L09	plot 110	—	MOSS			1	3	X	X	X	X		
5	L09	↓	—	LAB TEA			1	3	X	X	X			
6	303	Field Blank	—	—			—	1					X	
7	304	TRIP Blank	—	—			—	1						X
8	15867250618010	plot 11		MOSS	TUNE 18/25		1	3	X	X	X	X		
9	M10	plot 11		LAB TEA			1	3	X	X	X			
10	011	plot 71		MOSS			1	3	X	X	X	X		
11	L11	plot 71		LAB TEA			1	3	X	X	X			
12	305	Field		—			—	1					X	
13	306	TRIP		—			—	1						X
14														
15														

*For metals in water samples indicate if you want Total (T) or Dissolved (D) as part of "Analysis Required"

Preserved/Filtered

Relinquished by: Lindsay Oliffe Date/Time: TUNE 18/25 1pm
Signature:
Received by: PRINCE Date/Time: 18/06/25 2:45 PM
Signature: PP

COMMENTS/SPECIAL INSTRUCTIONS 9.8°C, 4.5°C, 6.2°C

J = jars V = vials

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

COC # 119879

Page: 3 of 4

Lab Submitted to : ALS
Lab Agreement no :
Lab Job ID:

Invoice to: Require Report: Y ✓ N

Company Name: See p.1
Contact Name:
Address:
PC:
Phone / Fax#: Ph: Fax:

Copy of Report to:
Matrix Solutions - EDS
Suite 600, 214 - 11th Avenue SW
Calgary, Alberta, Canada
T2R 0K1
Ph: 403-237-0606 Fax: 403-263-2493
email invoices to ap@matrix-solutions.com

Matrix Project # : 15867-503
Matrix Proj. Name: SWAN Hills Treatment Centre
Location: SWAN Hills Treatment Centre
Sampler's Name(s): L. Miller / L. Zaborniak

AFE #:

REGULATORY REQUIREMENTS: (check)
- Alberta Tier 1
- BC CSR
- Alberta SW FAL
- Canadian Drinking Water
- CCME FAL
- SPIGEC
- SEQG

Other: Quote EO24 - M501100-004

SERVICE REQUESTED:
- RUSH (Please ensure you contact the lab) Due Date:
- ☒ REGULAR Turnaround

REPORT DISTRIBUTION: always send to eds@matrix-solutions.com
- ☒ Additional Emails: See p.1

	Sample Number (14 digits only) yr-mth-day	Sample Point Name	Depth (m)	Sample Type	Date/Time Sampled	Quanity # of Containers J/V	Bags	Bottles	Analysis Required: Metals	HOLD
1	15867250616201	MB9	—	MOSS BAG	June 16/25		1		X	
2	202	MB24	—				1		X	
3	203	MB14	—				1		X	
4	204	MB50	—				1		X	
5	205	MB26	—				1		X	
6	206	MB19	—				1		X	
7	15867250617207	MB20	—		June 17/25		1		X	
8	208	MB22	—				1		X	
9	209	Site9	—				1		X	
10	210	Site1	—				1		X	
11	211	MB5	—				1		X	
12	212	MB4	—				1		X	
13	213	MB15	—				1		X	
14	214	Site5	—				1		X	
15	215	MB1	—				1		X	
								Preserved/Filtered		

*For metals in water samples indicate if you want Total (T) or Dissolved (D) as part of "Analysis Required"

Relinquished by: Lindsay Stuart Date/Time: June 18/25 1pm
Signature:
Received by: Date/Time:
Signature:

COMMENTS/SPECIAL INSTRUCTIONS QUOTE M501100

J = jars V = vials

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

COC # 119882

Page: 4 of 4

Lab Submitted to : ALS
Lab Agreement no :
Lab Job ID:

Invoice to: Require Report: Y ✓ N

Company Name: See p.1
Contact Name:
Address:
PC:
Phone / Fax#: Ph: Fax:

AFE #:

Copy of Report to:
Matrix Solutions - EDS
Suite 600, 214 - 11th Avenue SW
Calgary, Alberta, Canada
T2R 0K1
Ph: 403-237-0606 Fax: 403-263-2493
email invoices to ap@matrix-solutions.com

Matrix Project # : 15867-503
Matrix Proj. Name: SWAN HILLS Treatment Centre
Location: SWAN HILLS Treatment Centre
Sampler's Name(s): L. Colter / L. ZAPOWNY

REGULATORY REQUIREMENTS: (check)
- [ ] Alberta Tier 1 [ ] BC CSR
- [ ] Alberta SW FAL
- [ ] Canadian Drinking Water
- [ ] CCME FAL
- [ ] SPIGEC
- [ ] SEQG Other: See p.1

SERVICE REQUESTED:
- [ ] RUSH (Please ensure you contact the lab) Due Date:
- [x] REGULAR Turnaround

REPORT DISTRIBUTION: always send to eds@matrix-solutions.com
- [x] Additional Emails See p.1

	Sample Number (14 digits only) yr-mth-day	Sample Point Name	Depth (m)	Sample Type	Date/Time Sampled	Quanity # of Containers J/V	Bags	Bottles	Analysis Required: METALS	HOLD
1	15867250617216	MB2	—	MISSING	June 17/25		1		X	
2	15867250618217	MB11	—	MISSING	June 18/25		1		X	
3	218	MB7L	—	↓	↓		1		X	
4	219	unexposed	—				1		X	
5	220	unexposed	—				1		X	
6	221	unexposed	—	↓	↓		1		X	
7										
8										
9										
10										
11										
12										
13										
14										
15										

*For metals in water samples indicate if you want Total (T) or Dissolved (D) as part of "Analysis Required" Preserved/Filtered

Relinquished by: L Hollyer **Date/Time:** June 18/25 1pm
Signature:
Received by: **Date/Time:**
Signature:

COMMENTS/SPECIAL INSTRUCTIONS

J = jars V = vials

APPENDIX D
Summary Statistics

Appendix D.1

Summary of Basic Statistics and Trend Analysis - Live Moss and Labrador Tea Leaves

Veolia

W ½ 06-067-08 W5M

Sample Point	Summary Statistics [3]								2025 Increases			Mann Kendal Trend Analysis [1,2,3]				
	n	Non-Detect Count	% Non-Detect	Minimum	25th Percentile	Median	75th Percentile	Maximum	Previous Value [5]	2025 Value	> 40% Change (*)	n	Non-Detect Count	% Non-Detect	Tau [4]	p-value [4]
Ag (mg/kg)																
Live Moss																
Plot 4	8	2	25	0.0966	0.0997	0.1005	0.10975	0.23	0.101	0.099	No	16	10	62.50	---	---
Plot 11	8	3	38	0.0186	0.03535	0.0472	0.1	0.1	0.037	0.019	No	16	11	68.75	---	---
Plot 70	8	3	38	0.0392	0.043325	0.0741	0.1	0.156	0.04	0.156	**Yes**	16	11	68.75	---	---
Plot 71	8	2	25	0.0192	0.025475	0.0341	0.1	0.3	0.03	0.027	No	16	10	62.50	---	---
Plot 109	8	3	38	0.0112	0.074125	0.0952	0.1	0.139	0.076	0.011	No	16	11	68.75	---	---
Plot 110	8	2	25	0.0127	0.02825	0.0411	0.1	1.3	0.03	0.013	No	16	9	56.25	---	---
Plot 114	8	2	25	0.0849	0.09245	0.1	0.12475	0.3	0.122	0.085	No	16	10	62.50	---	---
Plot 117	7	3	43	0.0497	0.06075	0.0864	0.1	0.1	0.071	---	---	15	11	73.33	---	---
Plot 123	8	2	25	0.0286	0.0356	0.04565	0.1	0.49	0.033	0.053	**Yes**	16	10	62.50	---	---
Plot 402	8	3	38	0.0301	0.035775	0.0688	0.1	0.205	0.032	0.038	No	16	11	68.75	---	---
Labrador Tea Leaves																
Plot 4	10	7	70	0.0025	0.0025	0.00515	0.076525	0.1	0.003	0.003	No	18	15	83.33	---	---
Plot 11	10	9	90	0.0025	0.0025	0.0025	0.0763	0.13	0.005	0.003	No	18	17	94.44	---	---
Plot 70	10	10	100	0.0025	0.0025	0.0025	0.075625	0.1	0.003	0.003	No	18	18	100.00	---	---
Plot 71	10	10	100	0.0025	0.0025	0.0025	0.075625	0.1	0.003	0.003	No	18	18	100.00	---	---
Plot 109	10	10	100	0.0025	0.0025	0.0025	0.075625	0.1	0.003	0.003	No	18	18	100.00	---	---
Plot 110	10	10	100	0.0025	0.0025	0.0025	0.075625	0.1	0.003	0.003	No	18	18	100.00	---	---
Plot 114	10	10	100	0.0025	0.0025	0.0025	0.075625	0.1	0.003	0.003	No	18	18	100.00	---	---
Plot 117	9	9	100	0.0025	0.0025	0.0025	0.1	0.1	0.003	---	---	17	17	100.00	---	---
Plot 123	10	10	100	0.0025	0.0025	0.0025	0.075625	0.1	0.003	0.003	No	18	18	100.00	---	---
Plot 402	10	10	100	0.0025	0.0025	0.0025	0.075625	0.1	0.003	0.003	No	18	18	100.00	---	---
Al (%)																
Live Moss																
Plot 4	8	0	0	0.042	0.073075	0.0802	0.08295	0.0965	0.08	0.074	No	16	0	0.00	-0.475	**0.012**
Plot 11	8	0	0	0.0132	0.02425	0.03085	0.041925	0.0622	0.04	0.013	No	16	0	0.00	-0.475	**0.012**
Plot 70	8	0	0	0.04	0.059075	0.06415	0.06695	0.0766	0.063	0.065	No	16	0	0.00	-0.600	**0.001**
Plot 71	8	0	0	0.02	0.029	0.04085	0.05195	0.068	0.059	0.05	No	16	0	0.00	-0.367	0.053
Plot 109	8	0	0	0.00747	0.026	0.03915	0.049825	0.0775	0.052	0.007	No	16	0	0.00	-0.575	**0.002**
Plot 110	8	0	0	0.0128	0.01875	0.02765	0.030575	0.0383	0.028	0.013	No	16	0	0.00	-0.517	**0.006**
Plot 114	8	0	0	0.022	0.056	0.0582	0.066825	0.0771	0.077	0.066	No	16	0	0.00	-0.308	0.105
Plot 117	7	0	0	0.046	0.048	0.063	0.0743	0.0787	0.079	---	---	15	0	0.00	-0.305	0.125
Plot 123	8	0	0	0.018	0.032175	0.0404	0.04885	0.0576	0.049	0.058	No	16	0	0.00	-0.258	0.176
Plot 402	8	0	0	0.032	0.04525	0.0635	0.094575	0.326	0.057	0.326	**Yes**	16	0	0.00	-0.142	0.471
Labrador Tea Leaves																
Plot 4	10	0	0	0.0056	0.00806	0.009565	0.011325	0.015	0.01	0.01	No	18	0	0.00	-0.464	**0.008**
Plot 11	10	0	0	0.00249	0.005325	0.00659	0.0080725	0.011	0.005	0.002	No	18	0	0.00	-0.556	**0.001**
Plot 70	10	0	0	0.0051	0.00802	0.009025	0.009645	0.015	0.01	0.009	No	18	0	0.00	-0.503	**0.004**
Plot 71	10	0	0	0.0034	0.005445	0.006215	0.006645	0.0095	0.006	0.006	No	18	0	0.00	-0.516	**0.003**
Plot 109	10	0	0	0.00199	0.00505	0.00596	0.00701	0.0096	0.006	0.002	No	18	0	0.00	-0.542	**0.002**
Plot 110	10	0	0	0.00291	0.004765	0.00582	0.0068425	0.011	0.006	0.003	No	18	0	0.00	-0.542	**0.002**
Plot 114	10	0	0	0.00539	0.006775	0.007835	0.0094	0.013	0.008	0.012	**Yes**	18	0	0.00	-0.497	**0.004**
Plot 117	9	0	0	0.005	0.00589	0.00823	0.0095	0.012	0.008	---	---	17	0	0.00	-0.338	0.064
Plot 123	10	0	0	0.0027	0.0053025	0.005475	0.0069575	0.014	0.005	0.007	No	18	0	0.00	-0.359	**0.041**
Plot 402	10	0	0	0.0047	0.006985	0.00897	0.0096325	0.042	0.007	0.01	**Yes**	18	0	0.00	-0.425	**0.015**

Appendix D.1

Summary of Basic Statistics and Trend Analysis - Live Moss and Labrador Tea Leaves

Veolia

W ½ 06-067-08 W5M

Sample Point	Summary Statistics [3]								2025 Increases			Mann Kendal Trend Analysis [1,2,3]				
	n	Non-Detect Count	% Non-Detect	Minimum	25th Percentile	Median	75th Percentile	Maximum	Previous Value [5]	2025 Value	> 40% Change (*)	n	Non-Detect Count	% Non-Detect	Tau [4]	p-value [4]
As (mg/kg)																
Live Moss																
Plot 4	8	0	0	0.29	0.552	0.635	0.702	0.785	0.556	0.58	No	16	0	0.00	0.367	0.053
Plot 11	8	0	0	0.082	0.165	0.2035	0.24725	0.272	0.183	0.082	No	16	0	0.00	-0.042	0.857
Plot 70	8	0	0	0.205	0.2095	0.2345	0.27275	0.38	0.208	0.249	No	16	0	0.00	-0.383	**0.043**
Plot 71	8	0	0	0.14	0.1565	0.2065	0.255	0.271	0.25	0.198	No	16	0	0.00	-0.025	0.928
Plot 109	8	0	0	0.066	0.315	0.554	0.68725	0.9	0.548	0.066	No	16	0	0.00	0.133	0.499
Plot 110	8	0	0	0.073	0.15925	0.198	0.24175	0.49	0.154	0.073	No	16	0	0.00	0.025	0.928
Plot 114	8	0	0	0.14	0.41775	0.4865	0.52075	0.567	0.567	0.381	No	16	0	0.00	0.367	0.053
Plot 117	7	0	0	0.11	0.181	0.2	0.2155	0.234	0.234	---	---	15	1	6.67	0.333	0.092
Plot 123	8	0	0	0.067	0.1385	0.1535	0.16325	0.24	0.148	0.154	No	16	1	6.25	0.292	0.125
Plot 402	8	0	0	0.19	0.256	0.274	0.355	0.726	0.258	0.726	**Yes**	16	0	0.00	0.717	**0.000**
Labrador Tea Leaves																
Plot 4	10	2	20	0.025	0.0515	0.07	0.079	0.25	0.068	0.051	No	18	8	44.44	0.248	0.140
Plot 11	10	4	40	0.01	0.02425	0.0275	0.03275	0.05	0.02	0.01	No	18	11	61.11	---	---
Plot 70	10	4	40	0.01	0.02275	0.025	0.0275	0.05	0.022	0.028	No	18	10	55.56	---	---
Plot 71	10	3	30	0.022	0.0235	0.025	0.02875	0.05	0.022	0.028	No	18	10	55.56	---	---
Plot 109	10	4	40	0.01	0.0235	0.034	0.04825	0.18	0.023	0.01	No	18	11	61.11	---	---
Plot 110	10	5	50	0.01	0.01325	0.0245	0.038	0.058	0.026	0.01	No	18	11	61.11	---	---
Plot 114	10	2	20	0.025	0.0425	0.0485	0.05225	0.084	0.047	0.053	No	18	8	44.44	0.216	0.200
Plot 117	9	5	56	0.01	0.02	0.025	0.034	0.05	0.024	---	---	17	11	64.71	---	---
Plot 123	10	8	80	0.01	0.01	0.0155	0.025	0.05	0.01	0.021	**Yes**	18	15	83.33	---	---
Plot 402	10	4	40	0.01	0.02525	0.028	0.03225	0.05	0.027	0.033	No	18	11	61.11	---	---
Cd (mg/kg)																
Live Moss																
Plot 4	8	0	0	0.308	0.40475	0.456	0.5315	0.66	0.308	0.422	No	16	0	0.00	-0.450	**0.017**
Plot 11	8	0	0	0.0737	0.108	0.1205	0.1405	0.15	0.142	0.074	No	16	0	0.00	-0.425	**0.024**
Plot 70	8	0	0	0.065	0.14825	0.1885	0.2325	0.248	0.211	0.248	No	16	0	0.00	0.075	0.718
Plot 71	8	0	0	0.068	0.109725	0.145	0.16025	0.169	0.16	0.161	No	16	0	0.00	0.158	0.416
Plot 109	8	0	0	0.0351	0.2295	0.2765	0.36	0.561	0.228	0.035	No	16	0	0.00	-0.592	**0.002**
Plot 110	8	0	0	0.048	0.0909	0.10615	0.1225	0.16	0.092	0.048	No	16	0	0.00	-0.417	**0.026**
Plot 114	8	0	0	0.344	0.46875	0.535	0.70925	0.909	0.909	0.489	No	16	0	0.00	-0.058	0.787
Plot 117	7	0	0	0.17	0.192	0.201	0.248	0.269	0.266	---	---	15	0	0.00	-0.067	0.767
Plot 123	8	0	0	0.058	0.079075	0.09485	0.109	0.12	0.095	0.115	No	16	0	0.00	0.067	0.752
Plot 402	8	0	0	0.0901	0.12425	0.134	0.22975	0.298	0.289	0.298	No	16	0	0.00	0.125	0.528
Labrador Tea Leaves																
Plot 4	10	3	30	0.009	0.01	0.0116	0.013	0.02	0.009	0.012	No	18	4	22.22	-0.373	**0.031**
Plot 11	10	8	80	0.0025	0.0025	0.00465	0.01225	0.02	0.007	0.003	No	18	16	88.89	---	---
Plot 70	10	6	60	0.0025	0.0032	0.00745	0.00965	0.02	0.009	0.007	No	18	14	77.78	---	---
Plot 71	10	7	70	0.0025	0.0025	0.00755	0.01	0.02	0.006	0.009	**Yes**	18	14	77.78	---	---
Plot 109	10	5	50	0.0025	0.00615	0.0068	0.009725	0.02	0.006	0.003	No	18	10	55.56	---	---
Plot 110	10	8	80	0.0025	0.0025	0.0046	0.009625	0.02	0.007	0.003	No	18	16	88.89	---	---
Plot 114	10	3	30	0.01	0.0139	0.0168	0.018075	0.0275	0.018	0.028	**Yes**	18	6	33.33	0.026	0.907
Plot 117	9	7	78	0.0025	0.0025	0.0074	0.01	0.02	0.007	---	---	17	14	82.35	---	---
Plot 123	10	8	80	0.0025	0.0025	0.0048	0.01	0.02	0.003	0.007	**Yes**	18	16	88.89	---	---
Plot 402	10	5	50	0.0025	0.00605	0.00935	0.0103	0.02	0.009	0.011	No	18	13	72.22	---	---

Appendix D.1

Summary of Basic Statistics and Trend Analysis - Live Moss and Labrador Tea Leaves

Veolia

W ½ 06-067-08 W5M

Sample Point	Summary Statistics [3]								2025 Increases			Mann Kendal Trend Analysis [1,2,3]				
	n	Non-Detect Count	% Non-Detect	Minimum	25th Percentile	Median	75th Percentile	Maximum	Previous Value [5]	2025 Value	> 40% Change (*)	n	Non-Detect Count	% Non-Detect	Tau [4]	p-value [4]
Cr (mg/kg)																
Live Moss																
Plot 4	8	1	13	0.5	1.7525	1.87	2.15	3.2	1.88	1.77	No	16	1	6.25	-0.483	**0.010**
Plot 11	8	2	25	0.212	0.5	0.6385	0.8265	1.8	0.6	0.212	No	16	3	18.75	-0.383	**0.041**
Plot 70	8	2	25	0.5	0.70475	0.83	1.005	2	0.773	0.871	No	16	2	12.50	-0.608	**0.001**
Plot 71	8	2	25	0.5	0.5375	0.753	0.917	1.3	0.886	0.747	No	16	3	18.75	-0.375	**0.047**
Plot 109	8	2	25	0.161	0.5	1.35	1.73	2.38	1.31	0.161	No	16	2	12.50	-0.592	**0.002**
Plot 110	8	3	38	0.197	0.46025	0.5	0.50075	0.571	0.434	0.197	No	16	6	37.50	-0.375	**0.035**
Plot 114	8	1	13	0.5	1.0055	1.225	1.4225	3.3	1.36	1.02	No	16	1	6.25	-0.458	**0.015**
Plot 117	7	2	29	0.5	0.5355	0.6	0.6355	2	0.615	---	---	15	4	26.67	-0.286	0.145
Plot 123	8	2	25	0.434	0.47225	0.5	0.55275	1.7	0.522	0.434	No	16	6	37.50	-0.242	0.180
Plot 402	8	1	13	0.5	0.969	1.01	1.905	2.85	1.02	2.85	**Yes**	16	3	18.75	0.025	0.928
Labrador Tea Leaves																
Plot 4	10	3	30	0.131	0.15275	0.191	0.42525	0.5	0.143	0.133	No	18	10	55.56	---	---
Plot 11	10	4	40	0.025	0.1295	0.188	0.45025	0.65	0.202	0.025	No	18	12	66.67	---	---
Plot 70	10	3	30	0.083	0.1055	0.1245	0.413	0.5	0.152	0.083	No	18	8	44.44	-0.137	0.396
Plot 71	10	3	30	0.051	0.09225	0.1015	0.4505	0.5	0.051	0.077	**Yes**	18	11	61.11	---	---
Plot 109	10	4	40	0.025	0.08275	0.128	0.4185	0.5	0.077	0.025	No	18	12	66.67	---	---
Plot 110	10	4	40	0.025	0.072	0.1215	0.46175	0.5	0.069	0.025	No	18	12	66.67	---	---
Plot 114	10	3	30	0.094	0.1195	0.1765	0.43575	0.5	0.094	0.118	No	18	11	61.11	---	---
Plot 117	9	3	33	0.062	0.085	0.111	0.5	0.5	0.068	---	---	17	11	64.71	---	---
Plot 123	10	3	30	0.053	0.07475	0.157	0.43575	0.5	0.086	0.066	No	18	11	61.11	---	---
Plot 402	10	3	30	0.074	0.11	0.1265	0.4125	0.5	0.086	0.126	**Yes**	18	10	55.56	---	---
Cu (mg/kg)																
Live Moss																
Plot 4	8	0	0	8.94	9.8375	11.2	13.25	14	8.94	9.59	No	16	0	0.00	-0.642	**0.001**
Plot 11	8	0	0	2.42	4.26	4.83	6.15	8.5	3.54	2.42	No	16	0	0.00	-0.358	0.058
Plot 70	8	0	0	3.55	3.9875	4.39	5.55	6.4	3.55	6.4	**Yes**	16	0	0.00	-0.183	0.344
Plot 71	8	0	0	2.98	3.6475	4.01	6	8.5	3.98	3.69	No	16	0	0.00	-0.117	0.558
Plot 109	8	0	0	1.33	8.625	9.32	10.75	14.6	8.7	1.33	No	16	0	0.00	-0.683	**0.000**
Plot 110	8	0	0	1.64	3.645	3.915	5.85	9.5	3.66	1.64	No	16	0	0.00	-0.192	0.321
Plot 114	8	0	0	6.99	8.43	9.235	10	12	8.91	6.99	No	16	0	0.00	-0.525	**0.005**
Plot 117	7	0	0	3.9	4.435	5.3	5.98	8.5	4.69	---	---	15	0	0.00	-0.171	0.400
Plot 123	8	0	0	3.47	3.815	3.99	5.5	7	3.71	3.85	No	16	0	0.00	-0.075	0.718
Plot 402	8	0	0	3.69	4.155	4.91	7.05	9.3	4.05	5.31	No	16	0	0.00	0.117	0.558
Labrador Tea Leaves																
Plot 4	10	0	0	2.8	3.4	3.65	3.8875	4.8	3.2	3.4	No	18	0	0.00	-0.373	**0.034**
Plot 11	10	0	0	1.27	2.6125	3.465	3.6075	3.94	2.95	1.27	No	18	0	0.00	-0.294	0.096
Plot 70	10	0	0	2.8	3.115	3.185	3.3575	4.03	3.06	3.23	No	18	0	0.00	-0.229	0.196
Plot 71	10	0	0	1.8	2.75	2.9	3	3.35	3.0	3.0	No	18	0	0.00	-0.301	0.087
Plot 109	10	0	0	0.86	2.5275	2.865	3.2475	3.6	2.61	0.86	No	18	0	0.00	-0.373	**0.034**
Plot 110	10	0	0	1.19	2.4	3.155	3.23	3.67	3.0	1.19	No	18	0	0.00	-0.333	0.058
Plot 114	10	0	0	2.9	3.9025	4.16	4.4175	4.6	4.18	4.55	No	18	0	0.00	-0.065	0.733
Plot 117	9	0	0	2.5	3.15	3.46	3.6	3.91	3.46	---	---	17	0	0.00	-0.199	0.284
Plot 123	10	0	0	1.4	3.045	3.255	3.615	4	3.04	3.36	No	18	0	0.00	-0.196	0.271
Plot 402	10	0	0	2.4	3.23	3.39	3.77	10	3.2	3.37	No	18	0	0.00	-0.183	0.306

Appendix D.1

Summary of Basic Statistics and Trend Analysis - Live Moss and Labrador Tea Leaves

Veolia

W ½ 06-067-08 W5M

Sample Point	Summary Statistics [3]								2025 Increases			Mann Kendal Trend Analysis [1,2,3]				
	n	Non-Detect Count	% Non-Detect	Minimum	25th Percentile	Median	75th Percentile	Maximum	Previous Value [5]	2025 Value	> 40% Change (*)	n	Non-Detect Count	% Non-Detect	Tau [4]	p-value [4]
Hg (mg/kg)																
Live Moss																
Plot 4	8	0	0	0.24	0.30175	0.401	0.4695	0.817	0.359	0.817	**Yes**	16	0	0.00	0.033	0.893
Plot 11	8	0	0	0.056	0.11475	0.1425	0.167	0.22	0.132	0.069	No	16	0	0.00	-0.475	**0.012**
Plot 70	8	0	0	0.059	0.092375	0.1055	0.113	0.18	0.08	0.122	**Yes**	16	1	6.25	-0.058	0.786
Plot 71	8	1	13	0.025	0.054625	0.06835	0.08475	0.11	0.078	0.069	No	16	1	6.25	-0.283	0.137
Plot 109	8	0	0	0.0396	0.18775	0.3355	0.49025	1.01	0.231	0.04	No	16	0	0.00	-0.358	0.058
Plot 110	8	0	0	0.0443	0.12025	0.1455	0.16	0.24	0.128	0.044	No	16	1	6.25	-0.592	**0.002**
Plot 114	8	0	0	0.12	0.22025	0.311	0.4185	0.872	0.359	0.161	No	16	0	0.00	0.017	0.964
Plot 117	7	1	14	0.025	0.07295	0.107	0.127	0.146	0.107	---	---	15	1	6.67	-0.210	0.298
Plot 123	8	1	13	0.025	0.07825	0.0948	0.11725	0.259	0.1	0.085	No	16	2	12.50	-0.008	1.000
Plot 402	8	1	13	0.025	0.0795	0.09595	0.118	0.17	0.097	0.088	No	16	2	12.50	-0.050	0.822
Labrador Tea Leaves																
Plot 4	10	3	30	0.0194	0.02205	0.025	0.02845	0.0453	0.019	0.02	No	18	4	22.22	-0.242	0.161
Plot 11	10	2	20	0.0068	0.0151	0.0208	0.0242	0.068	0.015	0.007	No	18	6	33.33	-0.078	0.667
Plot 70	10	2	20	0.0107	0.01085	0.01395	0.02295	0.13	0.011	0.011	No	18	7	38.89	0.046	0.813
Plot 71	10	1	10	0.0156	0.018775	0.02065	0.024425	0.082	0.016	0.02	No	18	4	22.22	-0.111	0.537
Plot 109	10	3	30	0.0025	0.01325	0.01795	0.02375	0.07	0.012	0.003	No	18	7	38.89	-0.118	0.505
Plot 110	10	2	20	0.0057	0.01265	0.01925	0.02415	0.11	0.014	0.006	No	18	5	27.78	-0.170	0.328
Plot 114	10	3	30	0.0196	0.02175	0.025	0.02575	0.0362	0.02	0.026	No	18	6	33.33	-0.163	0.349
Plot 117	9	2	22	0.0085	0.0155	0.0182	0.025	0.26	0.016	---	---	17	4	23.53	-0.206	0.249
Plot 123	10	2	20	0.0112	0.0141	0.0156	0.023175	0.08	0.014	0.018	No	18	6	33.33	0.000	1.000
Plot 402	10	3	30	0.0135	0.0165	0.01905	0.023775	0.025	0.017	0.016	No	18	7	38.89	0.020	0.936
Mo (mg/kg)																
Live Moss																
Plot 4	8	0	0	0.386	0.47075	0.5375	0.6335	0.89	0.413	0.386	No	16	1	6.25	0.200	0.299
Plot 11	8	0	0	0.042	0.12425	0.143	0.17575	0.32	0.107	0.042	No	16	1	6.25	-0.108	0.589
Plot 70	8	2	25	0.05	0.083	0.109	0.1195	0.24	0.094	0.118	No	16	3	18.75	-0.217	0.258
Plot 71	8	2	25	0.05	0.11225	0.1665	0.216	0.23	0.222	0.181	No	16	3	18.75	0.133	0.498
Plot 109	8	0	0	0.041	0.37125	0.4075	0.5845	0.682	0.375	0.041	No	16	1	6.25	-0.050	0.822
Plot 110	8	0	0	0.063	0.142	0.172	0.2125	2.9	0.124	0.063	No	16	1	6.25	-0.033	0.893
Plot 114	8	0	0	0.28	0.37925	0.461	0.54525	0.69	0.466	0.281	No	16	1	6.25	0.142	0.470
Plot 117	7	0	0	0.1	0.132	0.142	0.156	0.34	0.142	---	---	15	1	6.67	0.181	0.373
Plot 123	8	2	25	0.05	0.06425	0.0785	0.0925	0.23	0.081	0.069	No	16	3	18.75	-0.167	0.390
Plot 402	8	1	13	0.05	0.10075	0.1125	0.163	0.43	0.123	0.163	No	16	3	18.75	0.217	0.257
Labrador Tea Leaves																
Plot 4	10	2	20	0.031	0.0445	0.047	0.05	0.055	0.032	0.031	No	18	4	22.22	-0.183	0.299
Plot 11	10	7	70	0.01	0.01	0.0205	0.03175	0.065	0.01	0.01	No	18	11	61.11	---	---
Plot 70	10	7	70	0.01	0.01	0.021	0.02425	0.05	0.021	0.01	No	18	12	66.67	---	---
Plot 71	10	6	60	0.01	0.01275	0.0225	0.03025	0.05	0.01	0.022	**Yes**	18	11	61.11	---	---
Plot 109	10	3	30	0.01	0.03275	0.037	0.05	0.056	0.025	0.01	No	18	6	33.33	-0.209	0.227
Plot 110	10	6	60	0.01	0.01375	0.0265	0.03875	0.05	0.029	0.01	No	18	11	61.11	---	---
Plot 114	10	2	20	0.026	0.0405	0.047	0.05	0.063	0.027	0.046	**Yes**	18	5	27.78	-0.085	0.641
Plot 117	9	6	67	0.01	0.01	0.021	0.05	0.078	0.01	---	---	17	10	58.82	---	---
Plot 123	10	8	80	0.01	0.01	0.016	0.031	0.05	0.01	0.01	No	18	11	61.11	---	---
Plot 402	10	4	40	0.01	0.022	0.028	0.046	0.083	0.034	0.022	No	18	7	38.89	-0.137	0.430

Appendix D.1

Summary of Basic Statistics and Trend Analysis - Live Moss and Labrador Tea Leaves

Veolia

W ½ 06-067-08 W5M

Sample Point	Summary Statistics [3]								2025 Increases			Mann Kendal Trend Analysis [1,2,3]				
	n	Non-Detect Count	% Non-Detect	Minimum	25th Percentile	Median	75th Percentile	Maximum	Previous Value [5]	2025 Value	> 40% Change (*)	n	Non-Detect Count	% Non-Detect	Tau [4]	p-value [4]
Ni (mg/kg)																
Live Moss																
Plot 4	8	0	0	1.6	2.025	2.29	2.465	3.5	2.03	2.01	No	16	0	0.00	-0.425	**0.024**
Plot 11	8	1	13	0.44	0.875	1.125	1.39	2	1.12	0.44	No	16	5	31.25	0.050	0.818
Plot 70	8	0	0	1.31	1.3675	1.4	1.5825	2.6	1.31	1.37	No	16	2	12.50	-0.433	**0.021**
Plot 71	8	2	25	0.5	0.7025	1.07	1.25	1.5	1.21	1.07	No	16	6	37.50	-0.025	0.926
Plot 109	8	1	13	0.24	1.175	1.81	2.21	2.84	1.92	0.24	No	16	1	6.25	-0.475	**0.012**
Plot 110	8	2	25	0.3	0.5	0.645	0.6975	1.3	0.65	0.3	No	16	9	56.25	---	---
Plot 114	8	0	0	1.1	1.7425	1.91	2.1175	2.7	1.99	1.54	No	16	3	18.75	0.008	1.000
Plot 117	7	0	0	1.3	1.55	1.76	1.865	2.4	1.91	---	---	15	3	20.00	0.000	1.000
Plot 123	8	2	25	0.5	0.98	1.28	1.335	2	1.33	1.33	No	16	8	50.00	---	---
Plot 402	8	1	13	0.5	1.46	1.655	2.1175	3.11	1.6	3.11	**Yes**	16	8	50.00	---	---
Labrador Tea Leaves																
Plot 4	10	3	30	0.5	0.52	0.585	0.5975	0.73	0.58	0.6	No	18	9	50.00	---	---
Plot 11	10	4	40	0.1	0.3725	0.44	0.4975	0.65	0.33	0.1	No	18	12	66.67	---	---
Plot 70	10	3	30	0.38	0.4225	0.5	0.5075	0.52	0.42	0.43	No	18	9	50.00	---	---
Plot 71	10	3	30	0.33	0.4025	0.435	0.5	0.6	0.4	0.41	No	18	11	61.11	---	---
Plot 109	10	3	30	0.21	0.5	0.605	0.7575	0.98	0.64	0.21	No	18	11	61.11	---	---
Plot 110	10	4	40	0.1	0.365	0.465	0.5	0.65	0.35	0.1	No	18	12	66.67	---	---
Plot 114	10	1	10	0.5	0.83	1.09	1.46	1.52	1.51	1.48	No	18	8	44.44	0.359	**0.028**
Plot 117	9	3	33	0.45	0.5	0.5	0.77	1.31	0.45	---	---	17	10	58.82	---	---
Plot 123	10	3	30	0.5	0.5475	0.755	0.8075	1	0.8	0.98	No	18	10	55.56	---	---
Plot 402	10	3	30	0.31	0.4425	0.495	0.5	0.71	0.31	0.48	**Yes**	18	10	55.56	---	---
Pb (mg/kg)																
Live Moss																
Plot 4	8	0	0	9.13	9.265	11.85	13.45	16	9.13	9.16	No	16	0	0.00	-0.350	0.065
Plot 11	8	0	0	0.718	1.8575	2.165	2.765	2.9	1.73	0.718	No	16	3	18.75	-0.183	0.341
Plot 70	8	0	0	1.14	1.3225	1.575	1.84	2.7	1.3	1.14	No	16	1	6.25	-0.550	**0.003**
Plot 71	8	0	0	0.871	0.988	1.365	1.85	2.54	1.67	1.06	No	16	4	25.00	-0.067	0.746
Plot 109	8	0	0	0.903	9.445	11.035	13	19.2	9.77	0.903	No	16	0	0.00	-0.542	**0.004**
Plot 110	8	0	0	0.529	1.91	2.735	3.625	3.9	1.67	0.529	No	16	3	18.75	-0.092	0.650
Plot 114	8	0	0	3.4	7.5375	8.605	9.4475	12.6	9.33	6.99	No	16	0	0.00	0.000	1.000
Plot 117	7	0	0	1.5	2.055	2.1	2.155	2.26	2.08	---	---	15	2	13.33	-0.200	0.320
Plot 123	8	0	0	0.53	0.57775	0.7445	0.86675	1.29	0.744	0.571	No	16	6	37.50	-0.067	0.724
Plot 402	8	0	0	0.82	1.029	1.3	1.465	1.79	0.906	1.79	**Yes**	16	6	37.50	0.233	0.179
Labrador Tea Leaves																
Plot 4	10	0	0	0.201	0.334	0.496	0.674	0.72	0.238	0.201	No	18	6	33.33	-0.327	**0.044**
Plot 11	10	3	30	0.03	0.087	0.128	0.22225	0.32	0.086	0.03	No	18	10	55.56	---	---
Plot 70	10	3	30	0.044	0.05225	0.059	0.20375	0.25	0.052	0.051	No	18	11	61.11	---	---
Plot 71	10	3	30	0.039	0.05175	0.056	0.20175	0.25	0.039	0.051	No	18	11	61.11	---	---
Plot 109	10	3	30	0.026	0.10225	0.239	0.25	0.638	0.095	0.026	No	18	8	44.44	-0.242	0.140
Plot 110	10	3	30	0.052	0.0675	0.084	0.2165	0.25	0.06	0.116	**Yes**	18	10	55.56	---	---
Plot 114	10	3	30	0.193	0.25	0.2685	0.337	0.734	0.193	0.287	**Yes**	18	10	55.56	---	---
Plot 117	9	3	33	0.07	0.076	0.092	0.25	0.25	0.091	---	---	17	11	64.71	---	---
Plot 123	10	3	30	0.032	0.04575	0.0515	0.20175	0.25	0.036	0.051	**Yes**	18	10	55.56	---	---
Plot 402	10	3	30	0.047	0.0575	0.064	0.2085	0.25	0.059	0.068	No	18	11	61.11	---	---

Appendix D.1

Summary of Basic Statistics and Trend Analysis - Live Moss and Labrador Tea Leaves

Veolia

W ½ 06-067-08 W5M

Sample Point	Summary Statistics [3]								2025 Increases			Mann Kendal Trend Analysis [1,2,3]				
	n	Non-Detect Count	% Non-Detect	Minimum	25th Percentile	Median	75th Percentile	Maximum	Previous Value [5]	2025 Value	> 40% Change (*)	n	Non-Detect Count	% Non-Detect	Tau [4]	p-value [4]
Sb (mg/kg)																
Live Moss																
Plot 4	8	0	0	0.19	0.22425	0.271	0.308	0.44	0.226	0.219	No	16	1	6.25	-0.333	0.078
Plot 11	8	3	38	0.018	0.0515	0.0595	0.07225	0.13	0.052	0.018	No	16	6	37.50	-0.208	0.260
Plot 70	8	2	25	0.032	0.0345	0.042	0.07	0.13	0.032	0.035	No	16	8	50.00	---	---
Plot 71	8	2	25	0.021	0.0375	0.042	0.0775	0.21	0.036	0.038	No	16	9	56.25	---	---
Plot 109	8	0	0	0.023	0.2255	0.274	0.3065	0.455	0.258	0.023	No	16	1	6.25	-0.392	**0.038**
Plot 110	8	2	25	0.013	0.0485	0.056	0.0835	10	0.044	0.013	No	16	8	50.00	---	---
Plot 114	8	0	0	0.12	0.199	0.242	0.255	0.299	0.25	0.157	No	16	1	6.25	-0.083	0.685
Plot 117	7	3	43	0.05	0.059	0.066	0.0805	0.13	0.066	---	---	15	7	46.67	0.038	0.876
Plot 123	8	3	38	0.025	0.03175	0.0435	0.0525	0.13	0.043	0.032	No	16	9	56.25	---	---
Plot 402	8	2	25	0.025	0.032	0.036	0.07	0.16	0.033	0.025	No	16	9	56.25	---	---
Labrador Tea Leaves																
Plot 4	10	4	40	0.005	0.0175	0.0245	0.04825	0.13	0.019	0.005	No	18	10	55.56	---	---
Plot 11	10	10	100	0.005	0.005	0.005	0.03875	0.13	0.005	0.005	No	18	16	88.89	---	---
Plot 70	10	9	90	0.005	0.005	0.005	0.0405	0.13	0.005	0.005	No	18	15	83.33	---	---
Plot 71	10	10	100	0.005	0.005	0.005	0.03875	0.13	0.005	0.005	No	18	17	94.44	---	---
Plot 109	10	8	80	0.005	0.005	0.0115	0.045	0.13	0.005	0.005	No	18	15	83.33	---	---
Plot 110	10	10	100	0.005	0.005	0.005	0.03875	0.13	0.005	0.005	No	18	16	88.89	---	---
Plot 114	10	4	40	0.005	0.011	0.017	0.04225	0.13	0.011	0.011	No	18	11	61.11	---	---
Plot 117	9	8	89	0.005	0.005	0.005	0.06	0.18	0.005	---	---	17	15	88.24	---	---
Plot 123	10	9	90	0.005	0.005	0.005	0.0405	0.13	0.012	0.005	No	18	15	83.33	---	---
Plot 402	10	10	100	0.005	0.005	0.005	0.03875	0.13	0.005	0.005	No	18	16	88.89	---	---
Sn (mg/kg)																
Live Moss																
Plot 4	8	1	13	0.5	0.8	1.05	1.2925	1.6	0.81	0.77	No	16	5	31.25	-0.158	0.406
Plot 11	8	4	50	0.05	0.24	0.34	0.5	0.5	0.24	0.05	No	16	12	75.00	---	---
Plot 70	8	4	50	0.05	0.13	0.3	0.5	0.5	0.33	0.13	No	16	12	75.00	---	---
Plot 71	8	4	50	0.05	0.1625	0.27	0.5	0.5	0.17	0.35	**Yes**	16	12	75.00	---	---
Plot 109	8	3	38	0.05	0.5	0.84	1.07	1.47	0.86	0.05	No	16	5	31.25	-0.325	0.082
Plot 110	8	3	38	0.05	0.1275	0.25	0.5	1.9	0.13	0.05	No	16	11	68.75	---	---
Plot 114	8	1	13	0.5	0.835	1.085	1.2225	1.3	1.03	0.58	No	16	7	43.75	0.108	0.565
Plot 117	7	2	29	0.24	0.31	0.5	0.51	1.1	0.38	---	---	15	10	66.67	---	---
Plot 123	8	3	38	0.14	0.19	0.26	0.5	0.5	0.16	0.28	**Yes**	16	11	68.75	---	---
Plot 402	8	3	38	0.11	0.1375	0.34	0.5	3.53	0.18	0.14	No	16	11	68.75	---	---
Labrador Tea Leaves																
Plot 4	10	8	80	0.05	0.05	0.095	0.4775	0.5	0.05	0.05	No	18	15	83.33	---	---
Plot 11	10	8	80	0.05	0.05	0.105	0.4175	0.65	0.05	0.05	No	18	14	77.78	---	---
Plot 70	10	9	90	0.05	0.05	0.05	0.4675	0.5	0.05	0.05	No	18	16	88.89	---	---
Plot 71	10	10	100	0.05	0.05	0.05	0.3875	0.5	0.05	0.05	No	18	17	94.44	---	---
Plot 109	10	9	90	0.05	0.05	0.05	0.4025	0.5	0.05	0.05	No	18	16	88.89	---	---
Plot 110	10	10	100	0.05	0.05	0.05	0.3875	0.5	0.05	0.05	No	18	17	94.44	---	---
Plot 114	10	9	90	0.05	0.05	0.05	0.41	0.5	0.05	0.05	No	18	16	88.89	---	---
Plot 117	9	6	67	0.05	0.05	0.13	0.5	0.5	0.12	---	---	17	13	76.47	---	---
Plot 123	10	8	80	0.05	0.05	0.075	0.4075	0.5	0.05	0.05	No	18	14	77.78	---	---
Plot 402	10	8	80	0.05	0.05	0.115	0.4225	0.5	0.19	0.05	No	18	15	83.33	---	---

Appendix D.1

Summary of Basic Statistics and Trend Analysis - Live Moss and Labrador Tea Leaves

Veolia

W ½ 06-067-08 W5M

Sample Point	Summary Statistics [3]								2025 Increases			Mann Kendal Trend Analysis [1,2,3]				
	n	Non-Detect Count	% Non-Detect	Minimum	25th Percentile	Median	75th Percentile	Maximum	Previous Value [5]	2025 Value	> 40% Change (*)	n	Non-Detect Count	% Non-Detect	Tau [4]	p-value [4]
Zn (mg/kg)																
Live Moss																
Plot 4	8	0	0	76	80.175	90.75	92.9	101	80.9	89.5	No	16	0	0.00	0.683	**0.000**
Plot 11	8	0	0	31.2	44	48.6	51.95	66.1	50.5	31.2	No	16	0	0.00	-0.125	0.528
Plot 70	8	0	0	32	39.5	40.9	44.775	59	38.0	40.6	No	16	0	0.00	0.133	0.499
Plot 71	8	0	0	30.2	33.25	39.3	43.575	46.6	45.6	42.9	No	16	0	0.00	-0.233	0.224
Plot 109	8	0	0	18.9	49.25	70	80.2	89.3	81.4	18.9	No	16	0	0.00	0.233	0.224
Plot 110	8	0	0	22	50.75	59	62.975	71	51.0	22.0	No	16	0	0.00	-0.050	0.822
Plot 114	8	0	0	64	70.15	74.3	90.225	114	91.2	70.2	No	16	0	0.00	0.550	**0.003**
Plot 117	7	0	0	29	31.8	35	43.5	43.6	43.6	---	---	15	0	0.00	0.410	**0.037**
Plot 123	8	0	0	30	43.75	49.75	54.5	57.7	57.7	49.6	No	16	0	0.00	0.467	**0.013**
Plot 402	8	0	0	30	49.25	55	60.75	67	64.8	67.0	No	16	0	0.00	0.317	0.096
Labrador Tea Leaves																
Plot 4	10	0	0	21	28.925	29.9	33.65	41	28.6	39.7	No	18	0	0.00	0.333	0.058
Plot 11	10	0	0	12.3	18.425	26.15	28	32.9	22.7	12.3	No	18	0	0.00	0.020	0.940
Plot 70	10	0	0	20	22.55	24.8	26.625	30.3	22.1	30.0	No	18	0	0.00	-0.020	0.940
Plot 71	10	0	0	15	19.15	21.6	24.65	25.6	22.1	25.1	No	18	0	0.00	-0.203	0.255
Plot 109	10	0	0	6.88	17.95	22	22.8	24.7	20.8	6.88	No	18	0	0.00	-0.229	0.198
Plot 110	10	0	0	11.8	15.725	22.5	23.475	28.8	23.4	11.8	No	18	0	0.00	-0.137	0.449
Plot 114	10	0	0	20	25.3	27.1	29.175	33.6	26.2	33.6	No	18	0	0.00	0.183	0.305
Plot 117	9	0	0	15	18.9	20.1	22	25.4	20.8	---	---	17	0	0.00	-0.022	0.934
Plot 123	10	1	10	5	19.7	20.05	21.075	23.5	19.7	23.5	No	18	1	5.56	0.144	0.425
Plot 402	10	0	0	17	24.1	26.9	27.725	36	27.1	27.9	No	18	0	0.00	0.216	0.225
Total PCB Congeners (mg/kg)																
Live Moss																
Plot 4	9	0	0	0.159	0.221	0.43	0.862	1.09	0.199	0.373	**Yes**	21	0	0.00	-0.343	**0.032**
Plot 11	9	0	0	0.017	0.0236	0.0288	0.0508	0.0742	0.017	0.034	**Yes**	21	0	0.00	-0.481	**0.003**
Plot 70	9	0	0	0.0000653	0.000131	0.000137	0.000455	0.00057	0.00009	0.001	**Yes**	21	0	0.00	-0.629	**0.000**
Plot 71	9	0	0	0.0000748	0.000118	0.000142	0.000283	0.000384	0.0001	0.0004	**Yes**	21	1	4.76	-0.519	**0.001**
Plot 109	9	0	0	0.0684	0.0919	0.164	0.348	0.754	0.091	0.137	**Yes**	21	0	0.00	-0.238	0.139
Plot 110	9	0	0	0.00237	0.00351	0.00571	0.011	0.0169	0.011	0.006	No	21	0	0.00	-0.581	**0.000**
Plot 114	9	0	0	0.0335	0.0364	0.0643	0.127	0.202	0.034	0.074	**Yes**	21	0	0.00	-0.467	**0.003**
Plot 117	8	0	0	0.00441	0.0061075	0.01251	0.026375	0.0363	0.009	---	---	20	0	0.00	-0.463	**0.005**
Plot 123	9	0	0	0.00143	0.00267	0.00398	0.00575	0.0128	0.003	0.006	**Yes**	21	0	0.00	-0.362	**0.024**
Plot 402	9	0	0	0.000267	0.000675	0.00132	0.00144	0.00188	0.0004	0.001	**Yes**	21	0	0.00	-0.486	**0.002**
Labrador Tea Leaves																
Plot 4	10	0	0	0.0349	0.05315	0.06395	0.070325	0.131	0.043	0.05	No	22	0	0.00	-0.589	**0.000**
Plot 11	10	0	0	0.00343	0.0047675	0.00504	0.0075575	0.0113	0.003	0.005	No	22	0	0.00	-0.658	**0.000**
Plot 70	10	0	0	0.000142	0.00015625	0.000318	0.00042075	0.00159	0.0003	0.001	**Yes**	22	0	0.00	-0.407	**0.009**
Plot 71	10	0	0	0.0000741	0.000169	0.0002595	0.00051	0.00144	0.0002	0.001	**Yes**	22	0	0.00	-0.394	**0.011**
Plot 109	10	0	0	0.0104	0.022175	0.02545	0.035425	0.0731	0.01	0.022	**Yes**	22	0	0.00	-0.532	**0.001**
Plot 110	10	0	0	0.00141	0.00163	0.00208	0.0030775	0.00346	0.001	0.002	**Yes**	22	0	0.00	-0.545	**0.000**
Plot 114	10	0	0	0.00824	0.00963	0.01245	0.016225	0.0207	0.009	0.013	**Yes**	22	0	0.00	-0.606	**0.000**
Plot 117	9	0	0	0.00224	0.00252	0.00283	0.00517	0.00777	0.002	---	---	21	0	0.00	-0.600	**0.000**
Plot 123	10	0	0	0.000587	0.00071975	0.0008105	0.0011525	0.00176	0.001	0.001	No	22	0	0.00	-0.662	**0.000**
Plot 402	10	0	0	0.0003	0.00037075	0.000519	0.00056475	0.000725	0.001	0.001	No	22	1	4.55	-0.494	**0.001**
PCB TEQ (ng TEQ/kg)																

Appendix D.1

Summary of Basic Statistics and Trend Analysis - Live Moss and Labrador Tea Leaves

Veolia

W ½ 06-067-08 W5M

Sample Point	Summary Statistics [3]								2025 Increases			Mann Kendal Trend Analysis [1,2,3]				
	n	Non-Detect Count	% Non-Detect	Minimum	25th Percentile	Median	75th Percentile	Maximum	Previous Value [5]	2025 Value	> 40% Change (*)	n	Non-Detect Count	% Non-Detect	Tau [4]	p-value [4]
Live Moss																
Plot 4	9	0	0	20.8	26.2	50	101	136	26.2	50.0	**Yes**	20	0	0.00	-0.442	**0.007**
Plot 11	9	0	0	1.29	3.05	3.65	6.82	9.23	2.32	4.83	**Yes**	20	0	0.00	-0.547	**0.001**
Plot 70	9	0	0	0.0177	0.0241	0.0469	0.0598	0.201	0.018	0.201	**Yes**	20	0	0.00	0.116	0.492
Plot 71	9	0	0	0.00956	0.0211	0.0255	0.0332	0.162	0.025	0.162	**Yes**	20	0	0.00	0.247	0.133
Plot 109	9	0	0	7.74	11.9	17.4	37.4	80.6	11.9	17.4	**Yes**	20	0	0.00	-0.326	**0.048**
Plot 110	9	0	0	0.233	0.333	0.441	1.34	1.85	1.34	0.233	No	20	0	0.00	-0.611	**0.000**
Plot 114	9	0	0	2.98	3.7	6.04	8.95	19.8	3.51	7.3	**Yes**	20	0	0.00	-0.547	**0.001**
Plot 117	8	0	0	0.319	0.7005	1.21	2.9375	3.8	0.98	---	---	19	0	0.00	-0.439	**0.010**
Plot 123	9	0	0	0.222	0.379	0.438	0.529	1.54	0.394	0.438	No	20	0	0.00	-0.295	0.074
Plot 402	9	0	0	0.0296	0.131	0.157	0.183	0.274	0.03	0.183	**Yes**	20	0	0.00	0.042	0.820
Labrador Tea Leaves																
Plot 4	10	0	0	3.45	7.89	9.295	11.3	17	5.95	8.1	No	21	0	0.00	-0.757	**0.000**
Plot 11	10	0	0	0.385	0.65725	0.9095	1.01375	2.2	0.922	0.385	No	21	0	0.00	-0.467	**0.003**
Plot 70	10	0	0	0.0122	0.016975	0.05055	0.176	0.419	0.208	0.2	No	21	0	0.00	0.367	**0.021**
Plot 71	10	0	0	0.00721	0.0262	0.08935	0.243	0.288	0.195	0.284	**Yes**	21	0	0.00	0.429	**0.007**
Plot 109	10	0	0	1.26	2.2825	3.08	4.1575	7.47	1.26	2.92	**Yes**	21	0	0.00	-0.419	**0.009**
Plot 110	10	0	0	0.0916	0.14325	0.2425	0.31475	0.545	0.162	0.287	**Yes**	21	0	0.00	0.014	0.952
Plot 114	10	0	0	0.636	1.125	1.43	1.6175	2.41	1.49	0.889	No	21	0	0.00	-0.624	**0.000**
Plot 117	9	0	0	0.135	0.268	0.437	0.678	0.867	0.189	---	---	20	0	0.00	-0.079	0.649
Plot 123	10	0	0	0.0201	0.061525	0.1237	0.2185	0.254	0.254	0.229	No	21	0	0.00	0.214	0.183
Plot 402	10	0	0	0.0222	0.0481	0.09125	0.189	0.332	0.203	0.147	No	21	0	0.00	0.414	**0.008**

Appendix D.1

Summary of Basic Statistics and Trend Analysis - Live Moss and Labrador Tea Leaves

Veolia

W ½ 06-067-08 W5M

Sample Point	Summary Statistics [3]								2025 Increases			Mann Kendal Trend Analysis [1,2,3]				
	n	Non-Detect Count	% Non-Detect	Minimum	25th Percentile	Median	75th Percentile	Maximum	Previous Value [5]	2025 Value	> 40% Change (*)	n	Non-Detect Count	% Non-Detect	Tau [4]	p-value [4]
PCDD/PCDF TEQ (ng TEQ/kg)																
Live Moss																
Plot 4	9	0	0	2.06	5.69	8.66	26.7	34.4	4.21	8.66	**Yes**	22	0	0.00	-0.680	**0.000**
Plot 11	9	0	0	0.643	0.77	1.38	3.07	7.65	0.761	2.08	**Yes**	22	0	0.00	-0.732	**0.000**
Plot 70	9	0	0	0.117	0.148	0.272	0.354	0.623	0.277	0.557	**Yes**	22	0	0.00	-0.325	**0.037**
Plot 71	9	0	0	0.121	0.133	0.208	0.227	0.288	0.222	0.288	No	22	0	0.00	-0.524	**0.001**
Plot 109	9	0	0	1.49	3.05	6.03	21.4	70.7	3.05	6.16	**Yes**	22	0	0.00	-0.411	**0.008**
Plot 110	9	0	0	0.192	0.378	0.695	1.37	3.13	0.871	0.68	No	22	0	0.00	-0.550	**0.000**
Plot 114	9	0	0	0.689	0.805	2.38	3.82	9.13	0.804	2.38	**Yes**	22	0	0.00	-0.511	**0.001**
Plot 117	8	0	0	0.177	0.275	0.568	1.6175	2.36	0.439	---	---	21	0	0.00	-0.467	**0.003**
Plot 123	9	0	0	0.118	0.303	0.368	0.498	0.912	0.368	0.498	No	22	0	0.00	-0.532	**0.001**
Plot 402	9	0	0	0.109	0.209	0.232	0.318	0.422	0.232	0.422	**Yes**	22	0	0.00	-0.416	**0.007**
Labrador Tea Leaves																
Plot 4	10	0	0	0.268	0.7775	0.8265	1.1975	8.82	0.797	3.53	**Yes**	23	0	0.00	-0.292	0.054
Plot 11	10	0	0	0.22	0.4075	0.535	0.7215	4.51	0.463	2.63	**Yes**	23	0	0.00	0.024	0.895
Plot 70	10	0	0	0.127	0.28975	0.5075	0.67625	6.26	0.711	3.42	**Yes**	23	0	0.00	0.138	0.369
Plot 71	10	0	0	0.113	0.41375	0.691	1.0505	8.81	0.714	3.02	**Yes**	23	0	0.00	0.281	0.064
Plot 109	10	0	0	0.183	0.63625	0.8565	1.1275	3.88	0.617	2.67	**Yes**	23	0	0.00	0.040	0.812
Plot 110	10	0	0	0.107	0.653	0.8795	1.561	2.34	0.485	1.78	**Yes**	23	0	0.00	0.340	**0.025**
Plot 114	10	0	0	0.168	0.34175	0.7575	1.9325	4.65	0.542	3.47	**Yes**	23	0	0.00	0.087	0.579
Plot 117	9	0	0	0.191	0.608	0.754	0.888	9.45	0.608	---	---	22	0	0.00	0.281	0.071
Plot 123	10	0	0	0.231	0.62475	1.0805	2.0275	6.57	0.861	2.33	**Yes**	22	0	0.00	0.403	**0.009**
Plot 402	10	0	0	0.244	0.67075	1.04	1.9825	4.29	0.91	2.66	**Yes**	23	0	0.00	0.395	**0.009**
Total TEQ (ng TEQ/kg)																
Live Moss																
Plot 4	9	0	0	22.86	30.41	58.66	130	170.4	30.41	58.66	**Yes**	22	0	0.00	-0.372	**0.016**
Plot 11	9	0	0	1.933	4.409	4.43	10.27	16.88	3.081	6.91	**Yes**	22	0	0.00	-0.550	**0.000**
Plot 70	9	0	0	0.1441	0.2377	0.2948	0.4009	0.758	0.295	0.758	**Yes**	22	0	0.00	-0.333	**0.032**
Plot 71	9	0	0	0.13056	0.157	0.2467	0.2569	0.45	0.247	0.45	**Yes**	22	0	0.00	-0.481	**0.002**
Plot 109	9	0	0	10.01	14.95	23.56	58.8	151.3	14.95	23.56	**Yes**	22	0	0.00	-0.186	0.236
Plot 110	9	0	0	0.525	0.807	1.136	2.87	4.98	2.211	0.913	No	22	0	0.00	-0.697	**0.000**
Plot 114	9	0	0	3.929	4.505	9.47	12.77	28.29	4.314	9.68	**Yes**	22	0	0.00	-0.420	**0.007**
Plot 117	8	0	0	0.496	0.9395	1.778	4.555	6.16	1.419	---	---	21	0	0.00	-0.390	**0.014**
Plot 123	9	0	0	0.34	0.74	0.762	1.059	2.452	0.762	0.936	No	22	0	0.00	-0.455	**0.003**
Plot 402	9	0	0	0.214	0.2616	0.436	0.531	0.605	0.262	0.605	**Yes**	22	0	0.00	-0.325	**0.037**
Labrador Tea Leaves																
Plot 4	10	0	0	4.235	8.449	11.2525	14.4715	18.92	6.747	11.63	**Yes**	23	0	0.00	-0.439	**0.0037**
Plot 11	10	0	0	0.875	1.21125	1.4325	2.0325	6.71	1.385	3.015	**Yes**	23	0	0.00	-0.225	0.1391
Plot 70	10	0	0	0.1407	0.3047	0.55805	0.85825	6.679	0.919	3.62	**Yes**	23	0	0.00	0.162	0.2908
Plot 71	10	0	0	0.12021	0.43995	0.897	1.150775	9.069	0.909	3.304	**Yes**	23	0	0.00	0.277	0.0681
Plot 109	10	0	0	1.877	2.94975	4.197	6.469	8.391	1.877	5.59	**Yes**	23	0	0.00	-0.130	0.3980
Plot 110	10	0	0	0.305	0.82715	1.223	1.76725	2.636	0.647	2.067	**Yes**	23	0	0.00	0.304	**0.0447**
Plot 114	10	0	0	1.013	1.98775	2.5415	3.8475	5.76	2.032	4.359	**Yes**	23	0	0.00	-0.217	0.1538
Plot 117	9	0	0	0.522	0.797	1.081	1.453	10.317	0.797	---	---	22	0	0.00	0.264	0.0907
Plot 123	10	0	0	0.2861	0.7731	1.23765	2.197525	6.784	1.115	2.559	**Yes**	22	0	0.00	0.398	**0.0103**
Plot 402	10	0	0	0.4069	0.76535	1.17675	2.01545	4.622	1.113	2.807	**Yes**	23	0	0.00	0.514	**0.0007**

Notes:

* - "Yes" if 2024 sample exceeded 40% of 2023 sample value

bold - P-value <0.05 considered to be statistically significant

[1] - less than 6 samples - Mann Kendall trend test not performed

[2] - greater than 50% non detect - Mann Kendall trend test not performed

[3] - if a value was non-detect a value 1/2 the MDL was used for the purpose of trend analysis and determining summary statistics

[4] - a negative tau value indicates a decreasing trend and a positive tau value indicates an increasing trend. A p-value < 0.05 indicates the trend is statistically significant.

[5] - for Labrador tea, the previous value was from 2023; for live moss, 2022

Appendix D.2

Summary of Basic Statistics 2025 - Moss Bags by Deposition Zone (Acid-Washed Samples)

Veolia

W ½ 06-067-08 W5M

Sample Point	Summary Statistics [3,4]							
	n	Non-Detect Count	% Non-Detect	Minimum	25th Percentile	Median	75th Percentile	Maximum
Ag (mg/kg)								
Zone 1	4	0	0.0	0.0077	0.00815	0.00835	0.00845	0.0086
Zone 2	11	0	0.0	0.0068	0.00695	0.0075	0.01095	0.0157
Unexposed	3	0	0.0	0.0054	0.00585	0.0063	0.0063	0.0063
Al (%)								
Zone 1	4	0	0.0	0.029	0.0326	0.0347	0.0358	0.0364
Zone 2	11	0	0.0	0.027	0.031	0.0316	0.0345	0.0563
Unexposed	3	0	0.0	0.0237	0.0245	0.0253	0.02655	0.0278
As (mg/kg)								
Zone 1	4	0	0.0	0.239	0.25925	0.2725	0.2855	0.305
Zone 2	11	0	0.0	0.248	0.2515	0.254	0.2635	0.337
Unexposed	3	0	0.0	0.246	0.2525	0.259	0.264	0.269
Cd (mg/kg)								
Zone 1	4	0	0.0	0.0183	0.024975	0.03075	0.036775	0.0442
Zone 2	11	0	0.0	0.0178	0.02215	0.024	0.03475	0.0781
Unexposed	3	0	0.0	0.016	0.01655	0.0171	0.01825	0.0194
Cr (mg/kg)								
Zone 1	4	0	0.0	0.673	0.68125	0.6995	0.74375	0.83
Zone 2	11	0	0.0	0.651	0.698	0.731	0.757	0.975
Unexposed	3	0	0.0	0.602	0.612	0.622	0.6425	0.663
Cu (mg/kg)								
Zone 1	4	0	0.0	1.69	1.78	1.86	1.91	1.91
Zone 2	11	0	0.0	1.57	1.675	1.77	2.05	2.8
Unexposed	3	0	0.0	1.48	1.49	1.5	1.51	1.52
Hg (mg/kg)								
Zone 1	4	0	0.0	0.0464	0.049925	0.05225	0.057925	0.0715
Zone 2	11	0	0.0	0.0332	0.04055	0.0412	0.0453	0.0714
Unexposed	3	0	0.0	0.034	0.03515	0.0363	0.03635	0.0364
Mo (mg/kg)								
Zone 1	4	0	0.0	0.366	0.38475	0.3915	0.39475	0.403
Zone 2	11	0	0.0	0.36	0.3835	0.414	0.439	0.49
Unexposed	3	0	0.0	0.366	0.371	0.376	0.5	0.624
Ni (mg/kg)								
Zone 1	4	0	0.0	0.46	0.565	0.61	0.625	0.64
Zone 2	11	0	0.0	0.43	0.505	0.55	0.62	0.84
Unexposed	3	0	0.0	0.4	0.41	0.42	0.435	0.45
Pb (mg/kg)								
Zone 1	4	0	0.0	0.64	0.751	0.7955	0.80675	0.818
Zone 2	11	0	0.0	0.535	0.553	0.581	0.616	0.799
Unexposed	3	0	0.0	0.517	0.527	0.537	0.5375	0.538
Sb (mg/kg)								
Zone 1	4	0	0.0	0.056	0.05825	0.0605	0.06225	0.063
Zone 2	11	0	0.0	0.049	0.0535	0.055	0.0595	0.065
Unexposed	3	0	0.0	0.042	0.0455	0.049	0.05	0.051
Sn (mg/kg)								
Zone 1	4	1	25.0	0.05	0.1475	0.19	1.2675	4.47
Zone 2	11	5	45.5	0.05	0.05	0.11	0.17	0.34
Unexposed	3	1	33.3	0.05	0.095	0.14	0.155	0.17
Zn (mg/kg)								
Zone 1	4	0	0.0	4.74	7.1625	8.675	9.885	11.4
Zone 2	11	0	0.0	4.2	5.35	6.06	8.275	14
Unexposed	3	0	0.0	5.06	5.245	5.43	5.45	5.47

Notes:

[1] - if a value was non-detect a value 1/2 the MDL was used for the purpose of trend analysis and determining summary stat

[2] - Max/min values are representative of the values reported at any plot within the zone.

Appendix D.3

Comparison of Deposition Zones 1 and 2 (2009 - 2025) to Unexposed Moss in Moss Bags

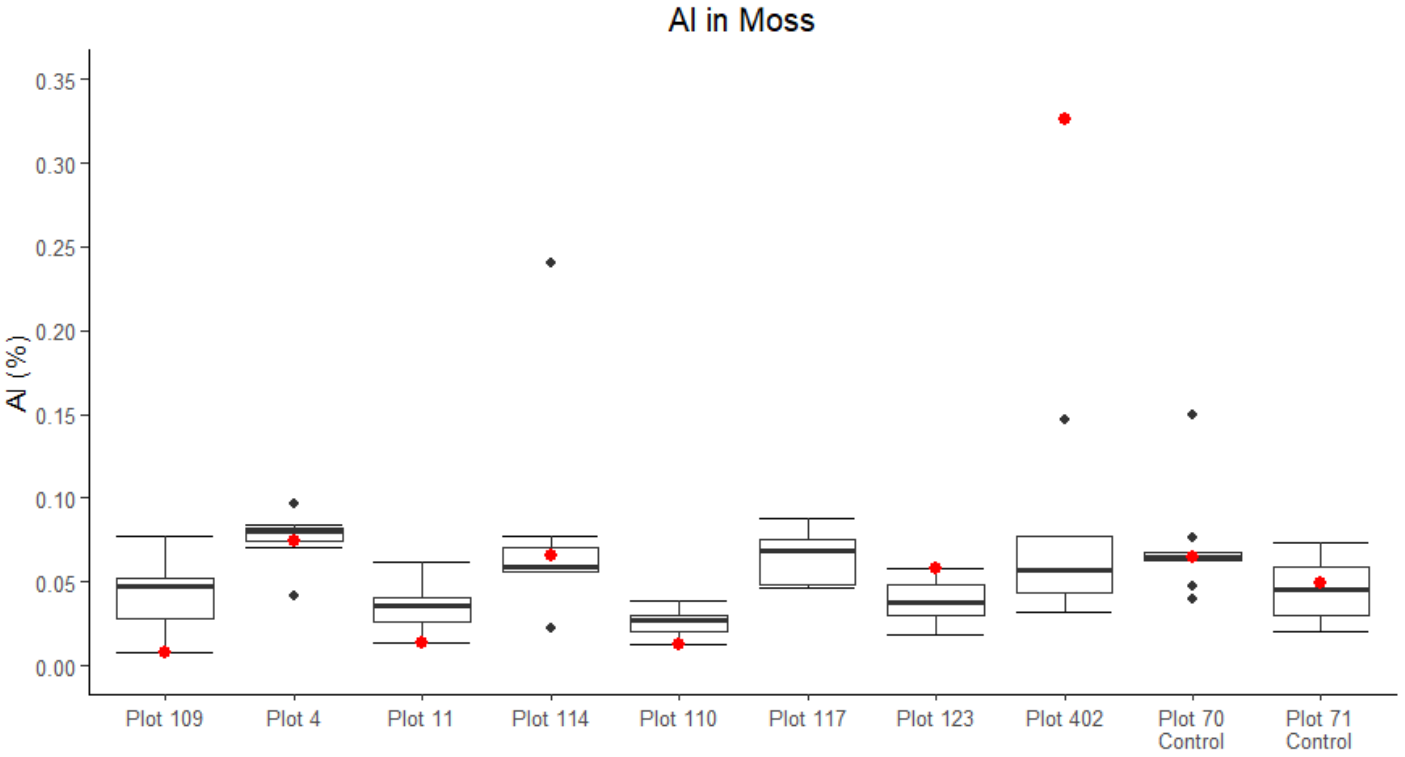
Veolia

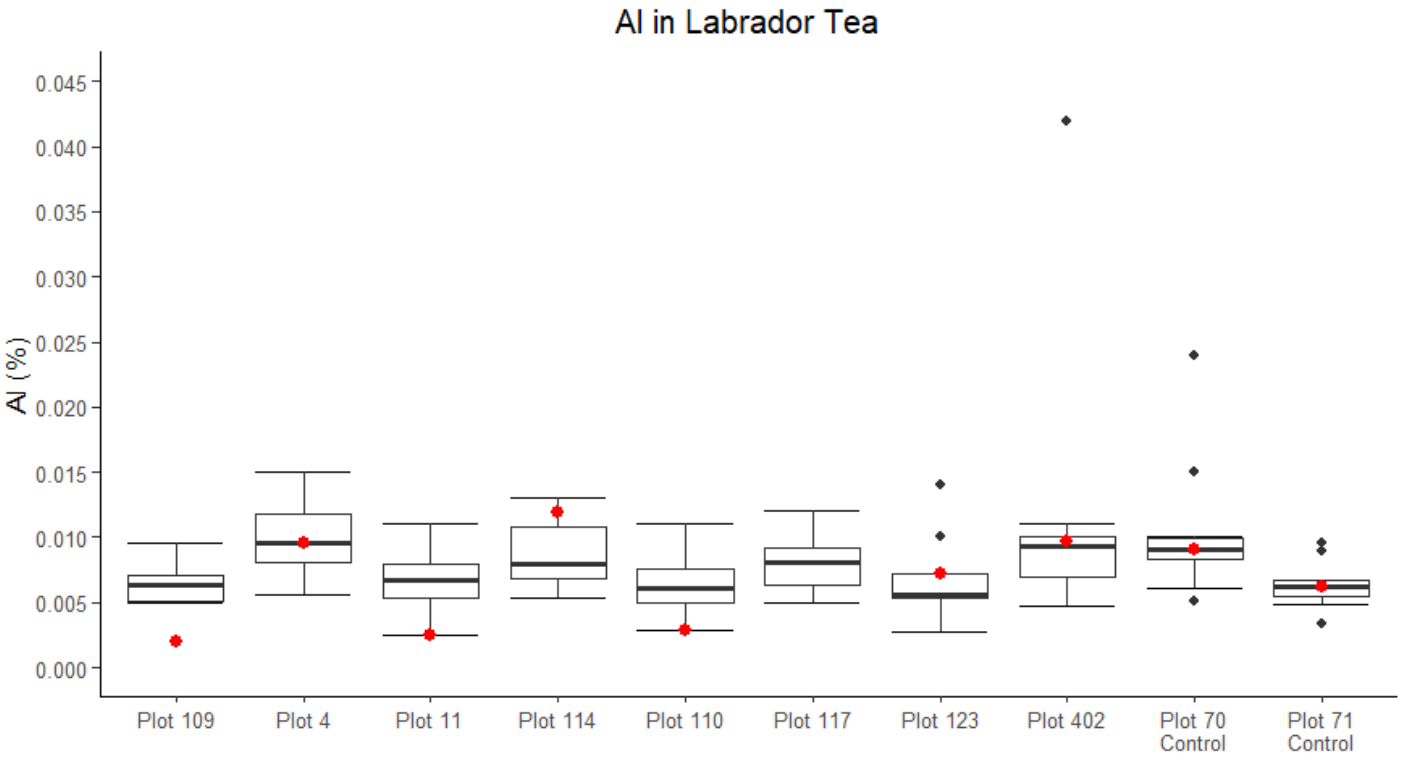
W ½ 06-067-08 W5M

Parameter	Average Concentrations																																						
	2009			2011			2013			2014			2016			2018			2019			2021			2022			2023			2024			2025							
	Unexposed	Zone 1	Zone 2	Unexposed	Zone 1	Zone 2	Unexposed	Zone 1	Zone 2	Unexposed	Zone 1	Zone 2	Unexp	Zone 1	Zone 2	Unexposed	Zone 1	Zone 2	Unexposed	Zone 1	Zone 2	Unexposed	Zone 1	Zone 2	Unexposed	Zone 1	Zone 2	Unexposed	Zone 1	Zone 2	Unexposed	Zone 1	Zone 2	Unexposed	Zone 1	Zone 2			
	n=3	n=4	n=10	n=3	n=3	n=11	n=3	n=4	n=9	n=3	n=4	n=11	n=3	n=4	n=8	n=3	n=4	n=10	n=3	n=3	n=12	n=3	n=4	n=11	n=3	n=4	n=11	n=3	n=4	n=11	n=3	n=4	n=11	n=3	n=4	n=11			
Ag (mg/kg)	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.100	0.100	0.100	0.100	0.100	0.182	0.006	0.009	0.008	0.023	0.018	0.017	0.007	0.010	0.008	0.006	0.010	0.010	0.007	0.009	0.009	0.006	0.008	0.009			
Al (%)	0.203	0.269	0.263	0.233	0.226	0.234	0.254	0.221	0.221	0.144	**0.386**	**0.163**	0.053	0.065	0.070	0.052	0.057	0.060	0.020	0.022	0.021	0.096	0.101	0.089	0.026	0.028	0.031	0.025	0.031	0.031	0.029	0.030	0.028	0.026	0.034	0.035			
As (mg/kg)	0.296	0.369	0.369	0.359	0.312	0.329	0.251	0.250	0.209	0.238	**0.539**	**0.279**	0.277	0.285	0.304	0.283	0.498	0.341	0.215	**0.273**	**0.194**	0.640	0.628	0.600	0.264	0.317	0.285	0.258	0.284	0.271	0.283	0.265	0.252	0.258	0.272	0.267			
Cd (mg/kg)	0.150	0.170	0.115	0.127	**0.227**	**0.111**	0.133	0.243	0.189	0.090	**0.170**	**0.109**	0.123	**0.170**	**0.139**	0.140	0.218	0.183	0.003	**0.018**	**0.010**	0.008	0.012	0.009	0.014	0.024	0.025	0.017	0.033	0.027	0.014	0.023	0.020	0.018	0.031	0.032			
Cr (mg/kg)	2.533	3.250	3.490	4.300	4.567	4.991	6.267	2.850	3.111	2.833	8.275	4.618	1.100	0.875	1.050	1.667	4.075	3.870	0.526	0.512	0.478	1.917	2.168	1.996	0.725	0.735	0.738	0.639	0.694	0.733	0.736	0.684	0.612	0.629	0.726	0.756			
Cu (mg/kg)	3.900	5.200	4.540	5.333	**5.433**	**3.327**	5.333	5.850	4.656	2.633	3.950	3.073	4.600	3.850	6.113	5.133	5.650	5.860	0.707	**1.073**	**0.731**	5.023	2.138	1.867	1.517	1.938	1.763	1.493	1.920	1.786	1.430	1.900	1.614	1.500	1.830	1.926			
Hg (mg/kg)	0.063	0.088	0.059	0.063	0.067	0.050	0.070	0.075	0.062	0.400	0.380	0.377	0.037	0.074	0.066	0.079	0.145	0.128	0.029	**0.043**	**0.036**	0.068	0.075	0.067	0.039	0.068	0.051	0.036	0.055	0.049	0.036	0.049	0.049	0.036	0.056	0.045			
Mo (mg/kg)	0.080	0.240	0.254	0.090	0.160	0.216	0.190	0.220	0.181	0.117	0.323	0.167	0.167	0.263	0.231	0.267	0.483	0.395	0.330	0.342	0.328	0.972	0.755	0.699	0.421	0.474	0.457	0.381	0.417	0.457	0.402	0.431	0.432	0.455	0.388	0.414			
Ni (mg/kg)	1.000	2.350	2.060	11.567	6.800	6.864	3.767	2.075	2.000	1.000	4.525	2.655	1.233	1.550	1.688	1.800	3.225	3.190	0.397	0.430	0.393	0.697	0.748	0.721	0.433	0.568	0.615	0.440	0.553	0.539	0.450	0.533	0.480	0.423	0.580	0.587			
Pb (mg/kg)	4.467	8.475	7.720	5.167	6.867	7.664	4.300	**5.575**	**4.144**	3.600	**8.050**	**4.309**	3.967	5.125	4.788	4.333	5.925	5.030	3.107	**2.917**	**2.500**	3.320	2.940	2.431	0.554	0.979	0.745	0.549	0.841	0.633	0.562	0.809	0.624	0.531	0.762	0.605			
Sb (mg/kg)	0.050	7.400	9.190	0.133	16.600	8.218	2.433	18.200	20.844	0.333	18.100	10.873	0.197	11.450	10.663	0.130	**10.125**	**16.600**	0.031	0.055	0.047	0.071	0.055	0.052	0.049	0.074	0.064	0.043	0.069	0.056	0.048	0.062	0.054	0.047	0.060	0.056			
Sn (mg/kg)	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	3.243	3.023	2.986	1.943	0.105	0.069	0.410	0.578	1.155	0.640	0.260	0.321	0.293	0.348	0.391	0.120	1.225	0.127			
Zn (mg/kg)	18.700	38.675	46.340	21.067	40.433	34.109	33.800	37.125	37.289	22.033	32.900	31.118	19.000	31.500	26.375	27.000	32.250	37.400	2.337	**6.257**	**3.317**	2.637	4.005	3.412	5.377	7.270	6.409	4.900	8.528	7.196	4.043	6.393	5.588	5.320	8.373	7.415			

	Zone significantly different from Unexposed (p<0.05)
bold	Significant difference between Zone 1 and Zone 2 (p<0.05)
red	Non-detect values present - 1/2 of MDL was used to calculate average concentrations

APPENDIX E
Box Plots and Trend Graphs - Annual Monitoring Plots





- Median
- Interquartile Range (IQR) (25th to 75th percentile)
- 1.5×IQR boundary or most extreme data value
- Outlier (Data point greater than 1.5×IQR)
- 2025 Sample

MONTROSE ENVIRONMENTAL

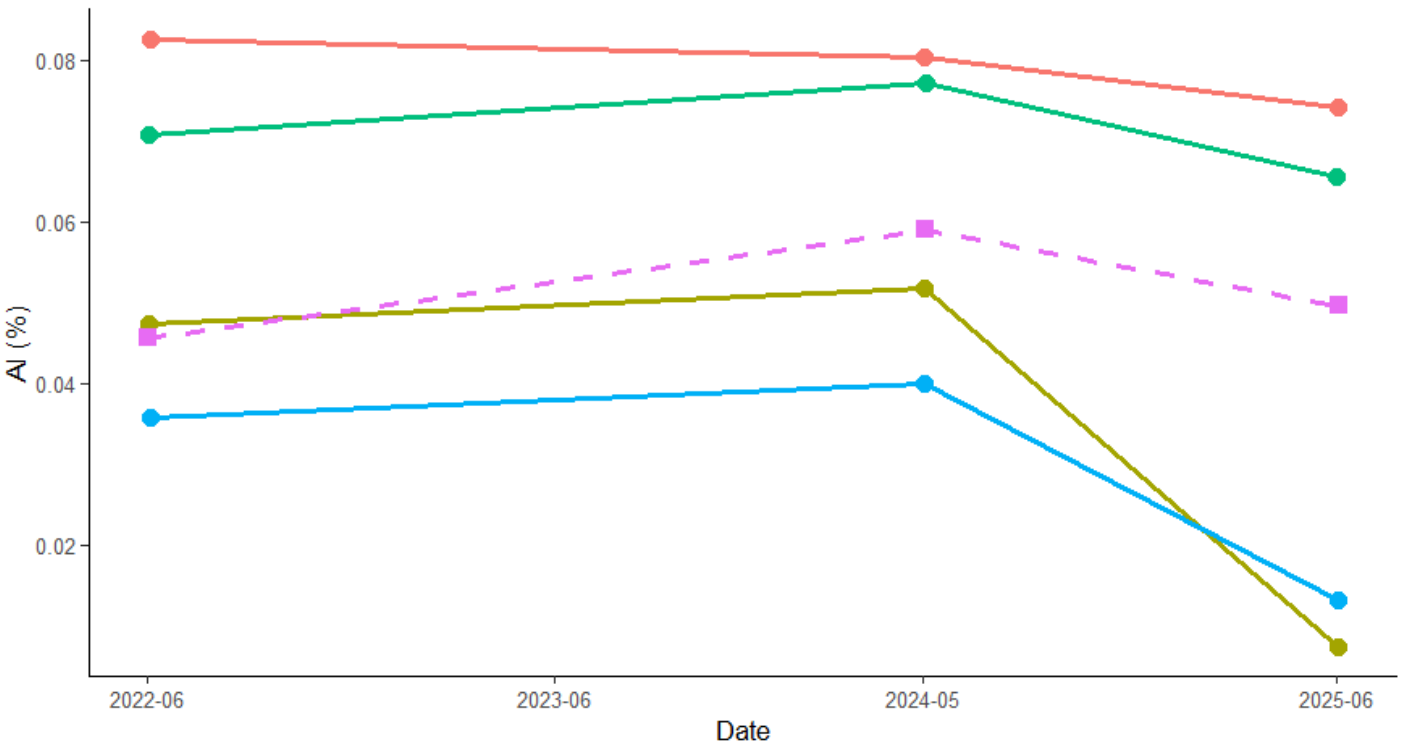
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Soil and Vegetation Monitoring Program

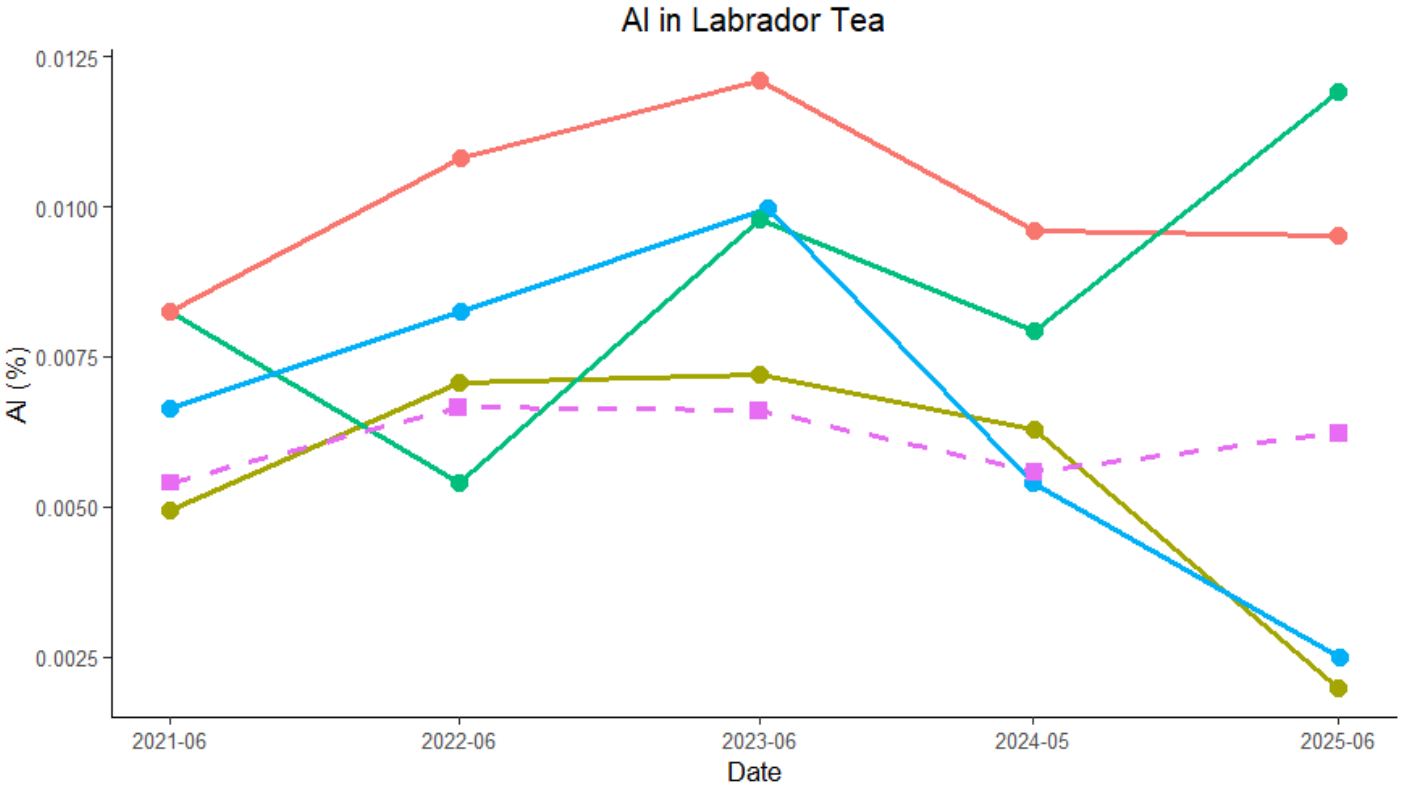
Aluminum

Date:	Project:	Technical:	Reviewer:	Drawn:
Jan. 22, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure E.1





Plot 4
Plot 109
Plot 114
Plot 11
Plot 71 - Control

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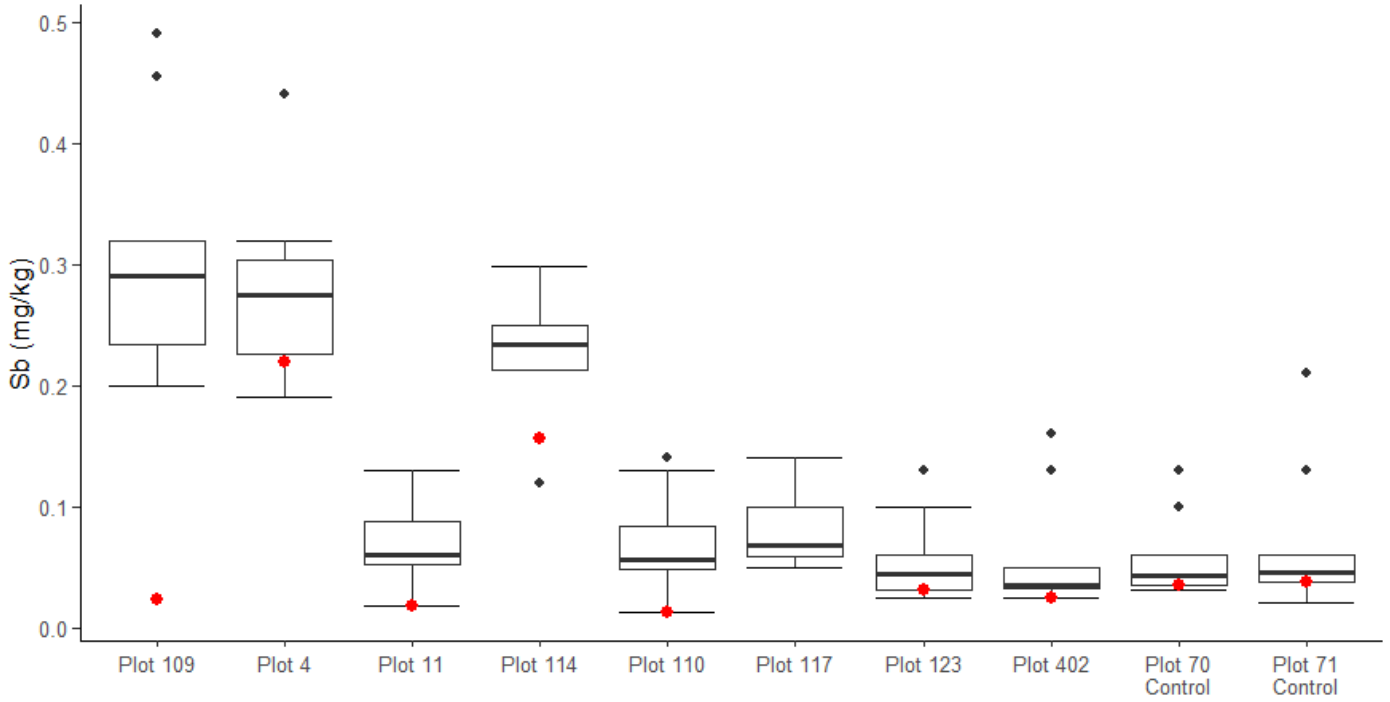
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Date:	Project:	Technical:	Reviewer:	Drawn:
Jan. 22, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

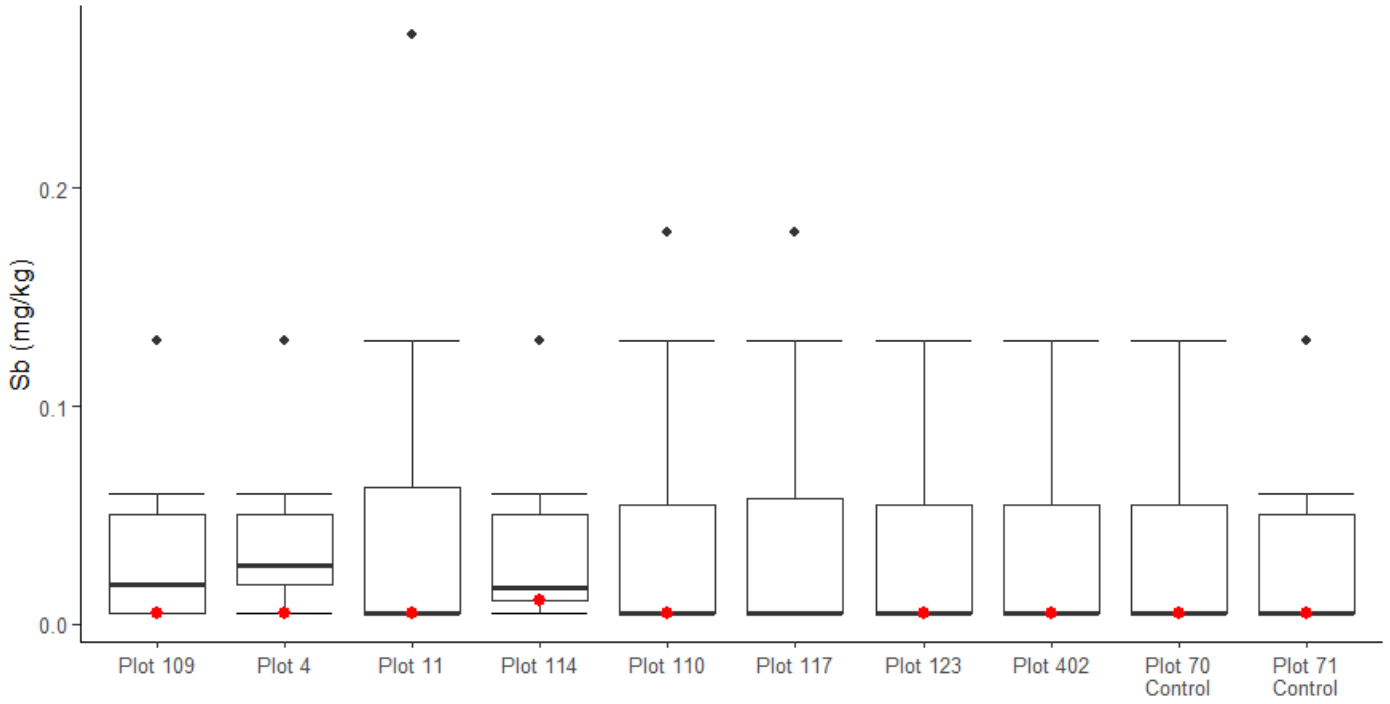
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Figure **E.2**

Sb in Moss



Sb in Labrador Tea



- Median
- Interquartile Range (IQR) (25th to 75th percentile)
- 1.5×IQR boundary or most extreme data value
- Outlier (Data point greater than 1.5×IQR)
- 2025 Sample

*Alberta Tier 1 Soil Guideline is 20 mg/kg

MONTROSE ENVIRONMENTAL

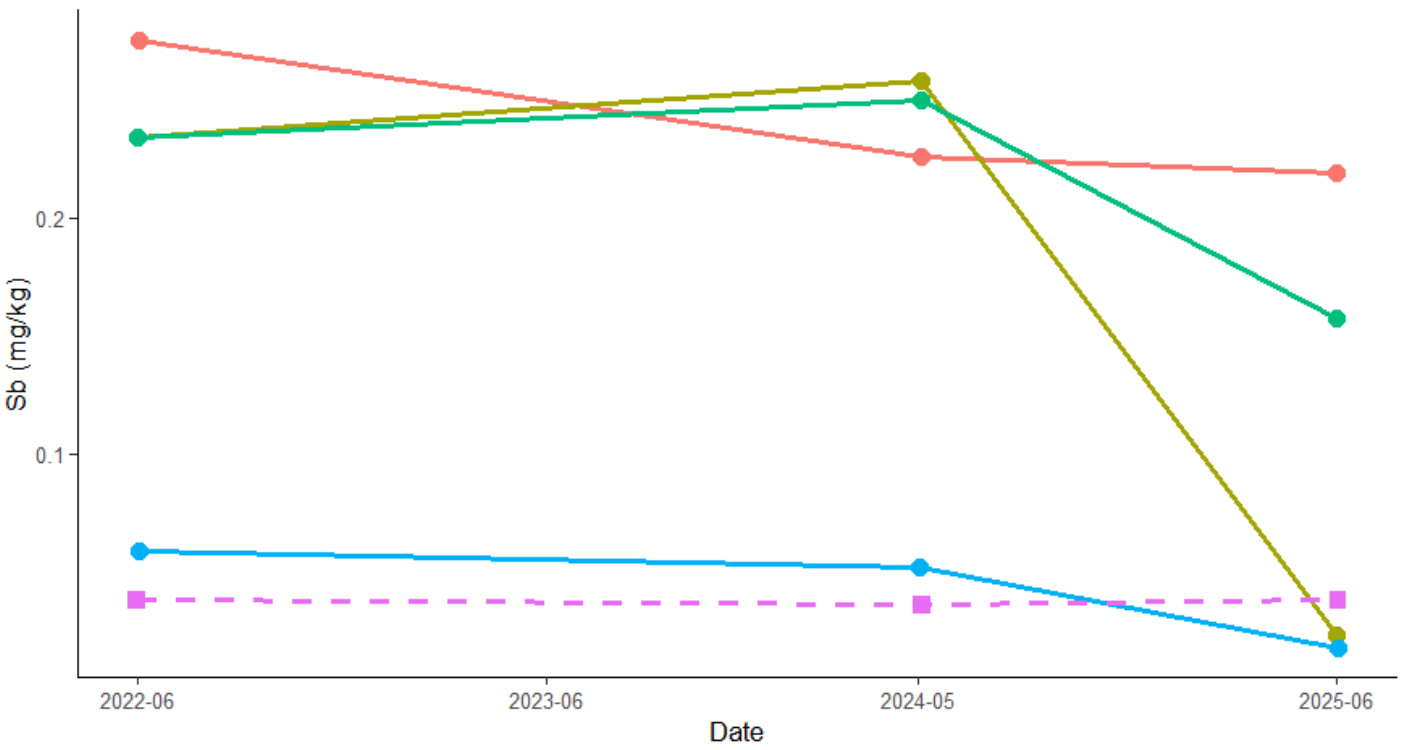
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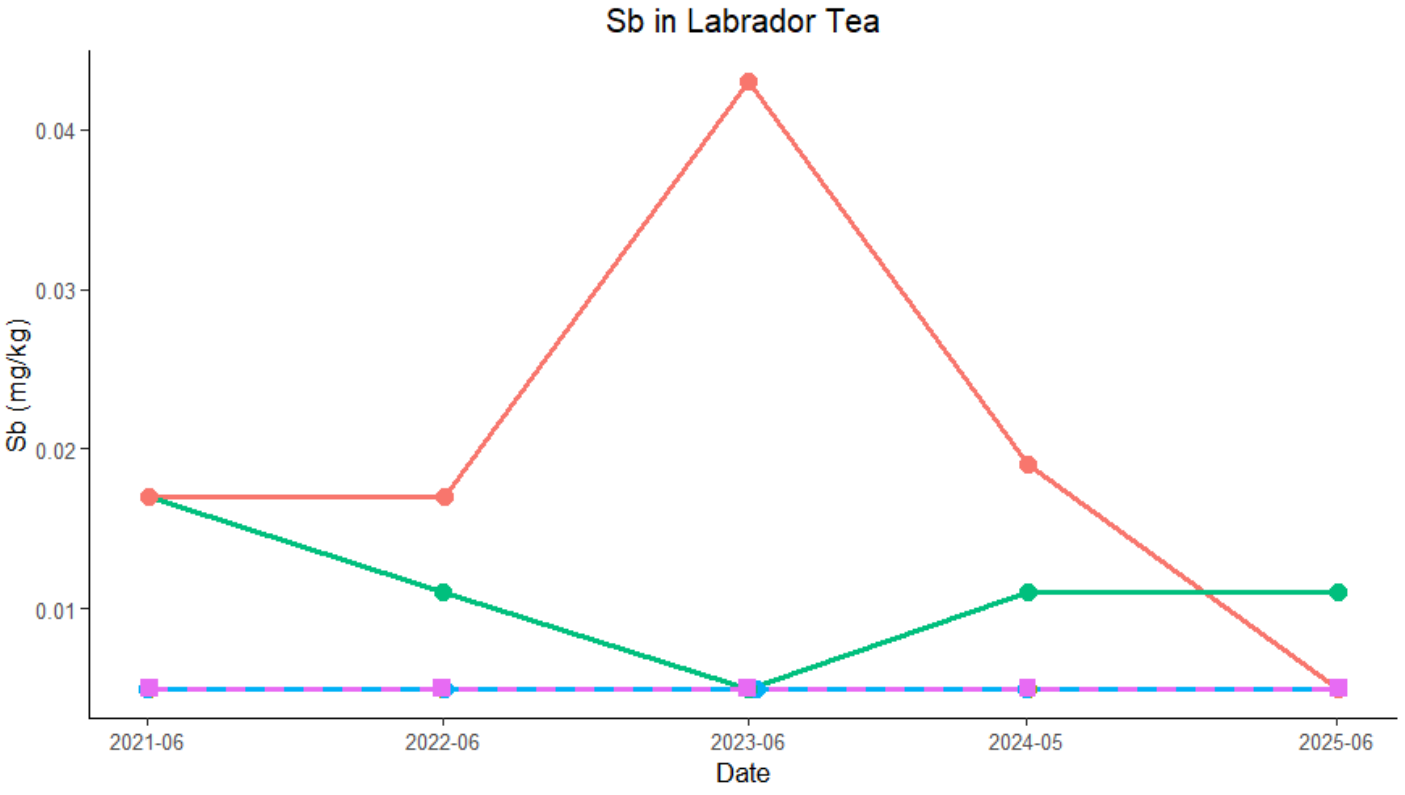
Antimony

Date:	Project:	Technical:	Reviewer:	Drawn:
Jan. 22, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure **E.3**





Plot 4
Plot 109
Plot 114
Plot 11
Plot 71 - Control

*Alberta Tier 1 Soil Guideline is 20 mg/kg

MONTROSE ENVIRONMENTAL

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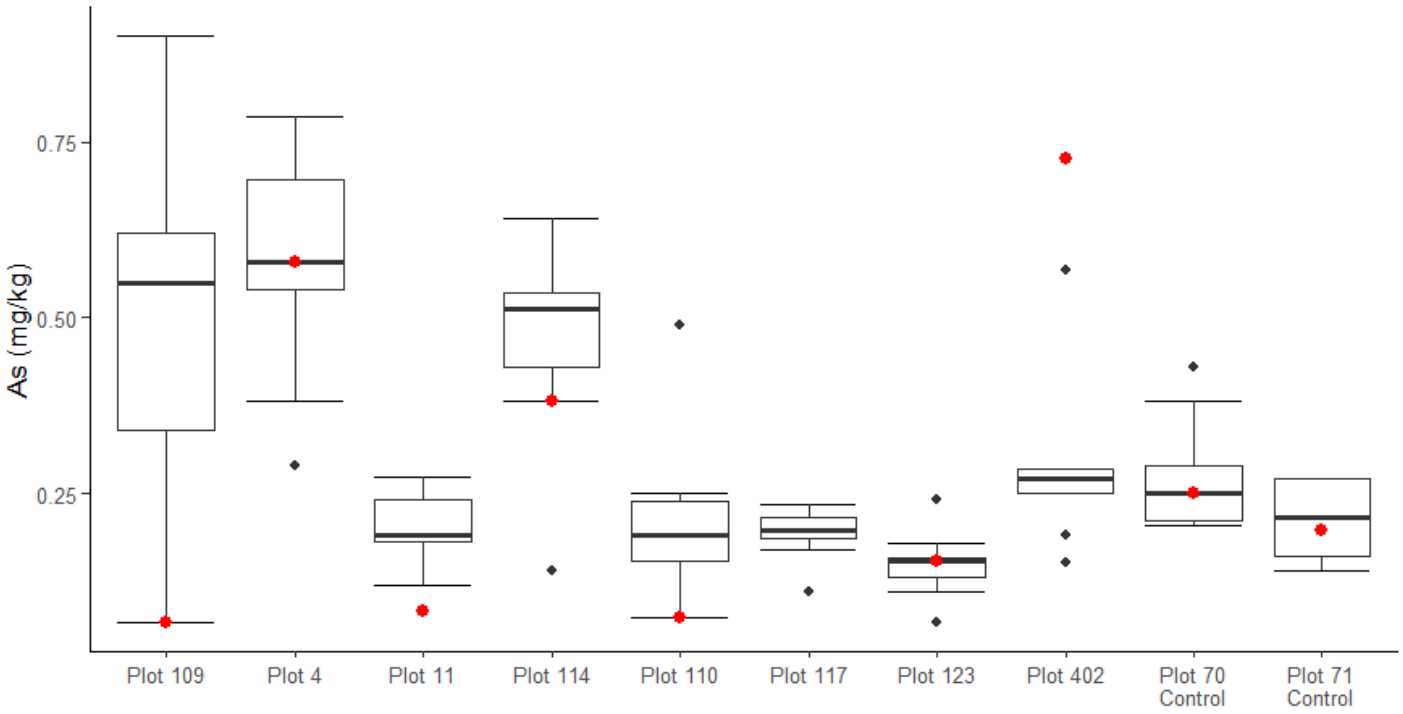
Antimony

Date:	Project:	Technical:	Reviewer:	Drawn:
Jan. 22, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

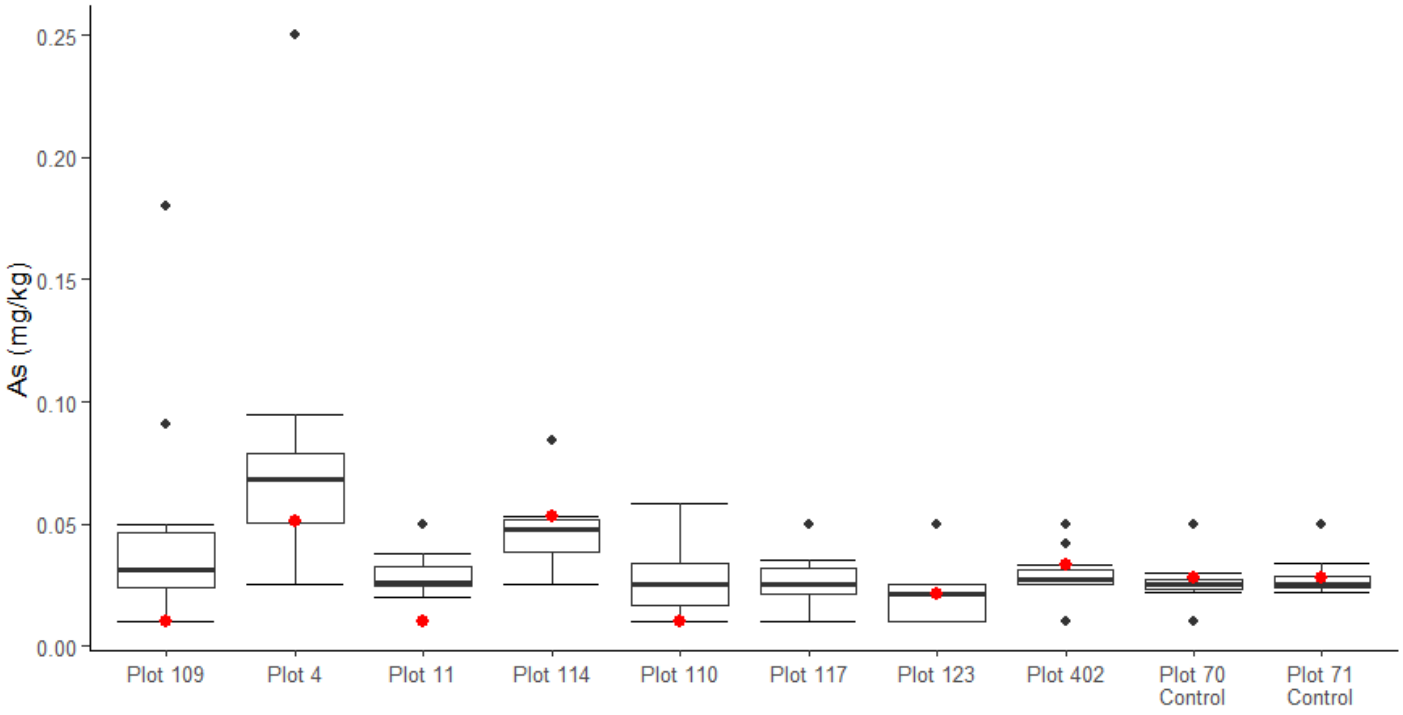
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Figure **E.4**

As in Moss



As in Labrador Tea



- Median
- Interquartile Range (IQR) (25th to 75th percentile)
- 1.5×IQR boundary or most extreme data value
- Outlier (Data point greater than 1.5×IQR)
- 2025 Sample

*Alberta Tier 1 Soil Guideline is 17 mg/kg

MONTROSE ENVIRONMENTAL

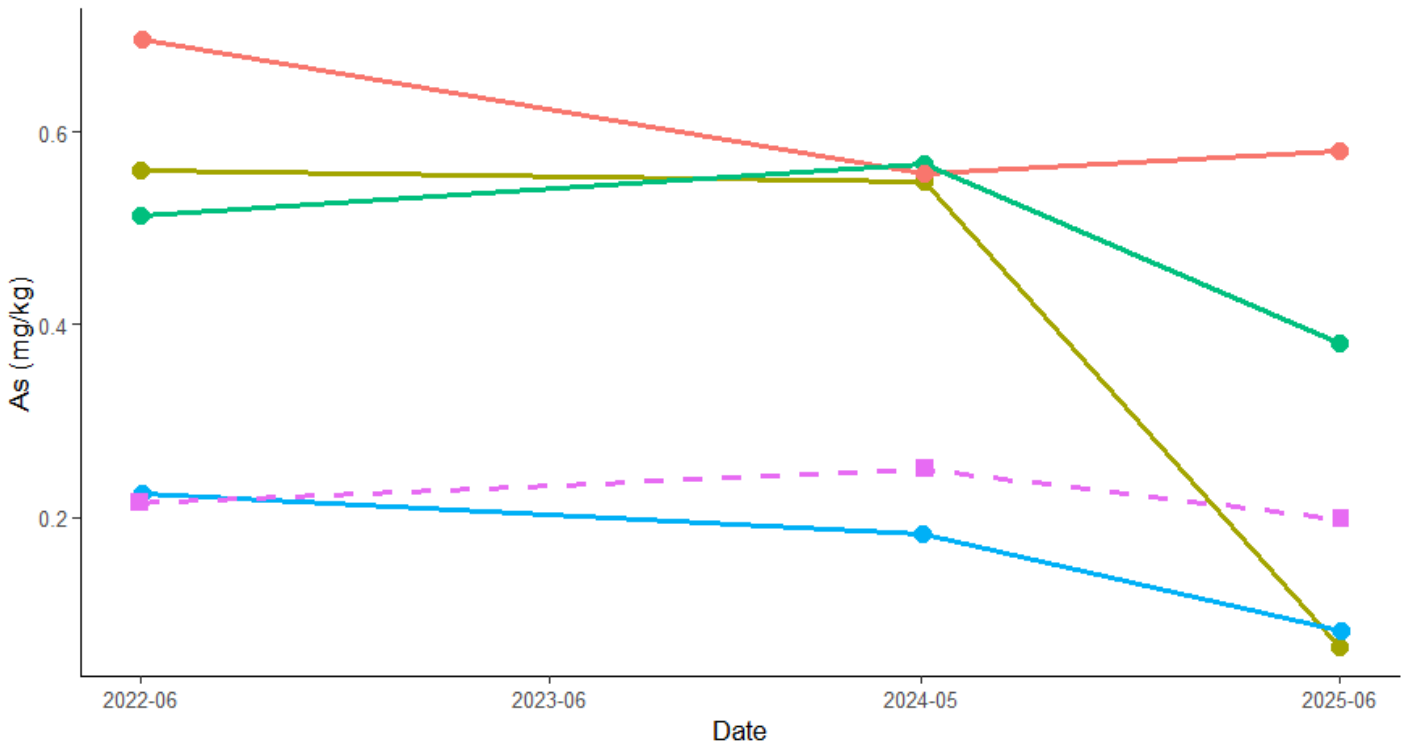
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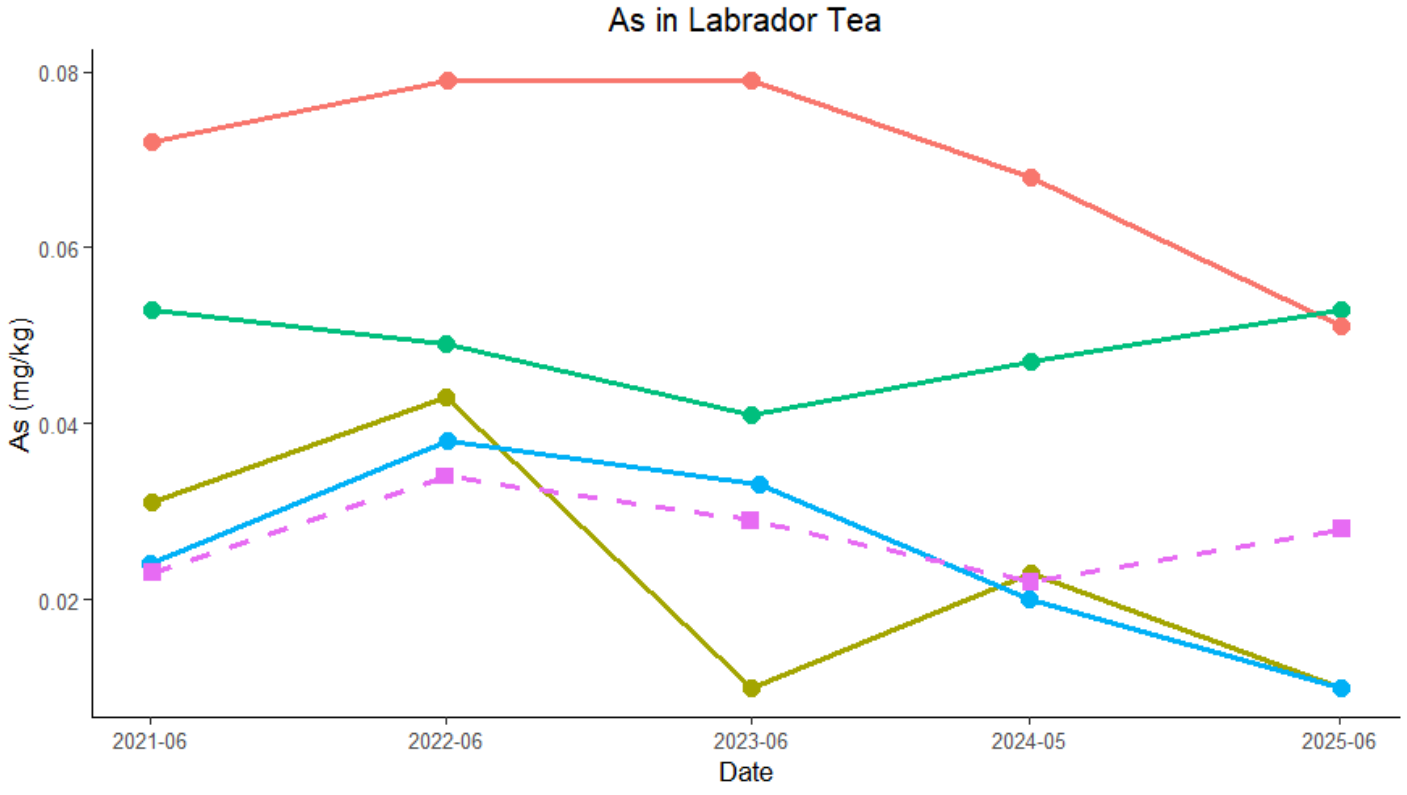
Arsenic

Date:	Project:	Technical:	Reviewer:	Drawn:
Jan. 22, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure **E.5**





Plot 4
Plot 109
Plot 114
Plot 11
Plot 71 - Control

*Alberta Tier 1 Soil Guideline is 17 mg/kg

MONTROSE ENVIRONMENTAL

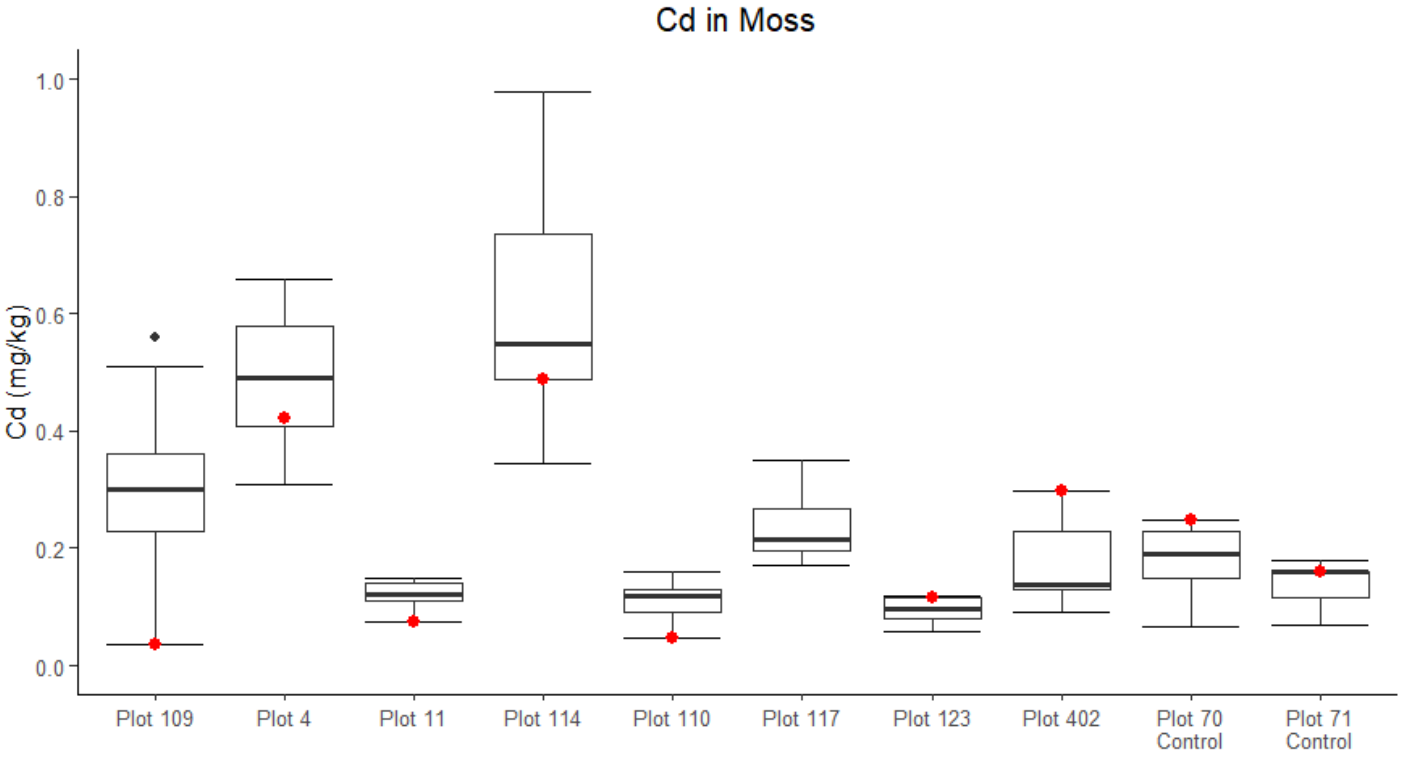
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

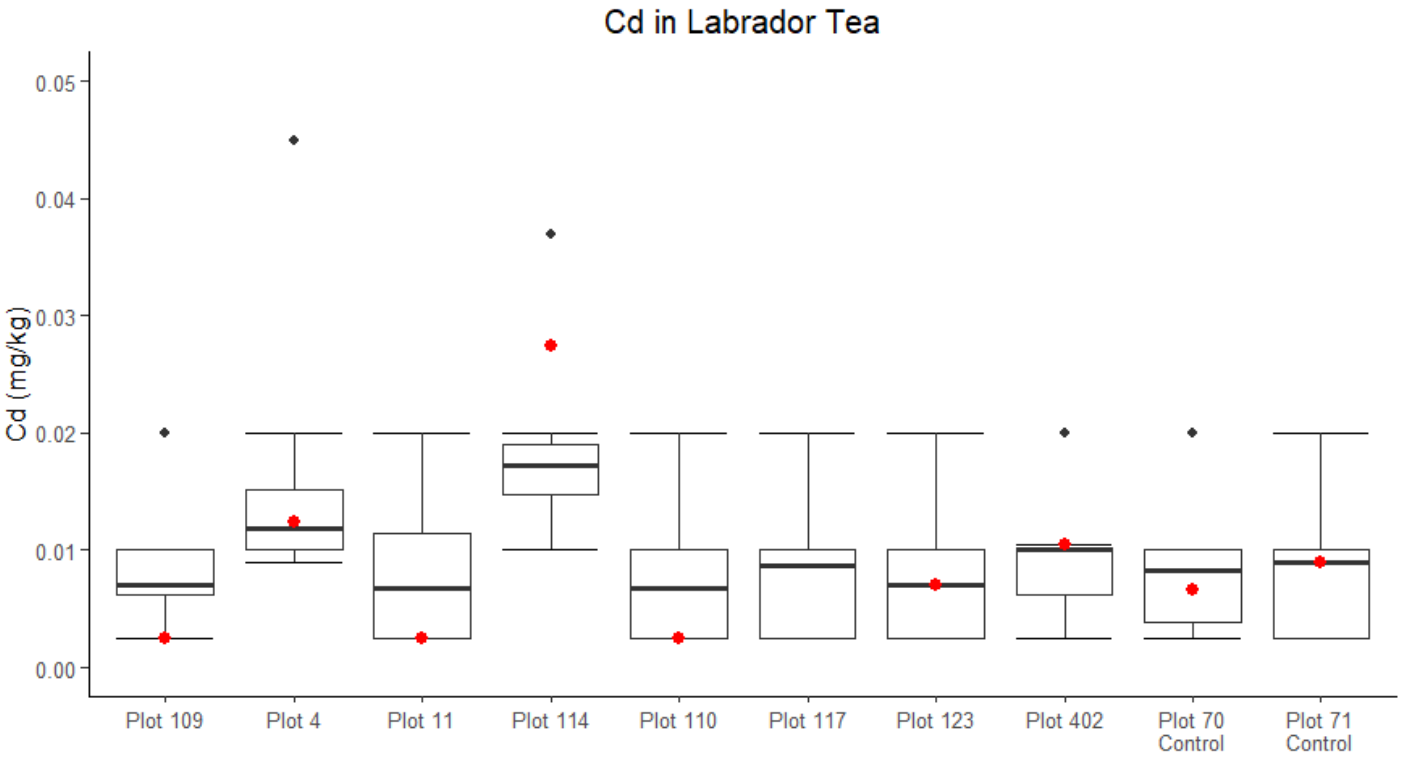
Arsenic

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Figure **E.6**





Median

Interquartile Range (IQR) (25th to 75th percentile)

1.5×IQR boundary or most extreme data value

Outlier (Data point greater than 1.5×IQR)

2025 Sample

*Alberta Tier 1 Soil Guideline is 3.8 mg/kg

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre

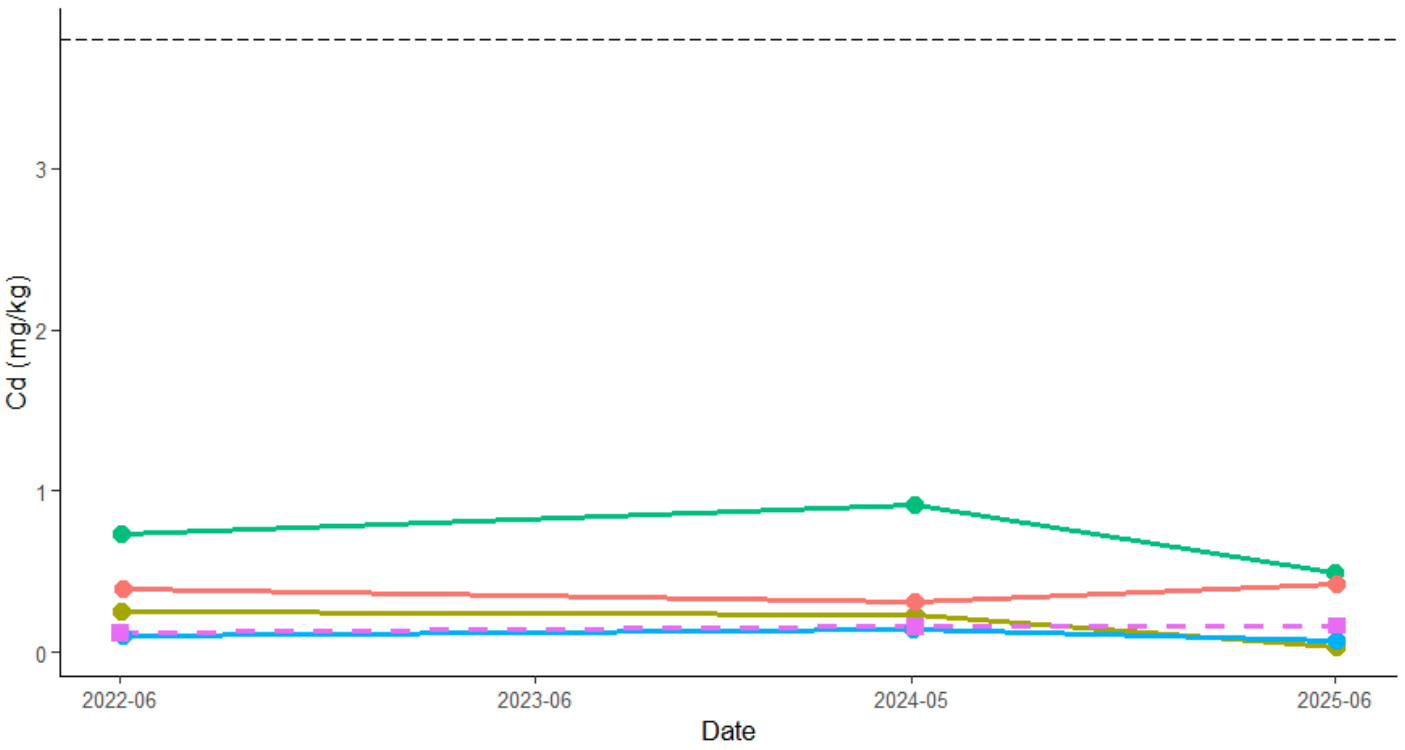
Soil and Vegetation Monitoring Program

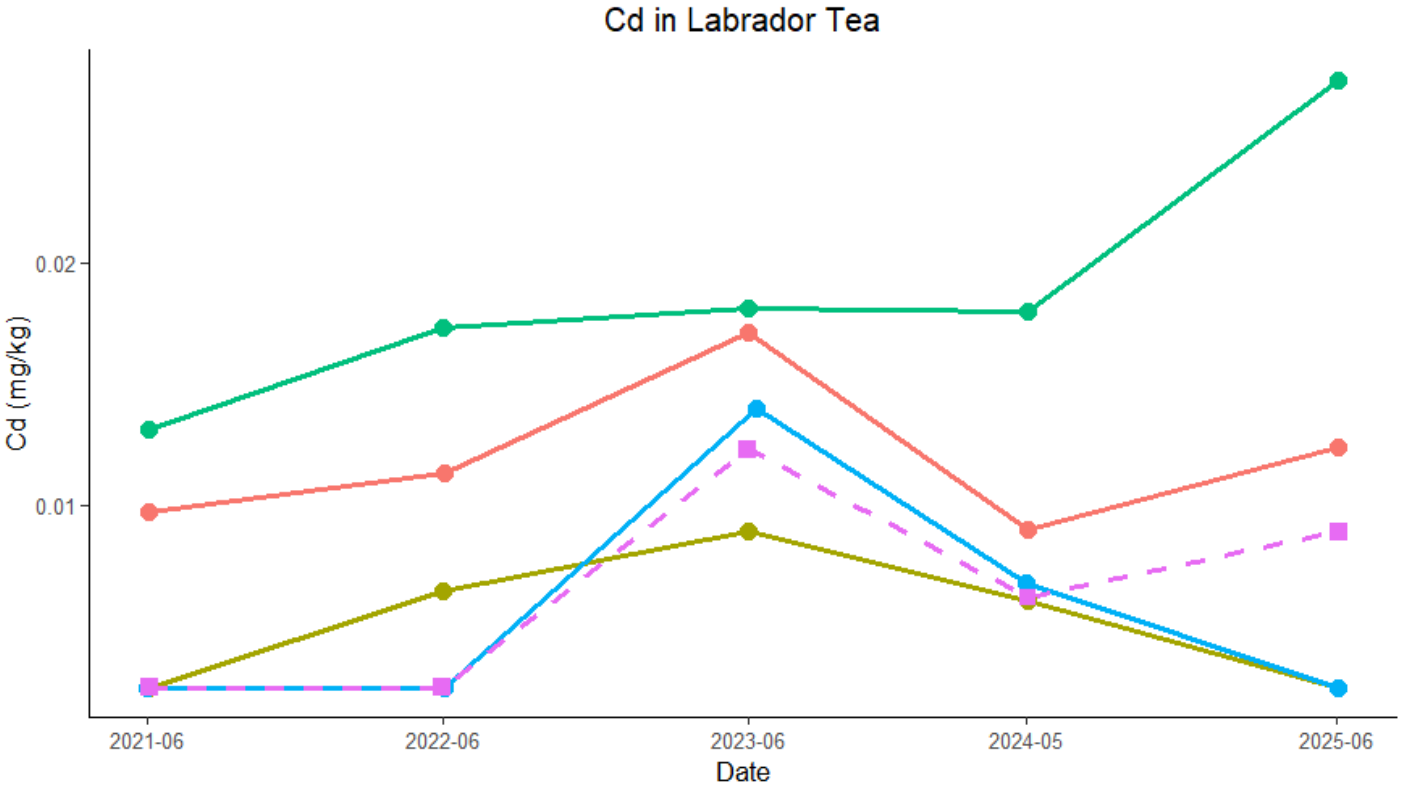
Cadmium

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Figure E.7





Plot 4
Plot 109
Plot 114
Plot 11
Plot 71 - Control
Alberta Tier 1 - Natural Area (3.8 mg/kg)

MONTROSE ENVIRONMENTAL

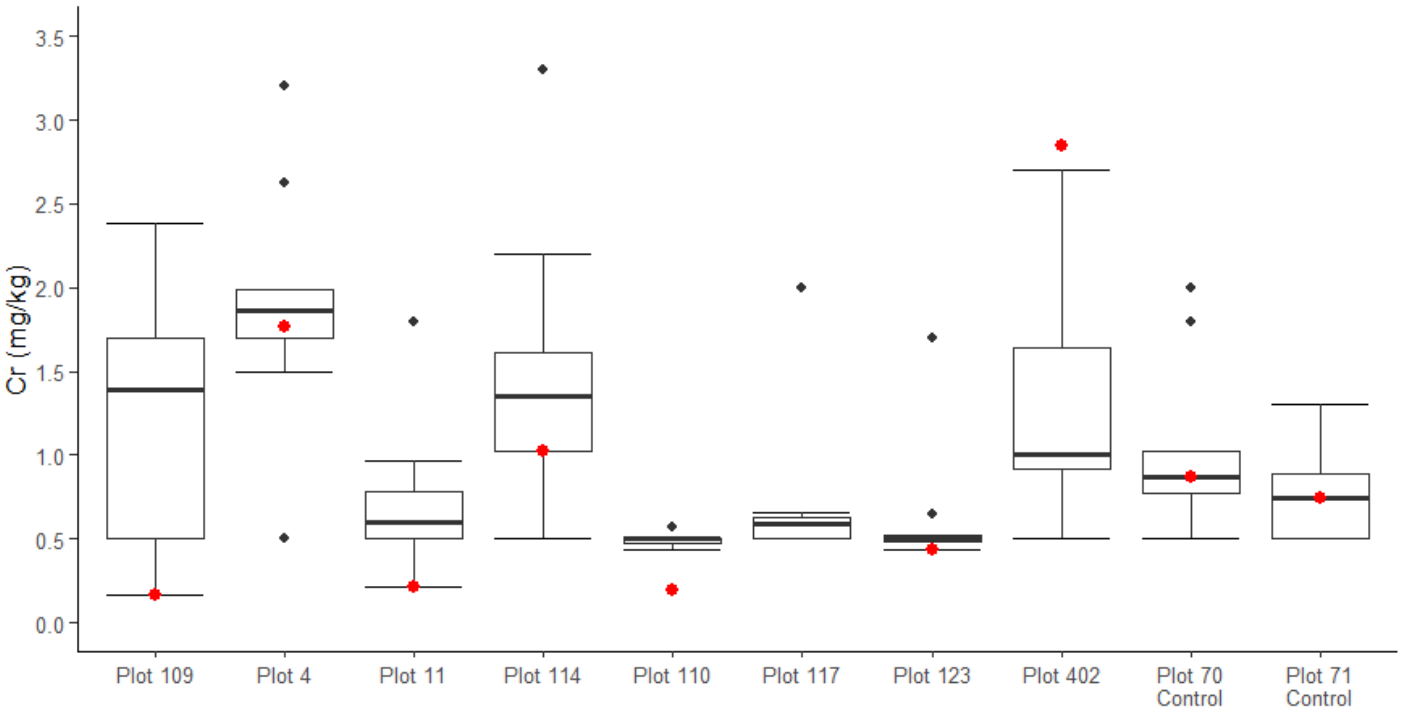
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

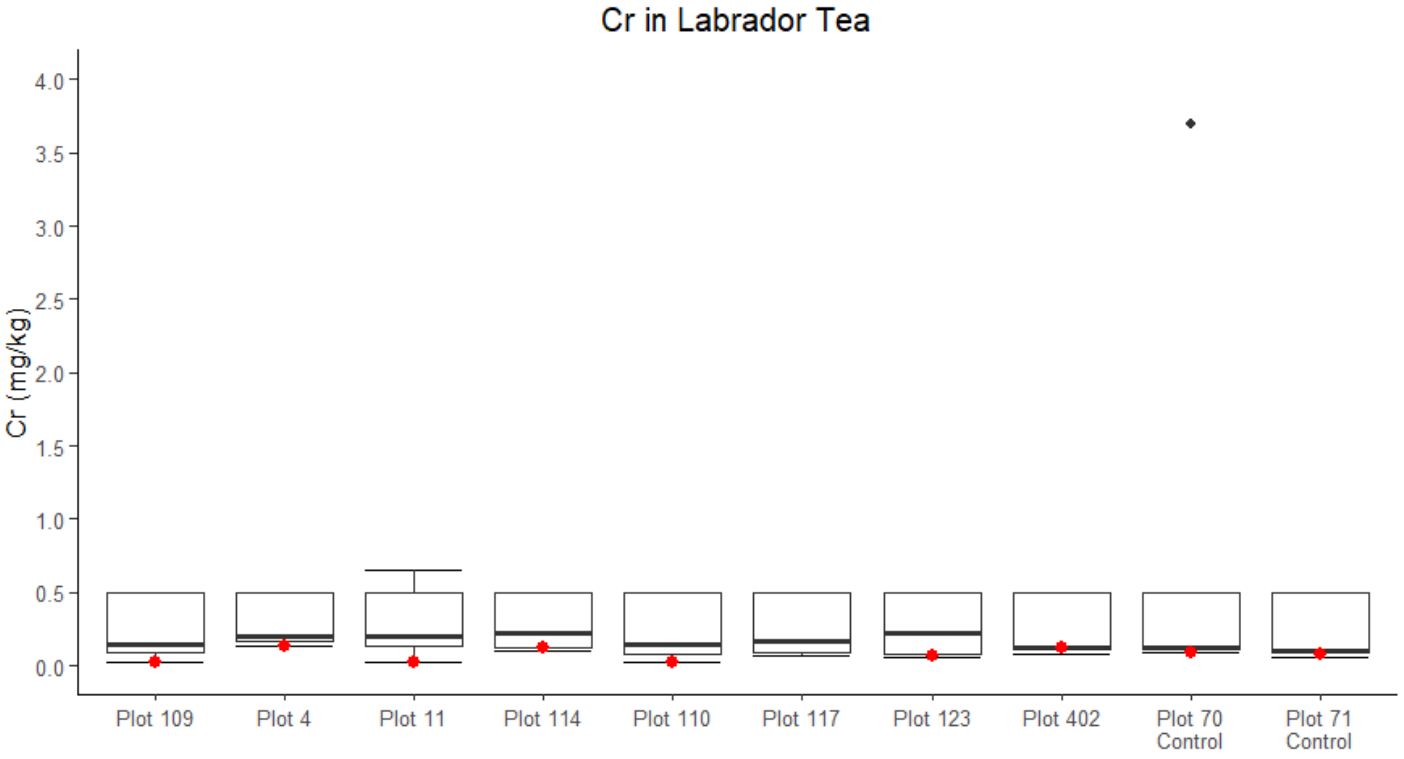
Cadmium

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Figure E.8





Median

Interquartile Range (IQR) (25th to 75th percentile)

1.5×IQR boundary or most extreme data value

Outlier (Data point greater than 1.5×IQR)

2025 Sample

*Alberta Tier 1 Soil Guideline is 64 mg/kg

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre

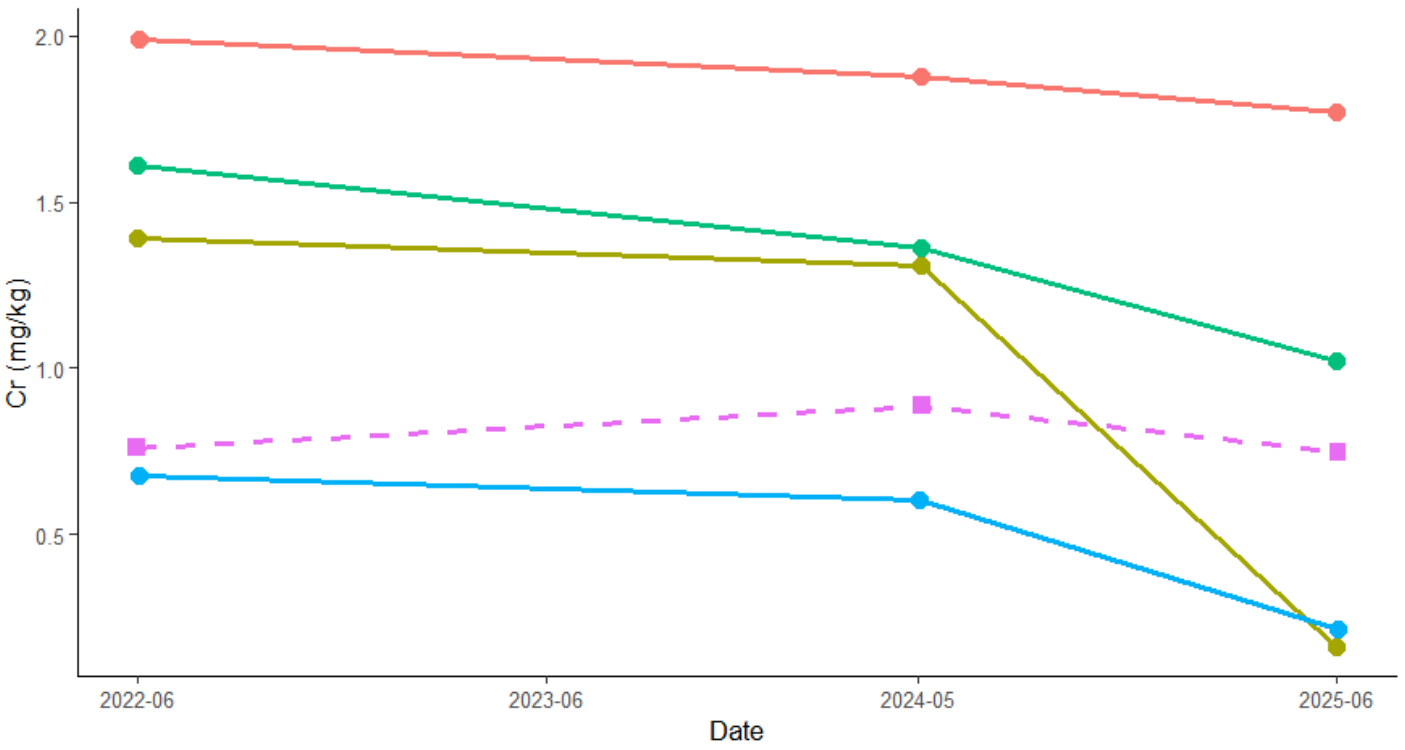
Soil and Vegetation Monitoring Program

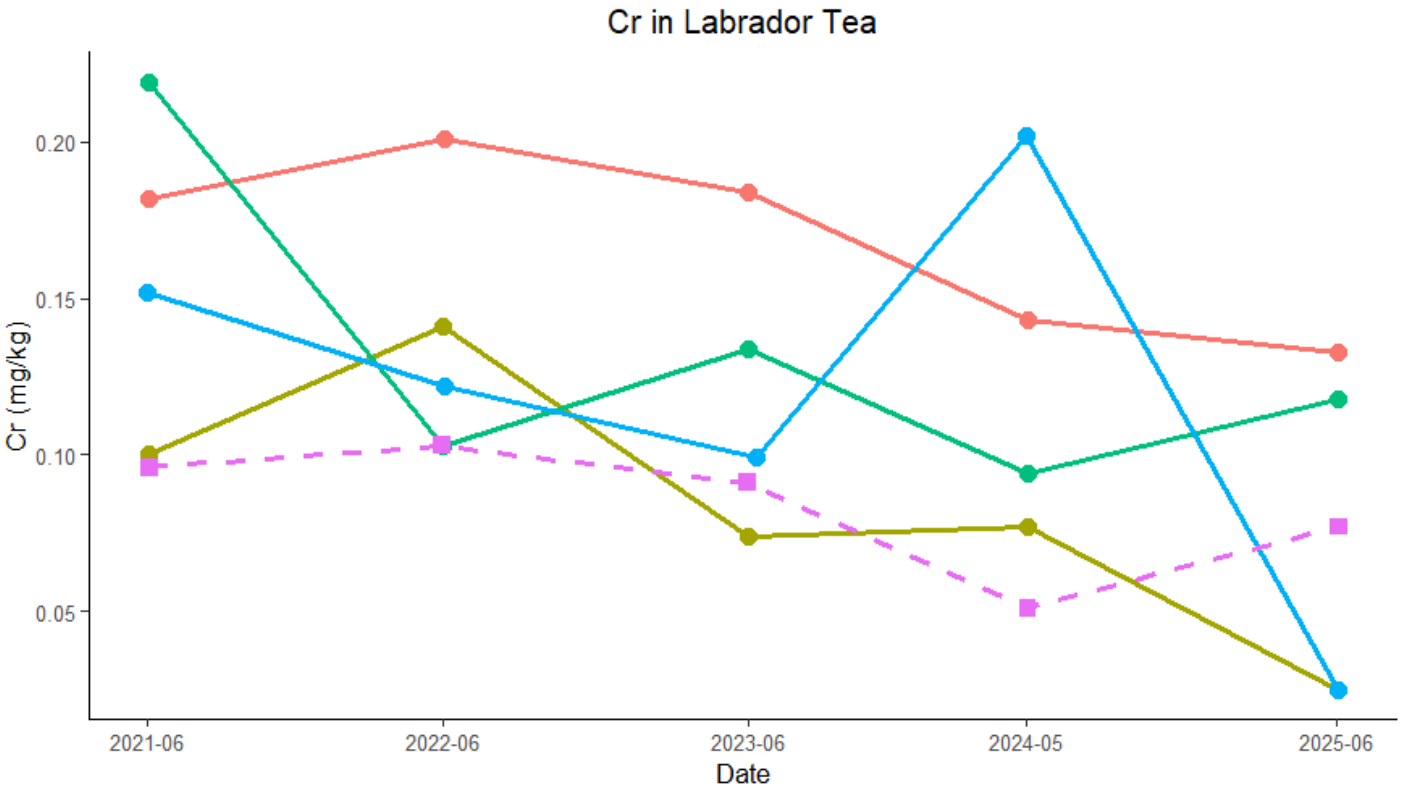
Chromium

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Figure **E.9**





Plot 4
Plot 109
Plot 114
Plot 11
Plot 71 - Control

*Alberta Tier 1 Soil Guideline is 64 mg/kg

MONTROSE ENVIRONMENTAL

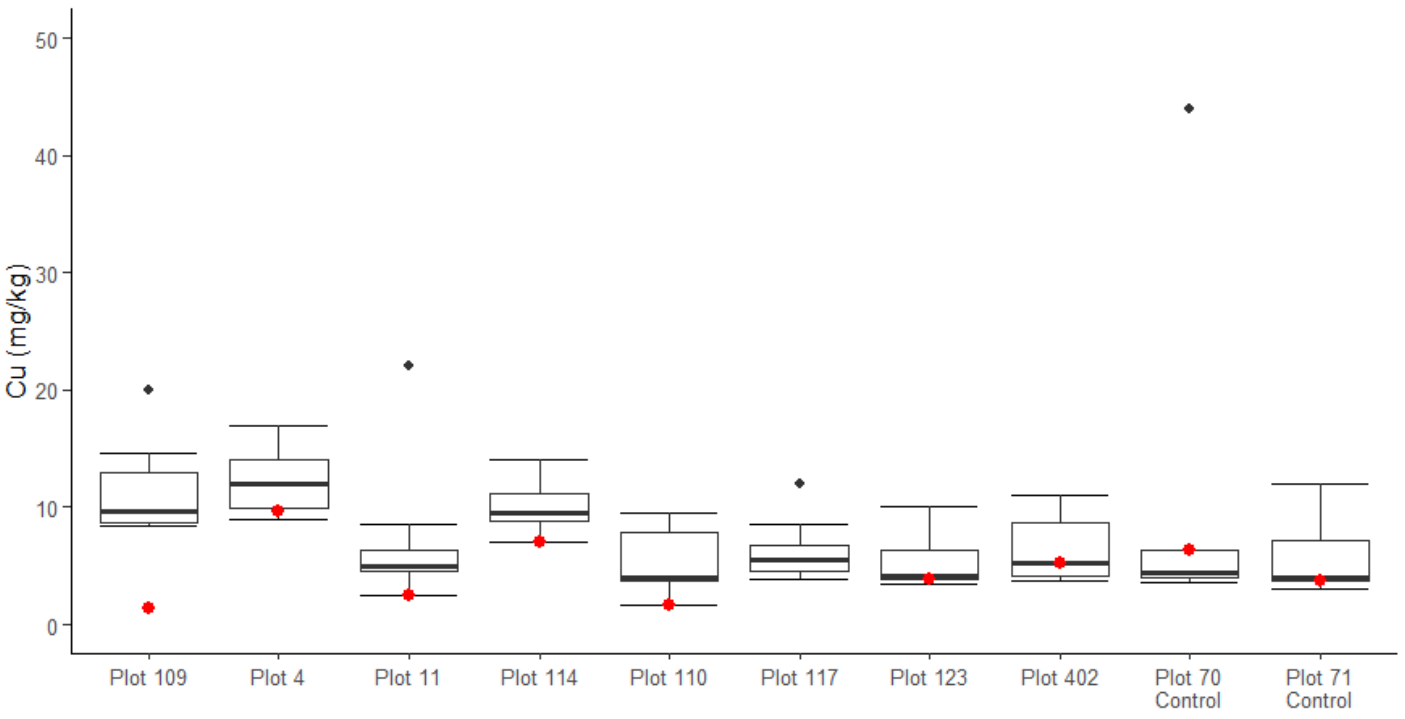
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Soil and Vegetation Monitoring Program

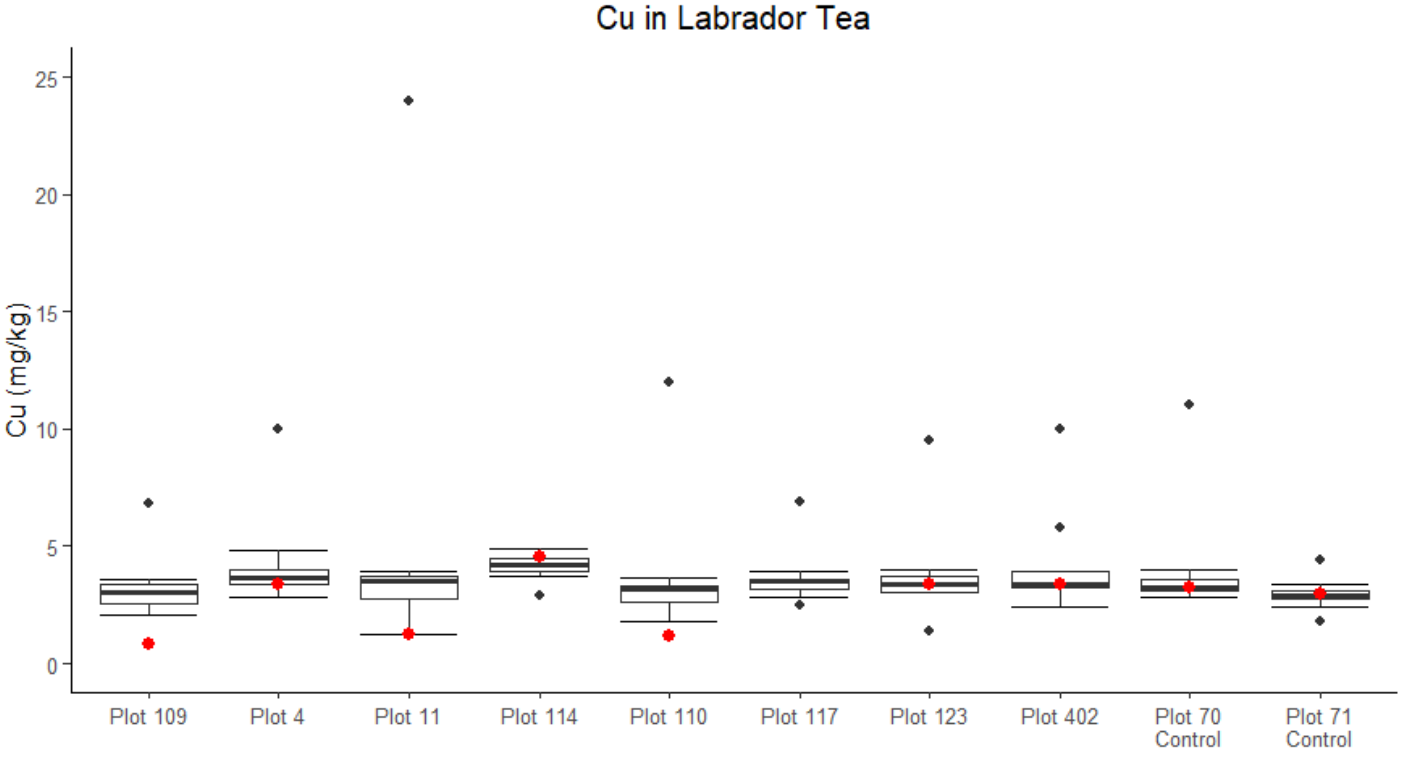
Chromium

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Figure E.10





Median

Interquartile Range (IQR) (25th to 75th percentile)

1.5×IQR boundary or most extreme data value

Outlier (Data point greater than 1.5×IQR)

2025 Sample

*Alberta Tier 1 Soil Guideline is 63 mg/kg

MONTROSE ENVIRONMENTAL

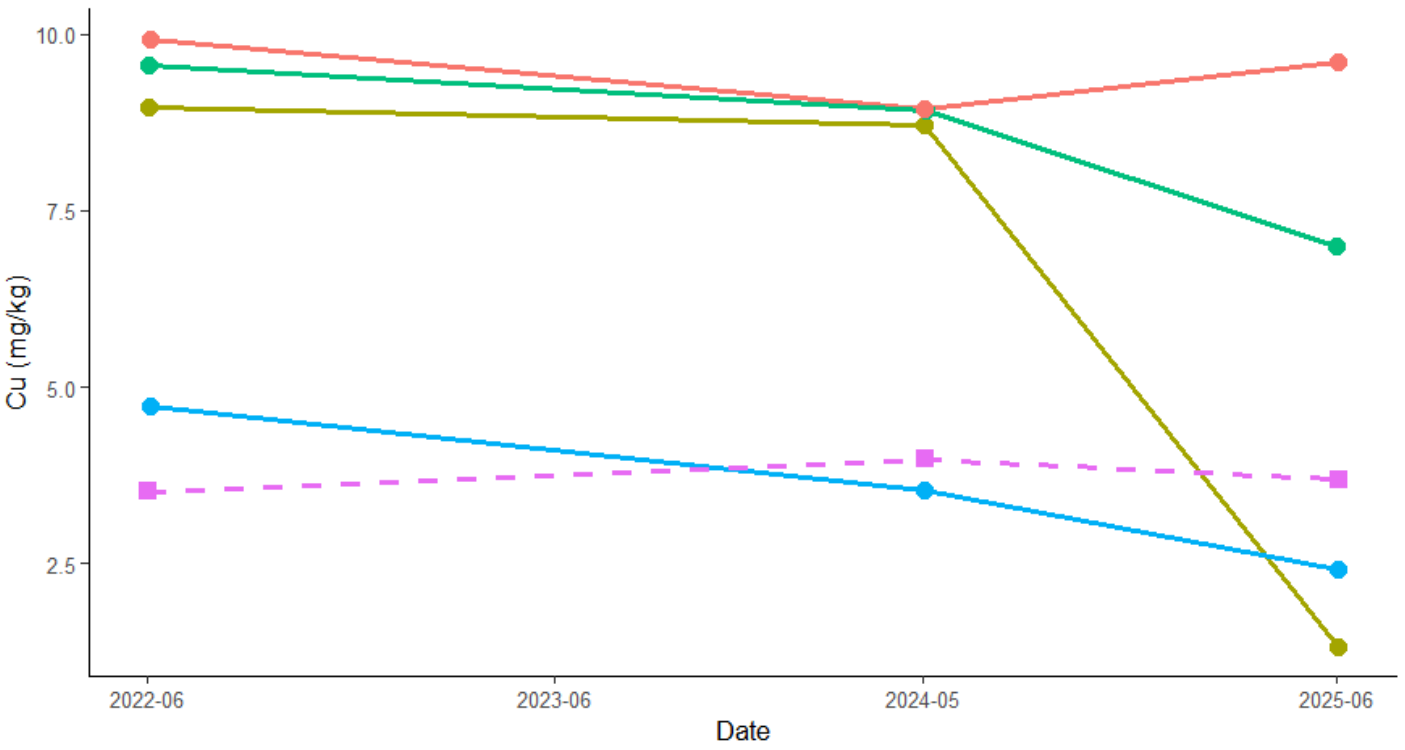
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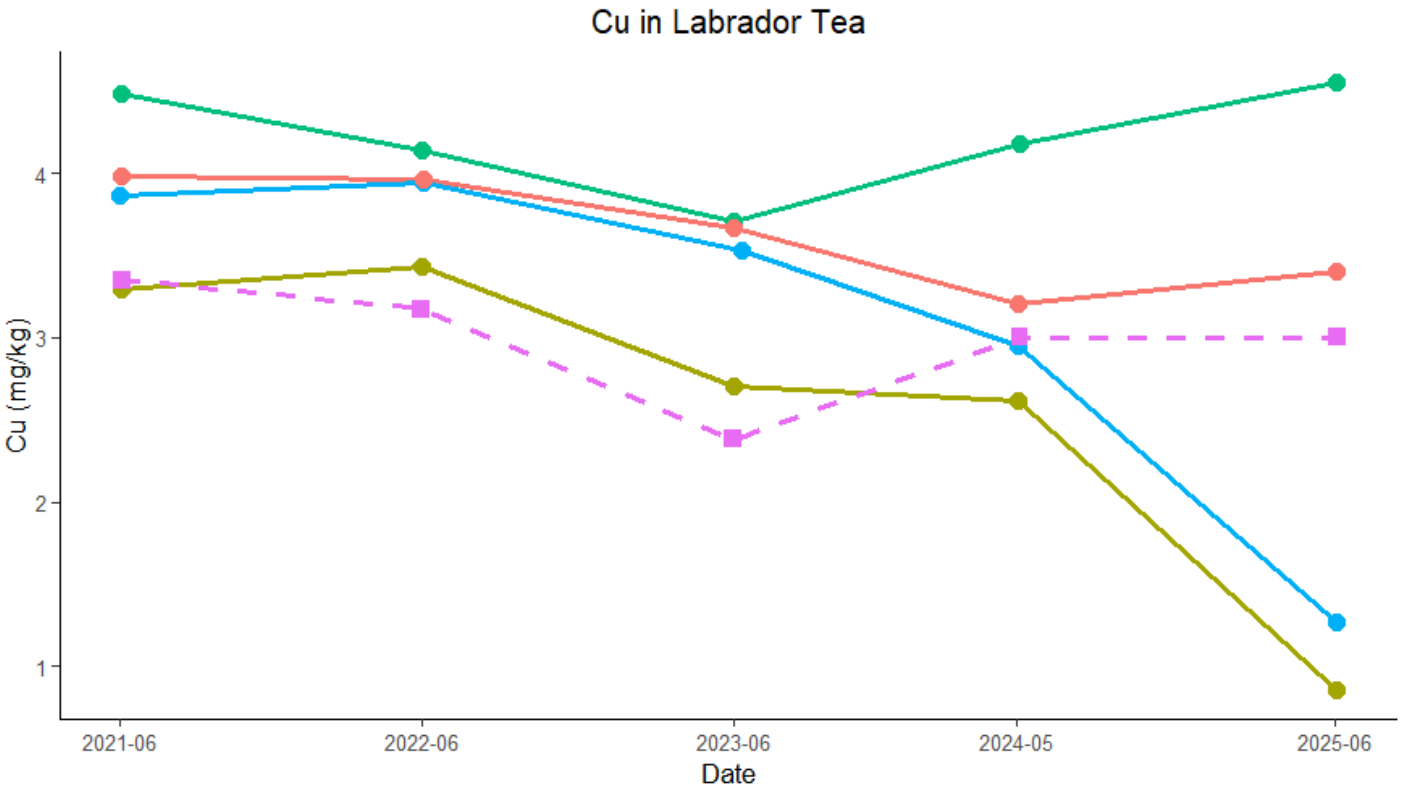
Copper

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Figure E.11





Plot 4
Plot 109
Plot 114
Plot 11
Plot 71 - Control
Alberta Tier 1 - Natural Area (63 mg/kg)

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

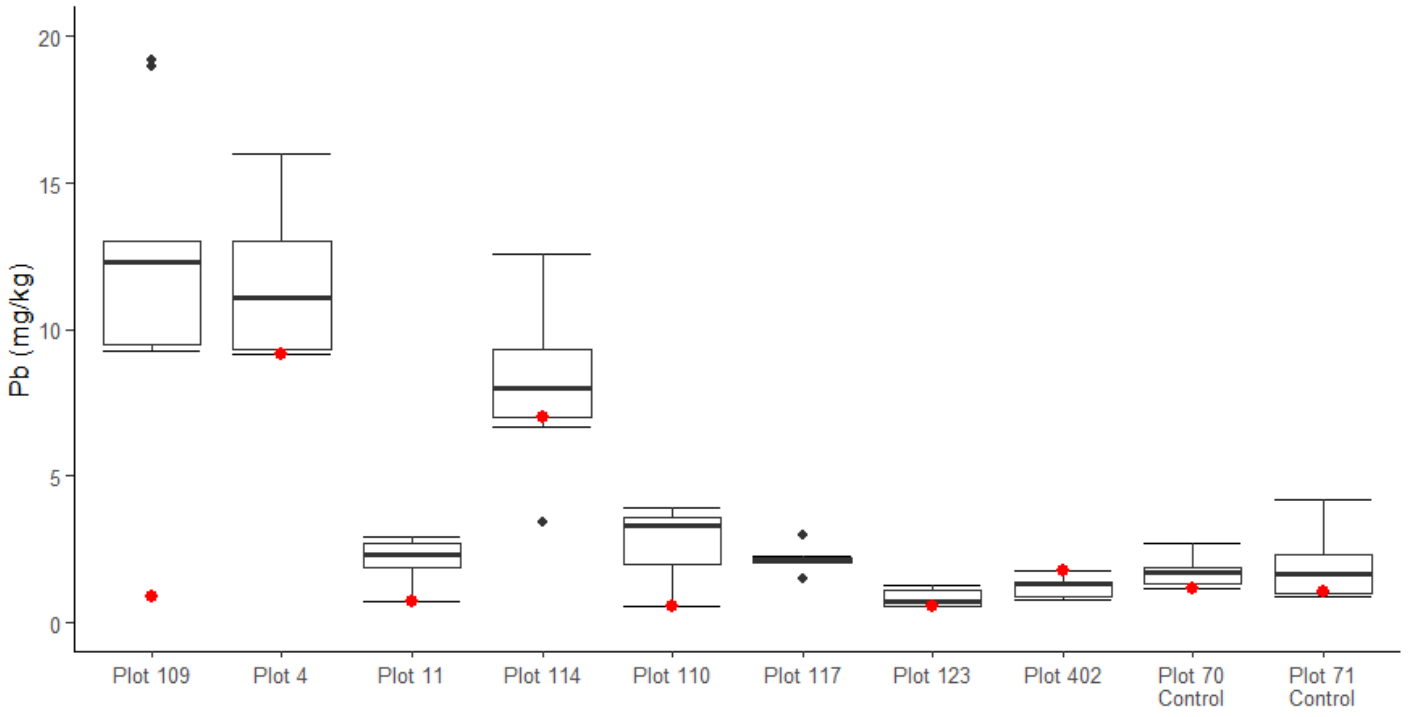
Copper

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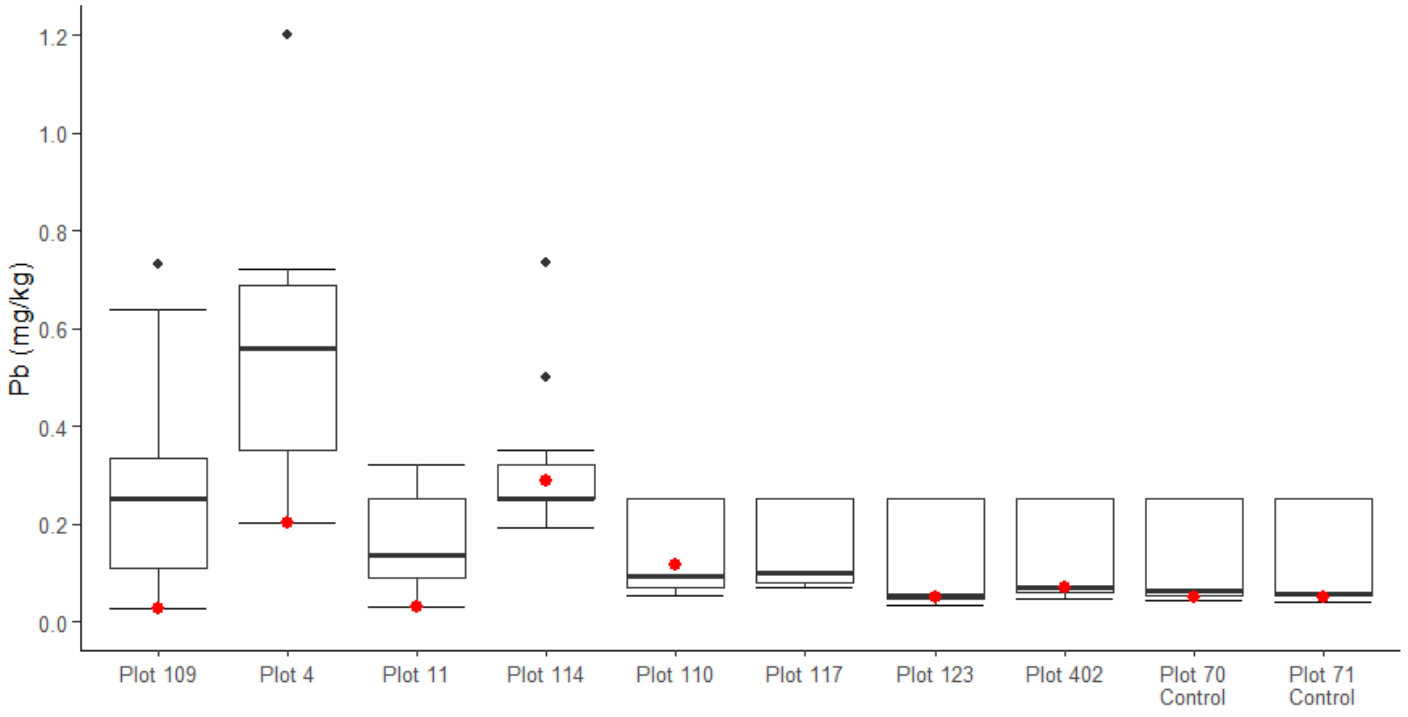
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Figure **E.12**

Pb in Moss



Pb in Labrador Tea



- Median
- Interquartile Range (IQR) (25th to 75th percentile)
- 1.5×IQR boundary or most extreme data value
- Outlier (Data point greater than 1.5×IQR)
- 2025 Sample

*Alberta Tier 1 Soil Guideline is 70 mg/kg

MONTROSE ENVIRONMENTAL

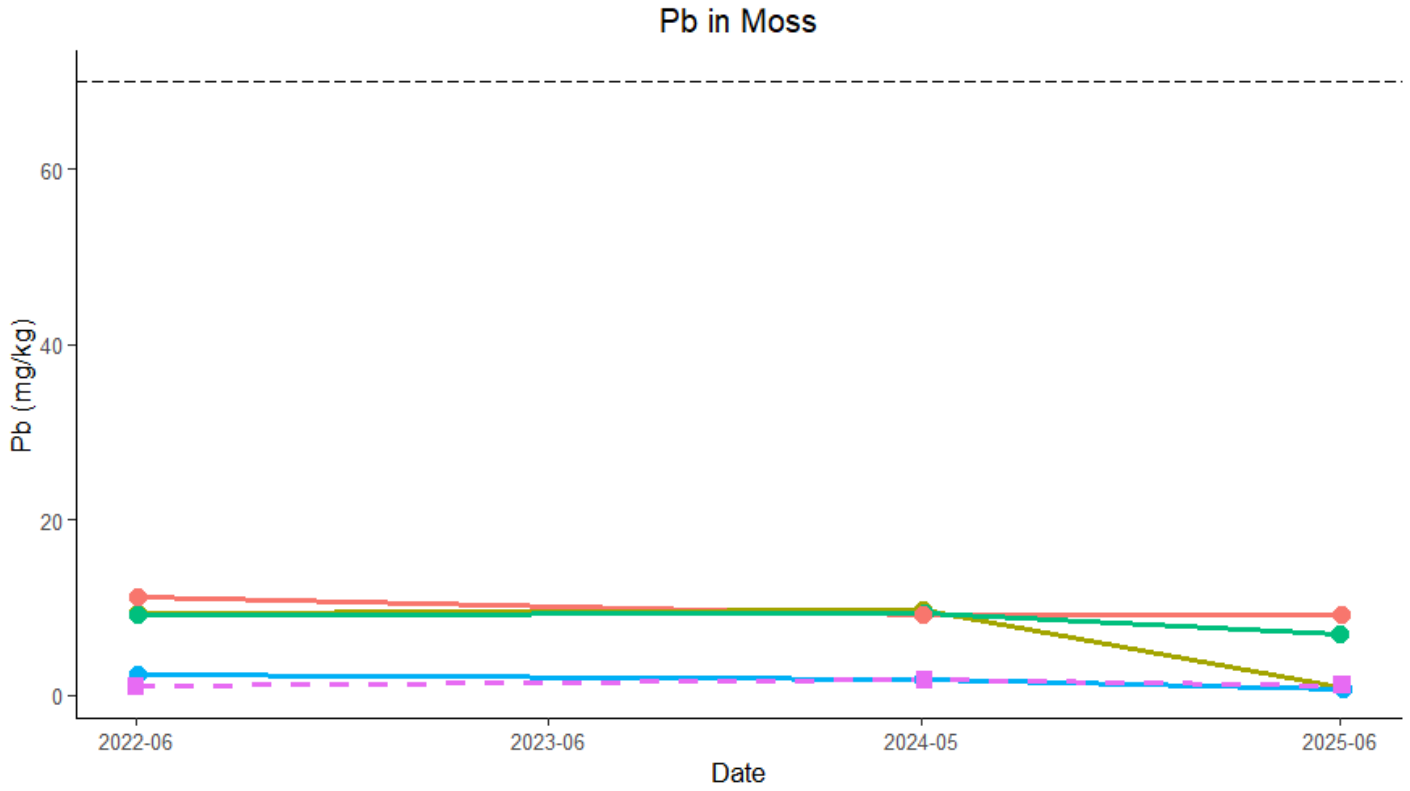
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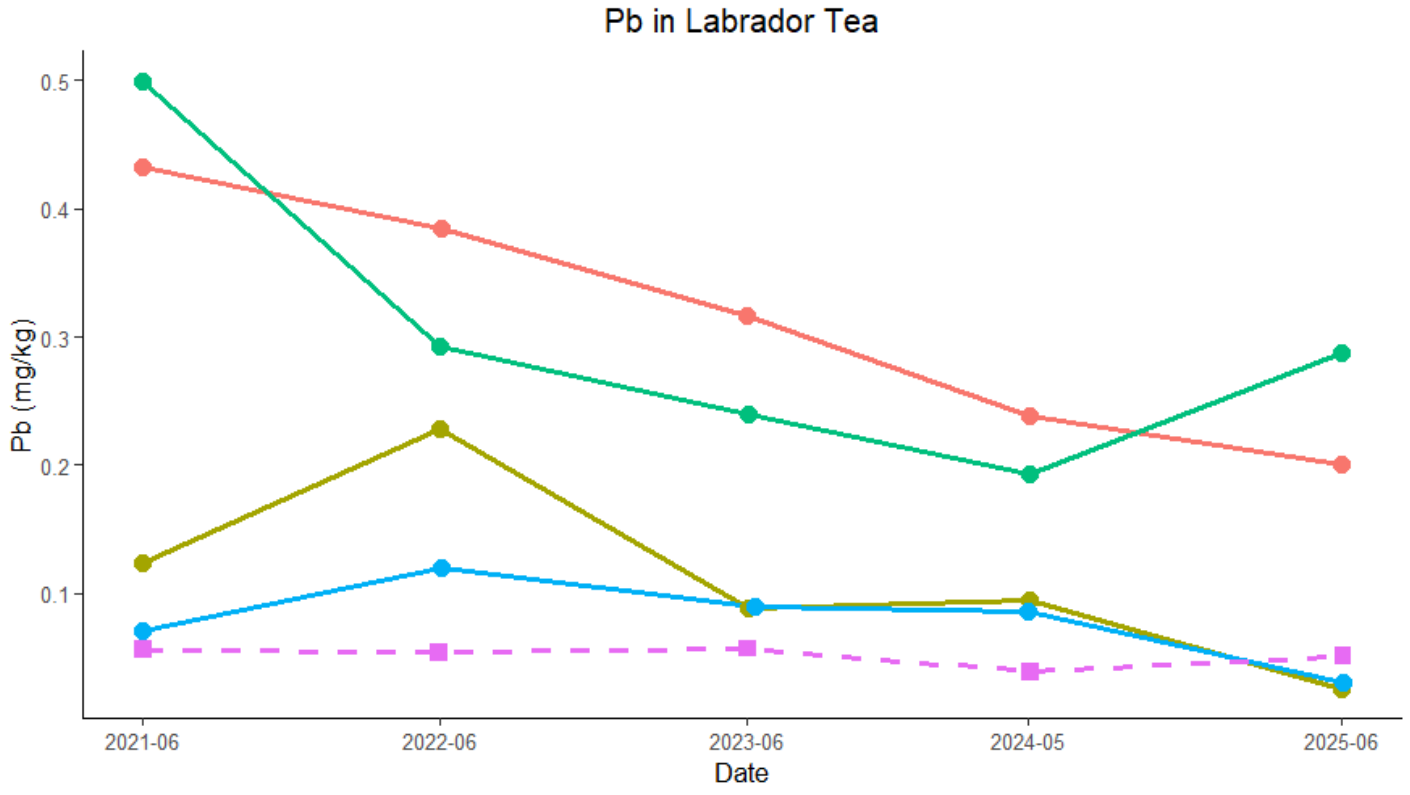
Lead

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Figure E.13





Plot 4
Plot 109
Plot 114
Plot 11
Plot 71 - Control
Alberta Tier 1 - Natural Area (70 mg/kg)

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

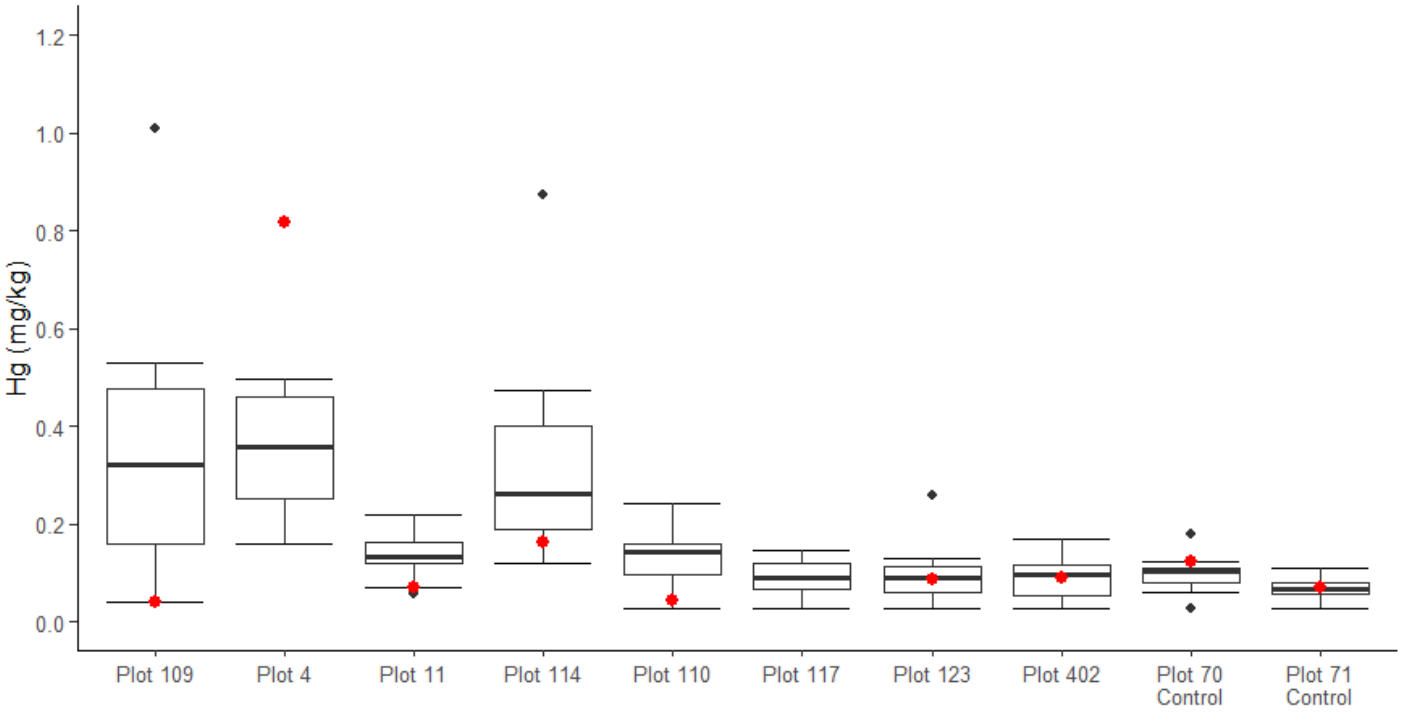
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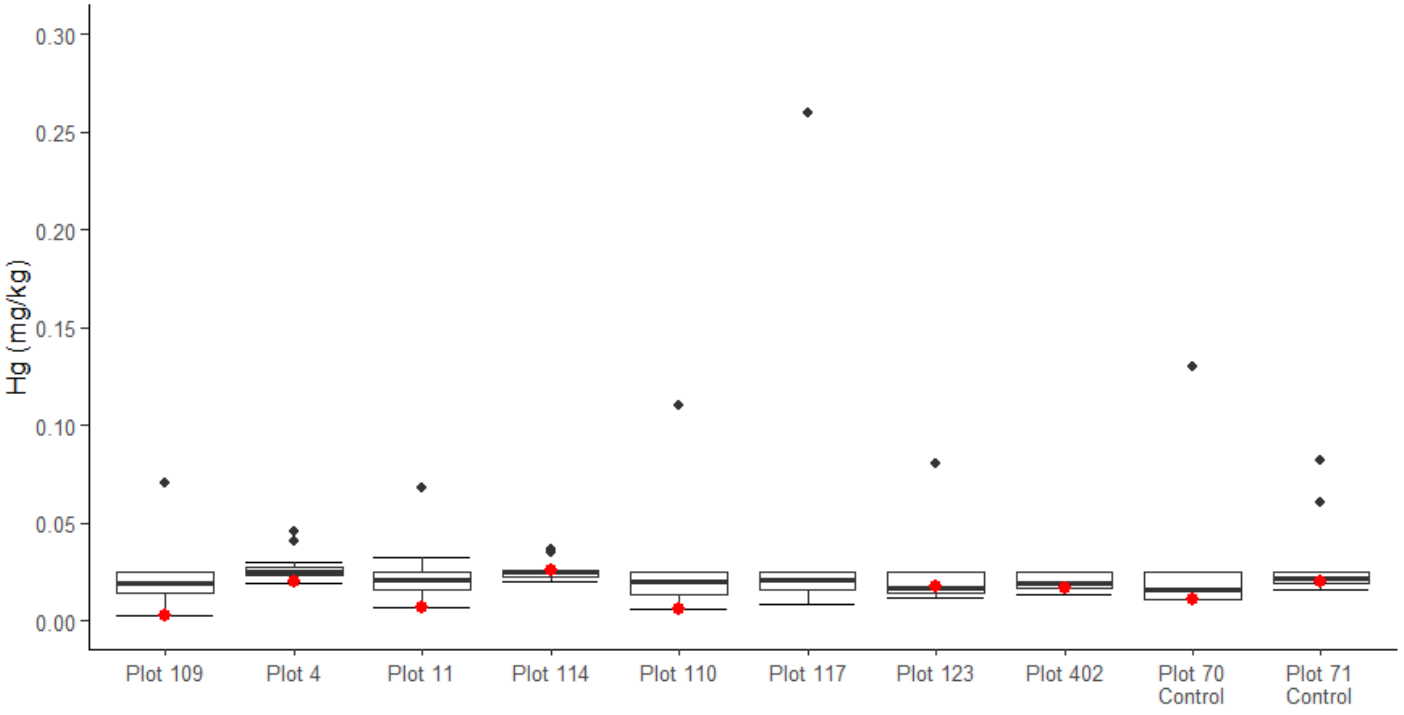
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Figure E.14

Hg in Moss



Hg in Labrador Tea



- Median
- Interquartile Range (IQR) (25th to 75th percentile)
- 1.5×IQR boundary or most extreme data value
- Outlier (Data point greater than 1.5×IQR)
- 2025 Sample

*Alberta Tier 1 Soil Guideline is 12 mg/kg

MONTROSE ENVIRONMENTAL

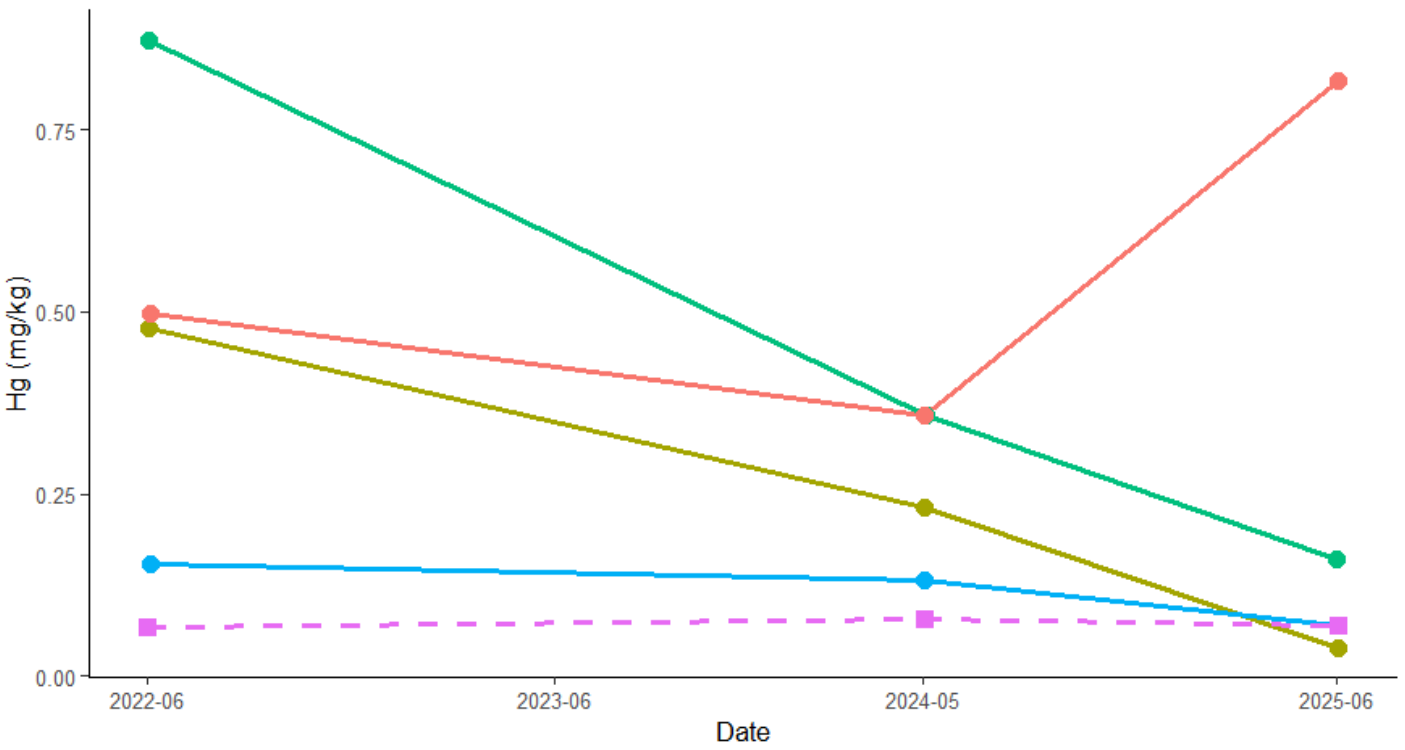
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Soil and Vegetation Monitoring Program

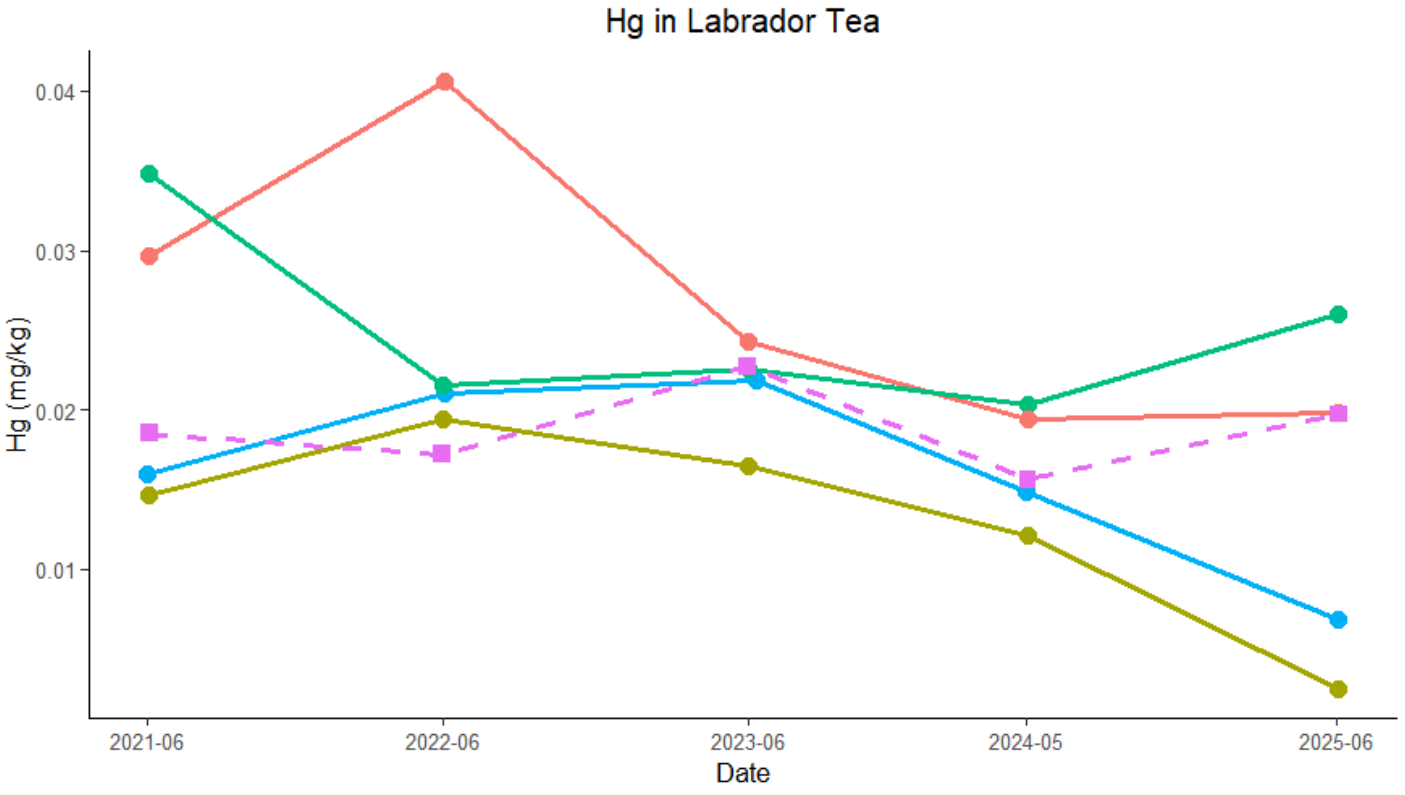
Mercury

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Jan. 22, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure E.15





- Plot 4
- Plot 109
- Plot 114
- Plot 11
- Plot 71 - Control
- Alberta Tier 1 - Natural Area (12 mg/kg)

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

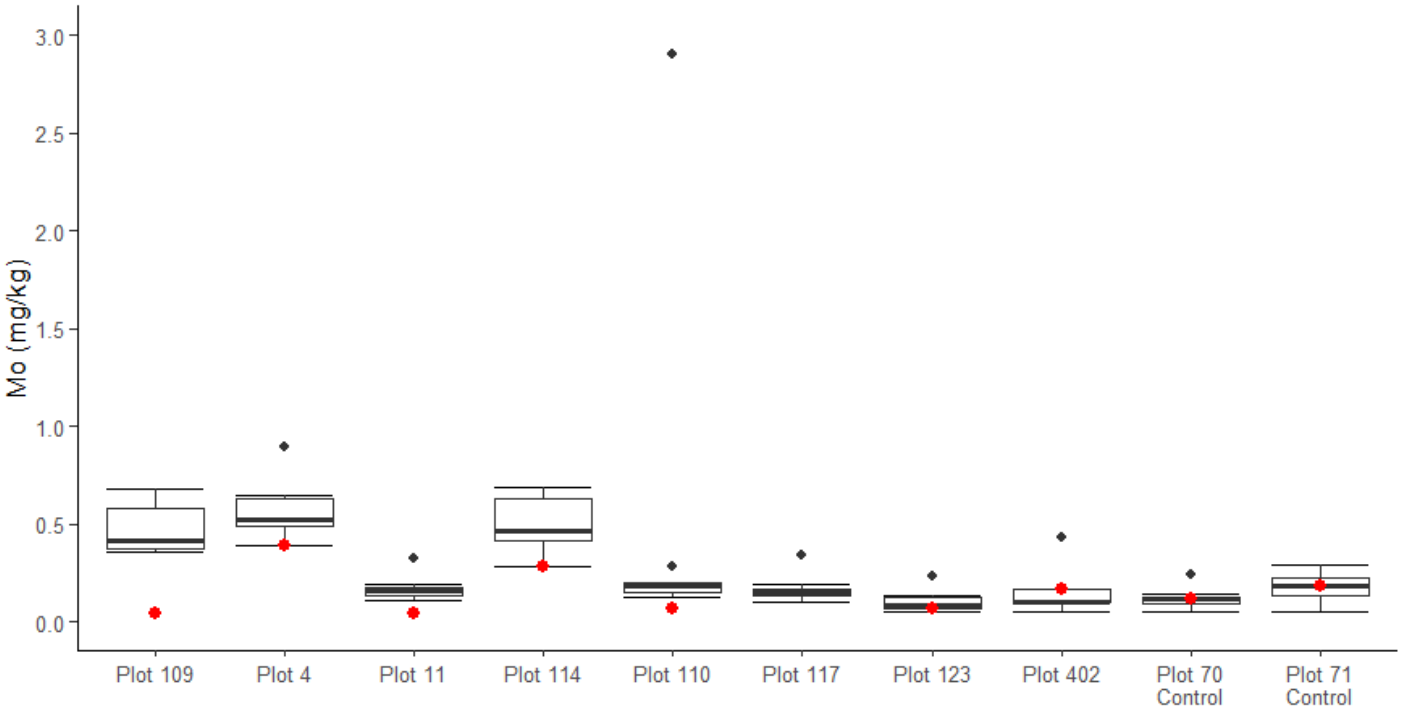
Mercury

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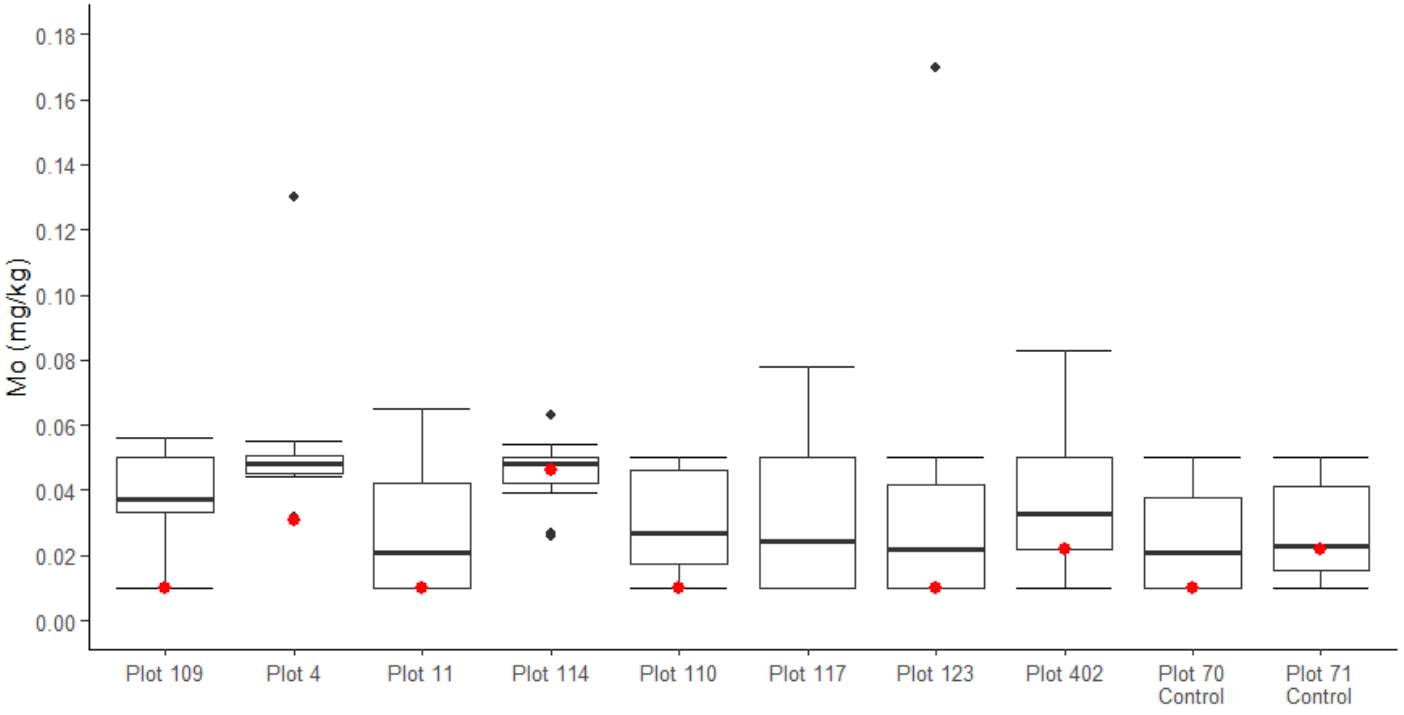
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Figure E.16

Mo in Moss



Mo in Labrador Tea



- Median
- Interquartile Range (IQR) (25th to 75th percentile)
- 1.5×IQR boundary or most extreme data value
- Outlier (Data point greater than 1.5×IQR)
- 2025 Sample

*Alberta Tier 1 Soil Guideline is 4 mg/kg

MONTROSE ENVIRONMENTAL

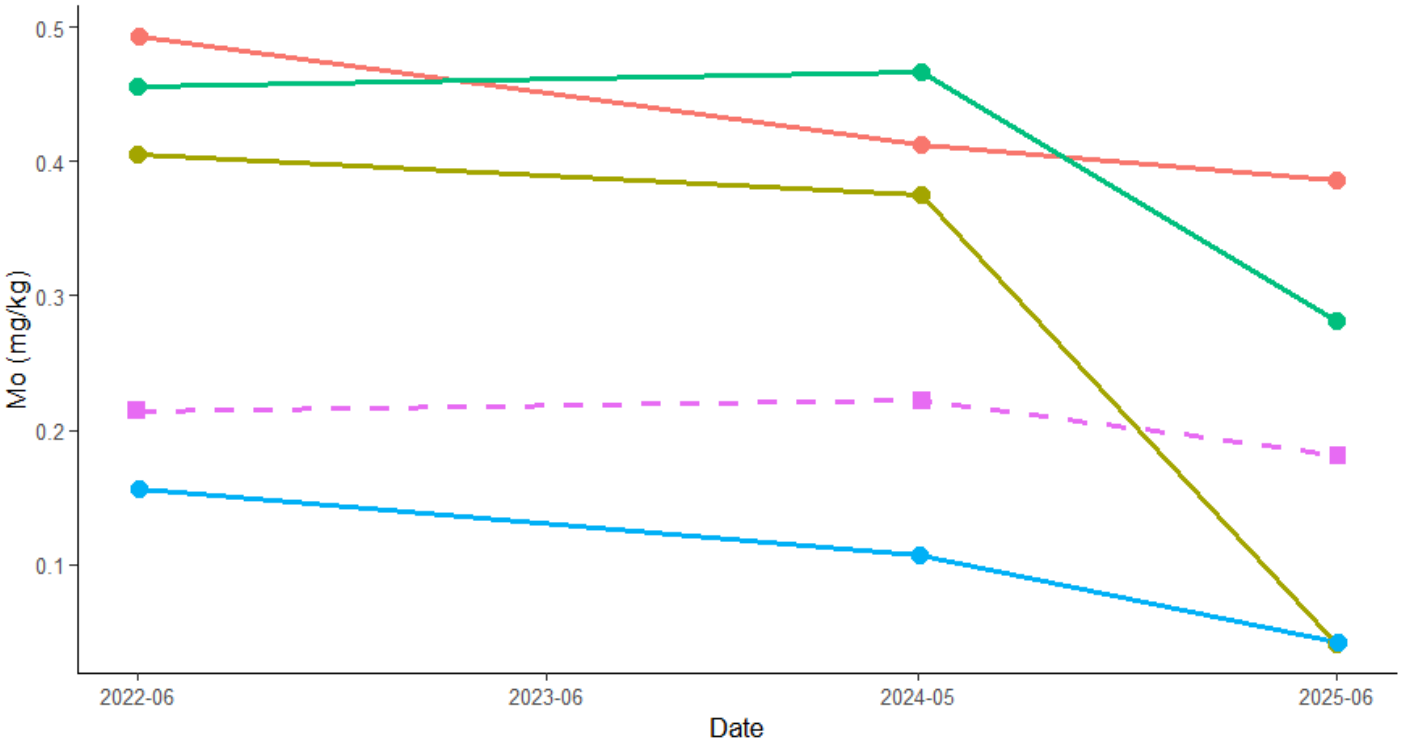
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Soil and Vegetation Monitoring Program

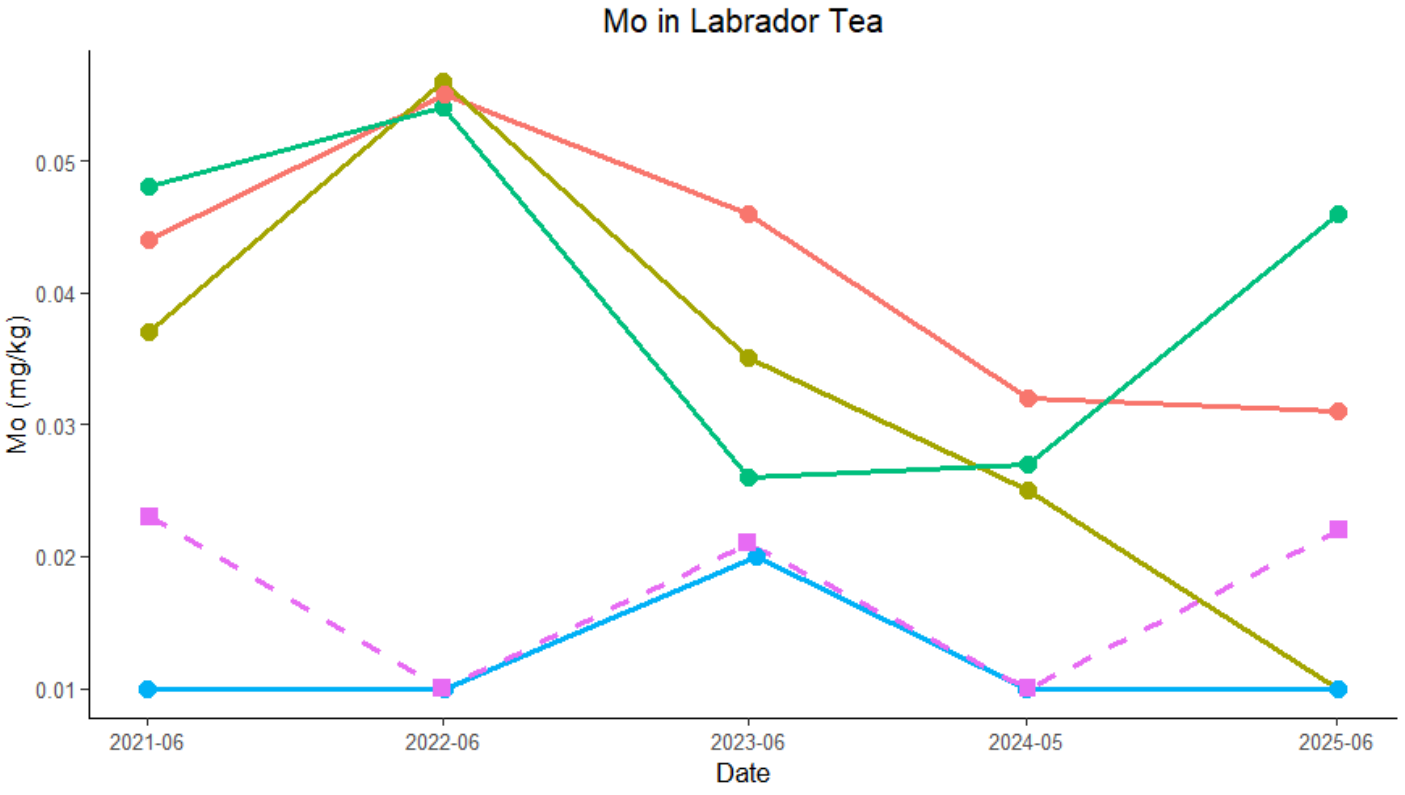
Molybdenum

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Figure E.17





Plot 4
Plot 109
Plot 114
Plot 11
Plot 71 - Control
Alberta Tier 1 - Natural Area (4 mg/kg)

MONTROSE ENVIRONMENTAL

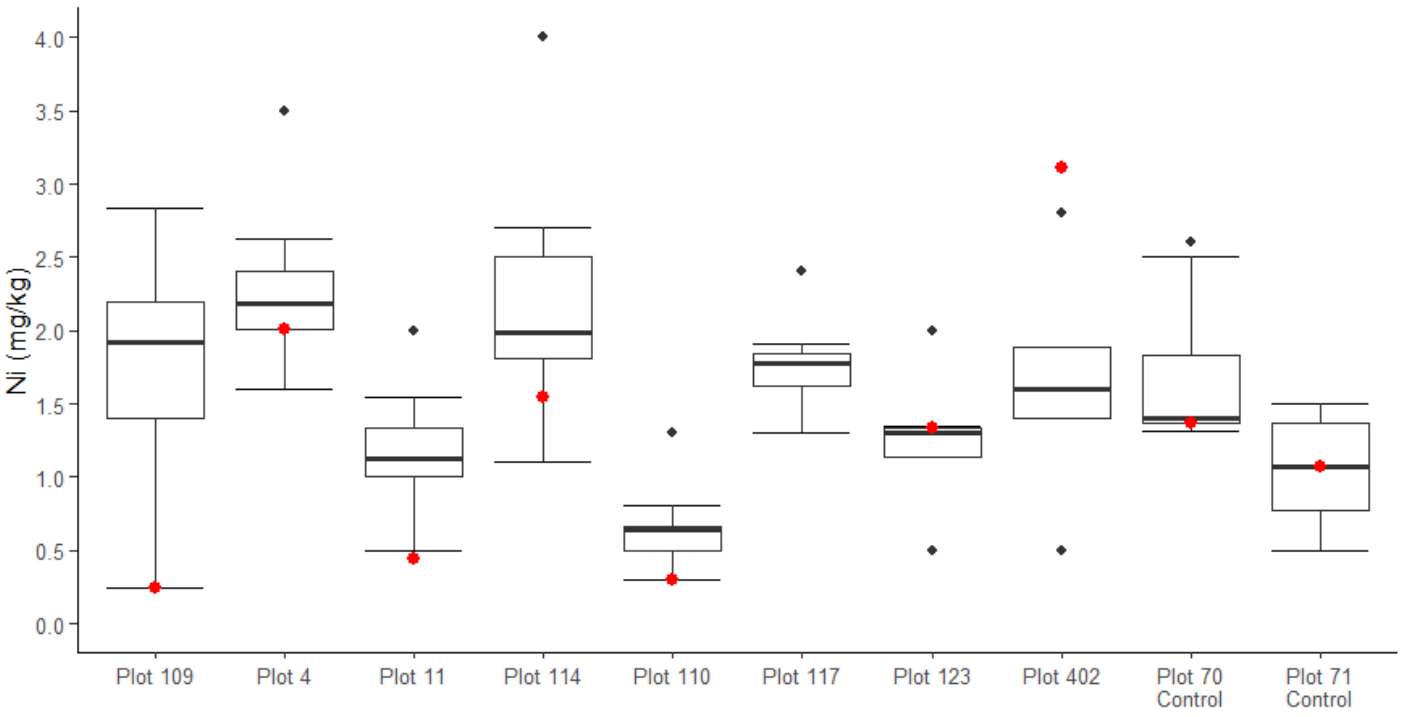
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Soil and Vegetation Monitoring Program

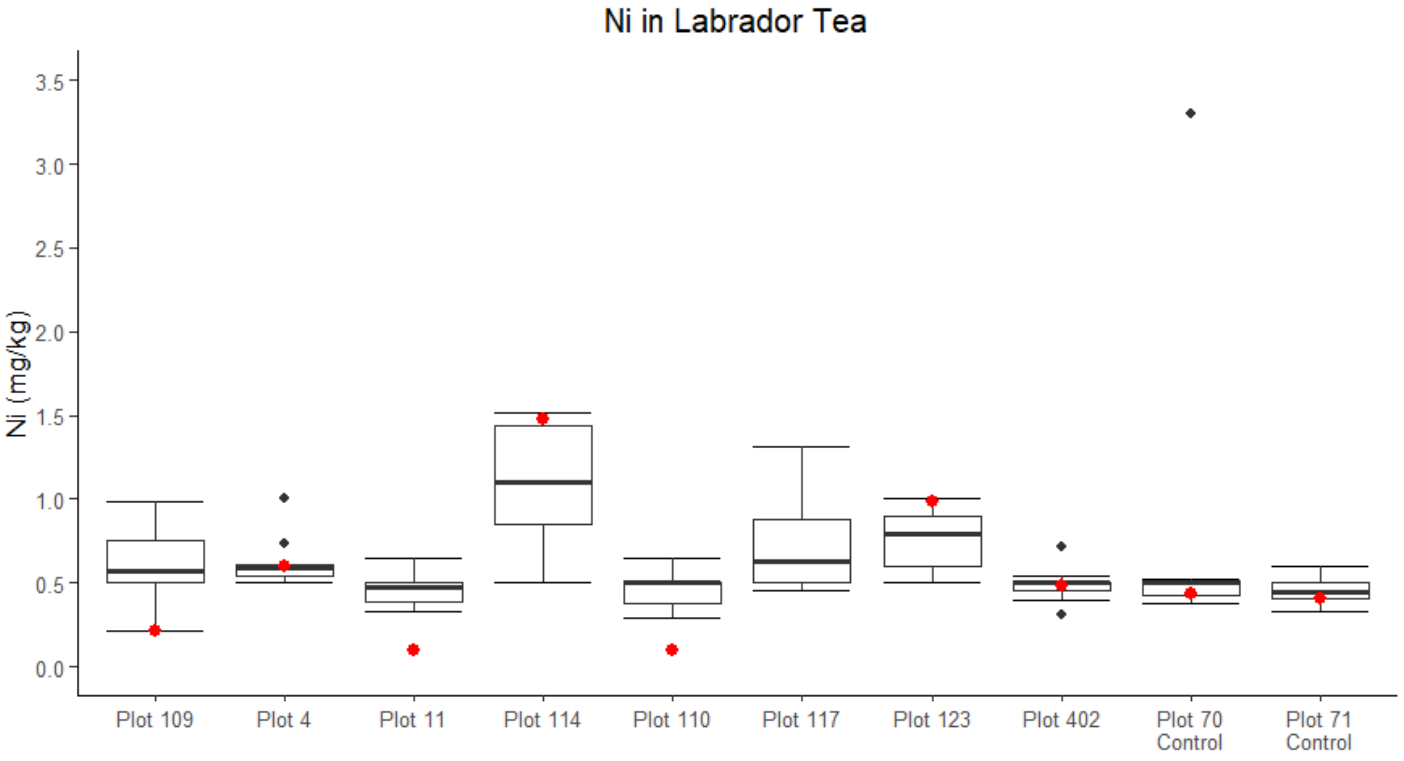
Molybdenum

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Figure **E.18**





Median

Interquartile Range (IQR) (25th to 75th percentile)

1.5×IQR boundary or most extreme data value

Outlier (Data point greater than 1.5×IQR)

2025 Sample

*Alberta Tier 1 Soil Guideline is 45 mg/kg

MONTROSE ENVIRONMENTAL

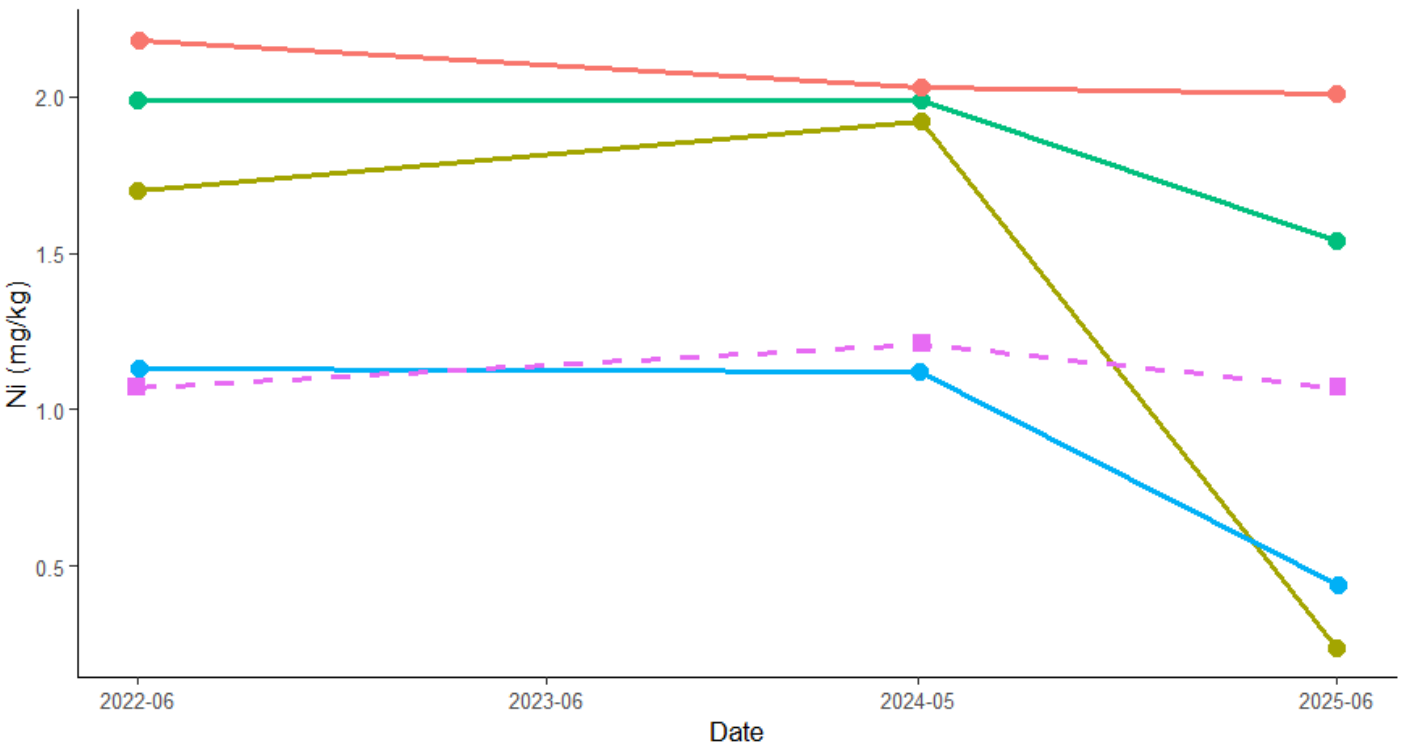
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

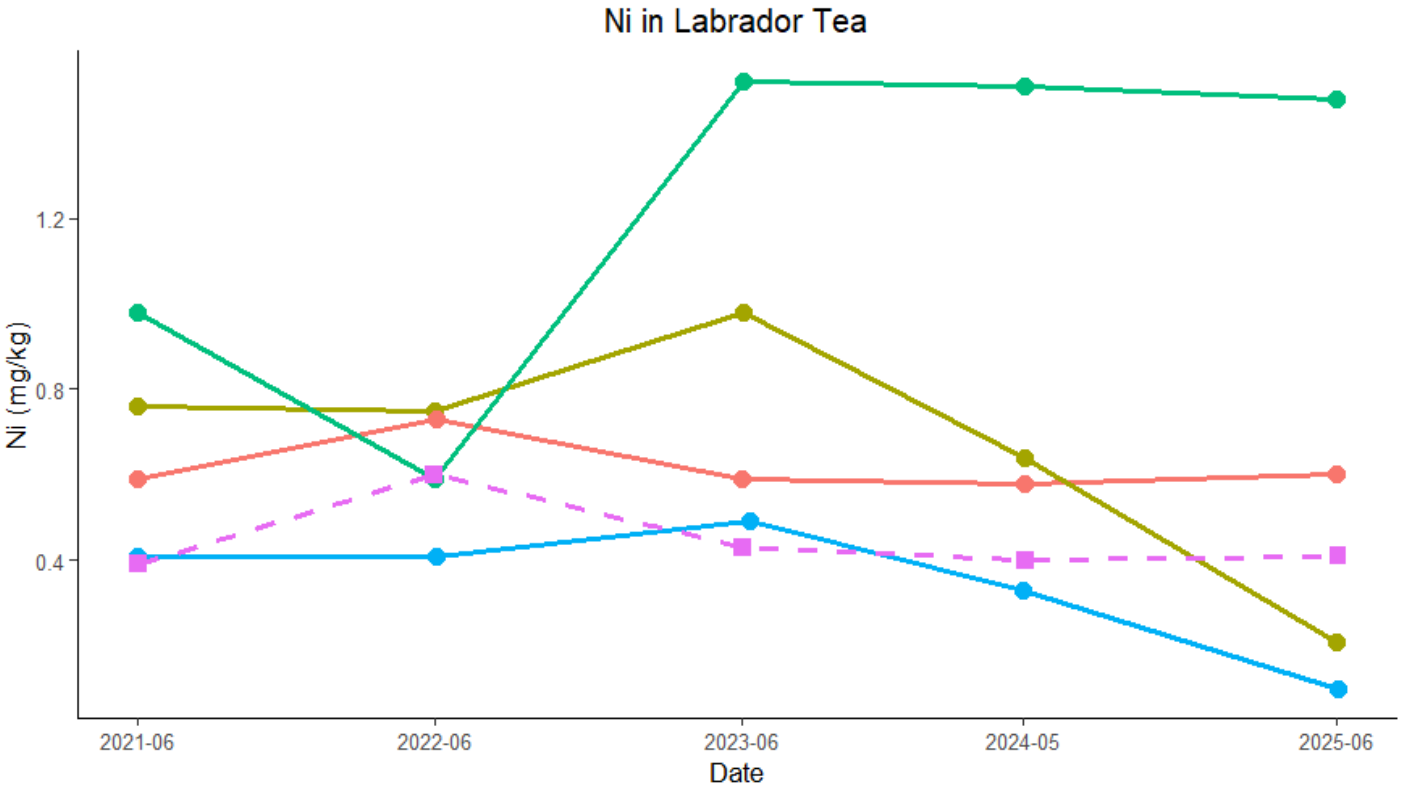
Nickel

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Figure E.19





Plot 4
Plot 109
Plot 114
Plot 11
Plot 71 - Control
Alberta Tier 1 - Natural Area (45 mg/kg)

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

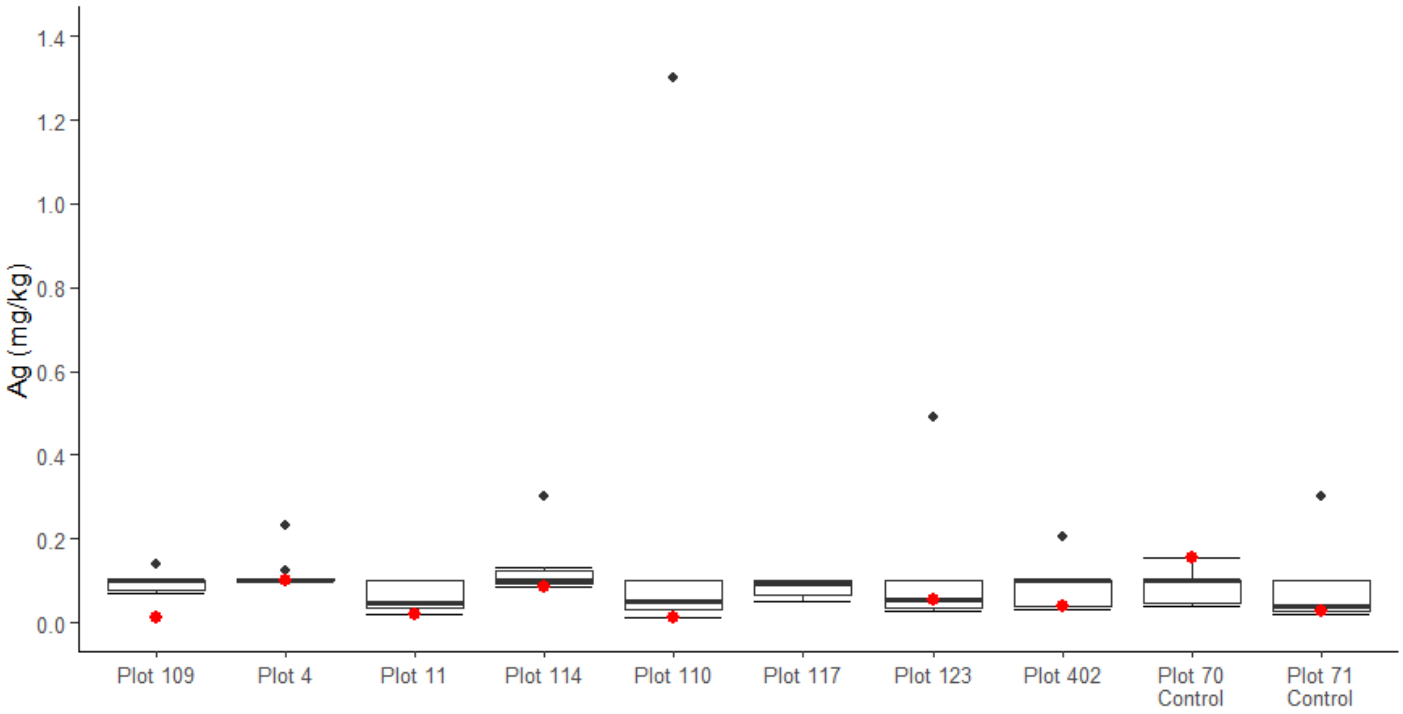
Nickel

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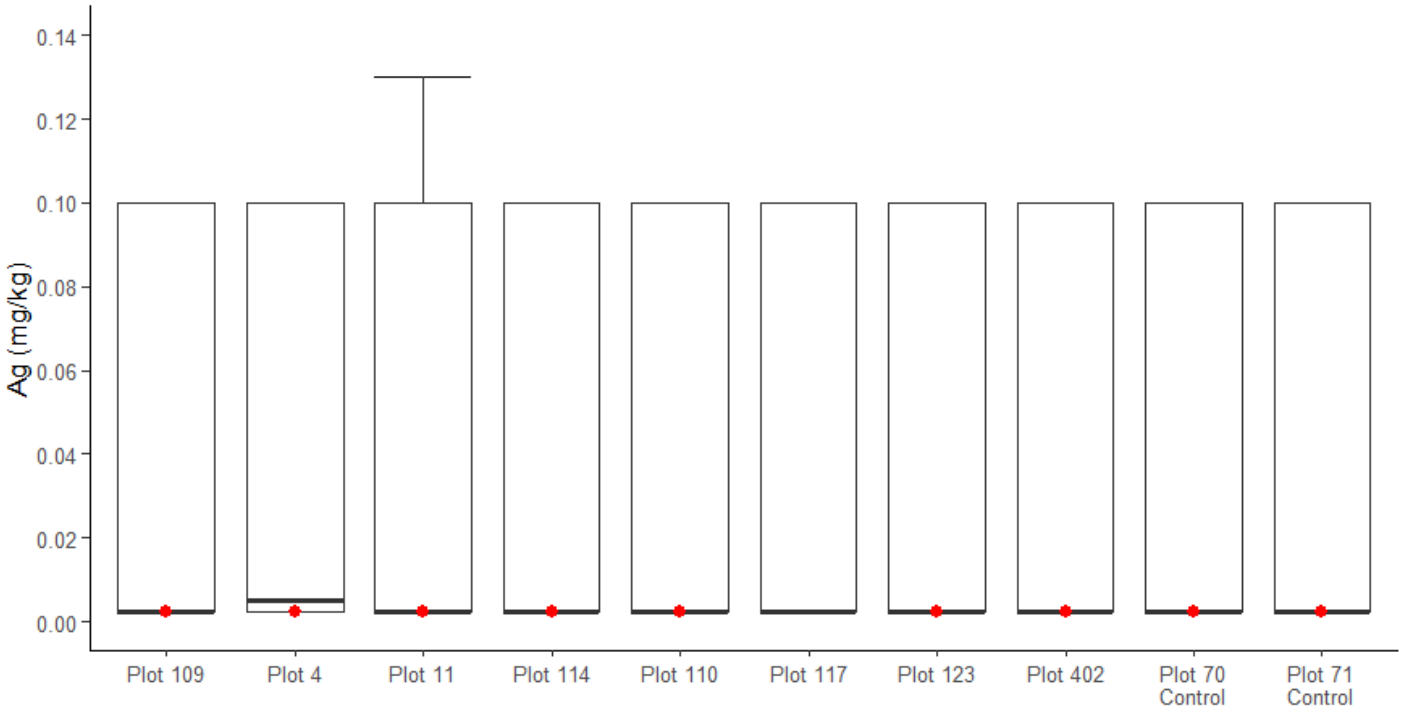
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Figure E.20

Ag in Moss



Ag in Labrador Tea



Median

Interquartile Range (IQR) (25th to 75th percentile)

1.5×IQR boundary or most extreme data value

Outlier (Data point greater than 1.5×IQR)

2025 Sample

*Alberta Tier 1 Soil Guideline is 20 mg/kg

MONTROSE ENVIRONMENTAL

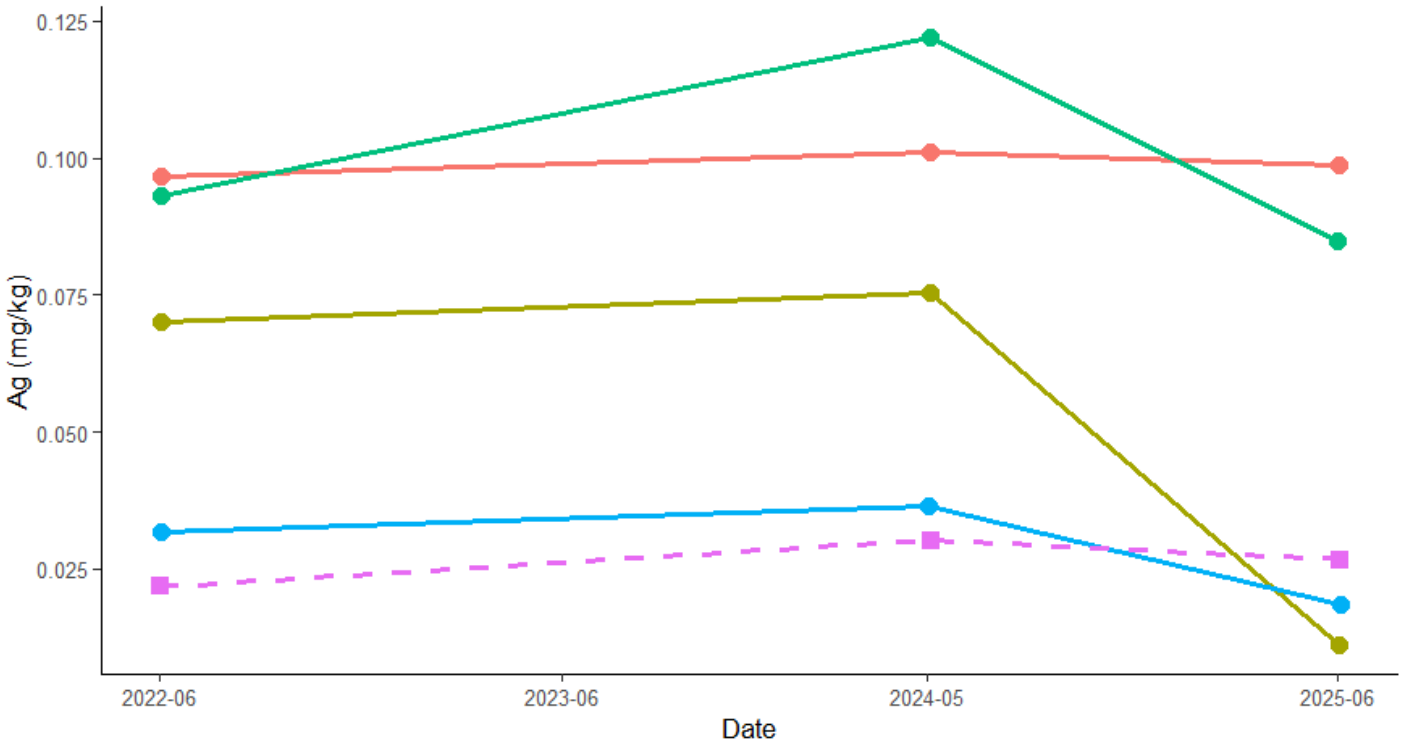
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Soil and Vegetation Monitoring Program

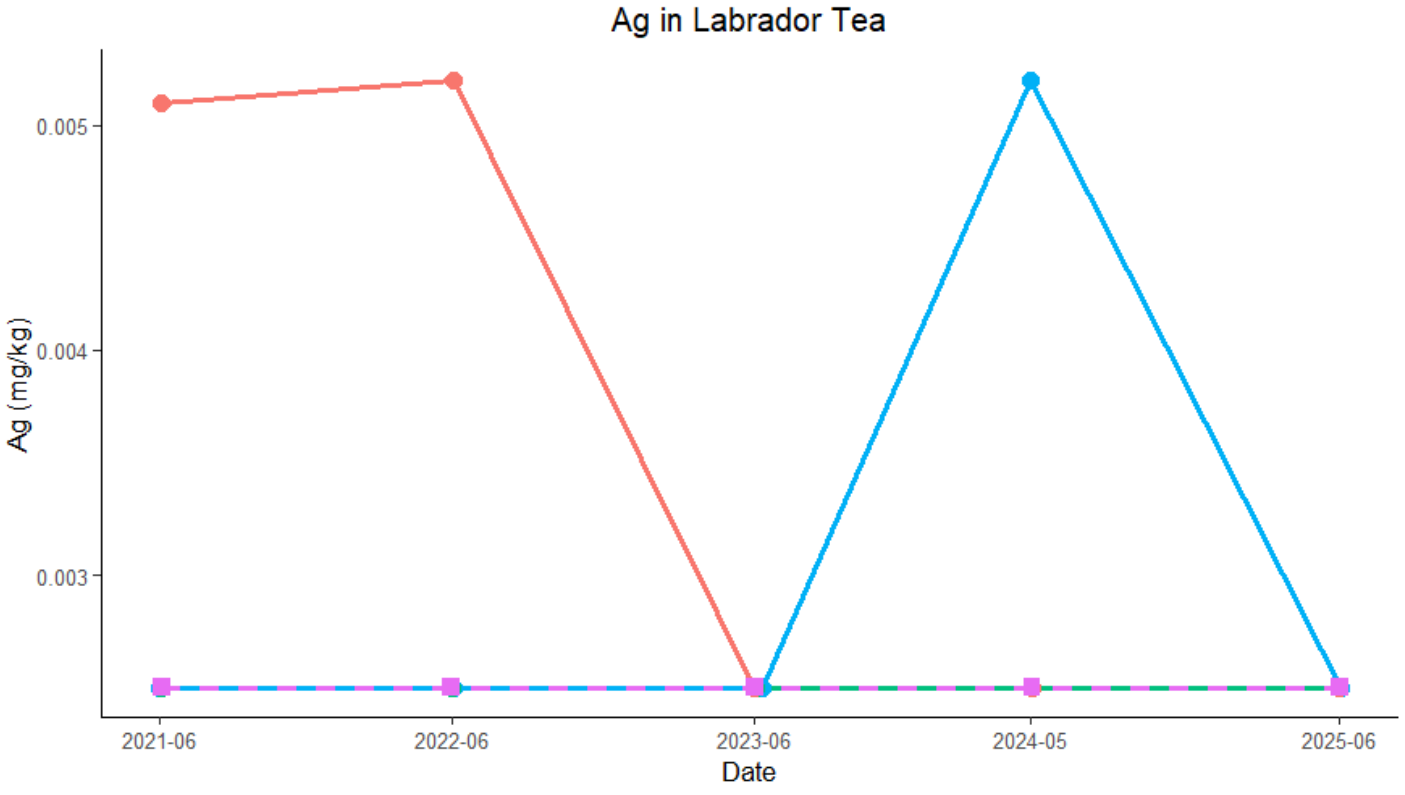
Silver

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Figure **E.21**





Plot 4
Plot 109
Plot 114
Plot 11
Plot 71 - Control

*Alberta Tier 1 Soil Guideline is 20 mg/kg

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

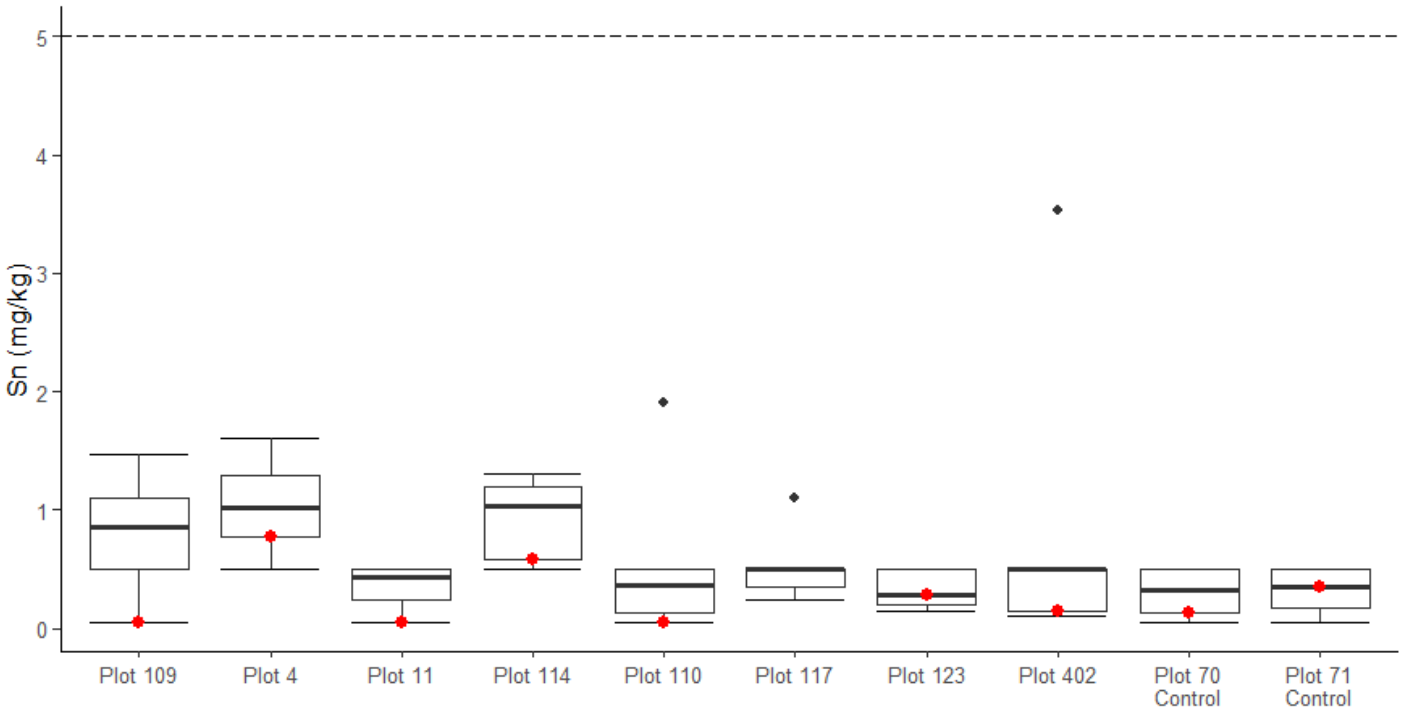
Silver

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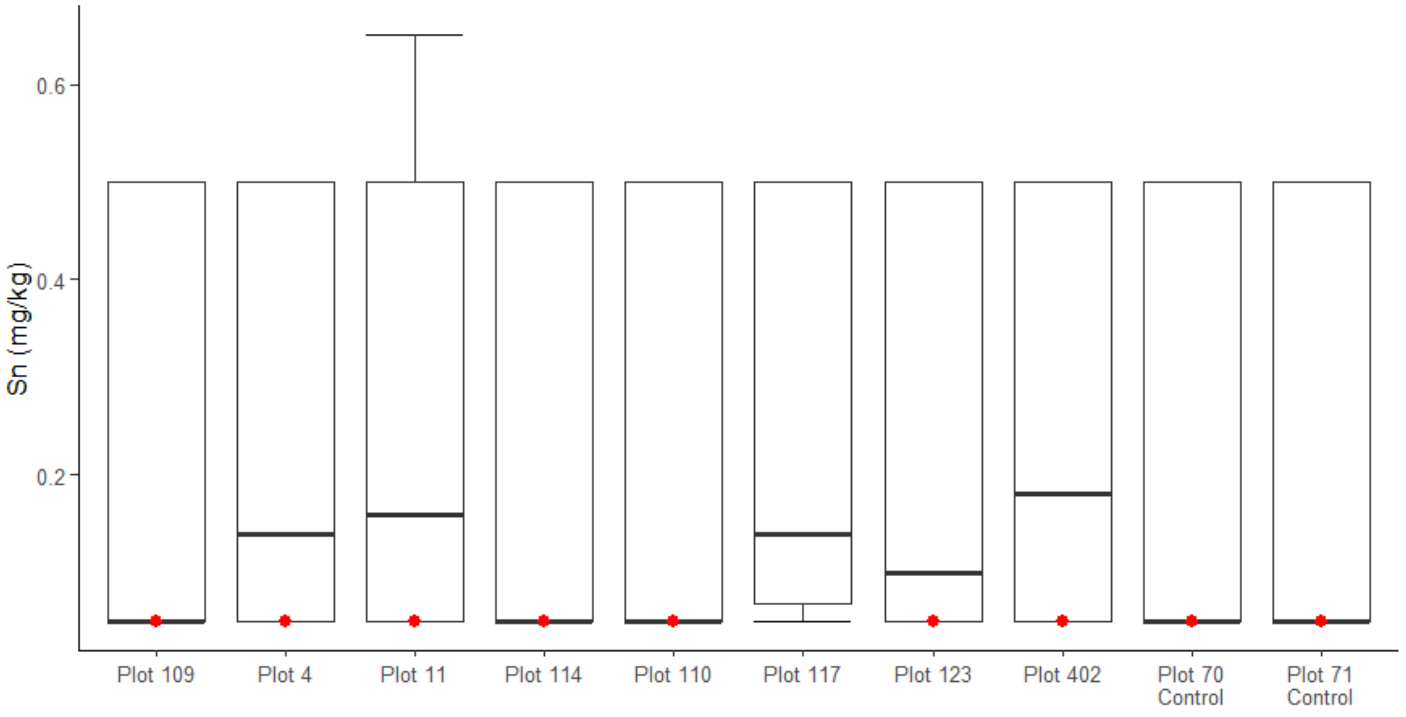
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Figure E.22

Sn in Moss



Sn in Labrador Tea



- Median
- Interquartile Range (IQR) (25th to 75th percentile)
- 1.5×IQR boundary or most extreme data value
- Outlier (Data point greater than 1.5×IQR)
- 2025 Sample

*Alberta Tier 1 Soil Guideline is 5 mg/kg

MONTROSE ENVIRONMENTAL

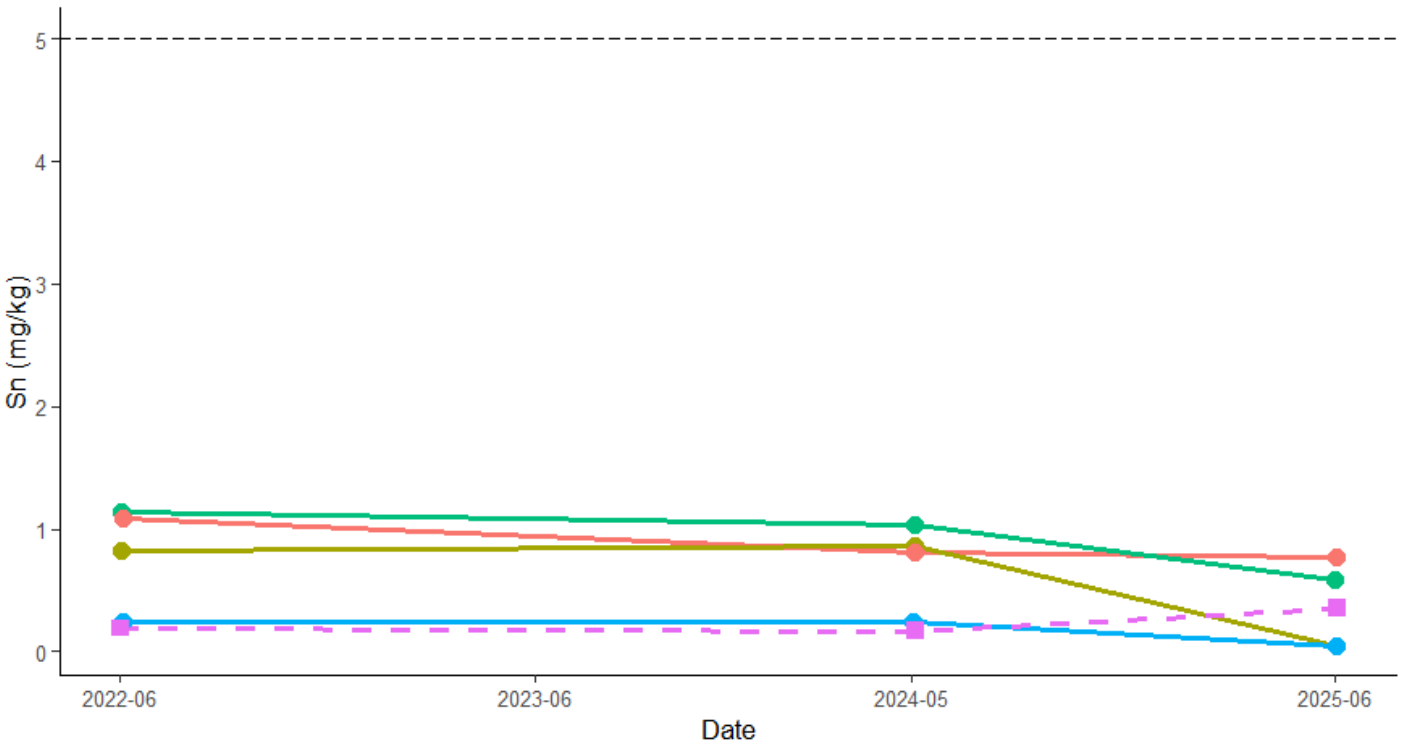
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

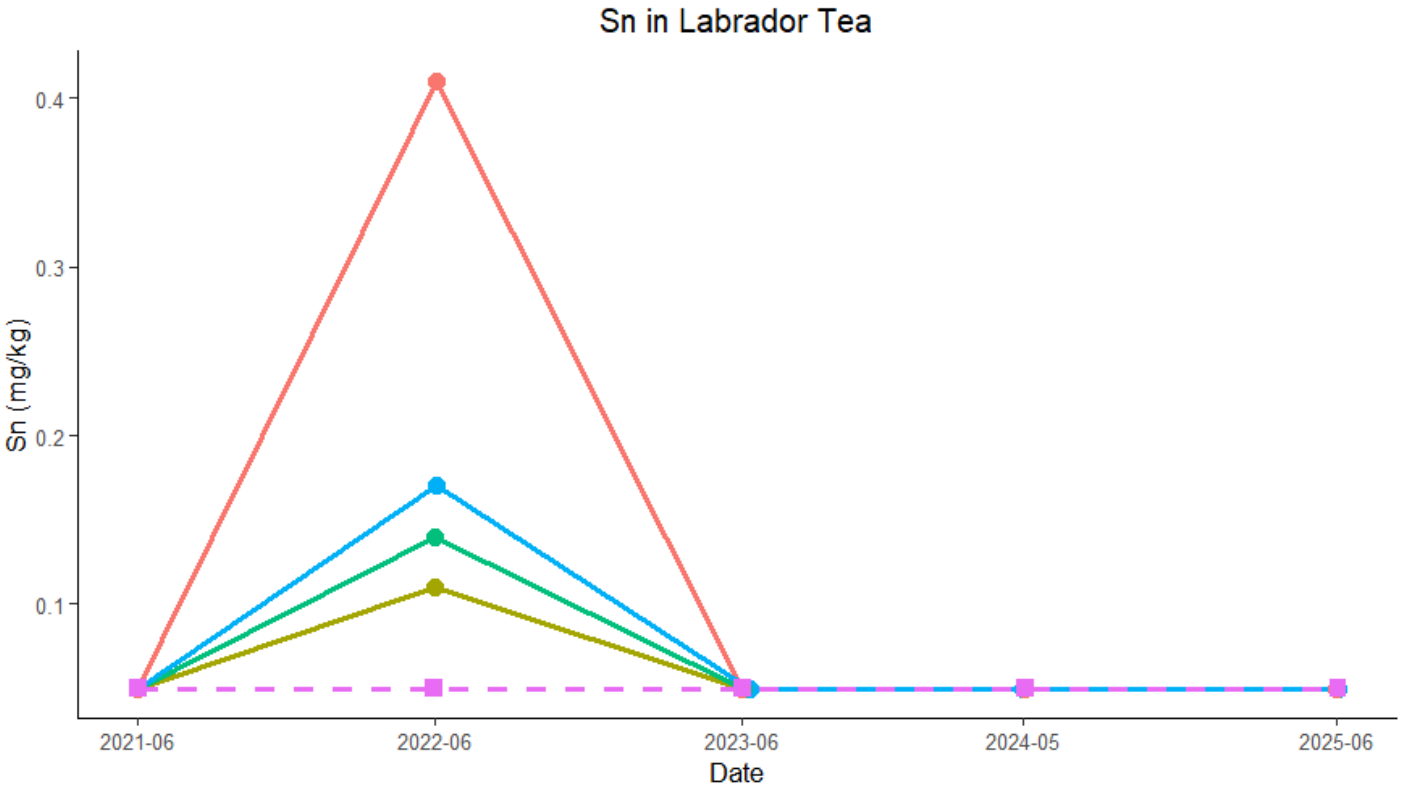
Tin

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Figure E.23





Plot 4
Plot 109
Plot 114
Plot 11
Plot 71 - Control
--- Alberta Tier 1 – Natural Area (5 mg/kg)

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

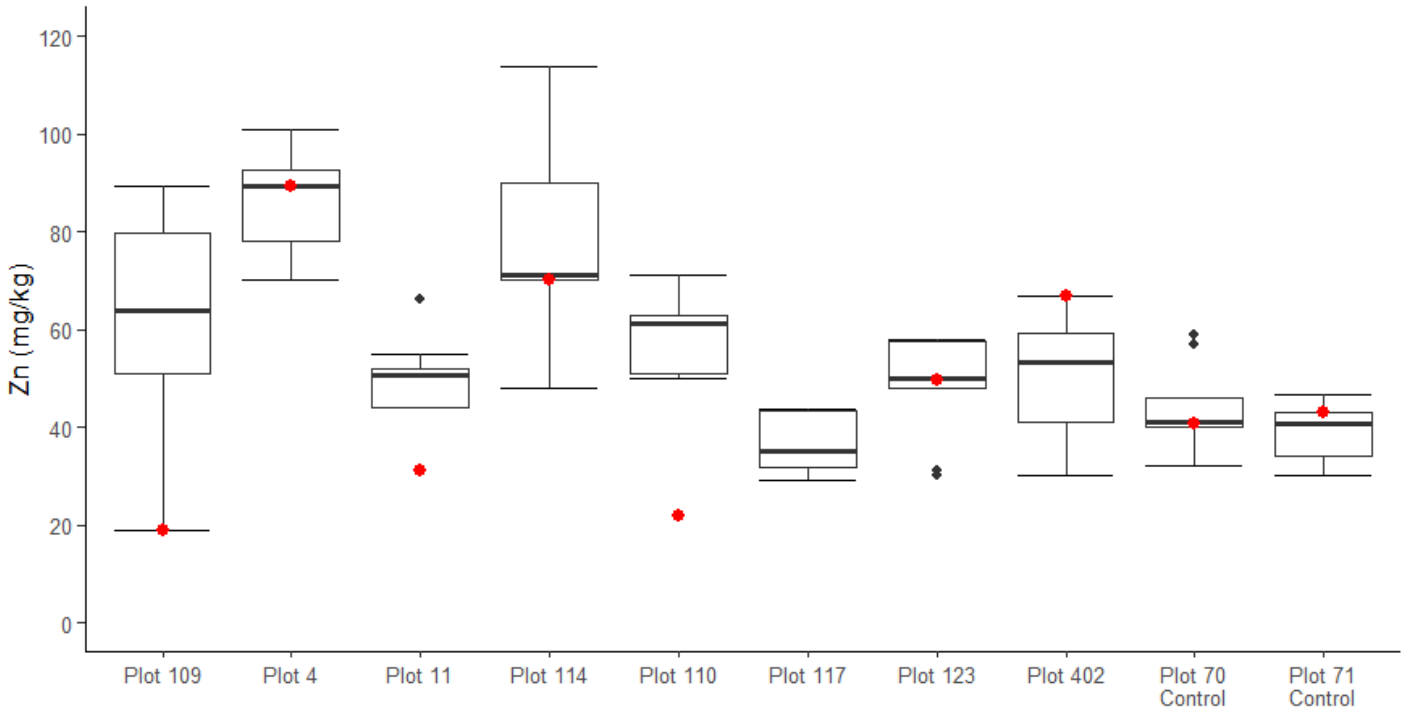
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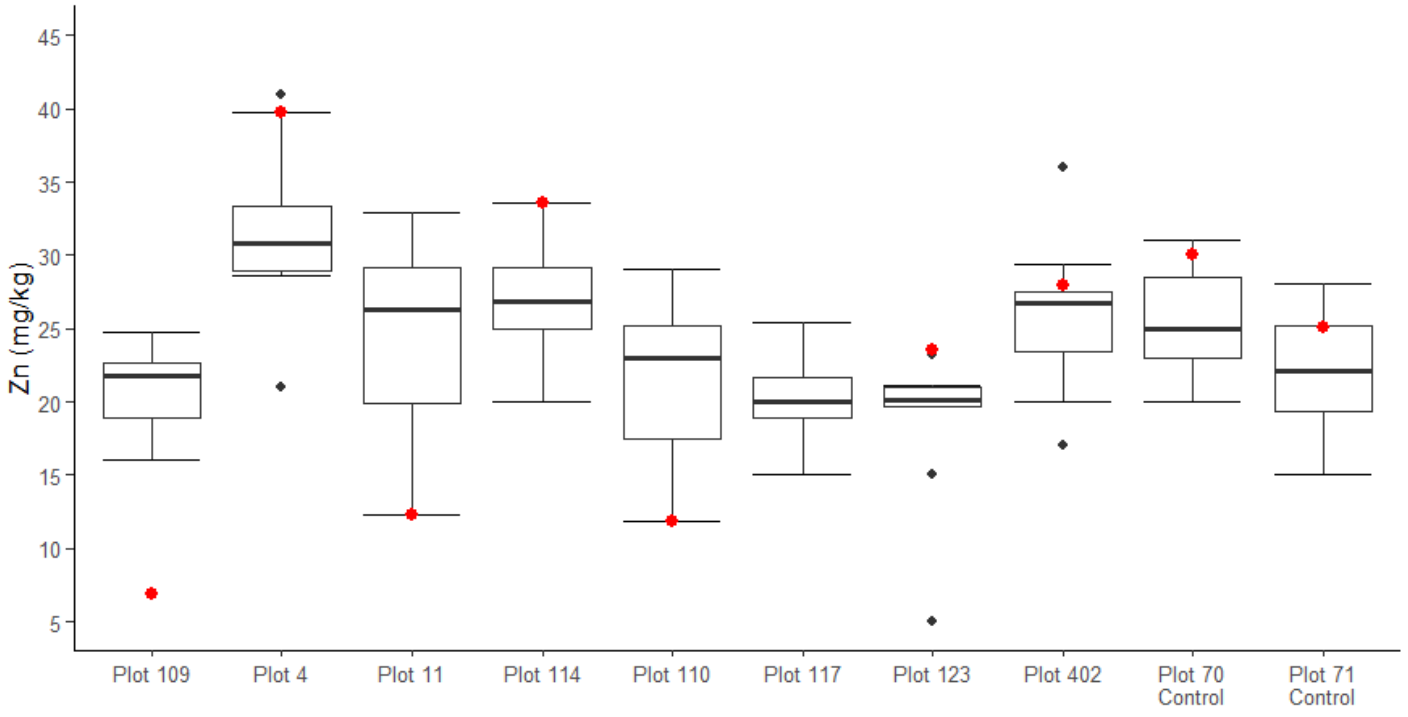
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Figure E.24

Zn in Moss



Zn in Labrador Tea



- Median
- Interquartile Range (IQR) (25th to 75th percentile)
- 1.5×IQR boundary or most extreme data value
- Outlier (Data point greater than 1.5×IQR)
- 2025 Sample

*Alberta Tier 1 Soil Guideline is 250 mg/kg

MONTROSE ENVIRONMENTAL

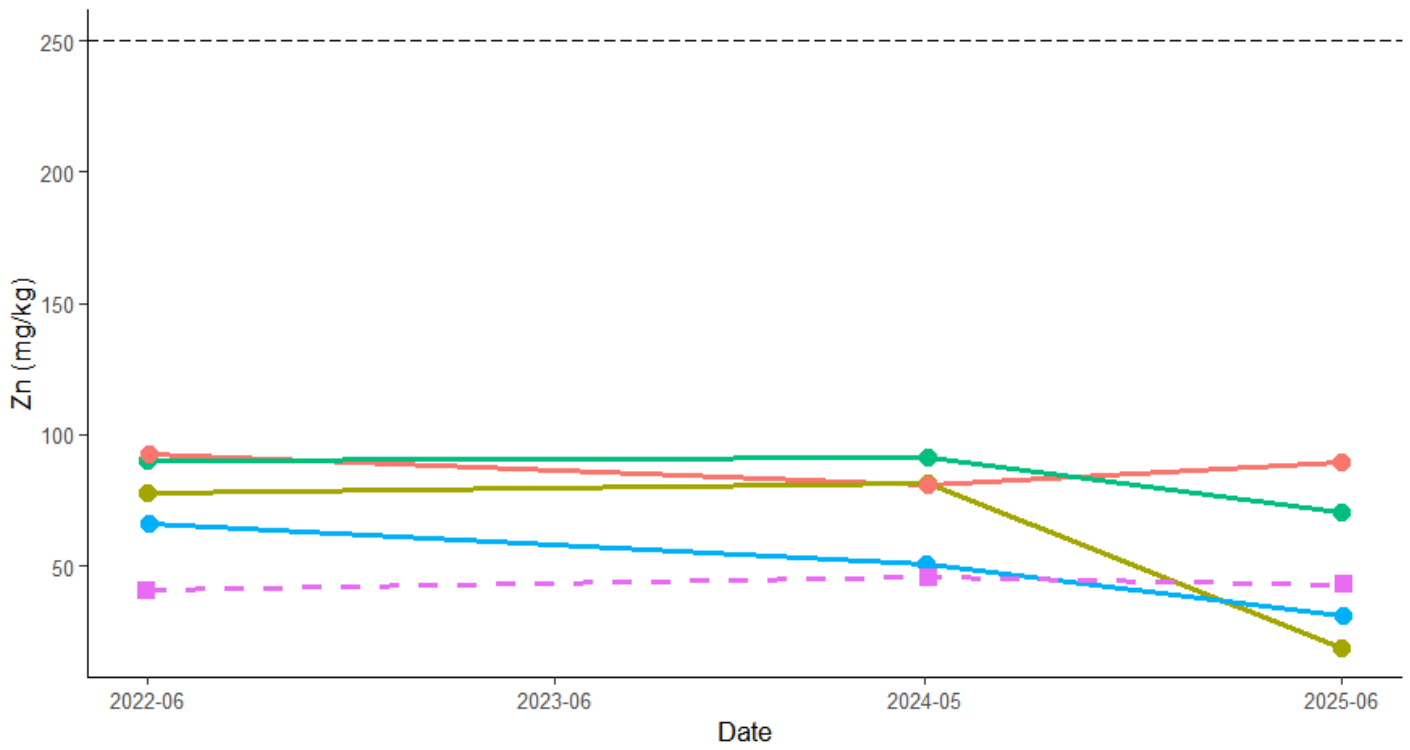
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Soil and Vegetation Monitoring Program

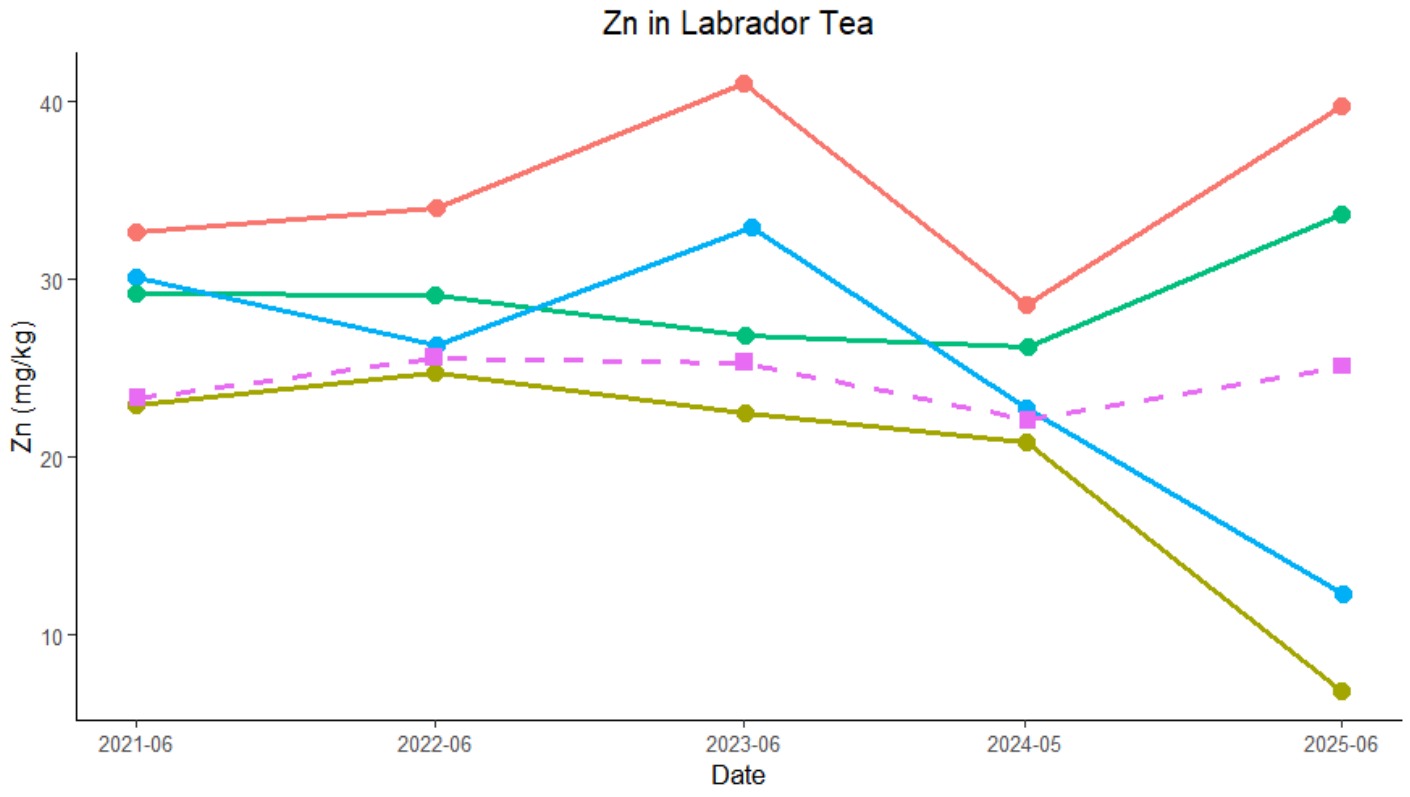
Zinc

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Figure E.25





Plot 4
Plot 109
Plot 114
Plot 11
Plot 71 - Control
Alberta Tier 1 – Natural Area (250 mg/kg)

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

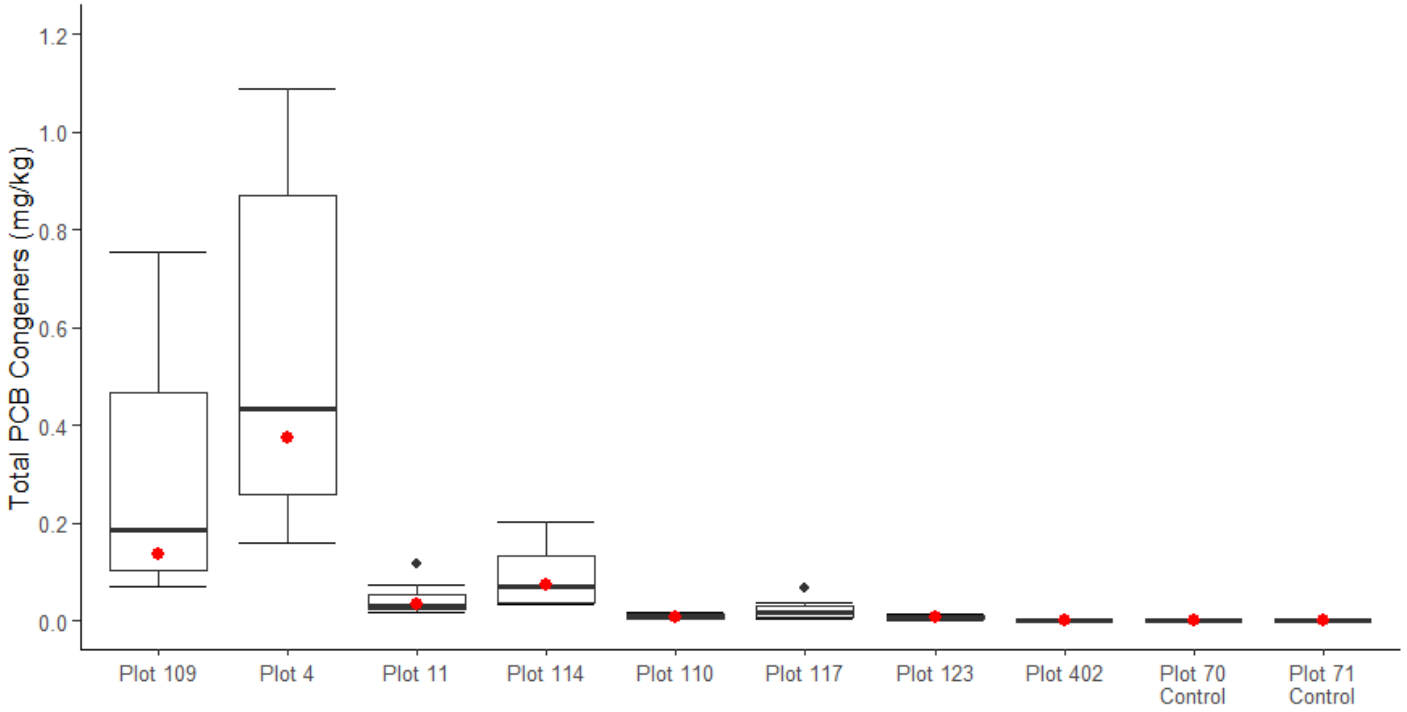
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Date:	Project:	Technical:	Reviewer:	Drawn:
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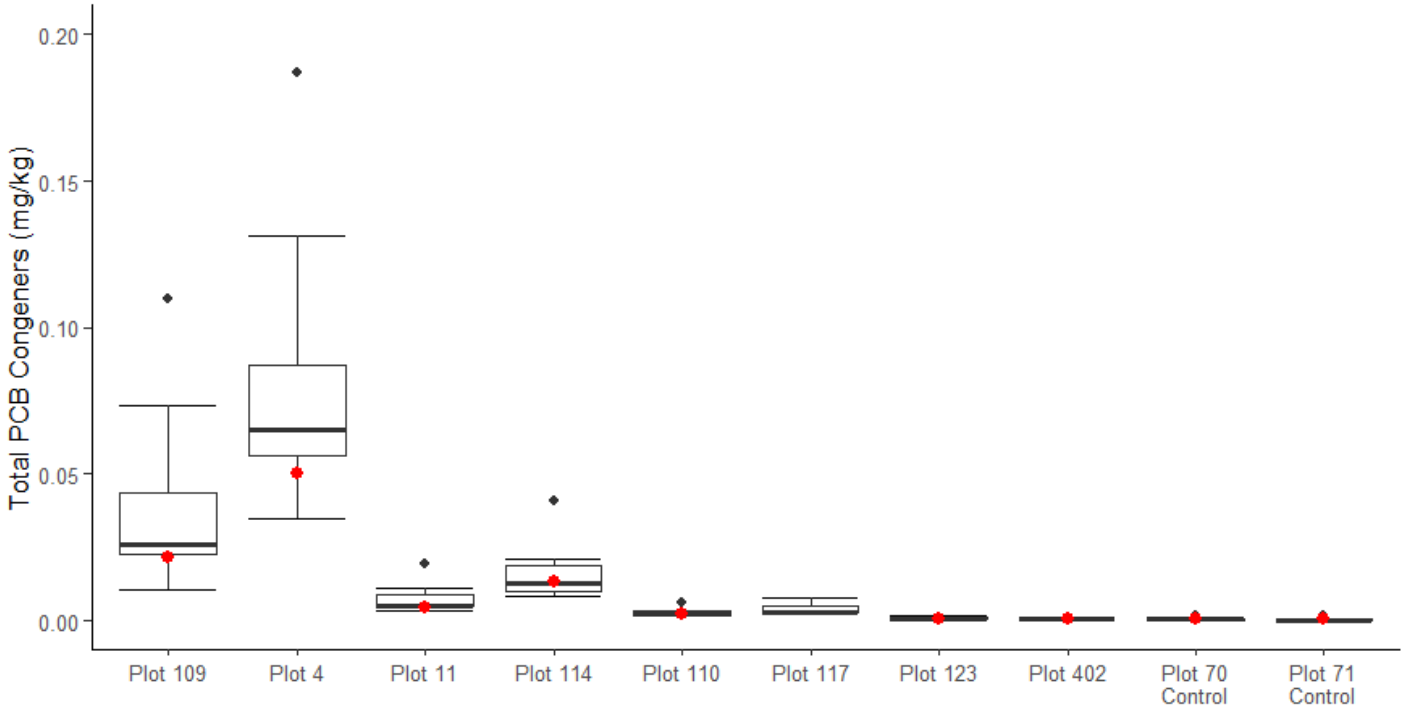
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Figure **E.26**

PCB Concentration (Congeners) in Moss



PCB Concentration (Congeners) in Labrador Tea



- Median
- Interquartile Range (IQR) (25th to 75th percentile)
- 1.5×IQR boundary or most extreme data value
- Outlier (Data point greater than 1.5×IQR)
- 2025 Sample

*Alberta Tier 1 Soil Guideline is 1.3 mg/kg

MONTROSE ENVIRONMENTAL

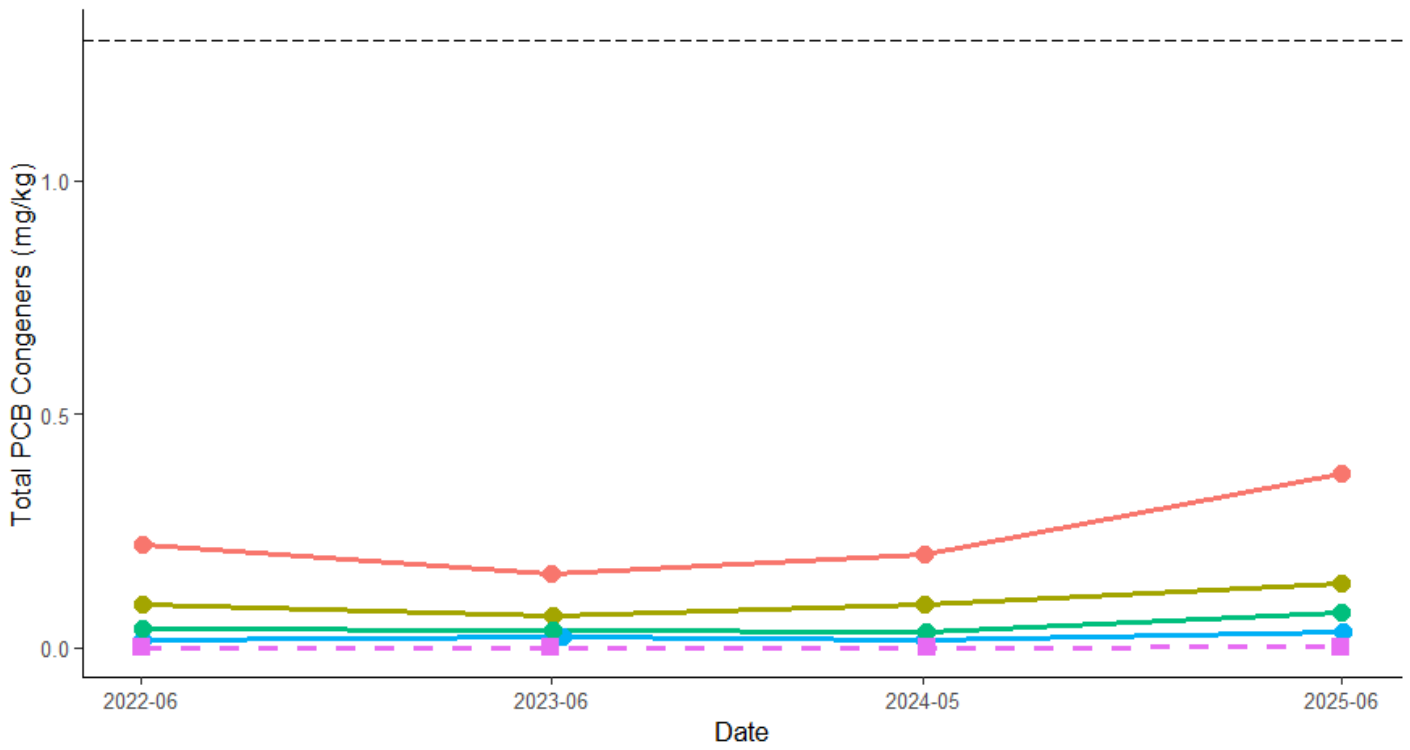
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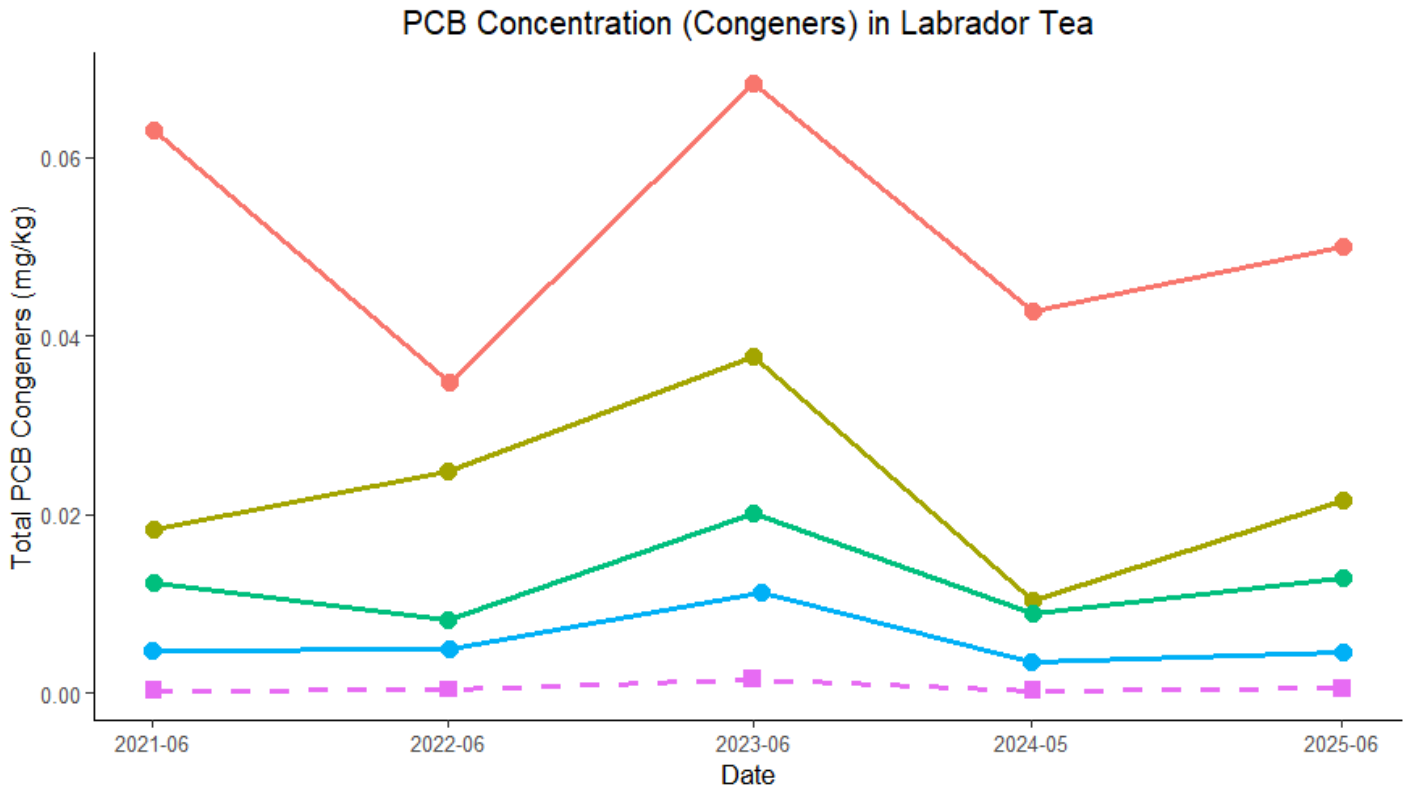
PCB Concentration (Congeners)

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Figure E.27





Plot 4
Plot 109
Plot 114
Plot 11
Plot 70 - Control
Alberta Tier 1 - Natural Area/CCME Guideline (1.3 mg/kg)

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

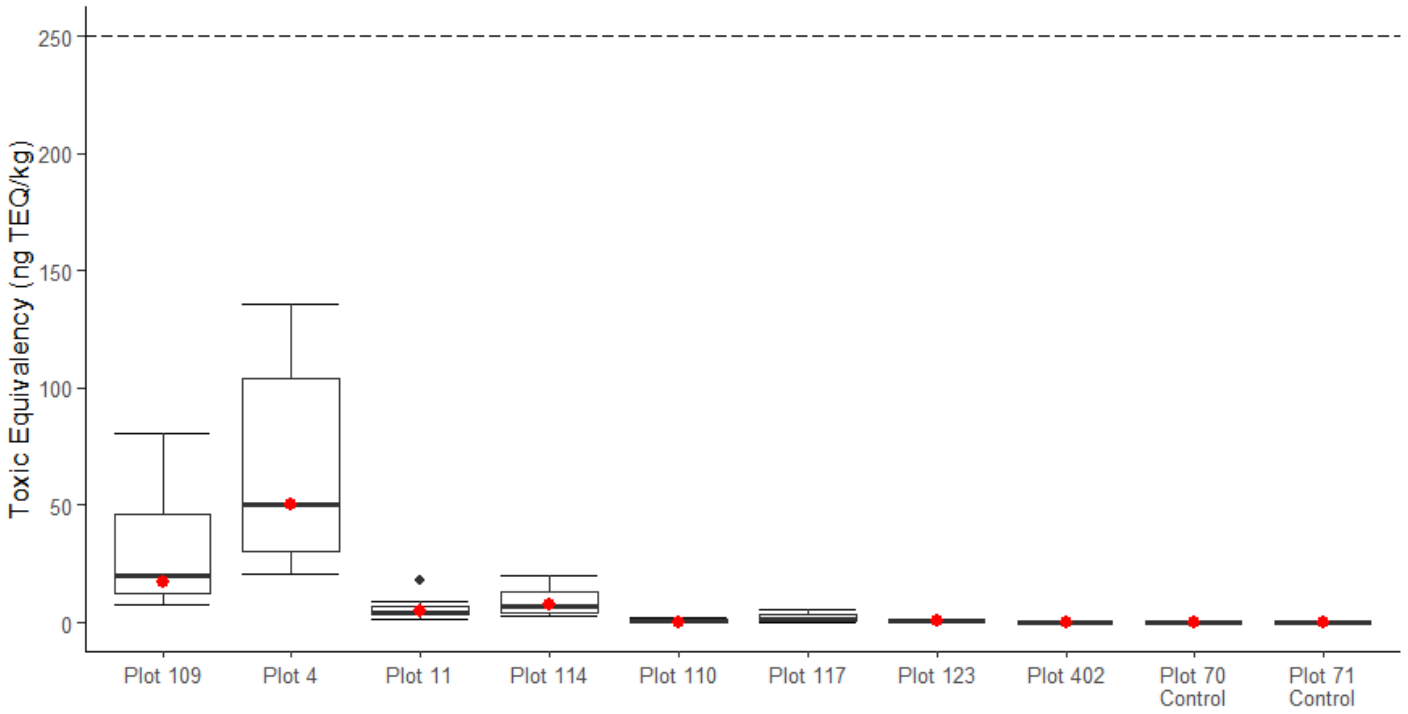
PCB Concentration (Congeners)

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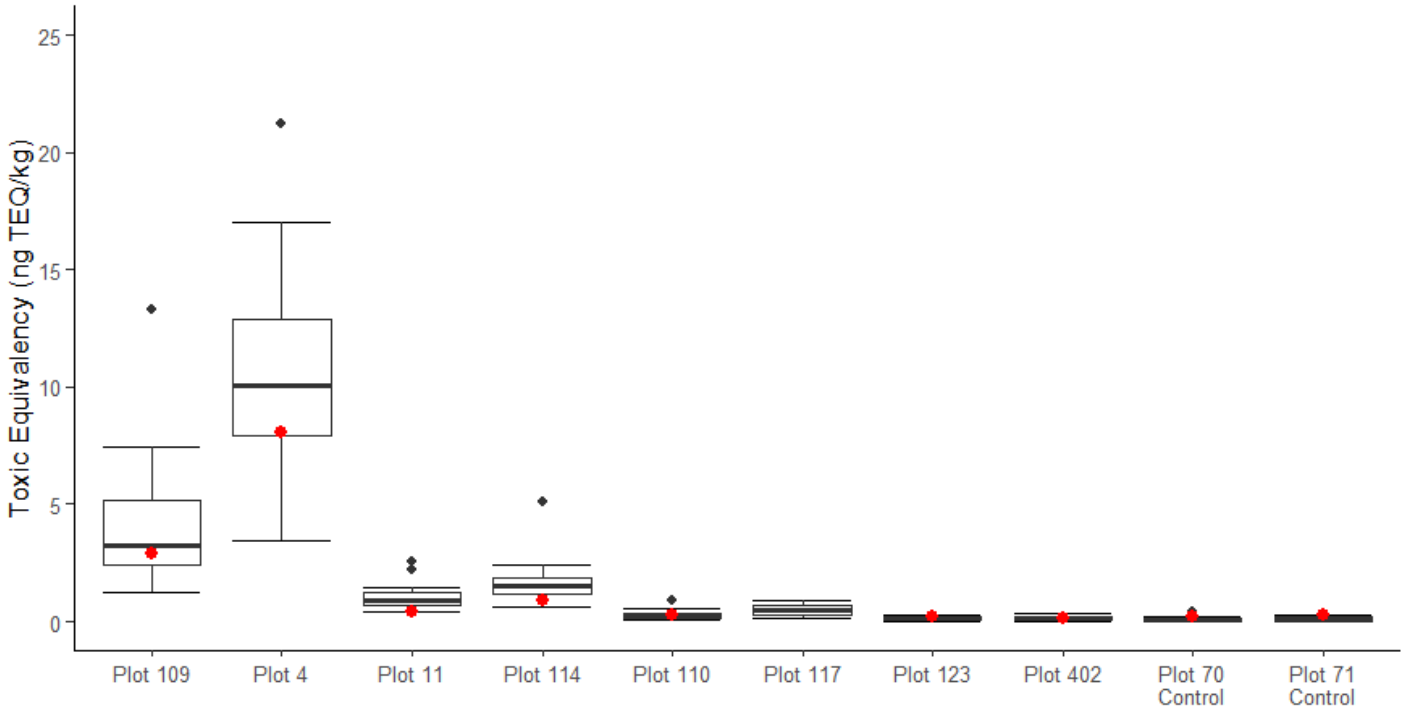
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Figure **E.28**

PCB TEQ in Moss



PCB TEQ in Labrador Tea



- Median
- Interquartile Range (IQR) (25th to 75th percentile)
- 1.5×IQR boundary or most extreme data value
- Outlier (Data point greater than 1.5×IQR)
- 2025 Sample
- Alberta Tier 1 - Natural Area (250 ng TEQ/kg)

MONTROSE ENVIRONMENTAL

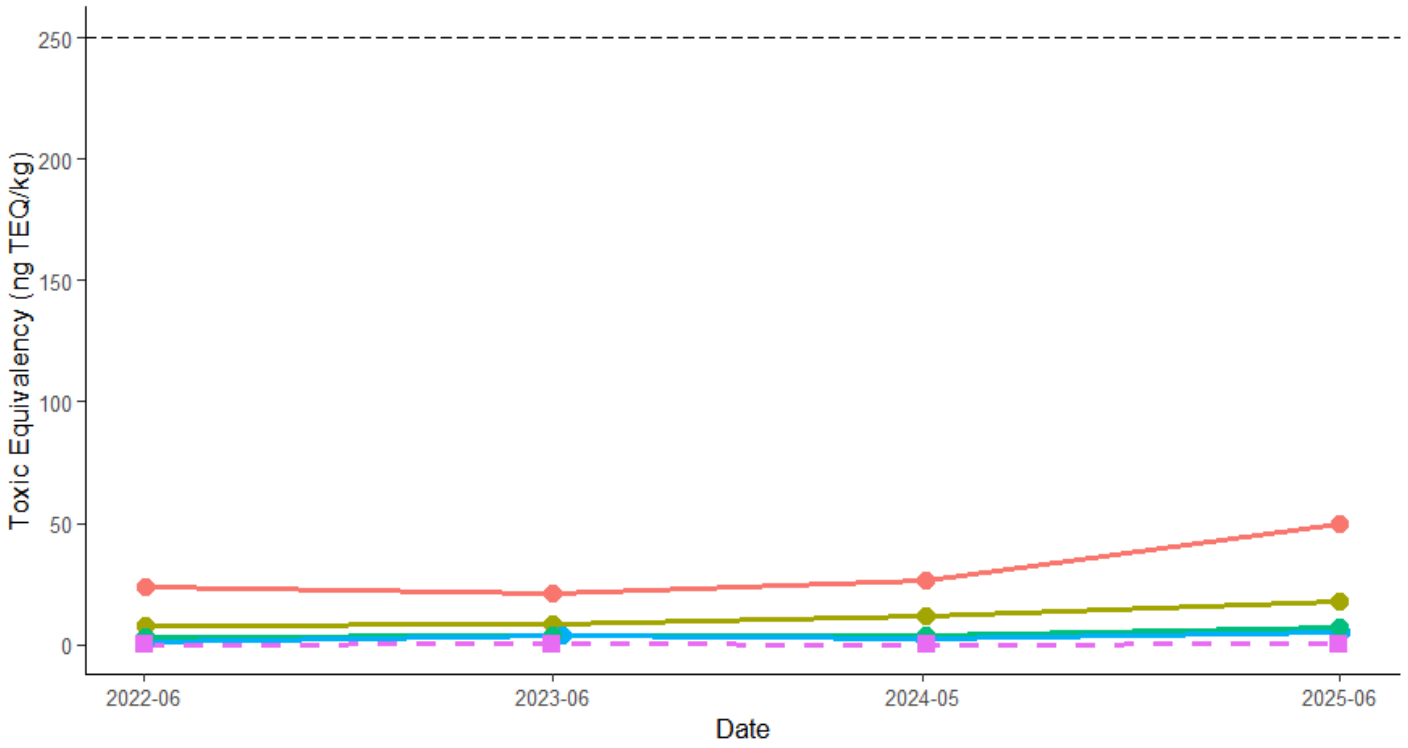
VEOLIA – Swan Hills Treatment Centre
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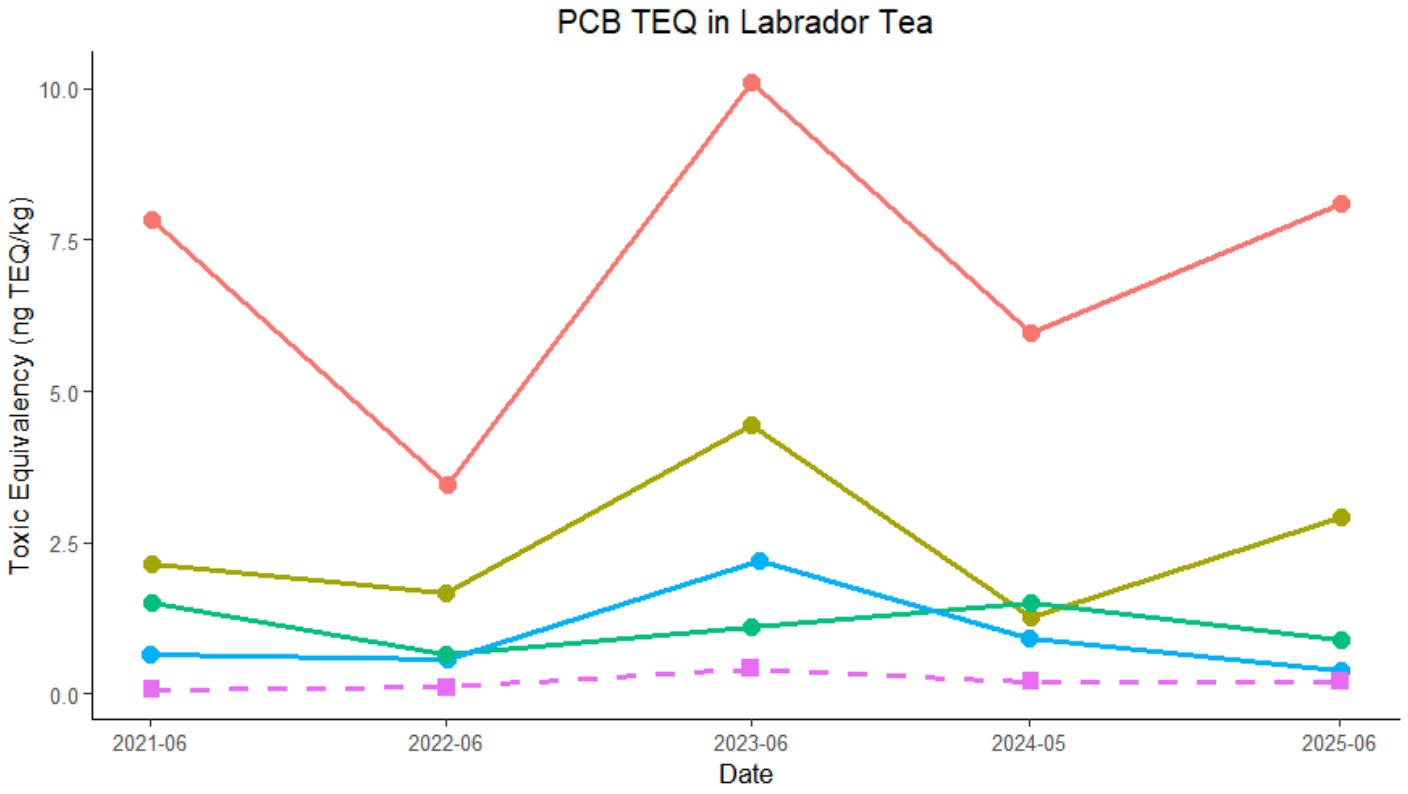
PCB TEQ

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Figure **E.29**





- Plot 4
- Plot 109
- Plot 114
- Plot 11
- Plot 70 - Control
- Alberta Tier 1 - Natural Area (250 ng TEQ/kg)

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

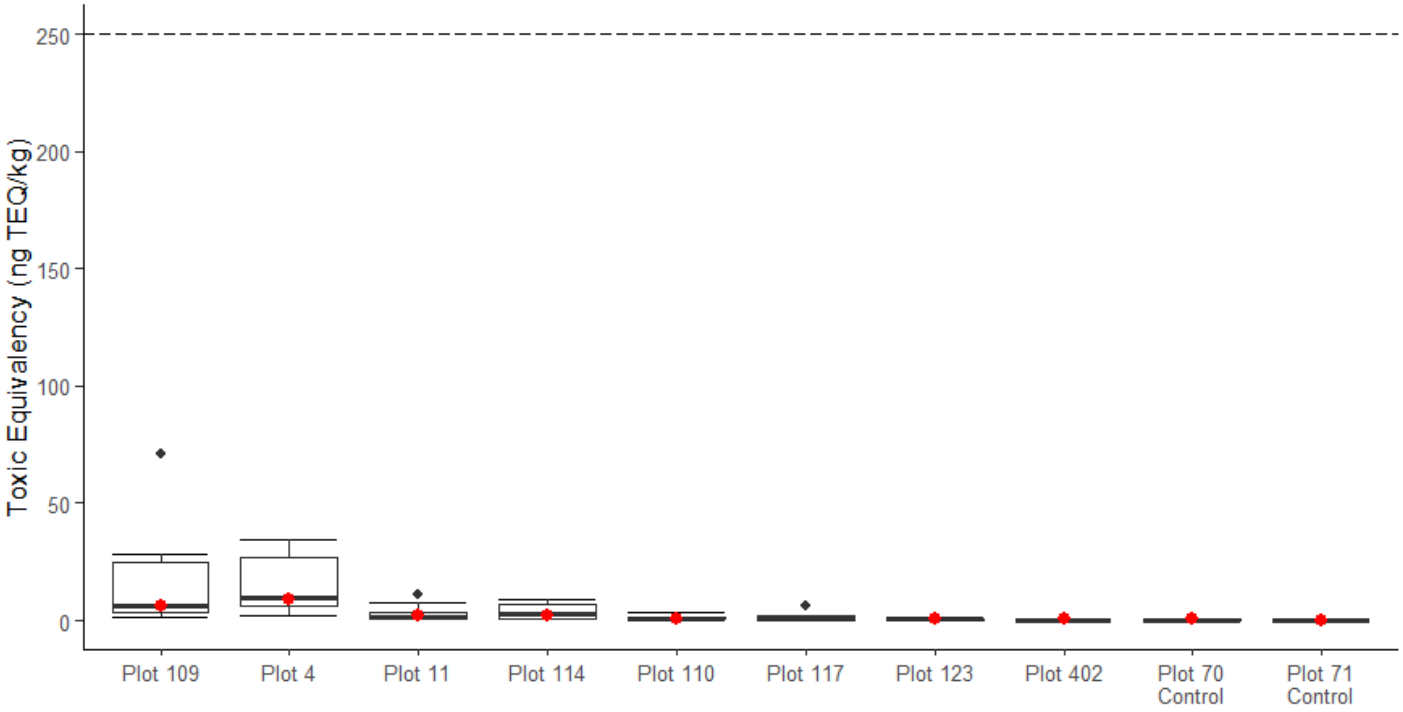
PCB TEQ

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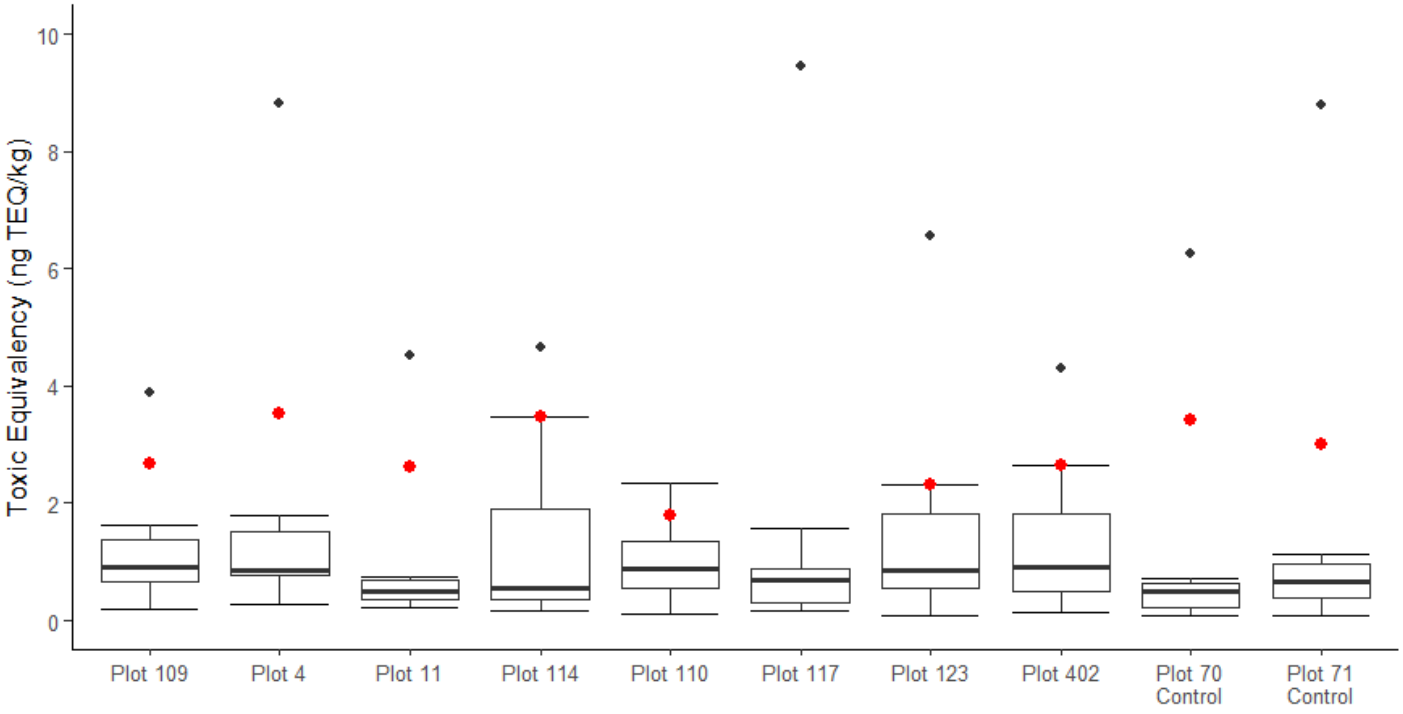
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Figure **E.30**

PCDD/PCDF TEQ in Moss



PCDD/PCDF TEQ in Labrador Tea



- Median
- Interquartile Range (IQR) (25th to 75th percentile)
- 1.5×IQR boundary or most extreme data value
- Outlier (Data point greater than 1.5×IQR)
- 2025 Sample
- Alberta Tier 1 - Natural Area (250 ng TEQ/kg)

MONTROSE ENVIRONMENTAL

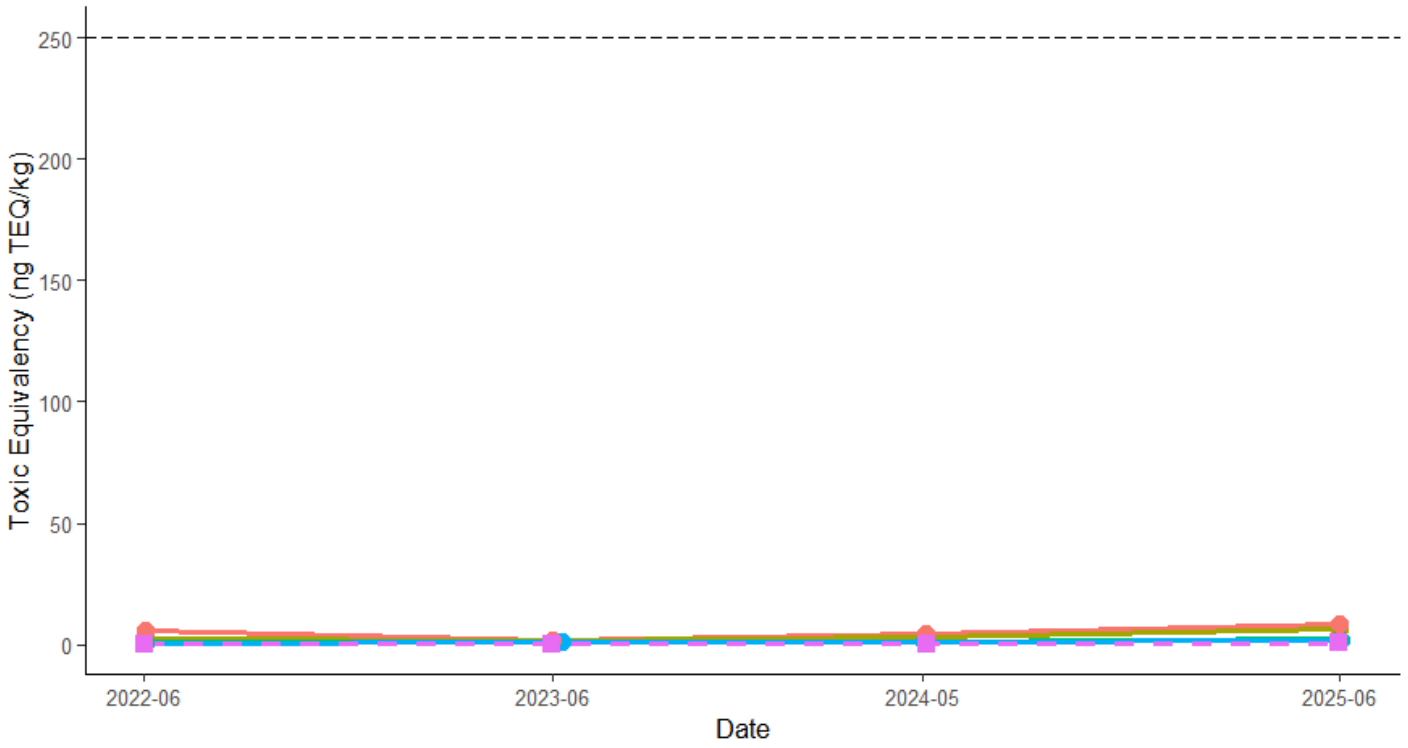
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

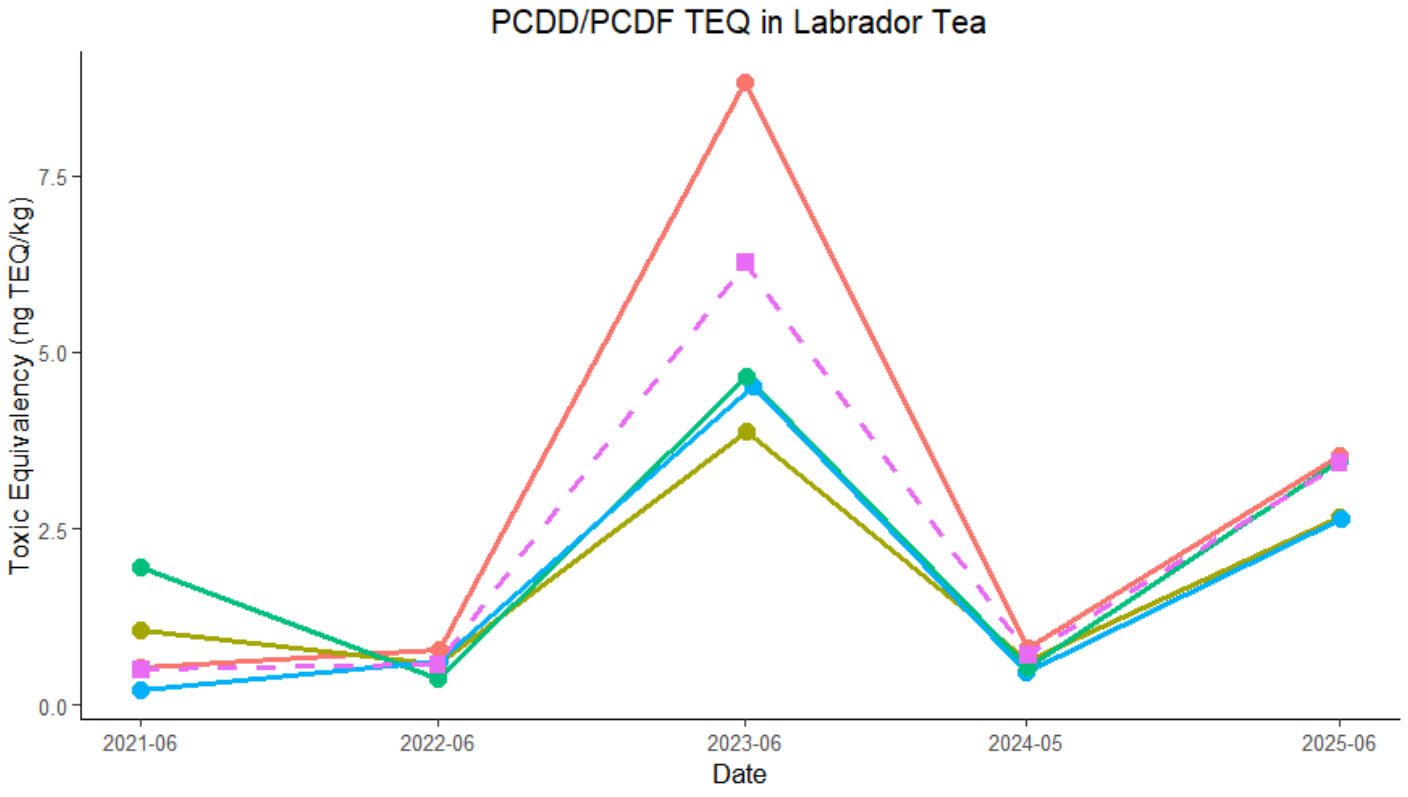
PCDD/PCDF TEQ

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Figure **E.31**





Plot 4
Plot 109
Plot 114
Plot 11
Plot 70 - Control
Alberta Tier 1 - Natural Area (250 ng TEQ/kg)

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

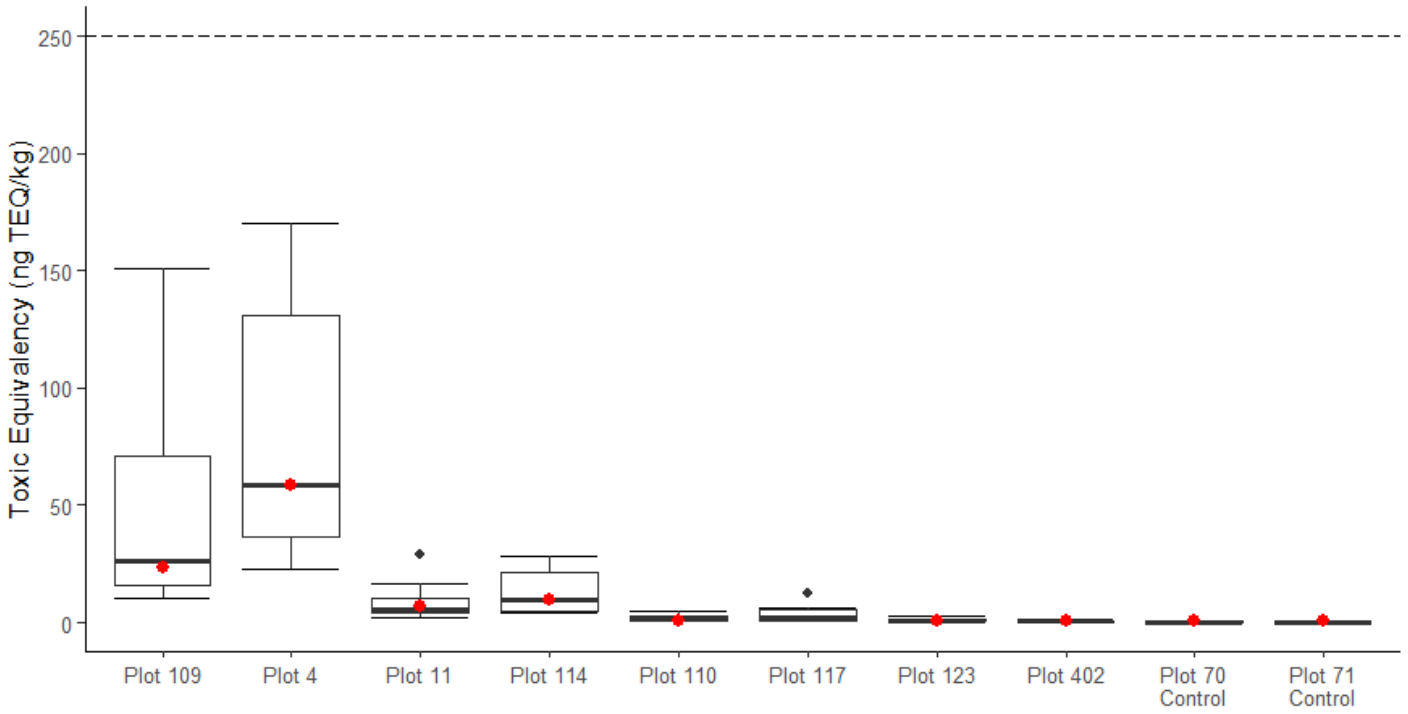
PCDD/PCDF TEQ

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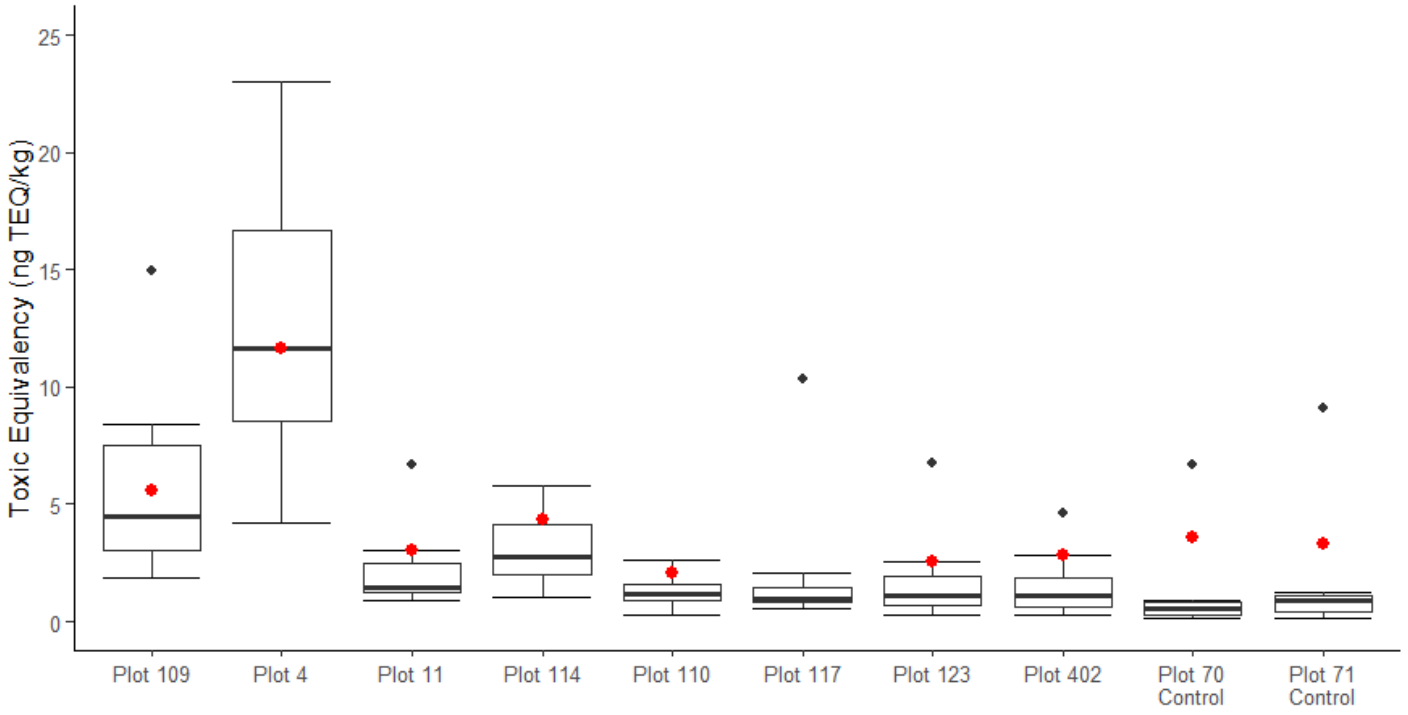
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Figure **E.32**

Total TEQ in Moss



Total TEQ in Labrador Tea



- Median
- Interquartile Range (IQR) (25th to 75th percentile)
- 1.5×IQR boundary or most extreme data value
- Outlier (Data point greater than 1.5×IQR)
- 2025 Sample
- Alberta Tier 1 - Natural Area (250 ng TEQ/kg)

MONTROSE ENVIRONMENTAL

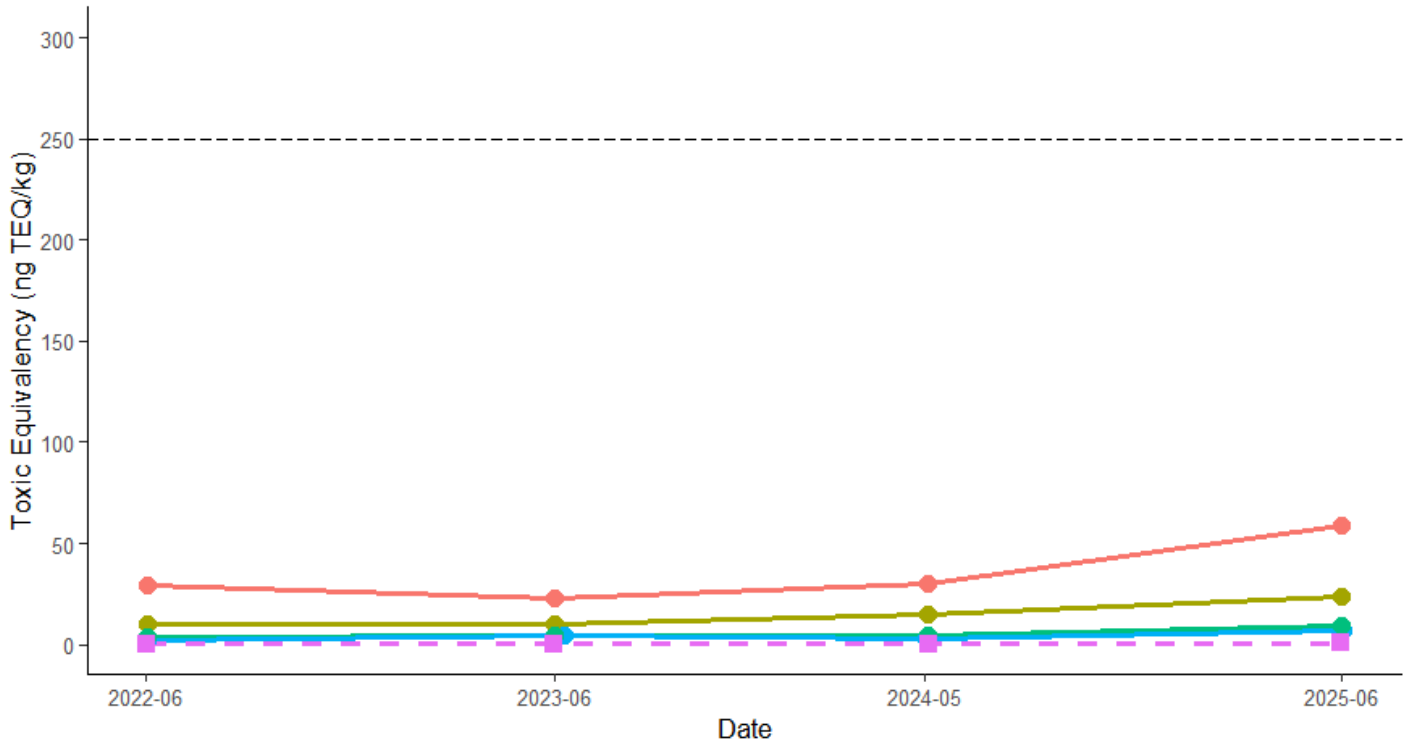
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Soil and Vegetation Monitoring Program

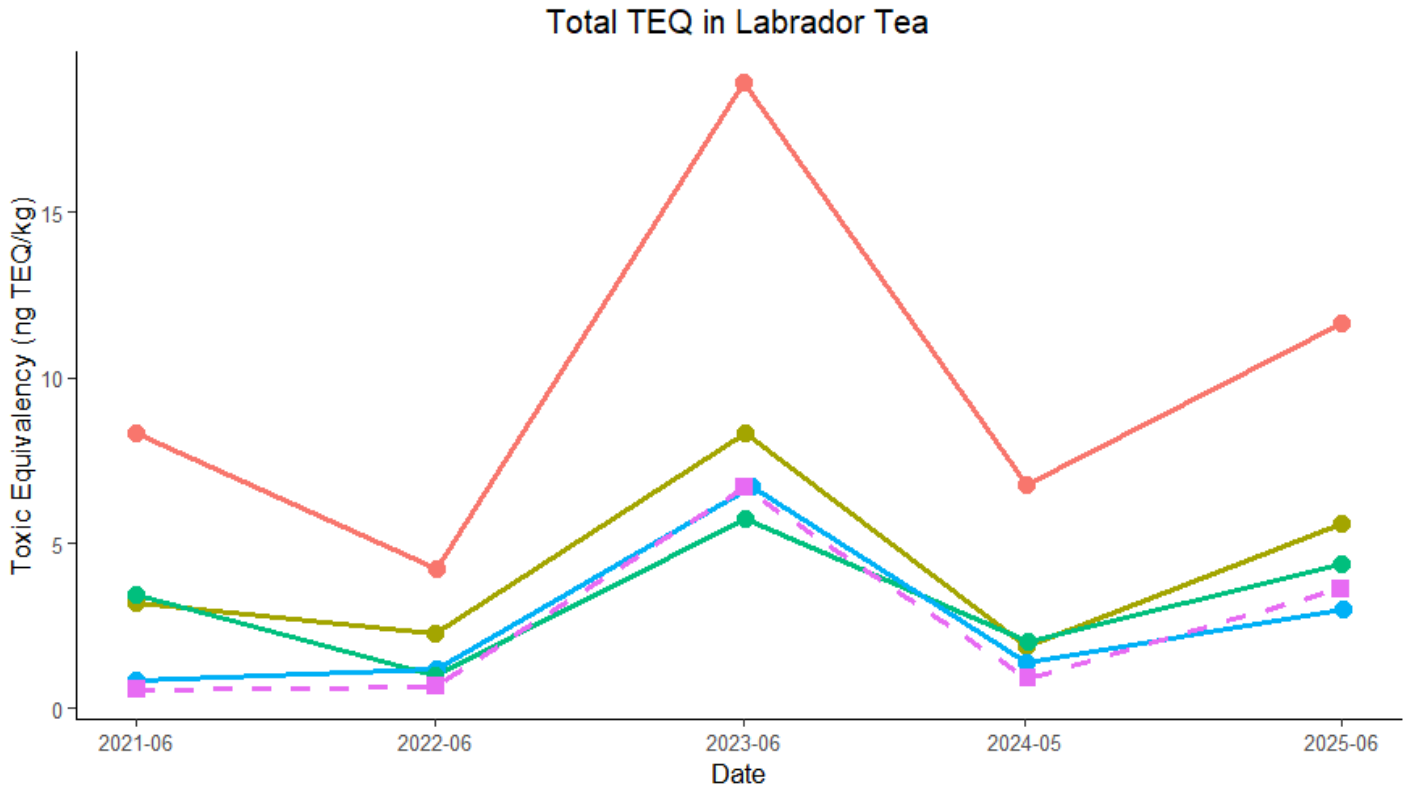
Total TEQ

Date:	Project:	Technical:	Reviewer:	Drawn:
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Figure E.33





- Plot 4
- Plot 109
- Plot 114
- Plot 11
- Plot 70 - Control
- Alberta Tier 1 - Natural Area (250 ng TEQ/kg)

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

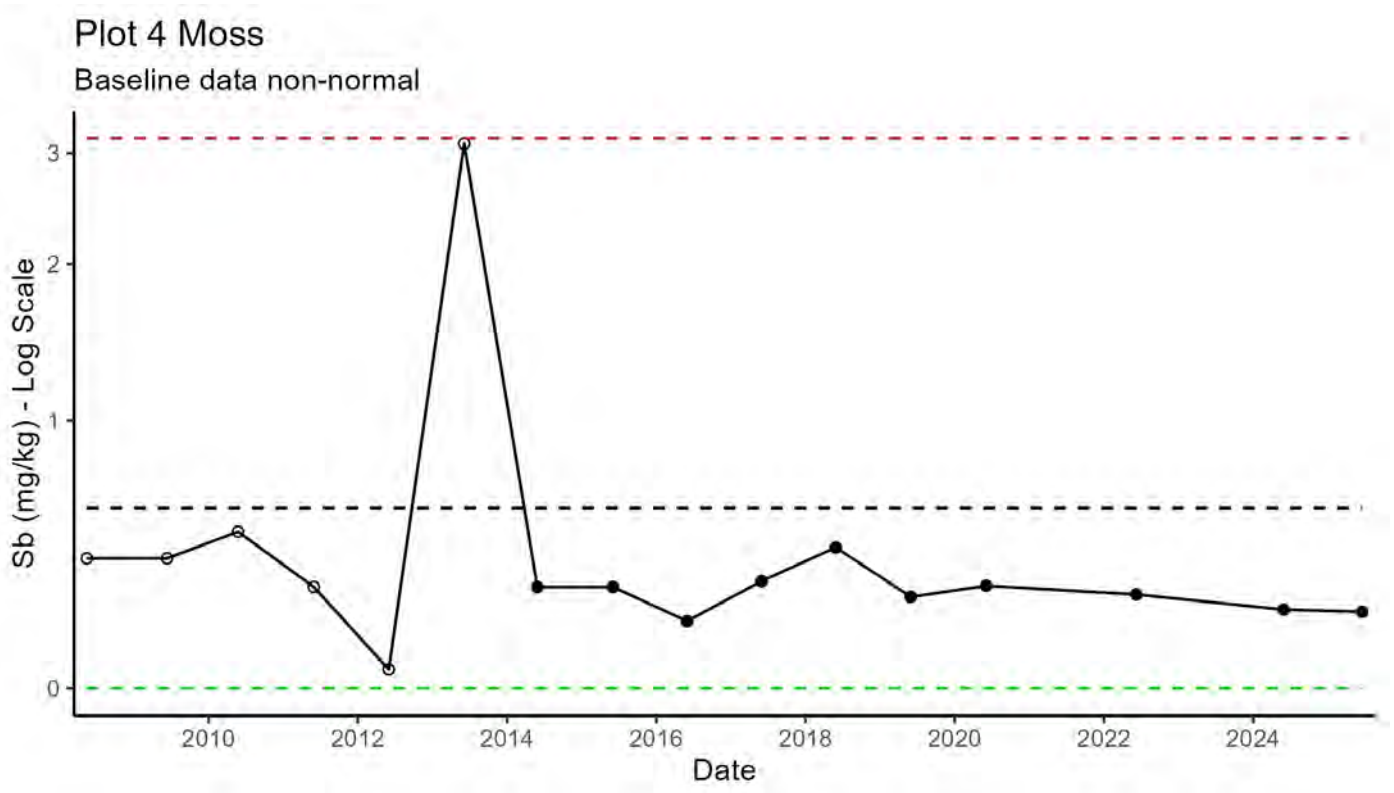
Total TEQ

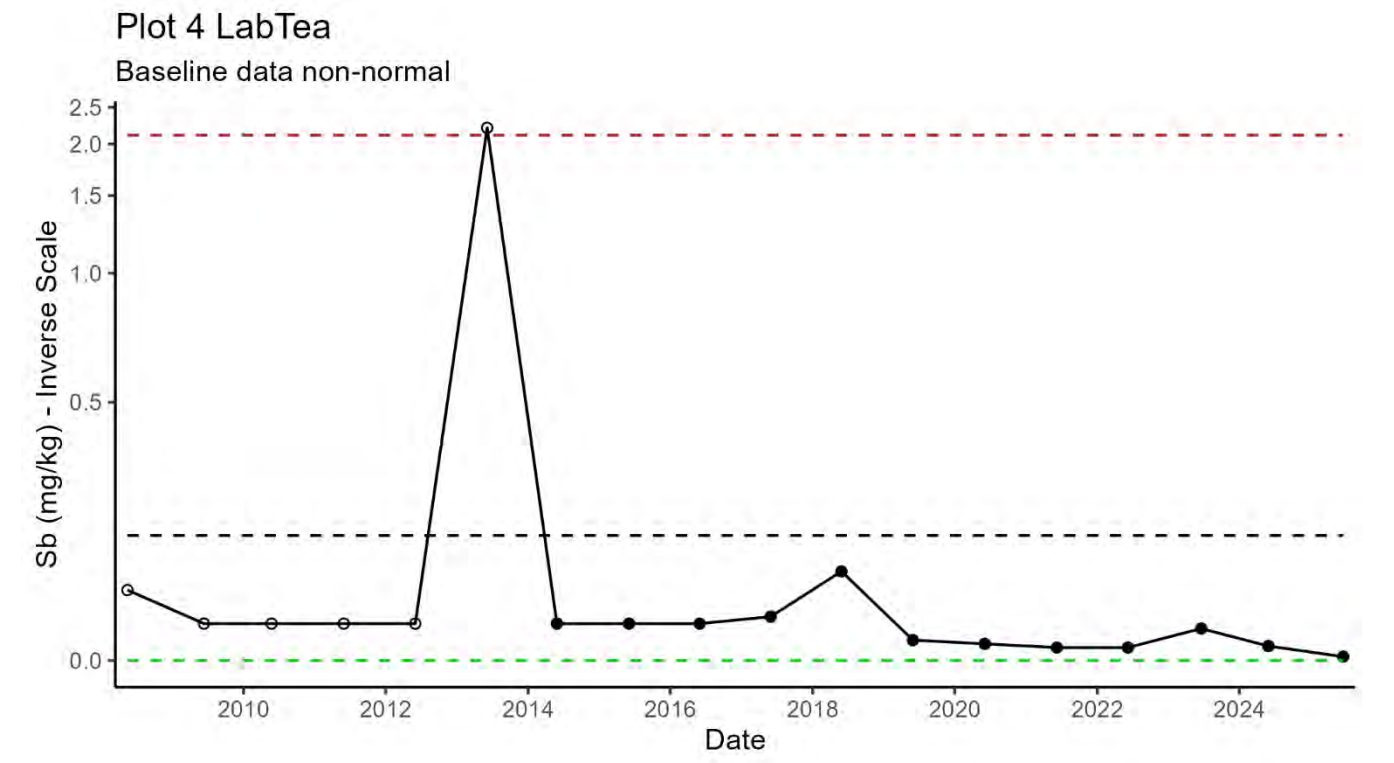
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Figure **E.34**

APPENDIX F
Control Charts





- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

MONTROSE ENVIRONMENTAL

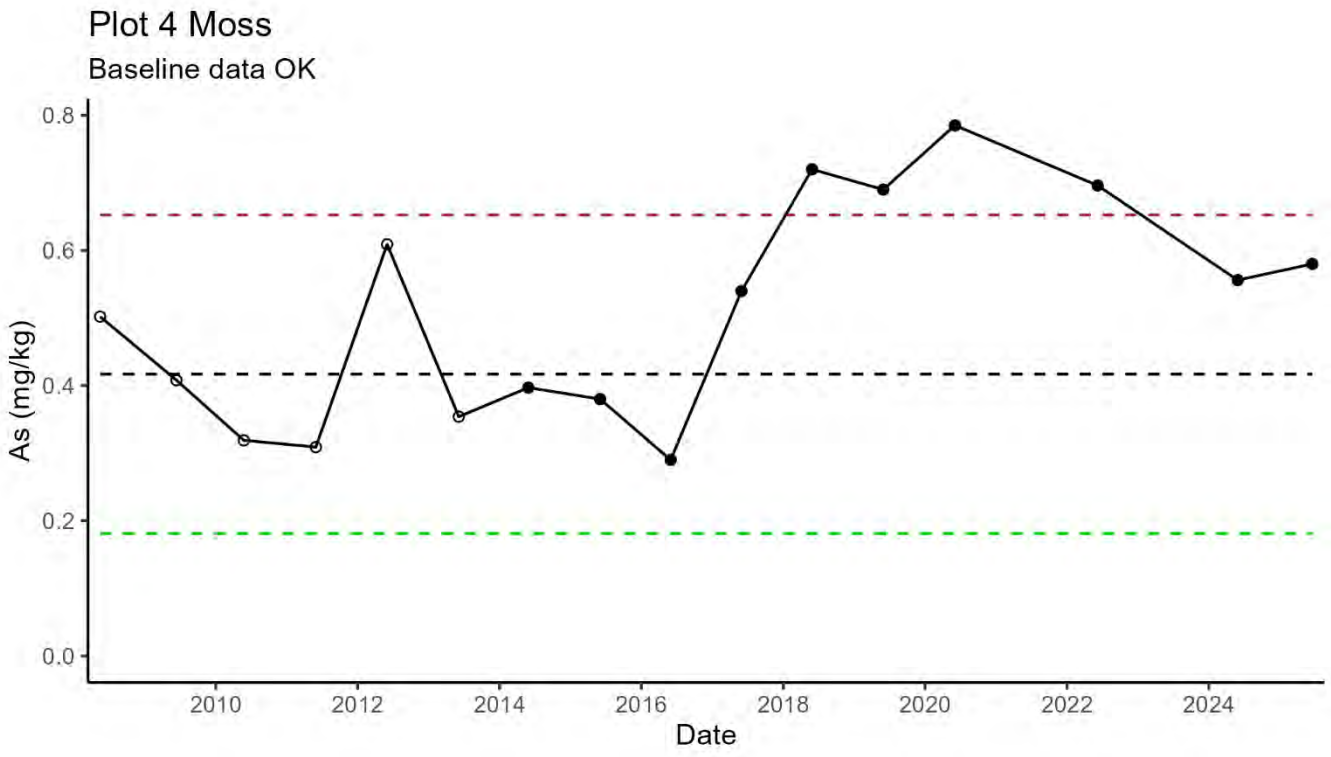
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Soil and Vegetation Monitoring Program

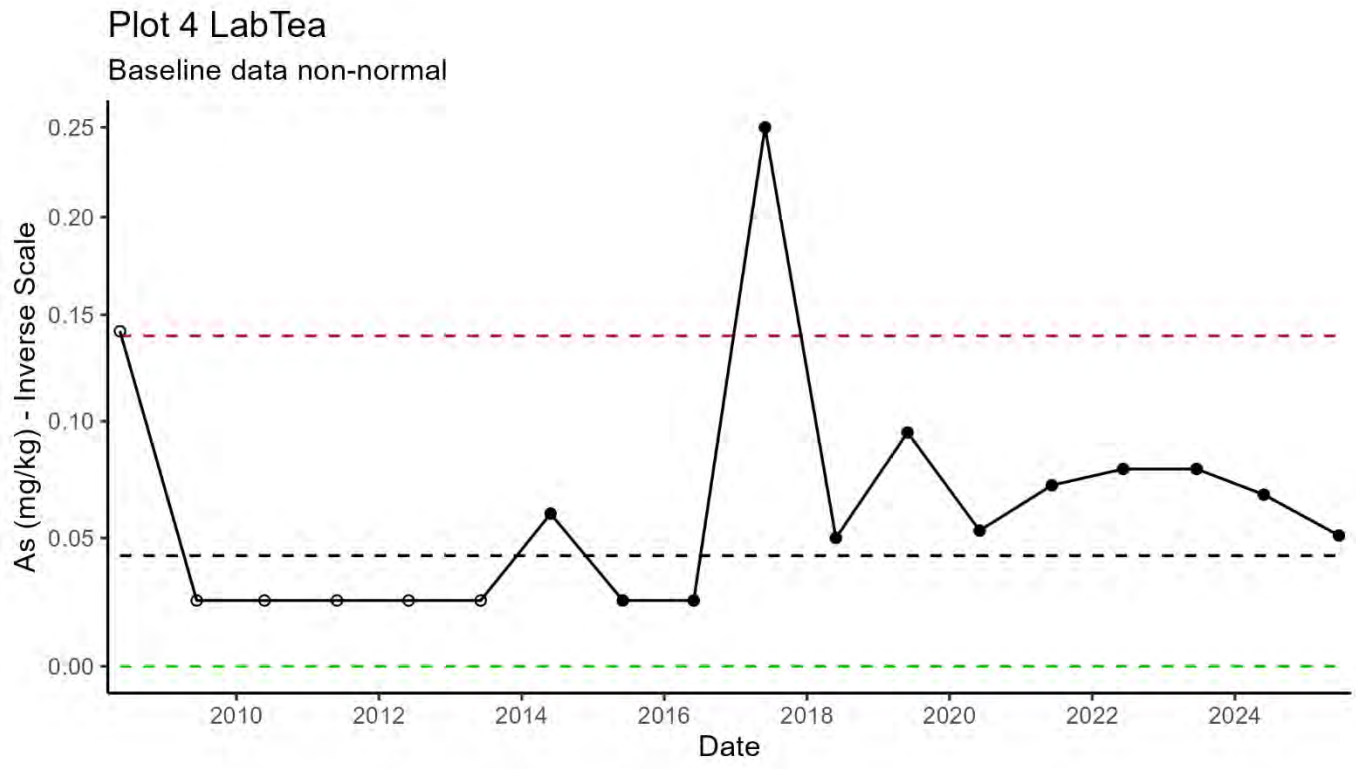
Antimony

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Figure **F.1**





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Arsenic

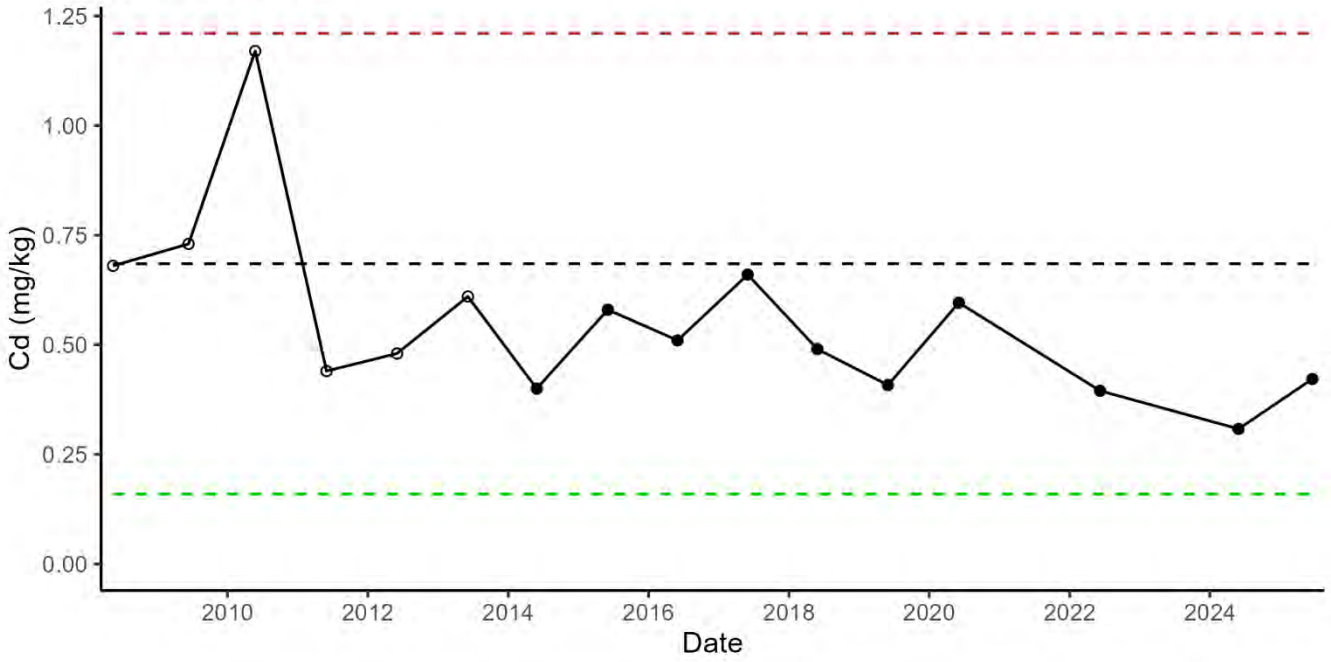
Date:	Project:	Technical:	Reviewer:	Drawn:
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Figure F.2

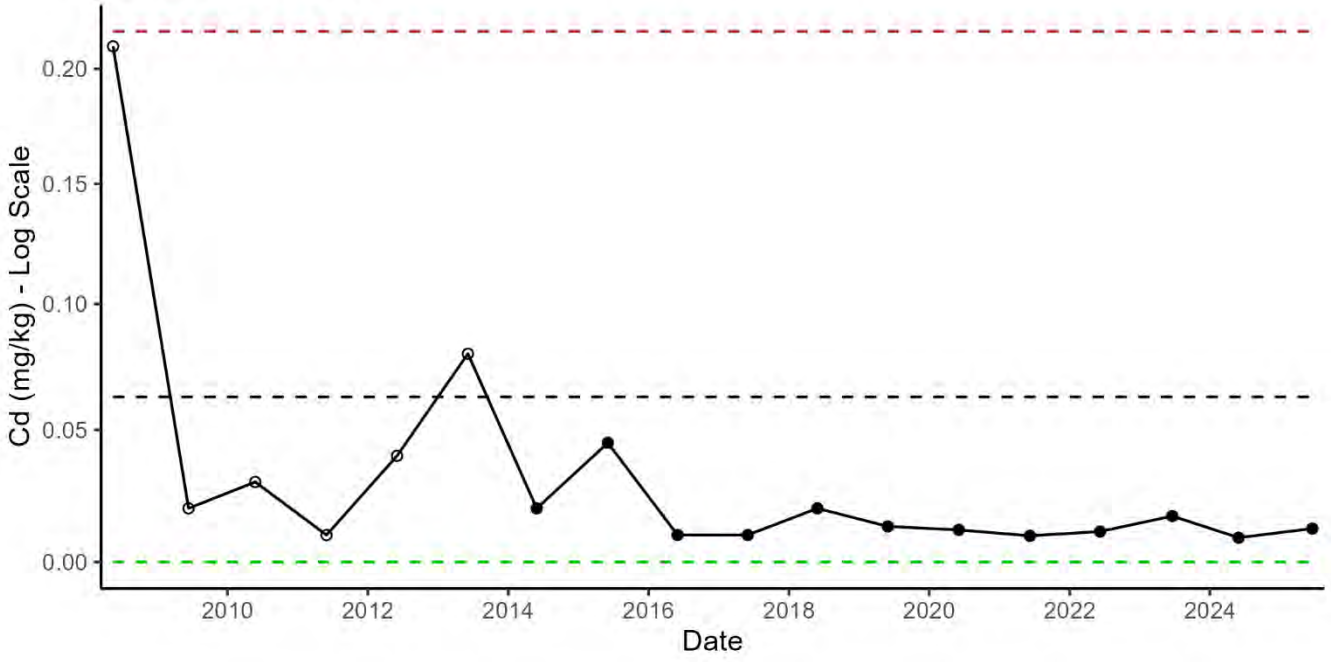
Plot 4 Moss

Baseline data OK



Plot 4 LabTea

Baseline data non-normal



- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre
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Cadmium

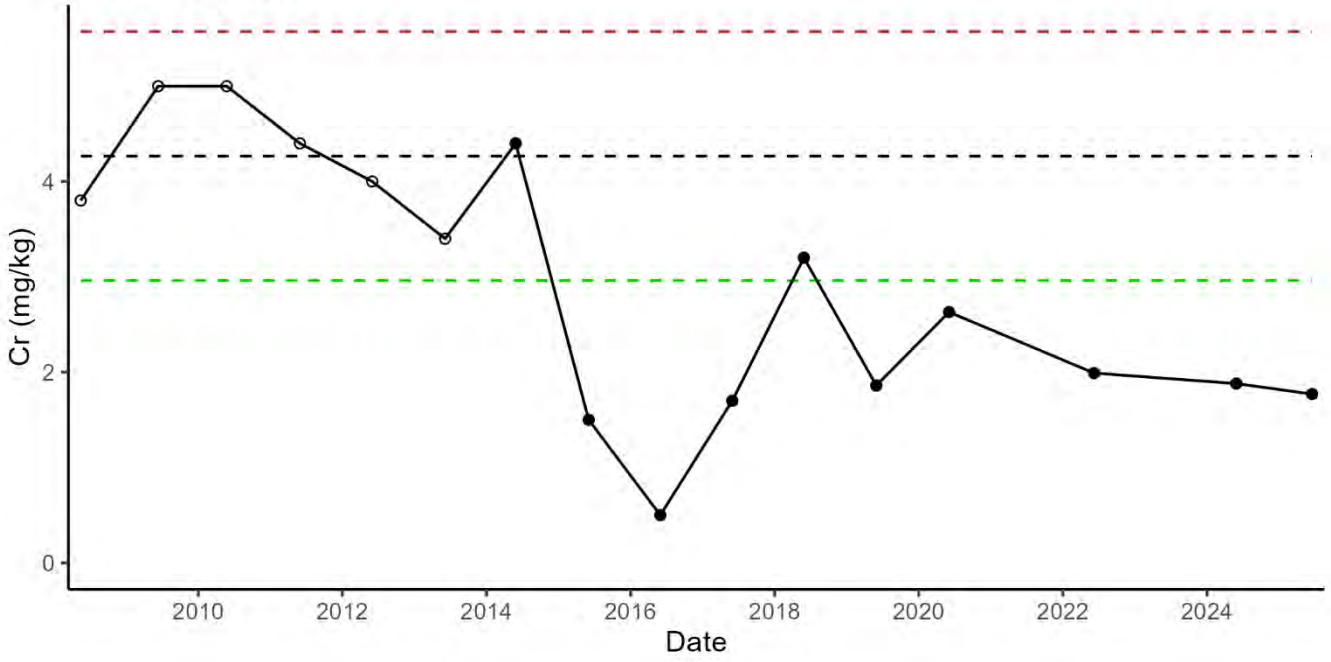
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Figure **F.3**

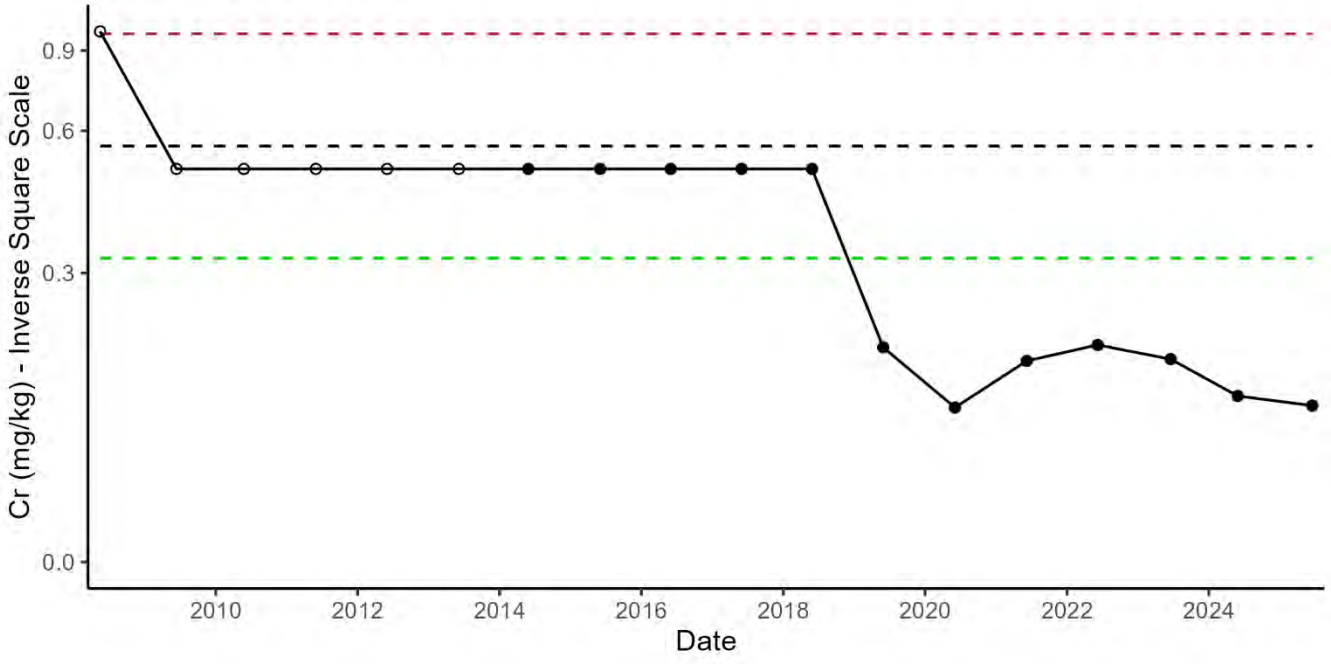
Plot 4 Moss

Baseline data OK



Plot 4 LabTea

Baseline data non-normal



- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre

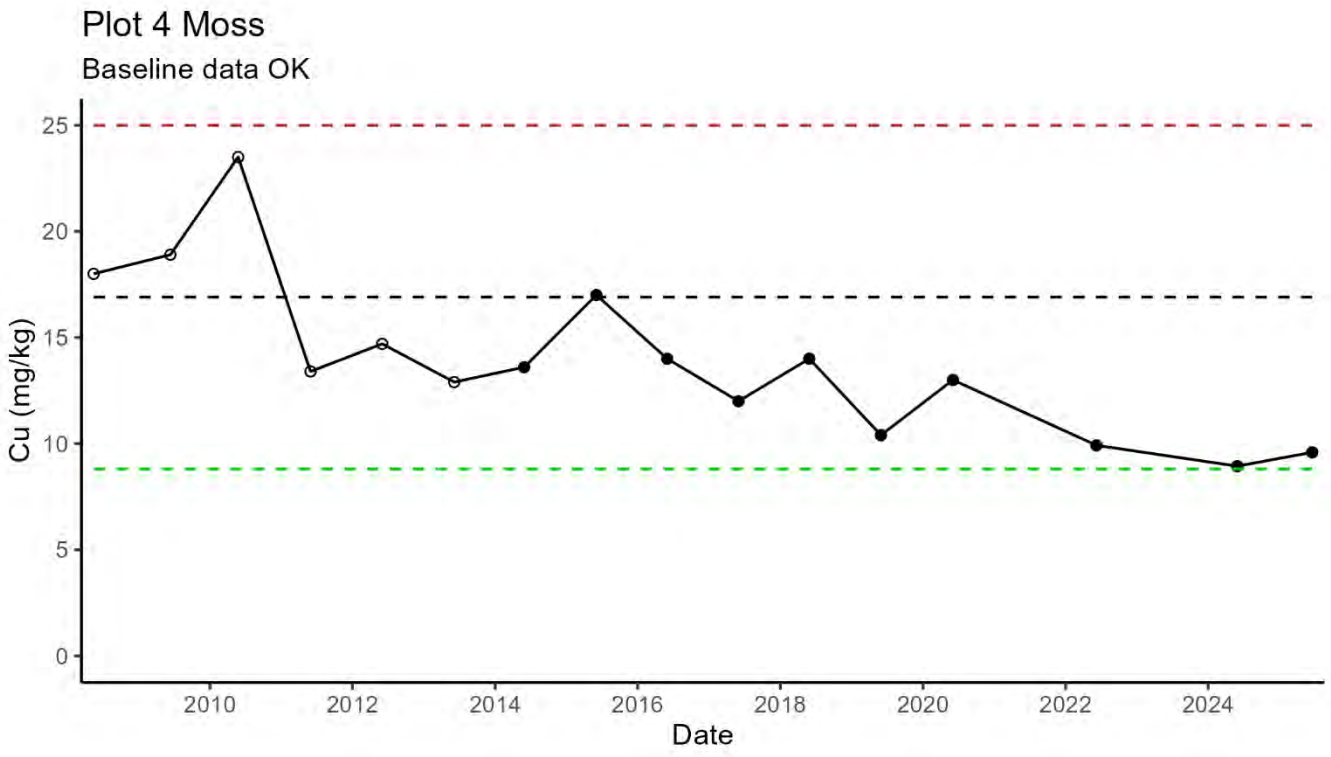
Soil and Vegetation Monitoring Program

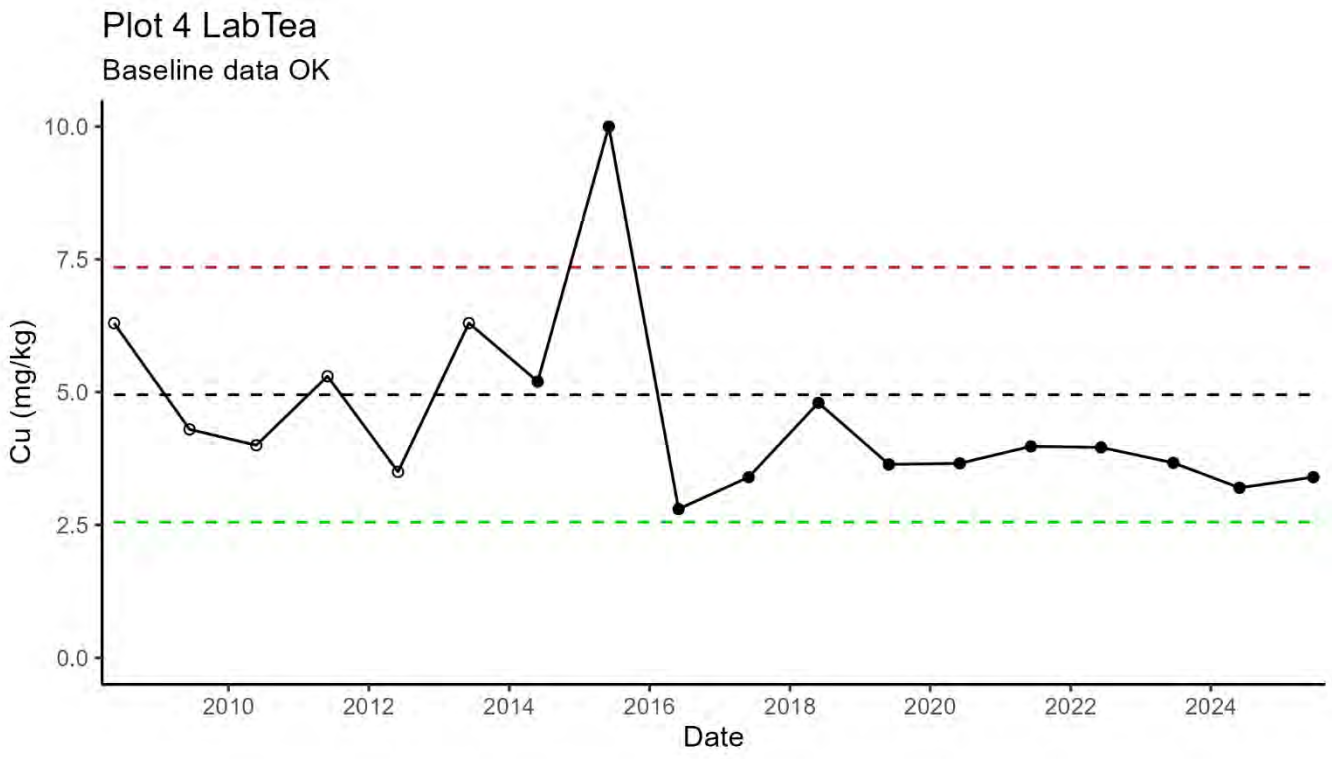
Chromium

Date:	Project:	Technical:	Reviewer:	Drawn:
March 4, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure F.4





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

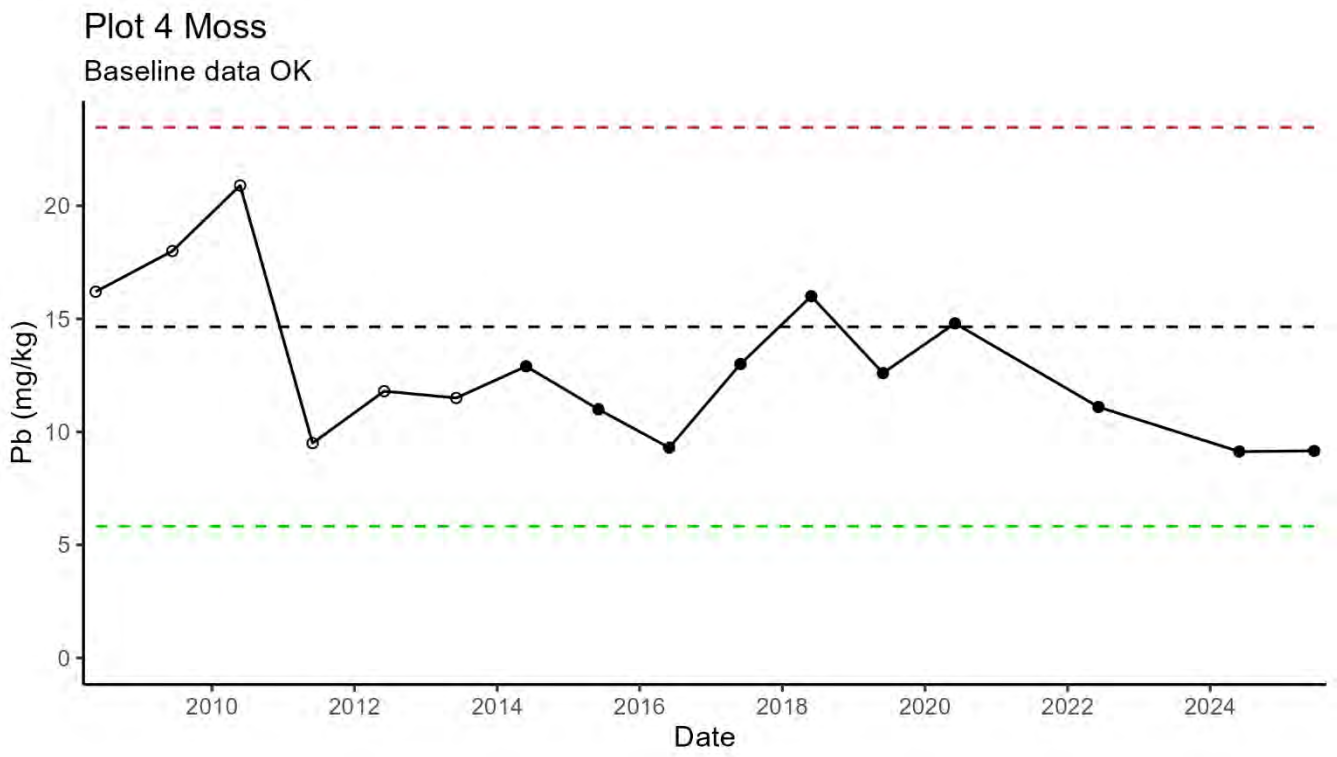
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

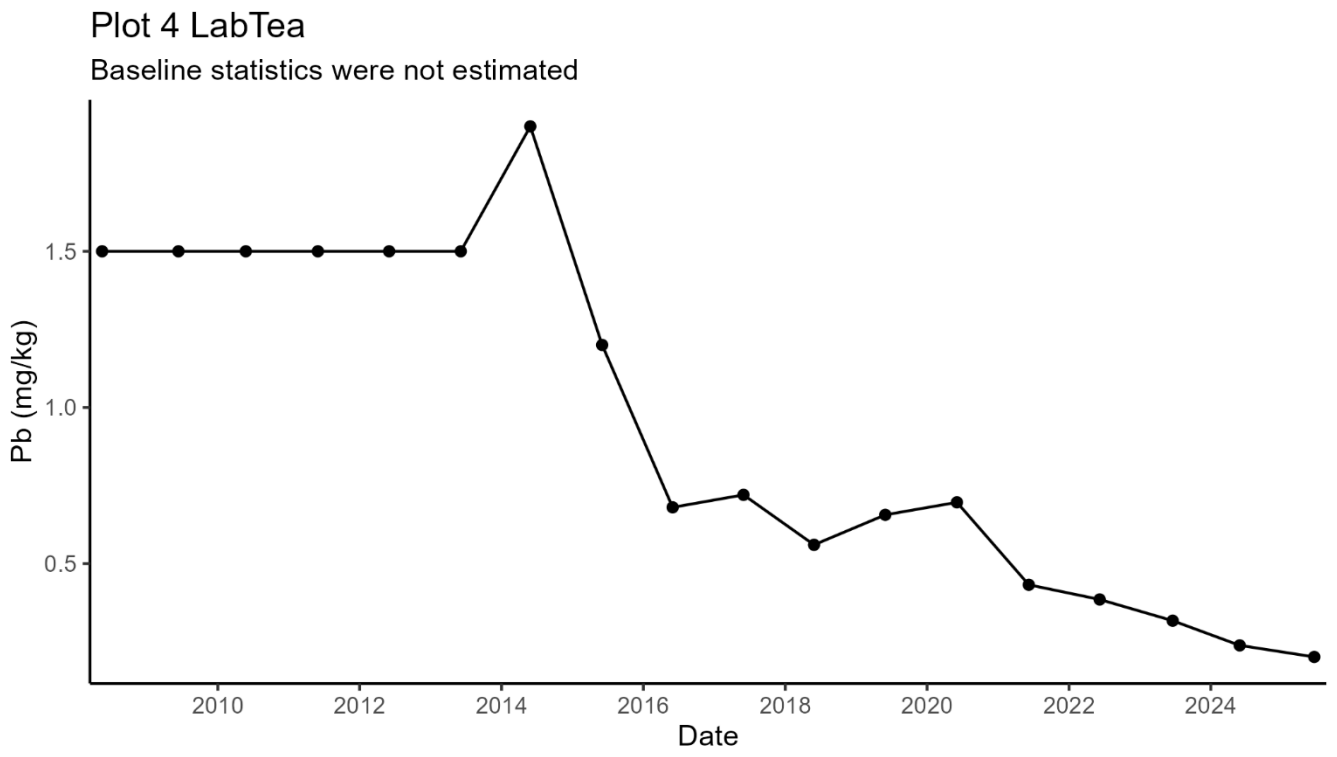
Copper

Date:	Project:	Technical:	Reviewer:	Drawn:
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Figure **F.5**





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

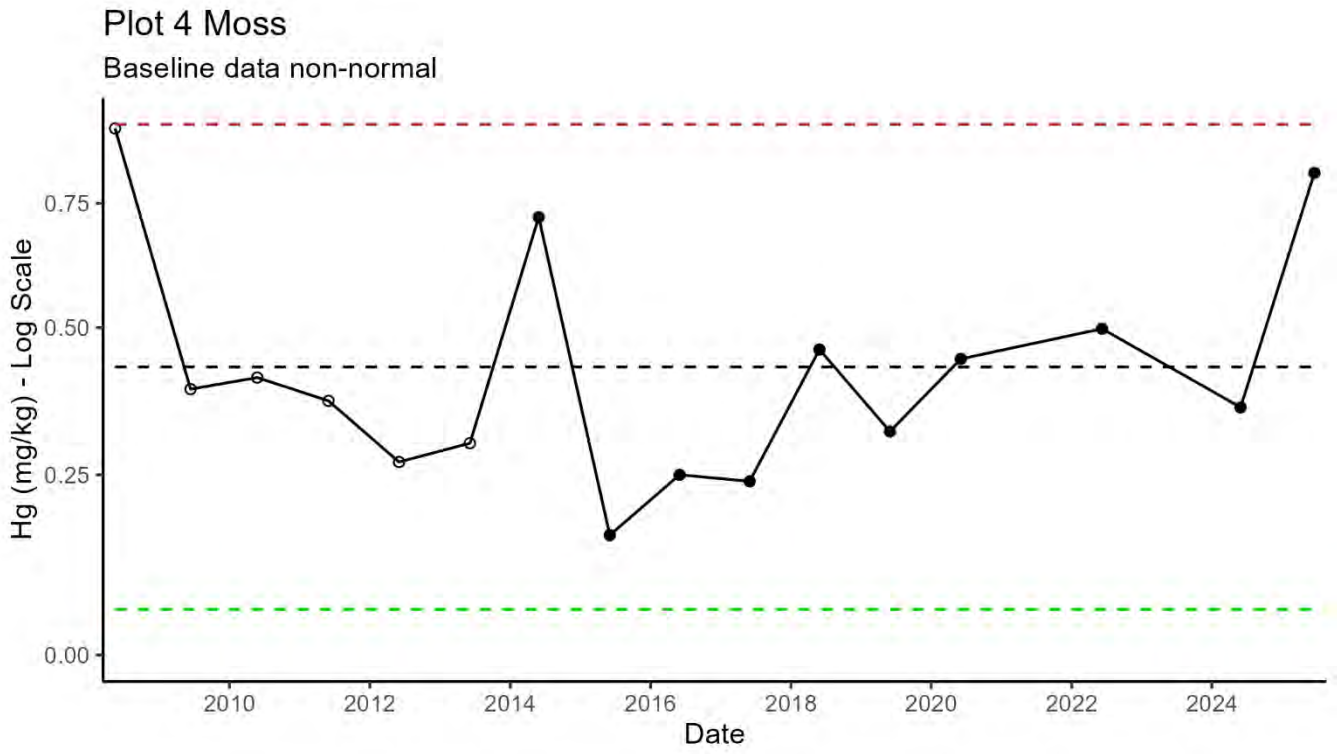
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

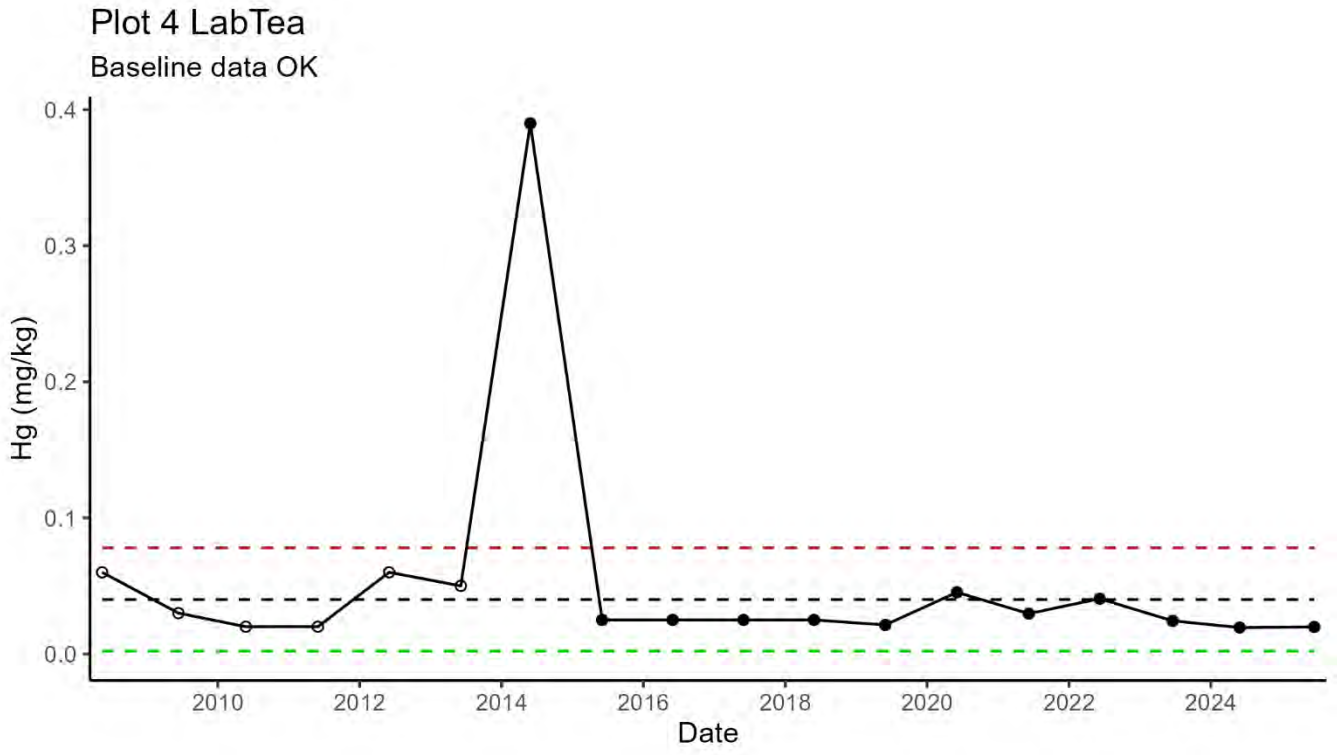
Lead

Date:	Project:	Technical:	Reviewer:	Drawn:
March 4, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure **F.6**





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

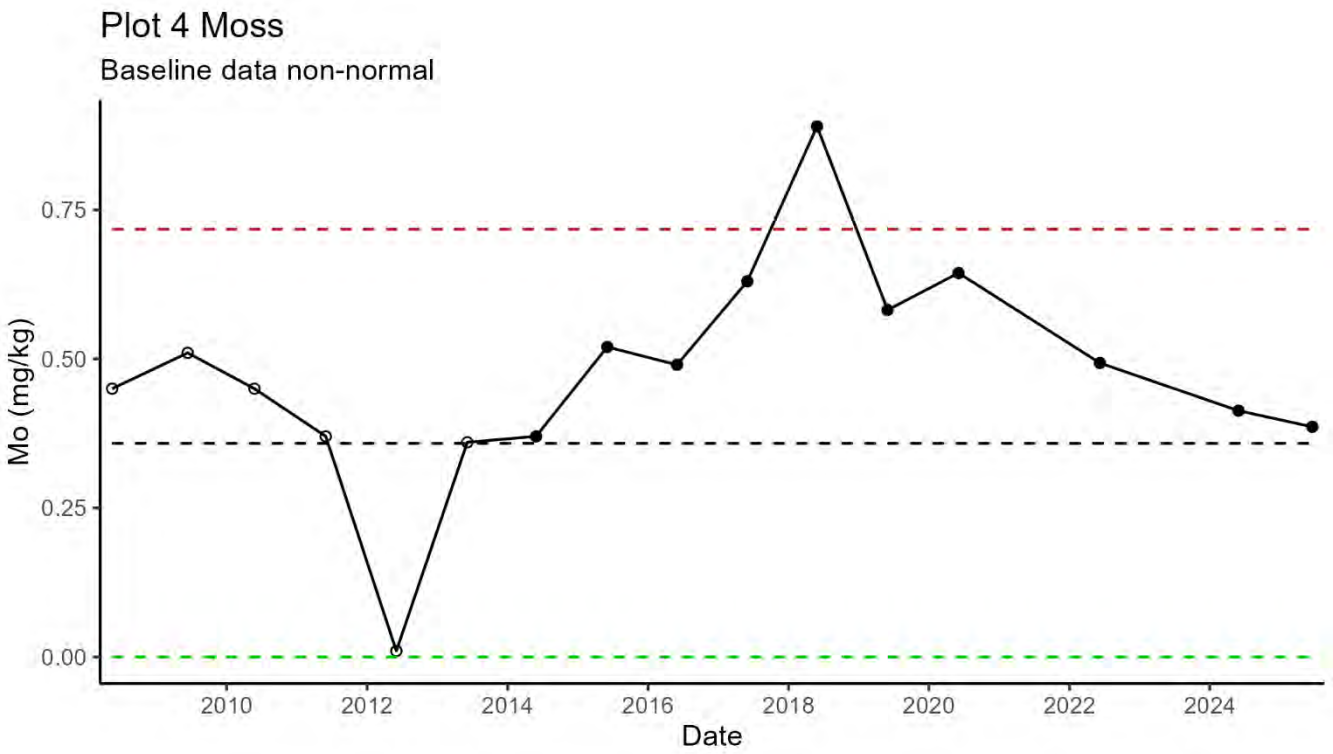
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

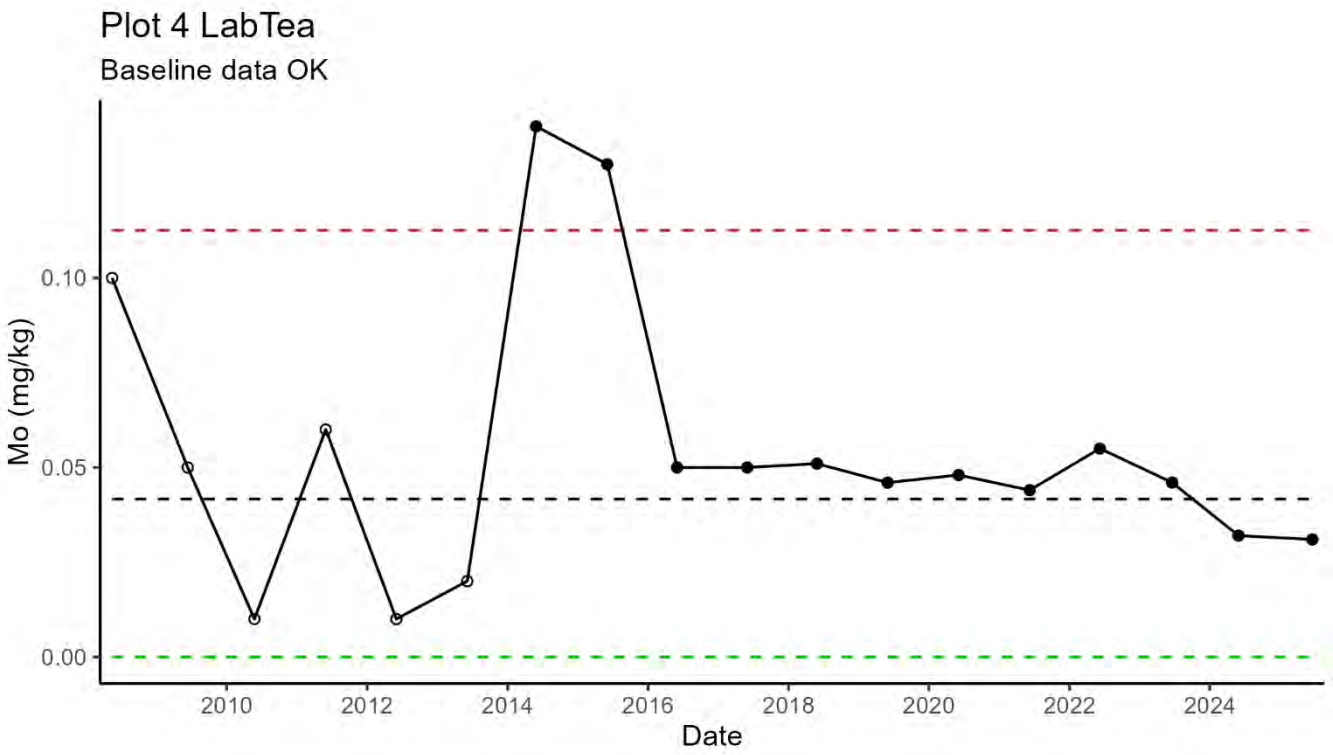
Mercury

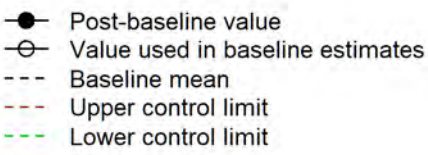
Date:	Project:	Technical:	Reviewer:	Drawn:
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Figure **F.7**







MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Molybdenum

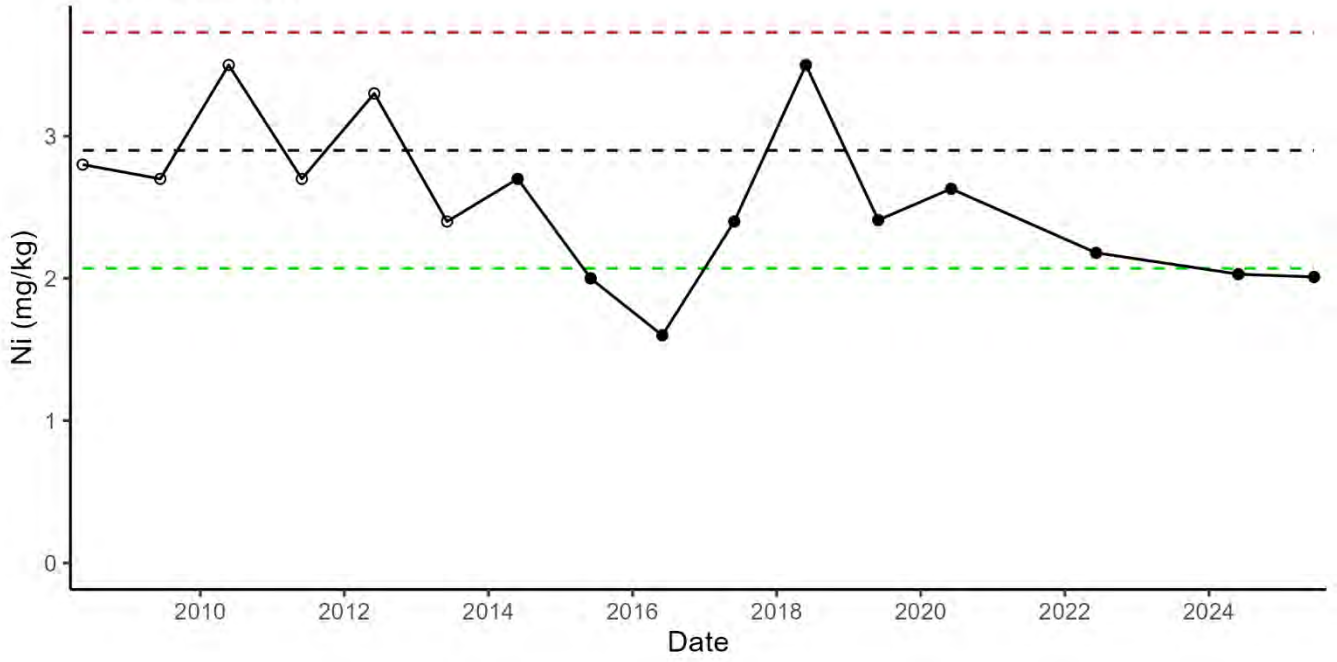
Date:	Project:	Technical:	Reviewer:	Drawn:
March 4, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure **F.8**

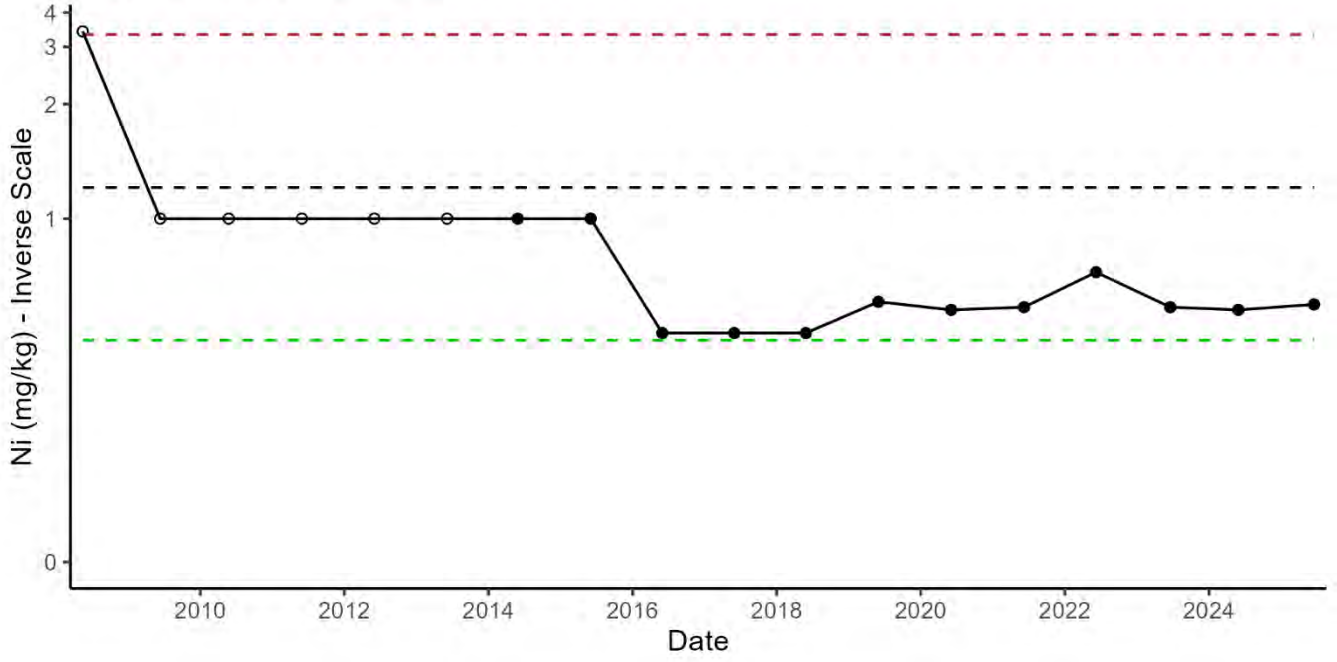
Plot 4 Moss

Baseline data OK



Plot 4 LabTea

Baseline data non-normal



- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre

Soil and Vegetation Monitoring Program

Nickel

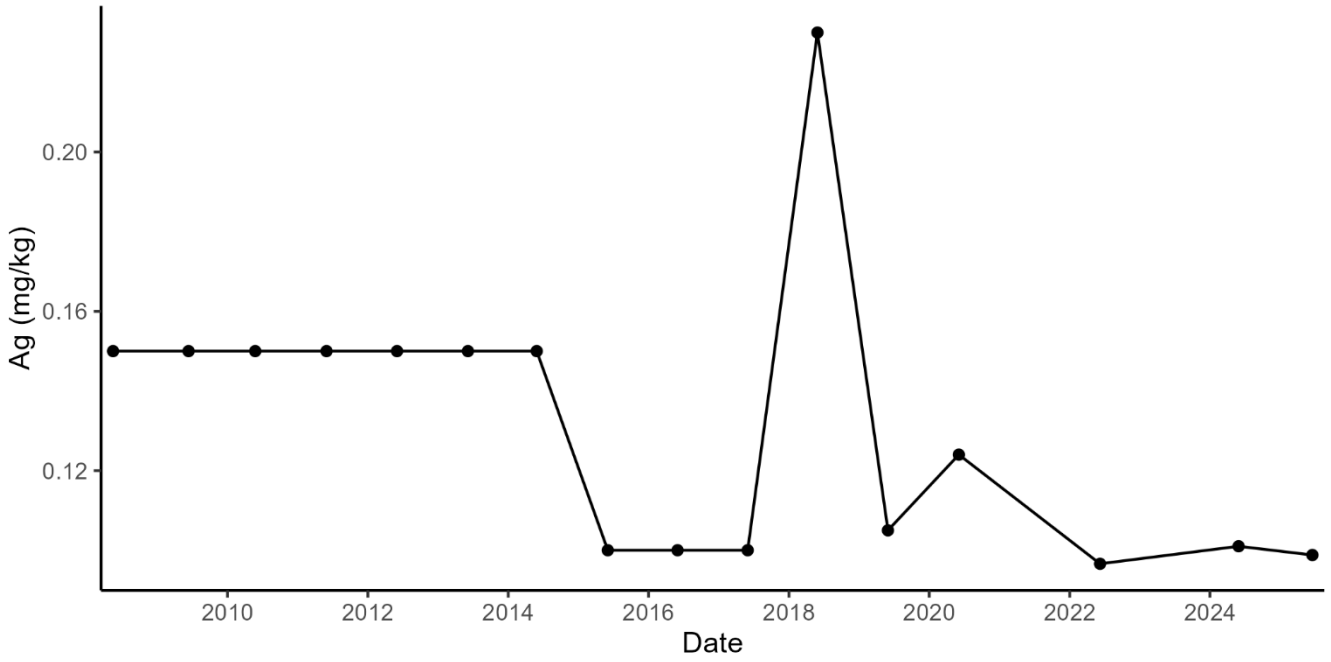
Date:	Project:	Technical:	Reviewer:	Drawn:
March 4, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure F.9

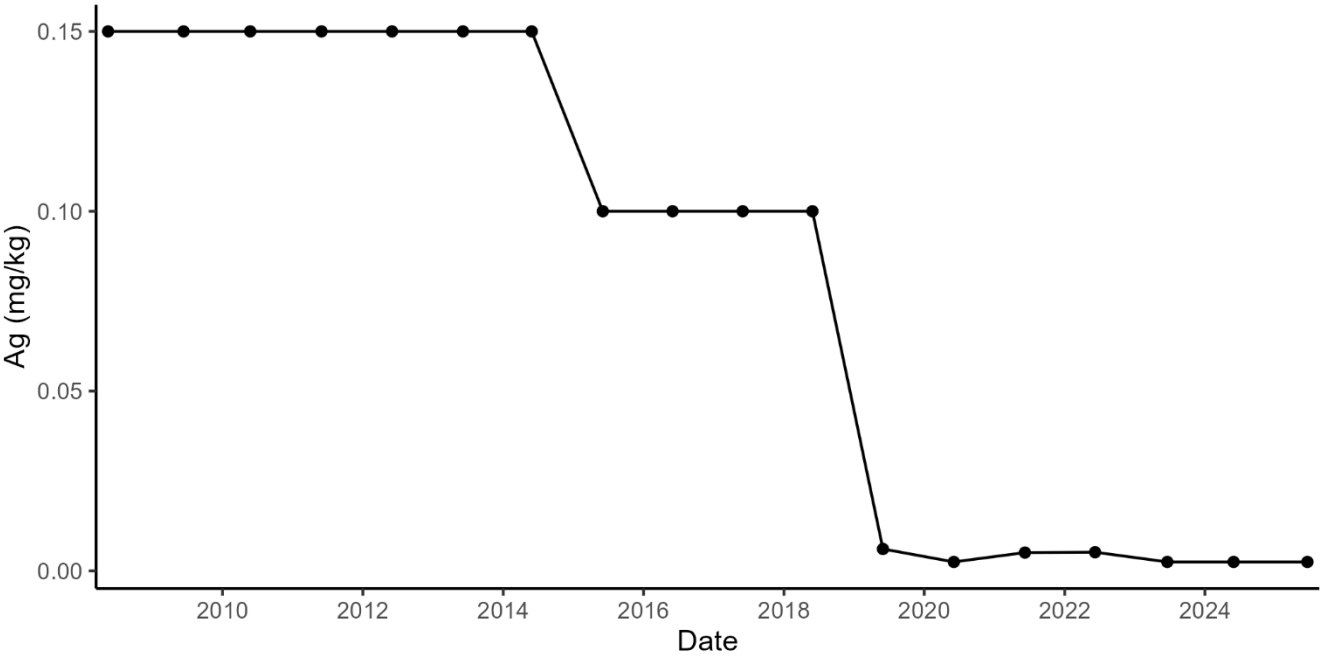
Plot 4 Moss

Baseline statistics were not estimated



Plot 4 LabTea

Baseline statistics were not estimated



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

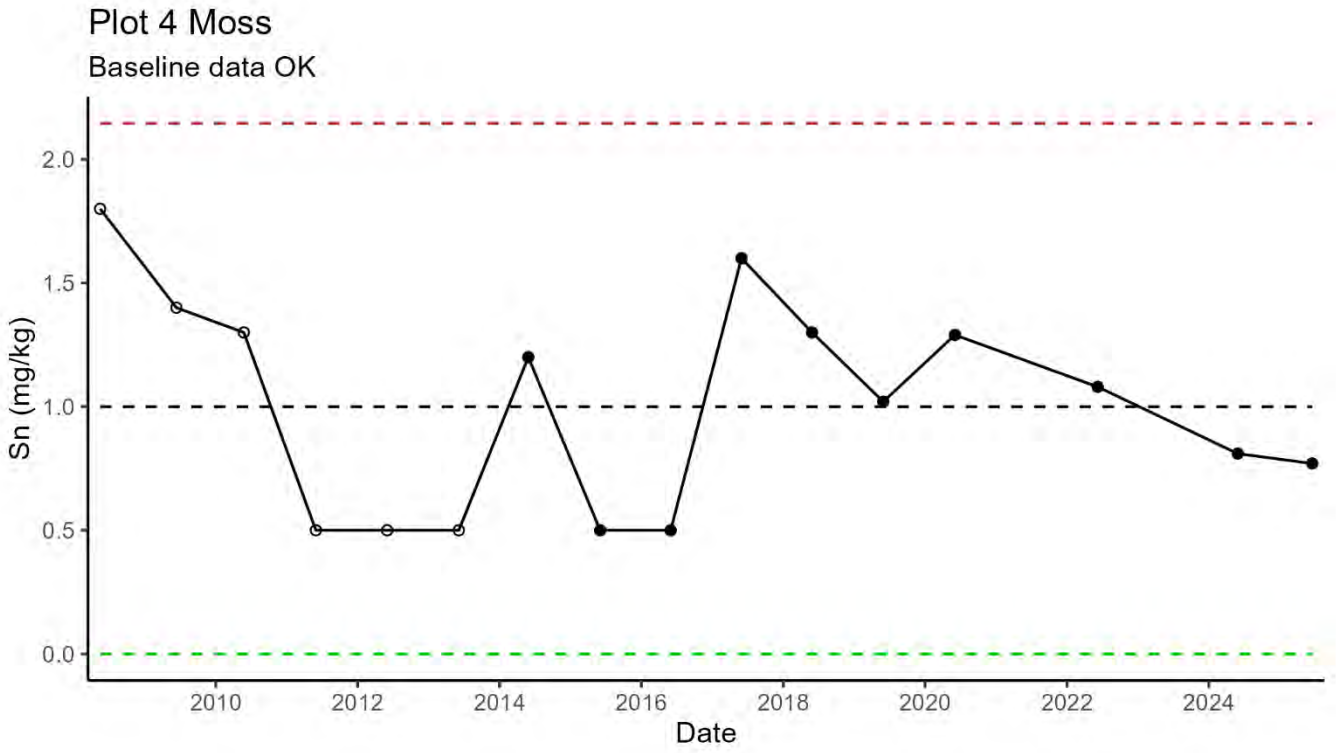
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

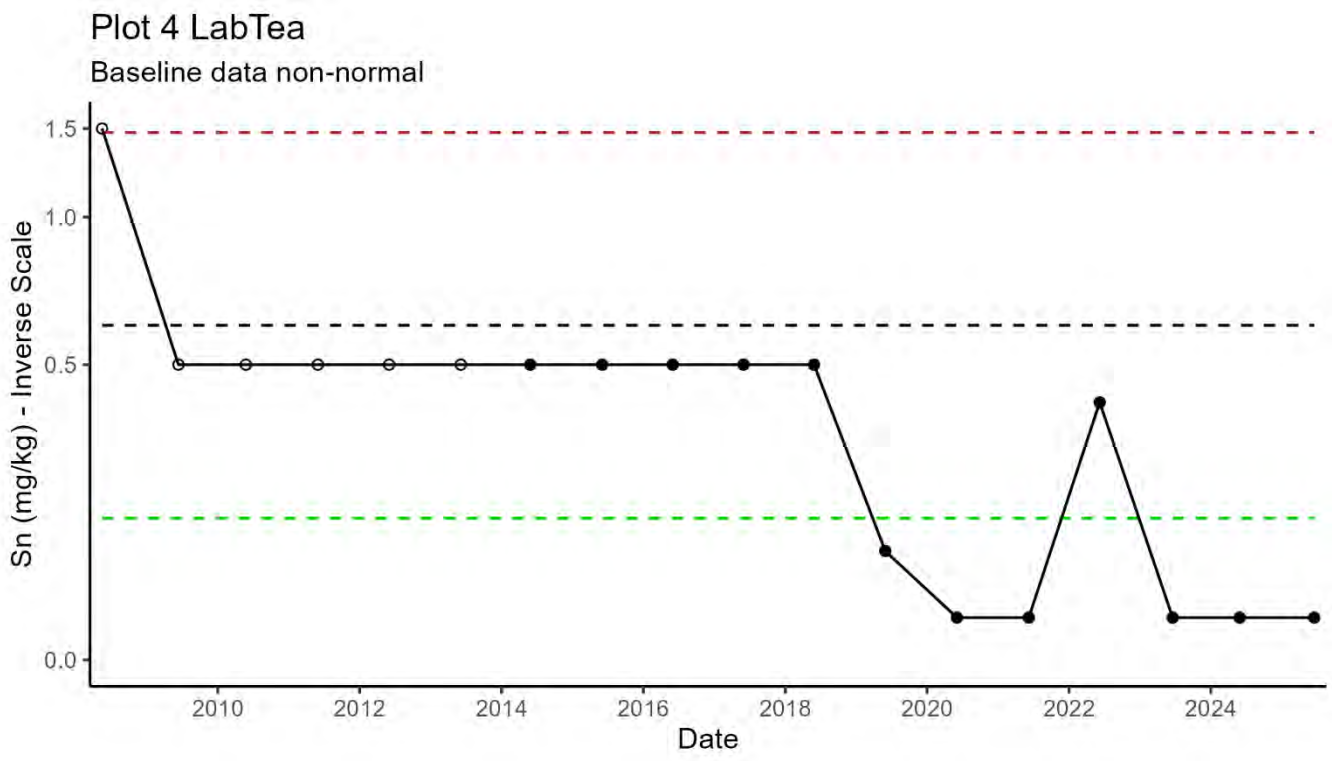
Silver

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Figure **F.10**





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

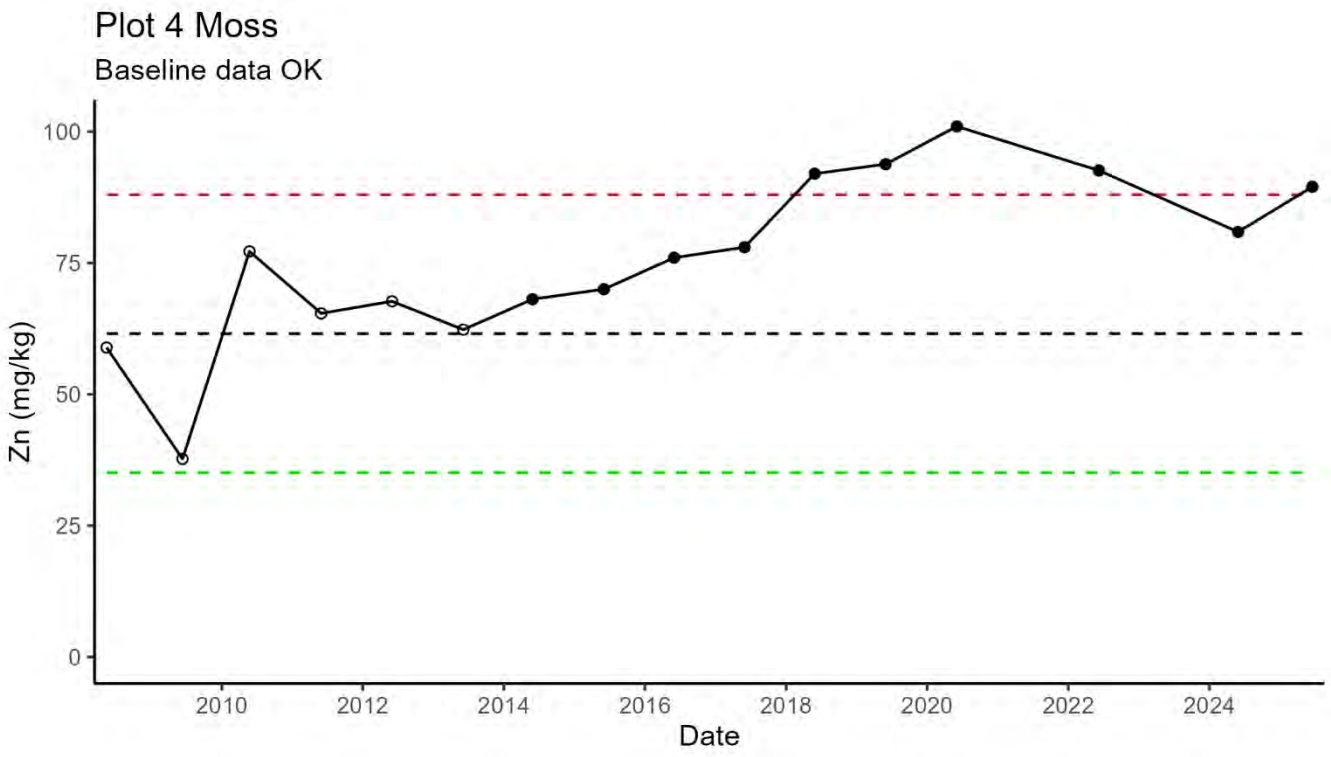
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

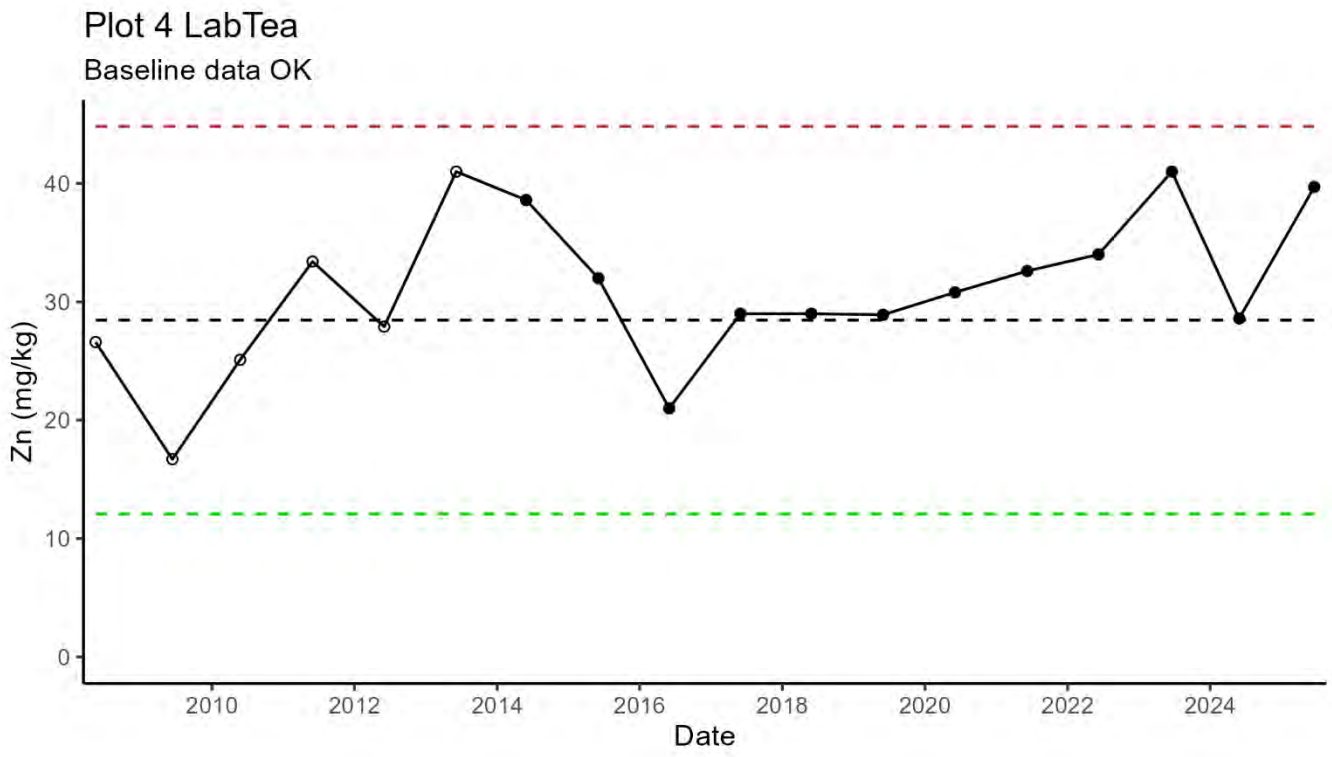
Tin

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Figure F.11





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

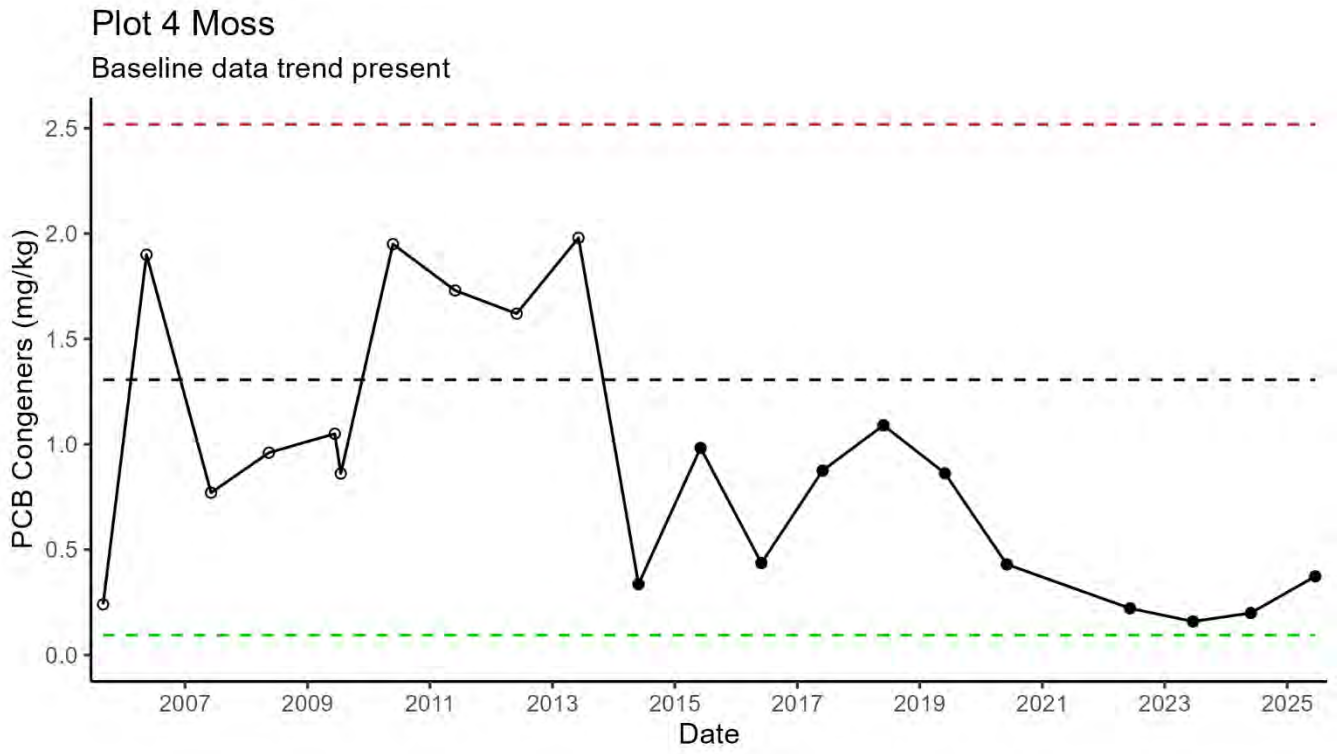
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

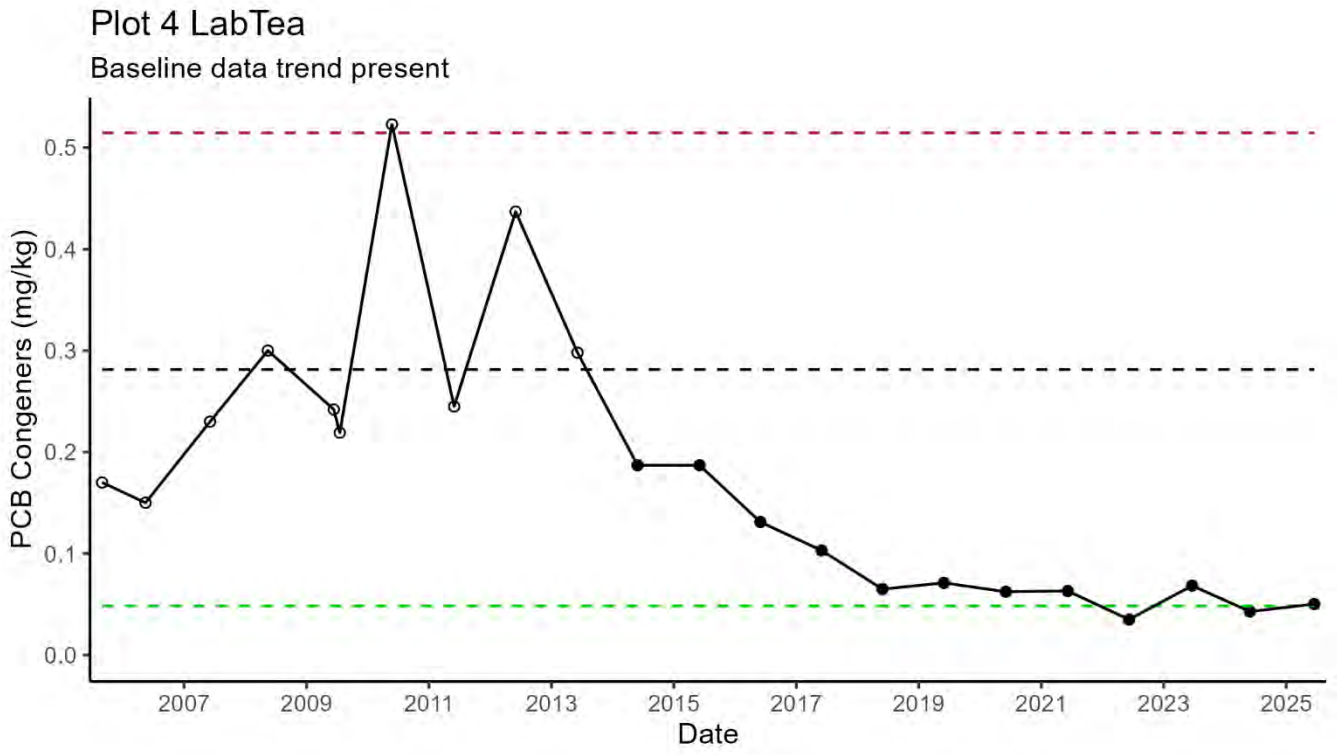
Zinc

Date:	Project:	Technical:	Reviewer:	Drawn:
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Figure **F.12**





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

PCB Congeners

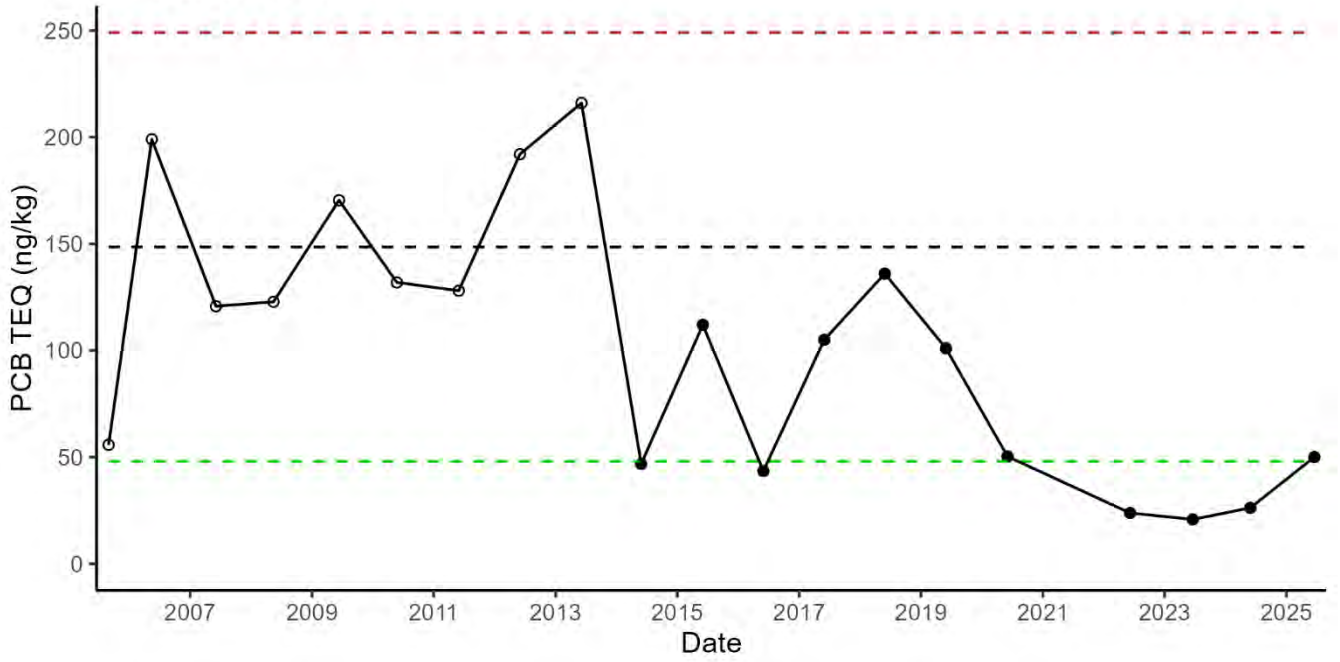
Date:	Project:	Technical:	Reviewer:	Drawn:
March 4, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure **F.13**

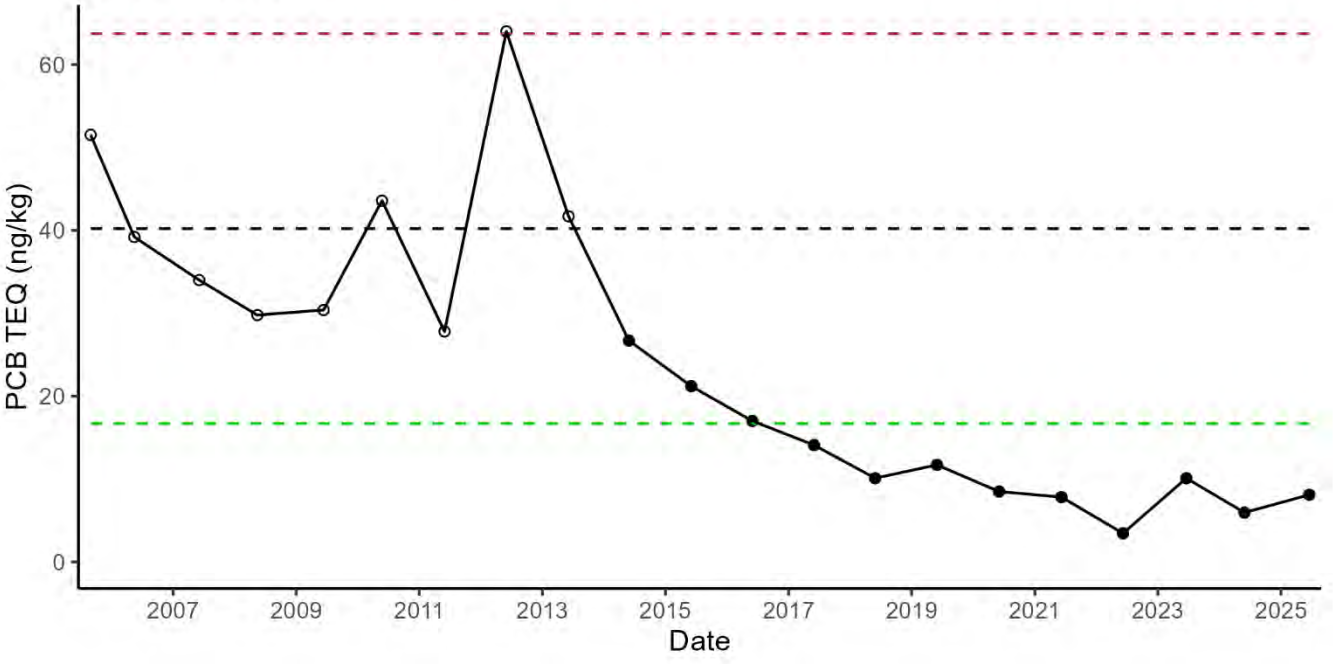
Plot 4 Moss

Baseline data OK



Plot 4 LabTea

Baseline data OK



- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre

Soil and Vegetation Monitoring Program

PCB TEQ

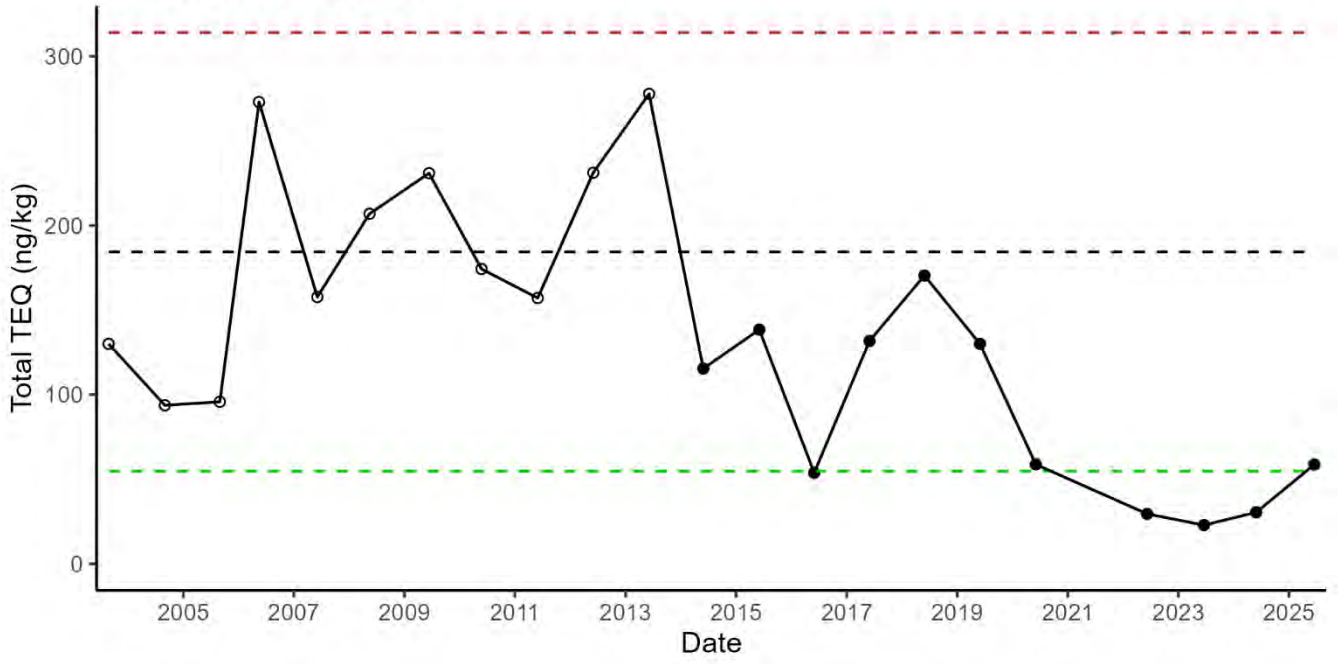
Date:	Project:	Technical:	Reviewer:	Drawn:
March 4, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure F.14

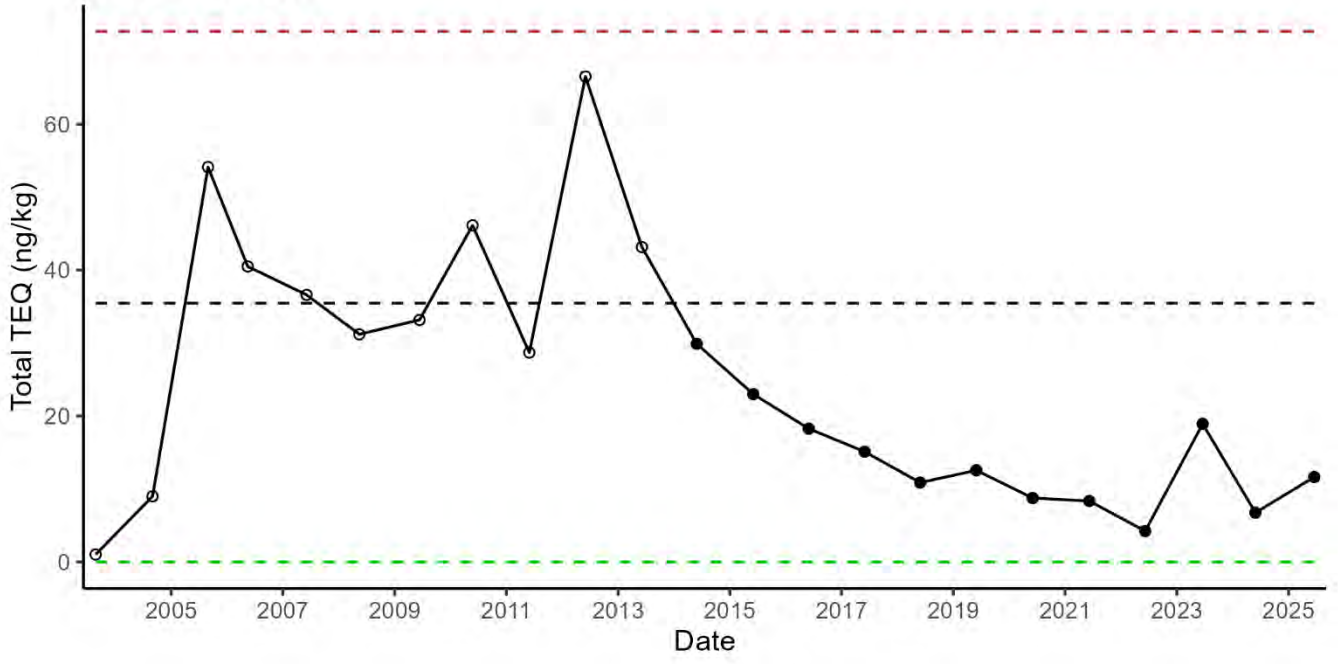
Plot 4 Moss

Baseline data trend present



Plot 4 LabTea

Baseline data OK



- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre

Soil and Vegetation Monitoring Program

Total TEQ

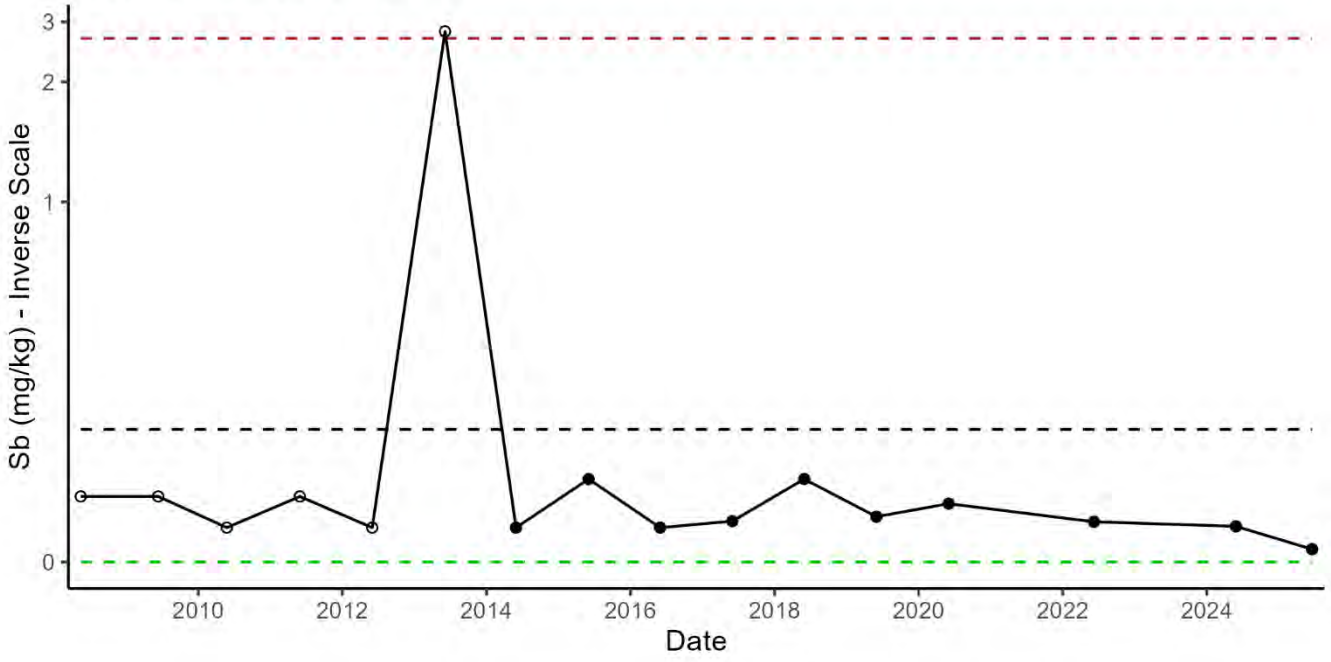
Date:	Project:	Technical:	Reviewer:	Drawn:
March 4, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure F.15

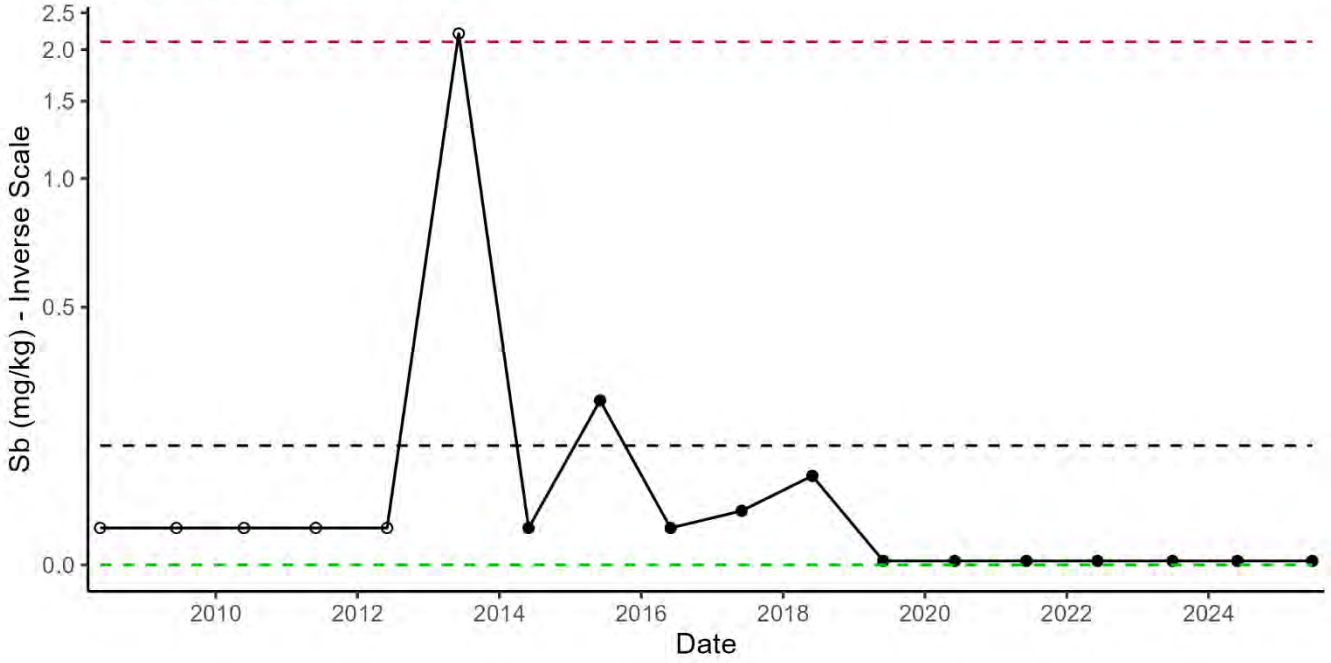
Plot 11 Moss

Baseline data non-normal



Plot 11 LabTea

Baseline data non-normal



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

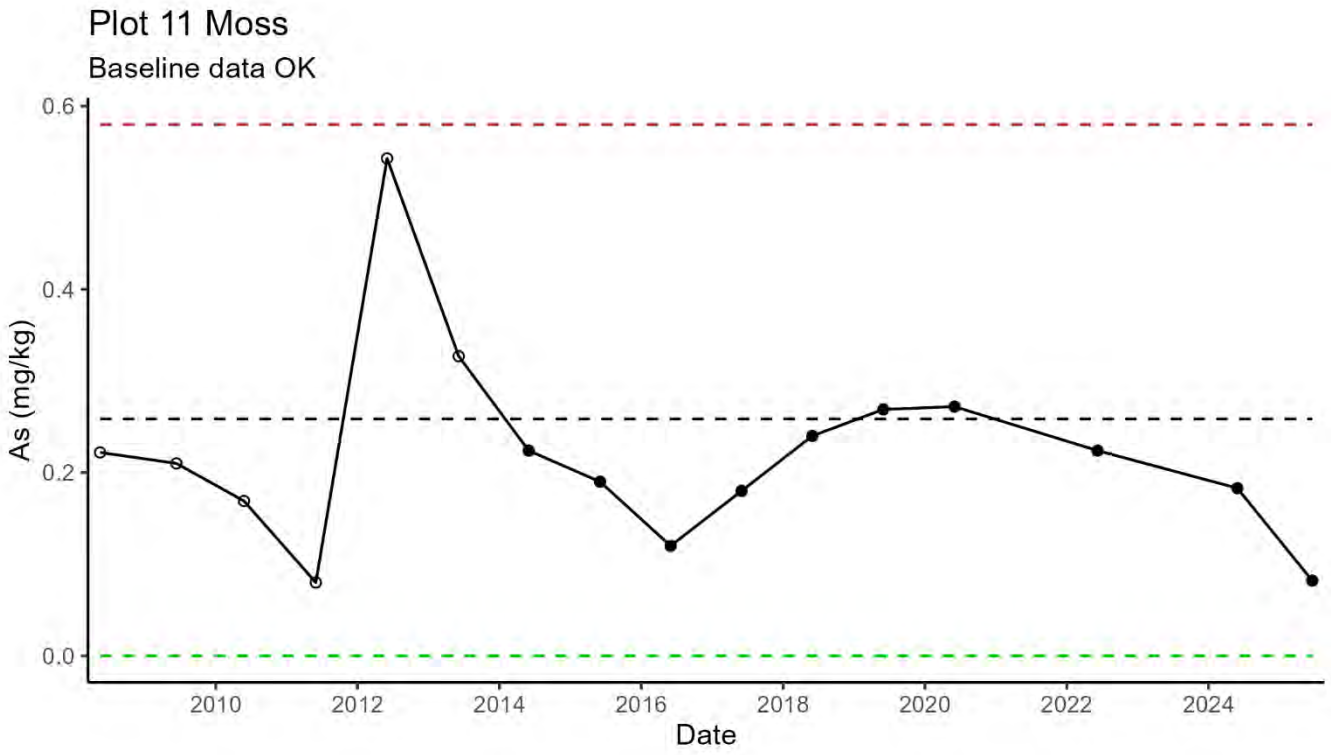
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

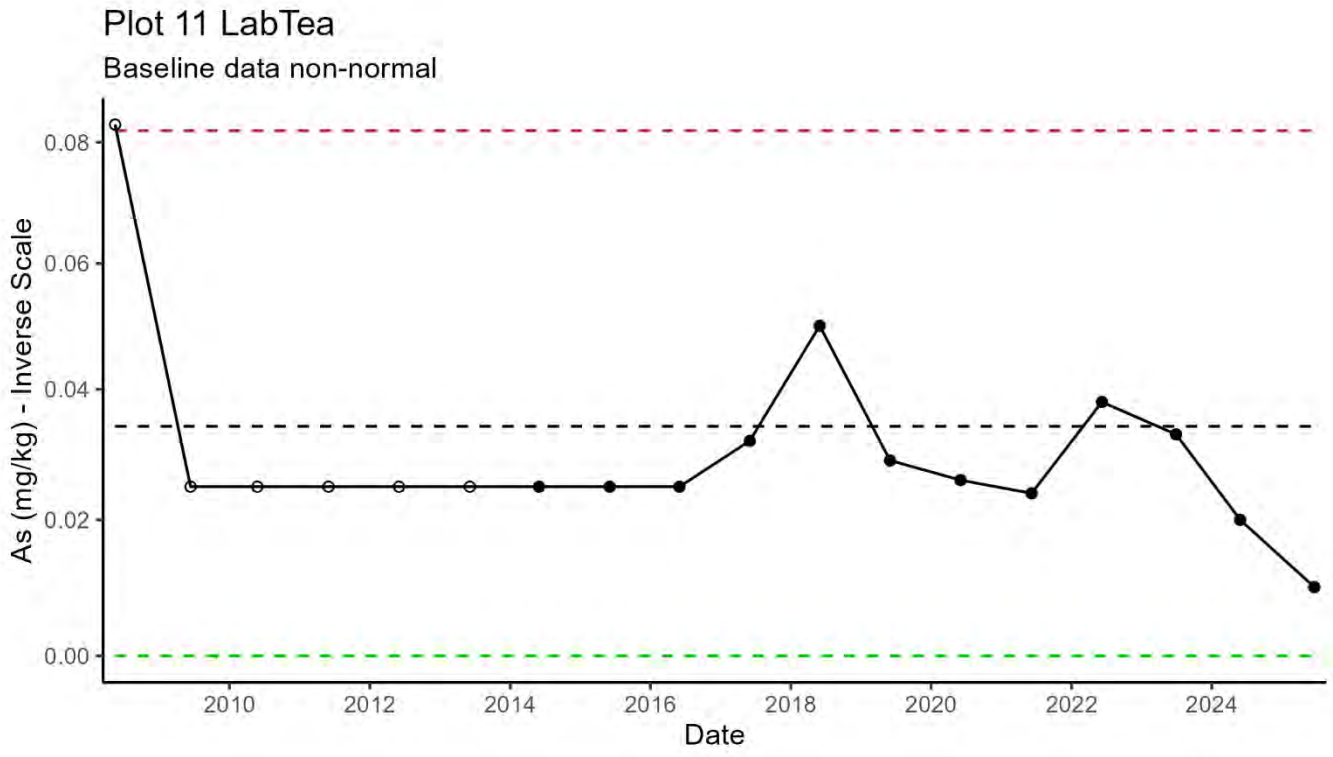
Antimony

Date:	Project:	Technical:	Reviewer:	Drawn:
March 4, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure **F.16**





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Arsenic

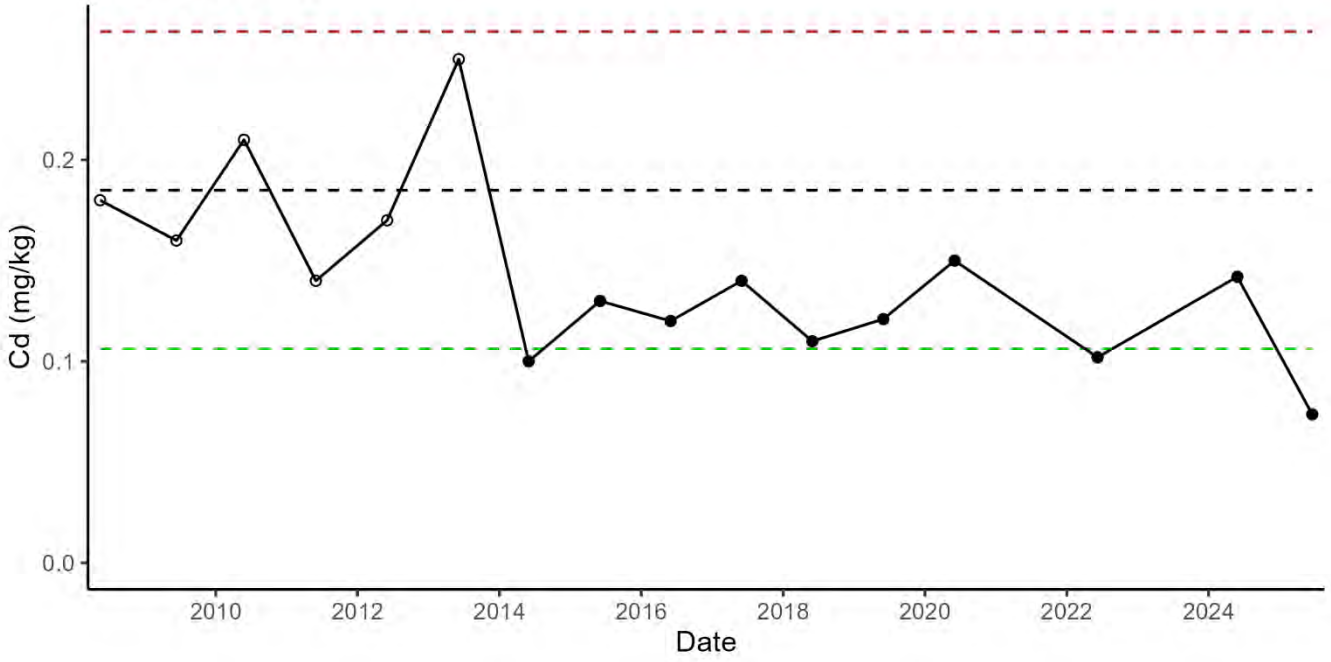
Date:	Project:	Technical:	Reviewer:	Drawn:
March 4, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure F.17

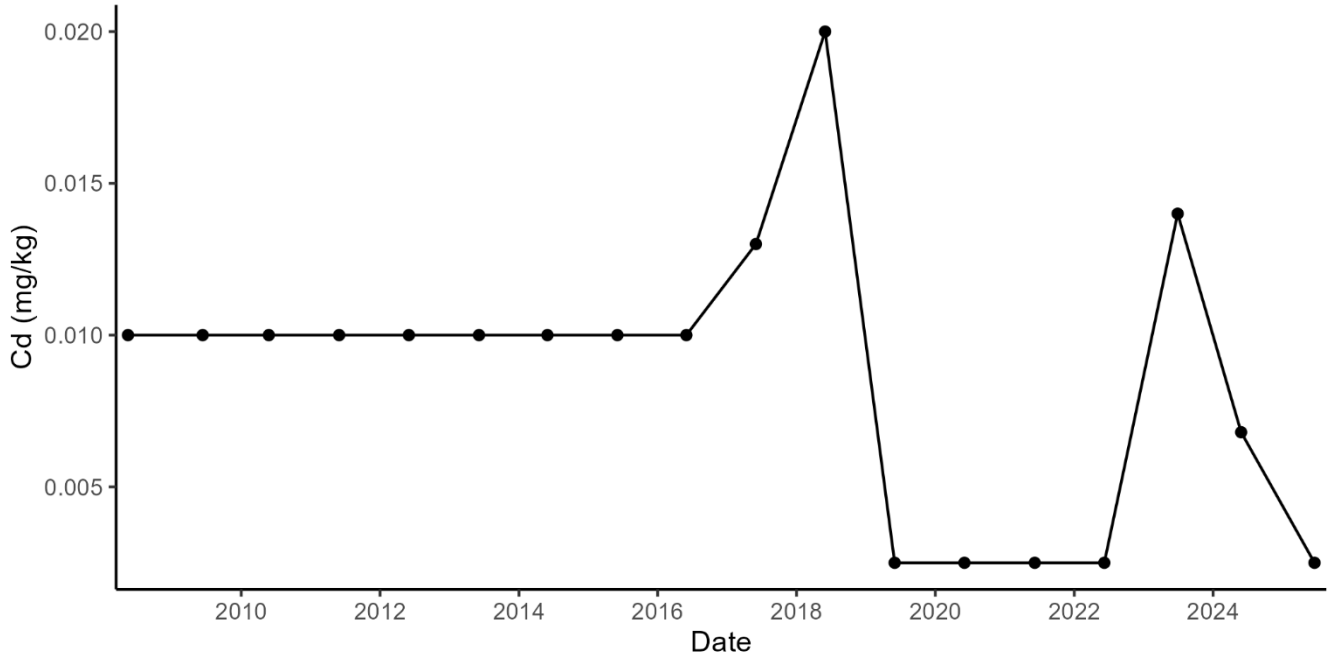
Plot 11 Moss

Baseline data OK



Plot 11 LabTea

Baseline statistics were not estimated



- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Cadmium

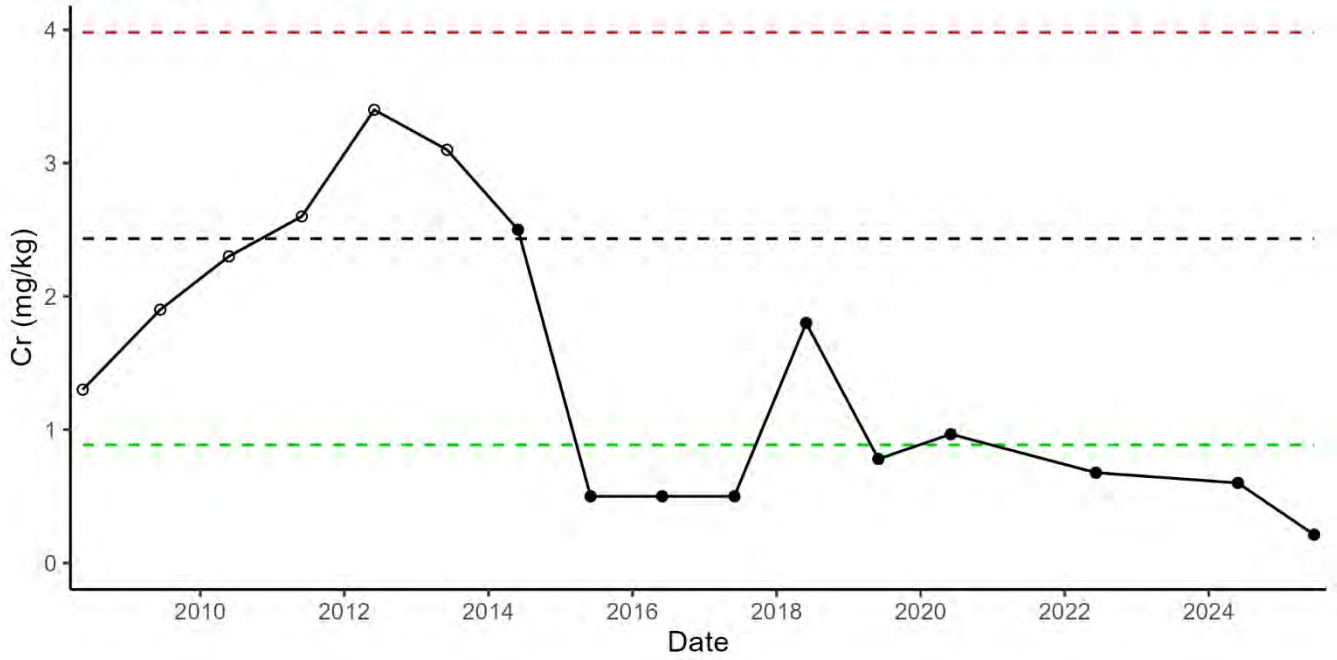
Date:	Project:	Technical:	Reviewer:	Drawn:
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Figure **F.18**

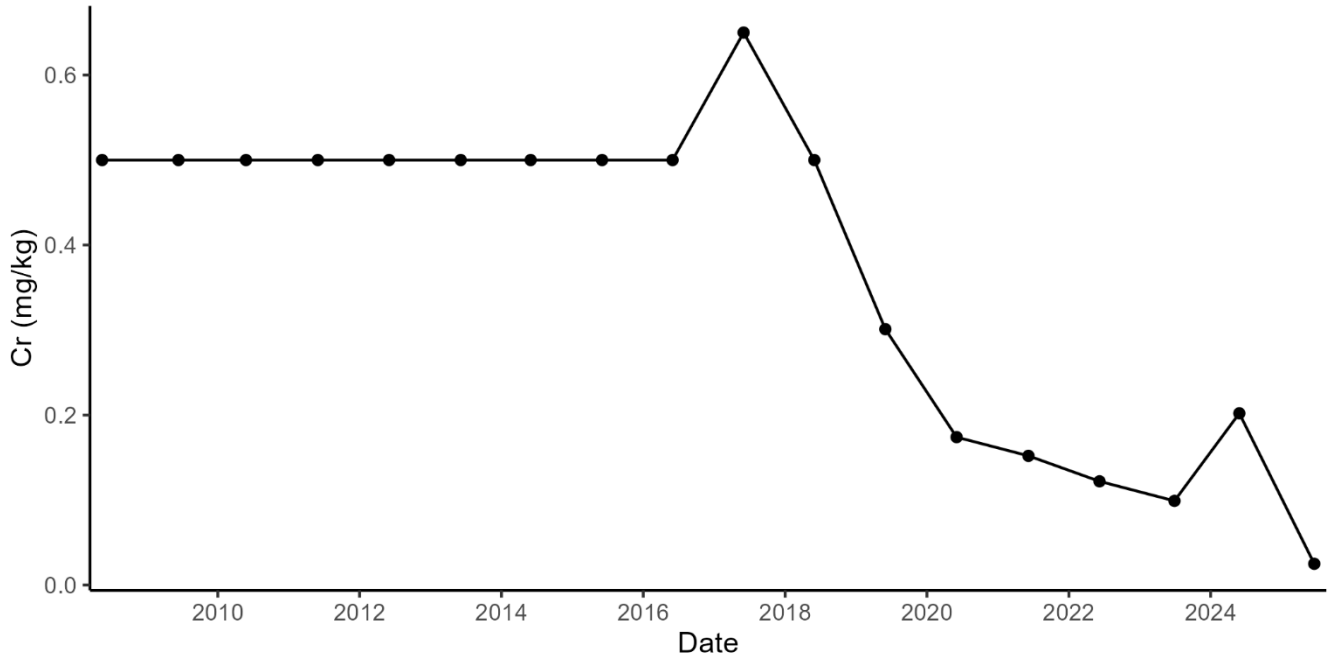
Plot 11 Moss

Baseline data trend present



Plot 11 LabTea

Baseline statistics were not estimated



- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre

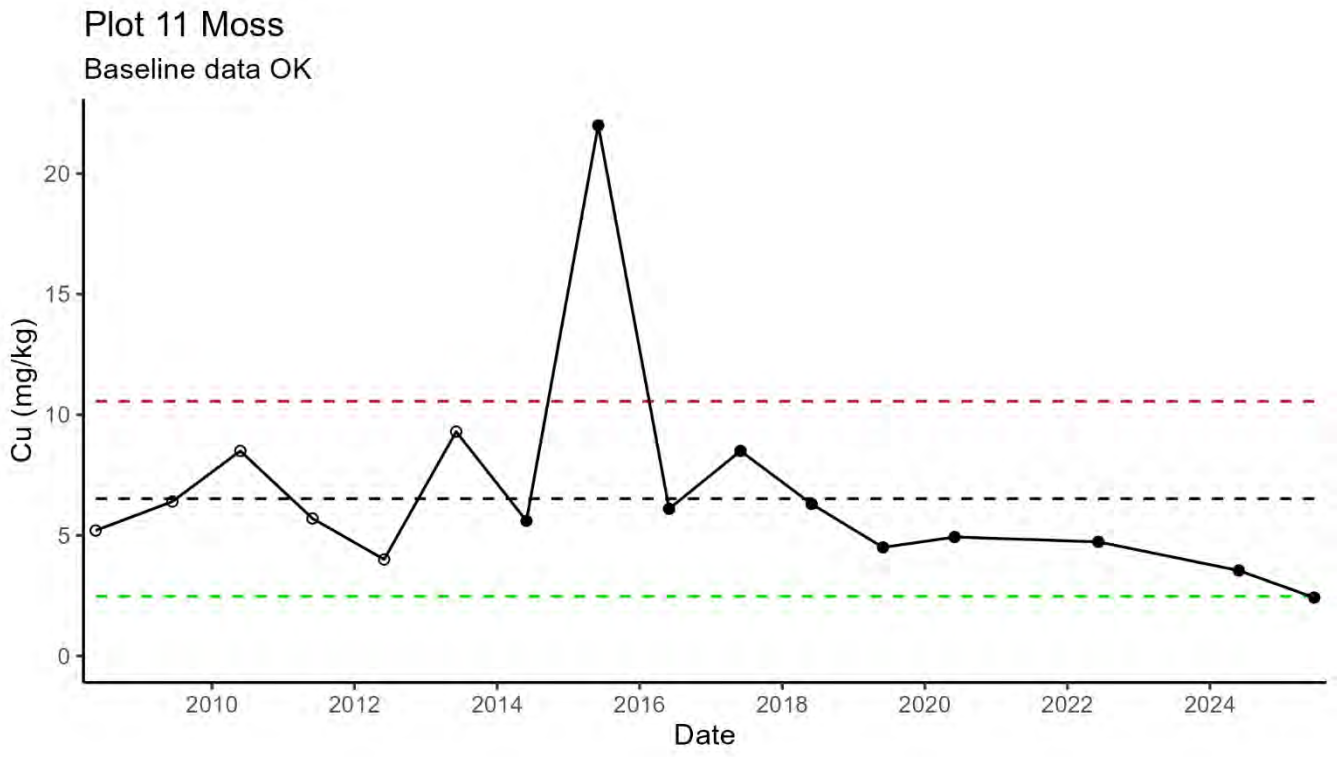
Soil and Vegetation Monitoring Program

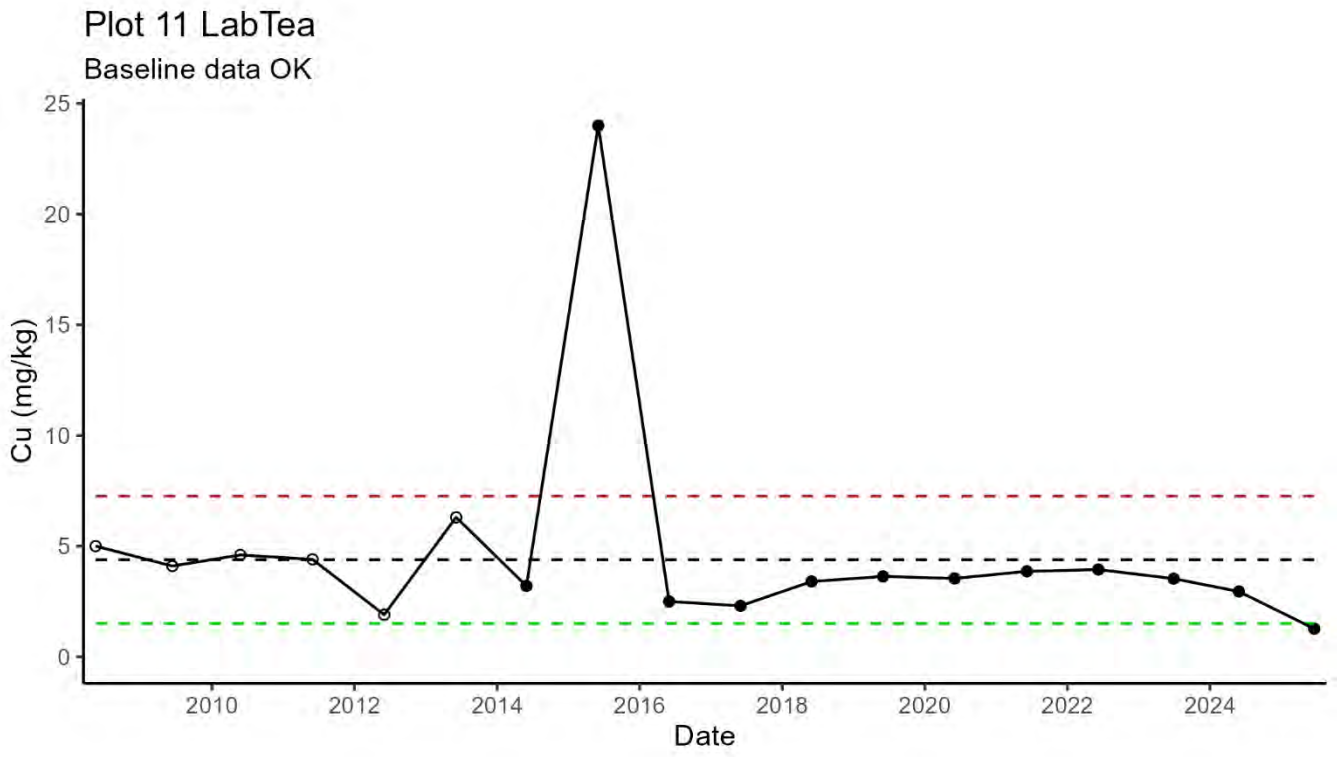
Chromium

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Figure **F.19**





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

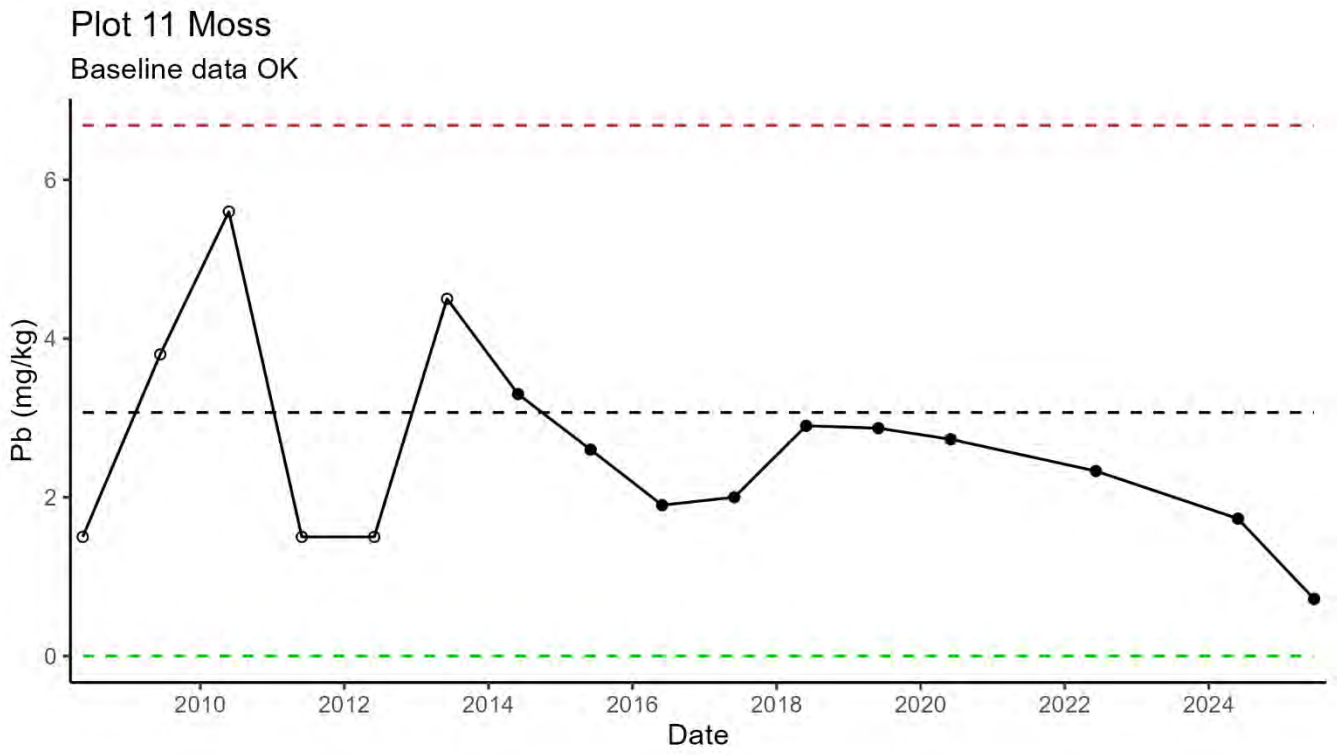
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

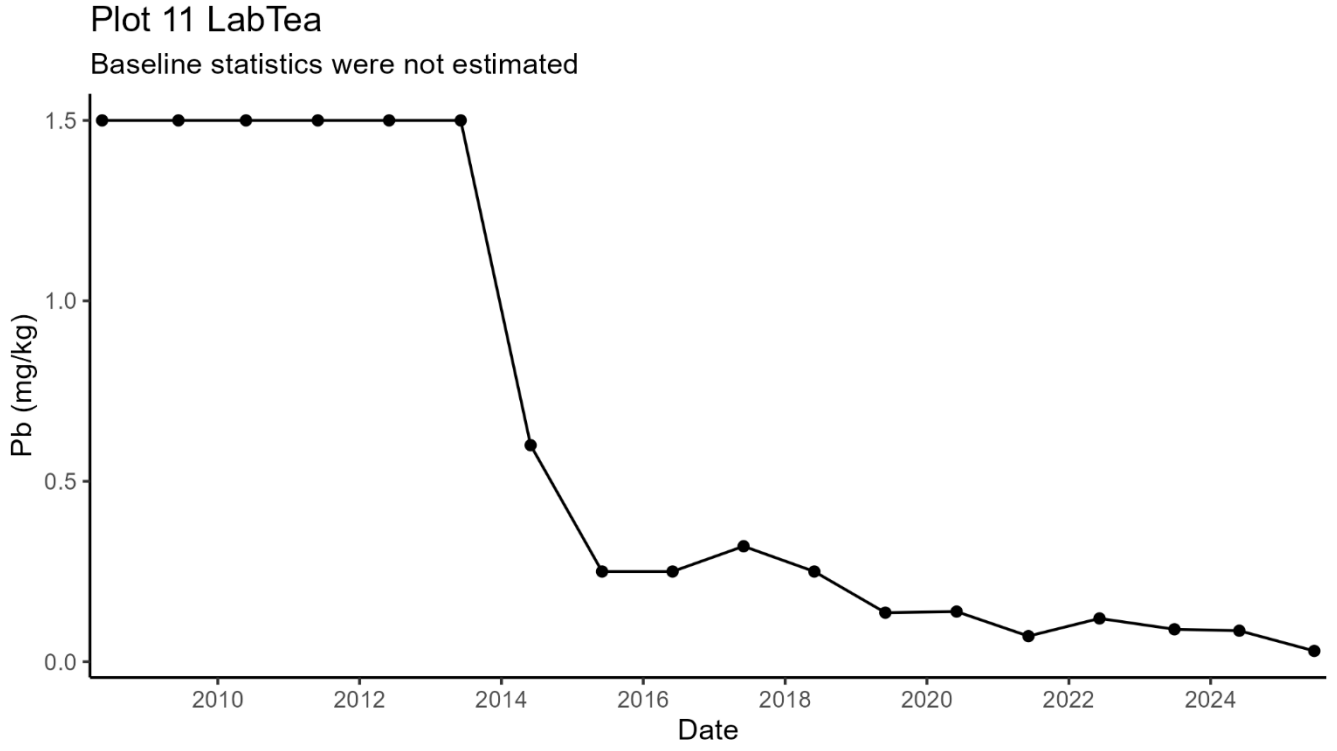
Copper

Date:	Project:	Technical:	Reviewer:	Drawn:
March 4, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure **F.20**





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

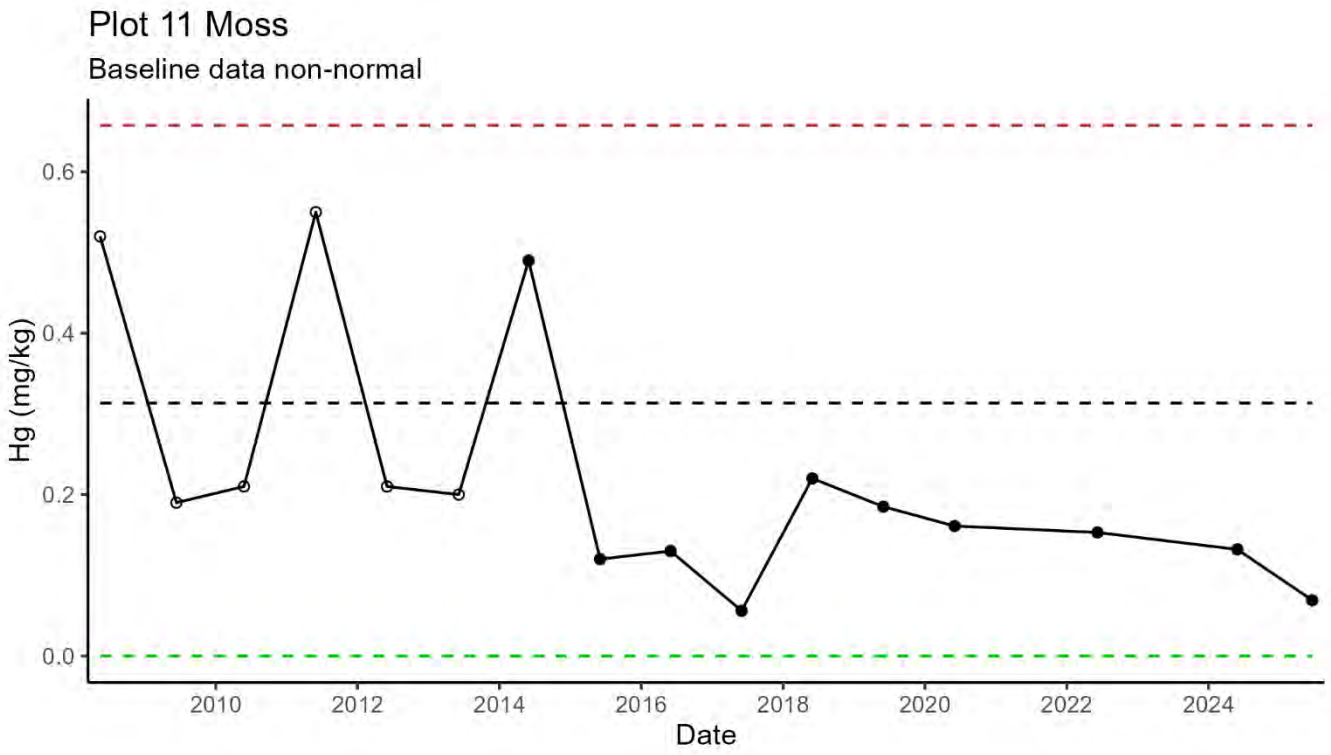
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

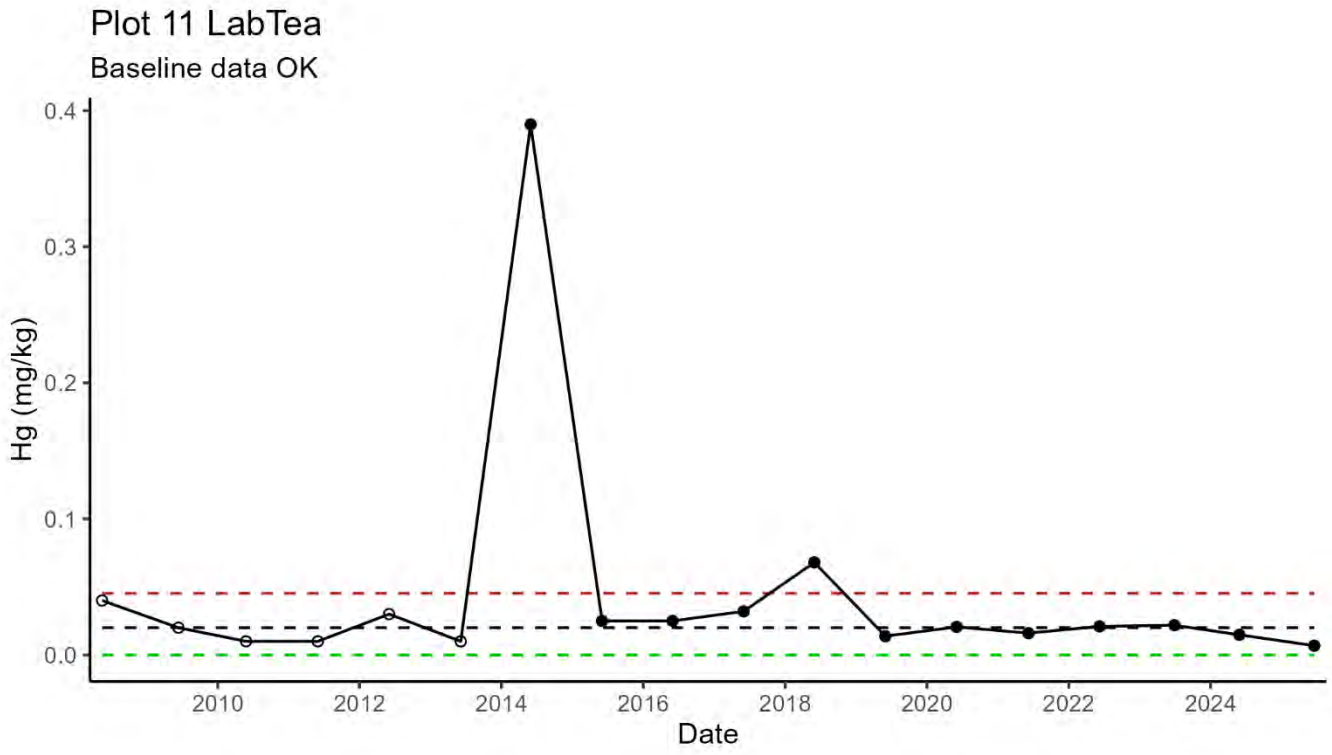
Lead

Date:	Project:	Technical:	Reviewer:	Drawn:
March 4, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure **F.21**





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

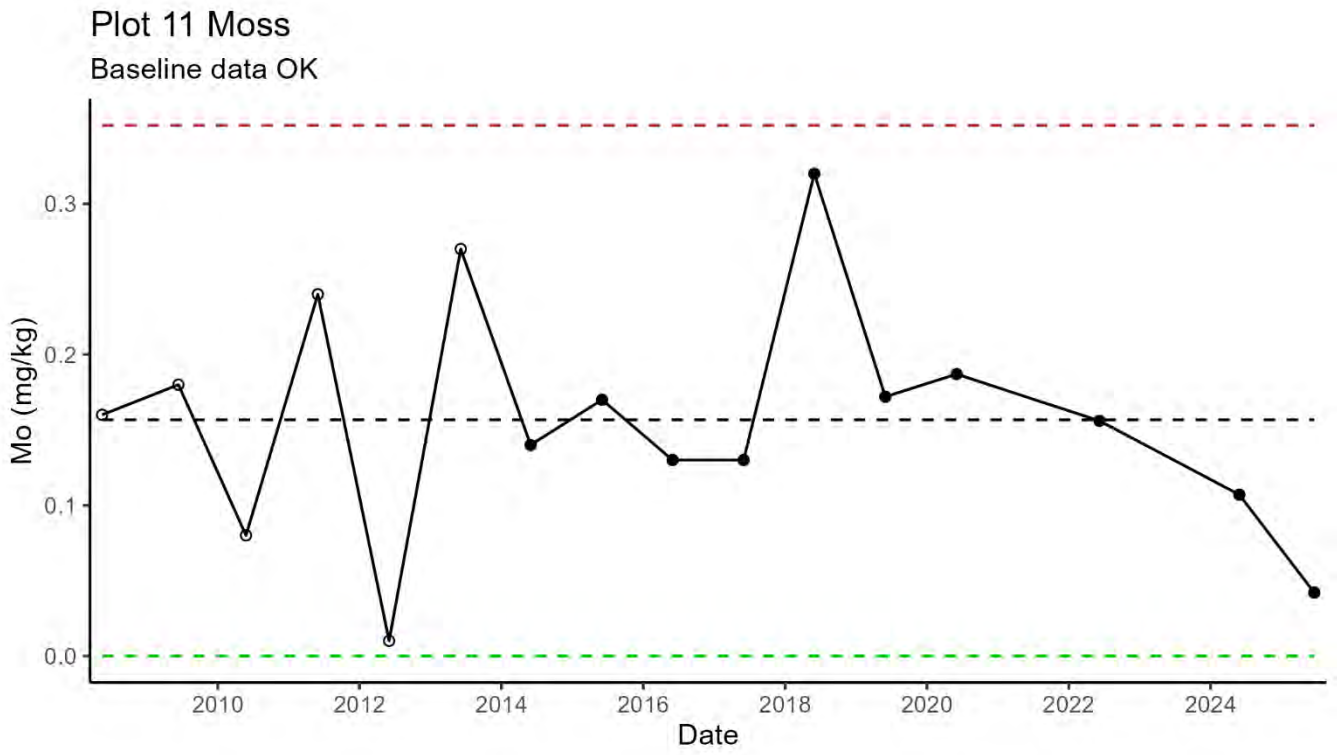
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

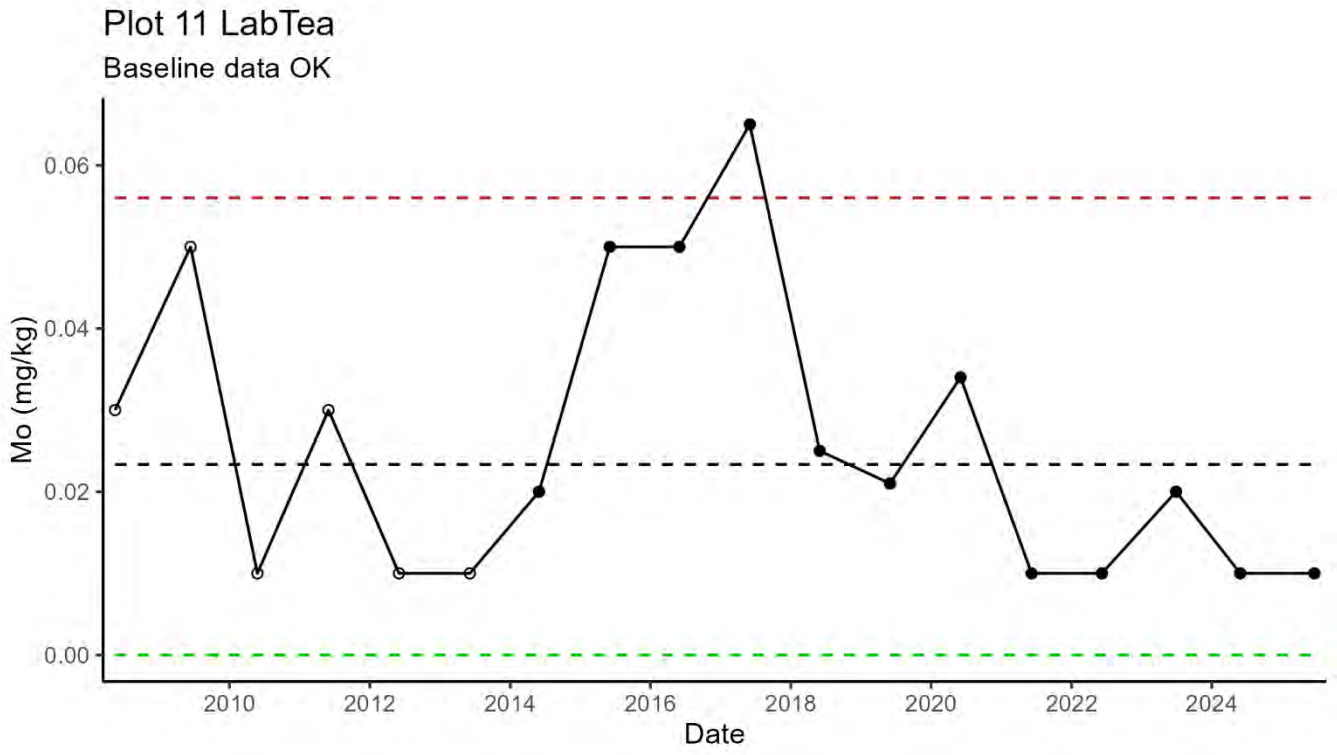
Mercury

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Figure **F.22**





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

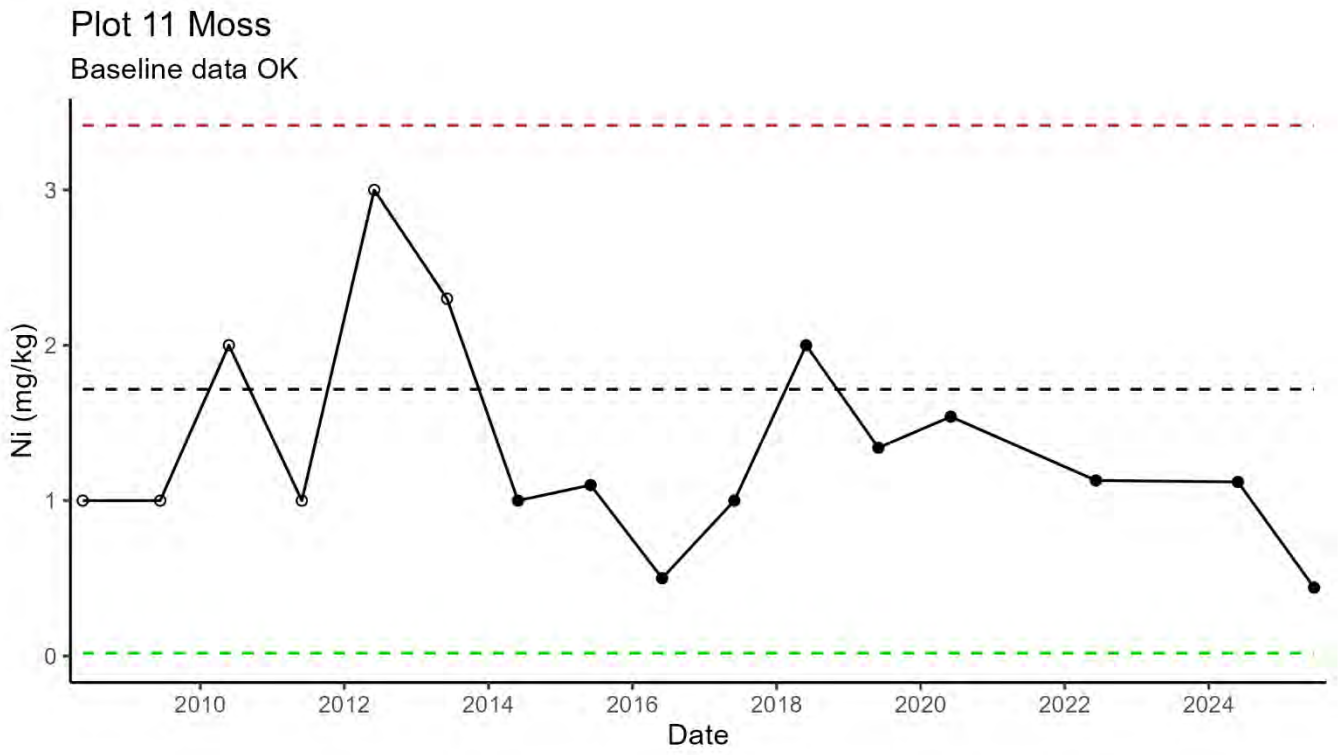
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

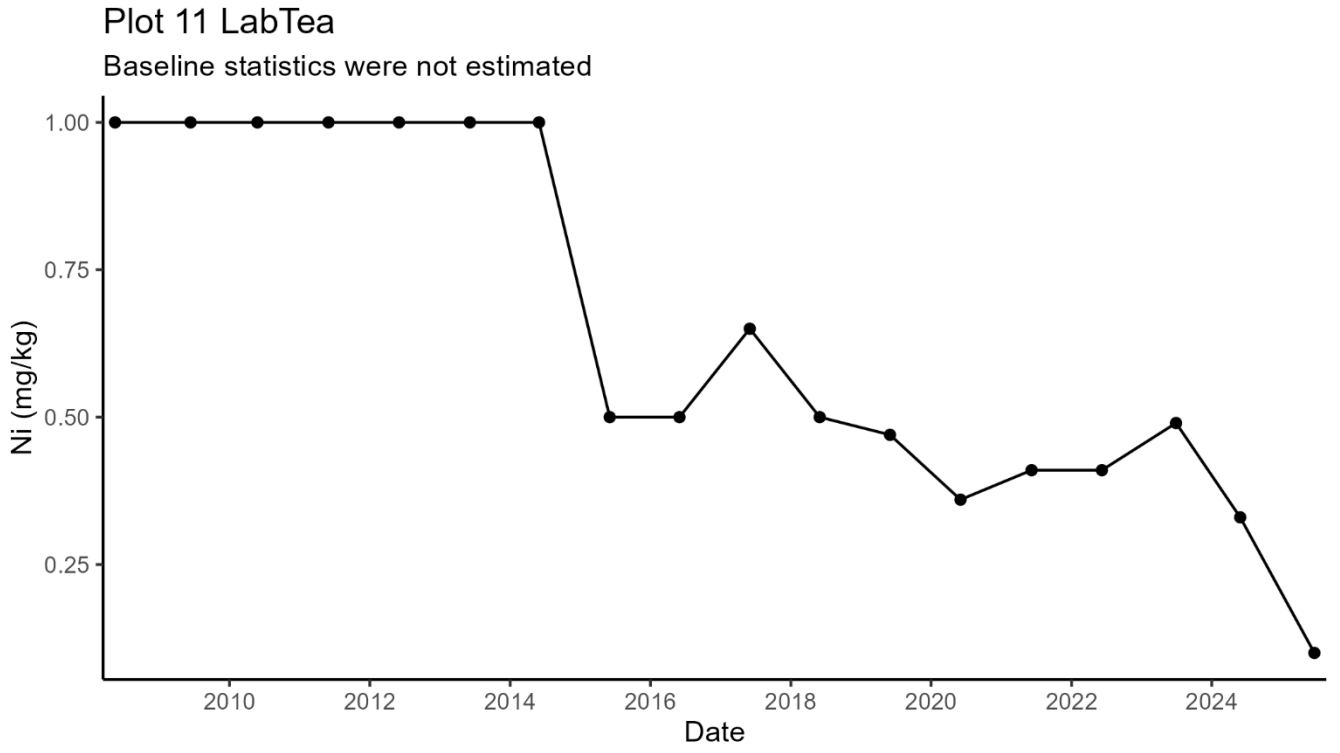
Molybdenum

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Figure F.23





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Nickel

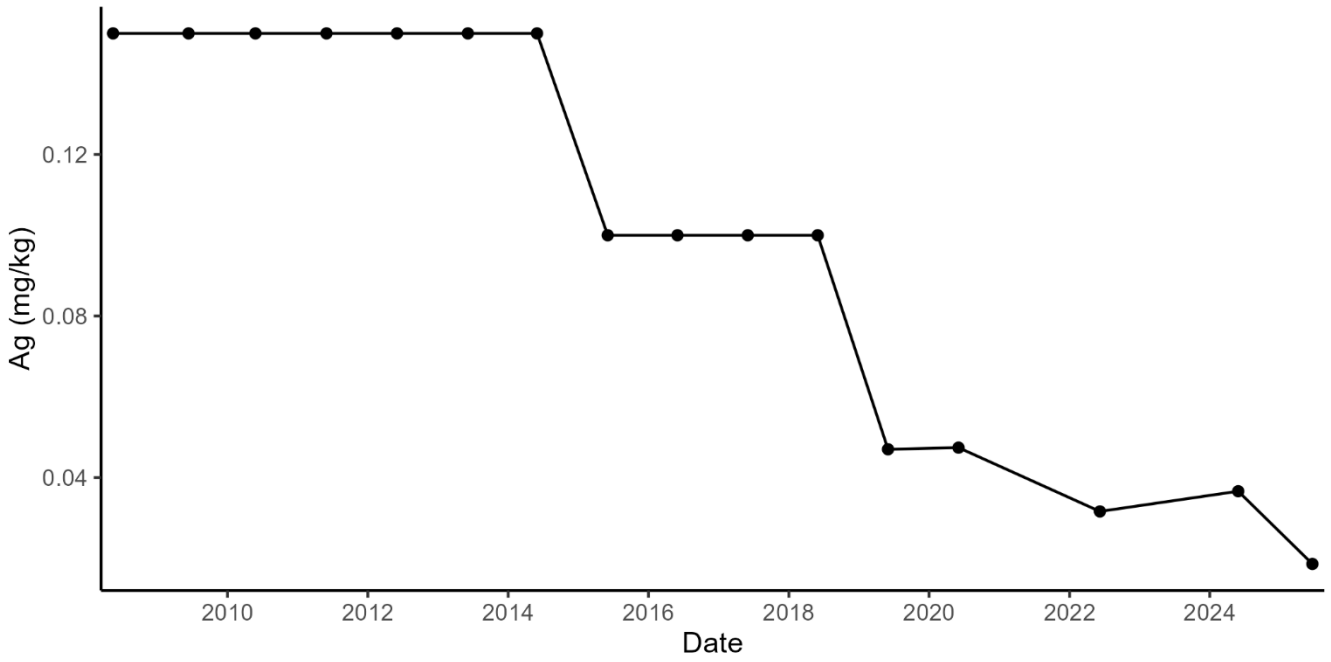
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Figure F.24

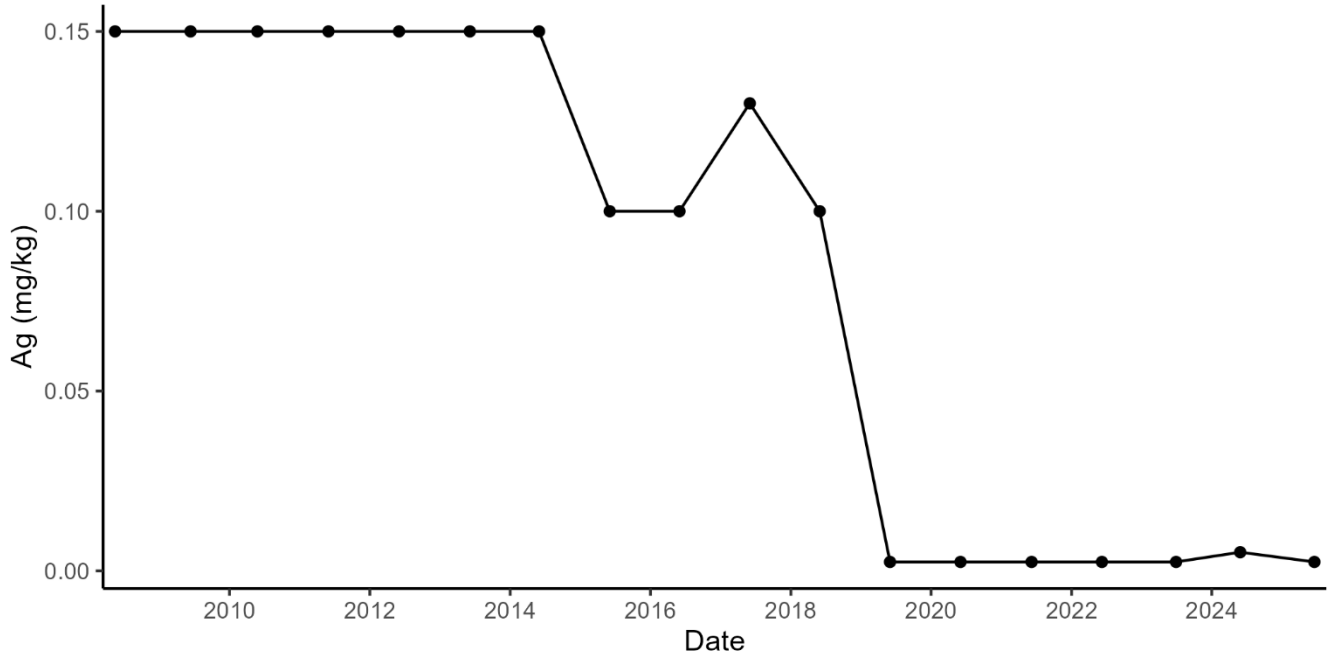
Plot 11 Moss

Baseline statistics were not estimated



Plot 11 LabTea

Baseline statistics were not estimated



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Silver

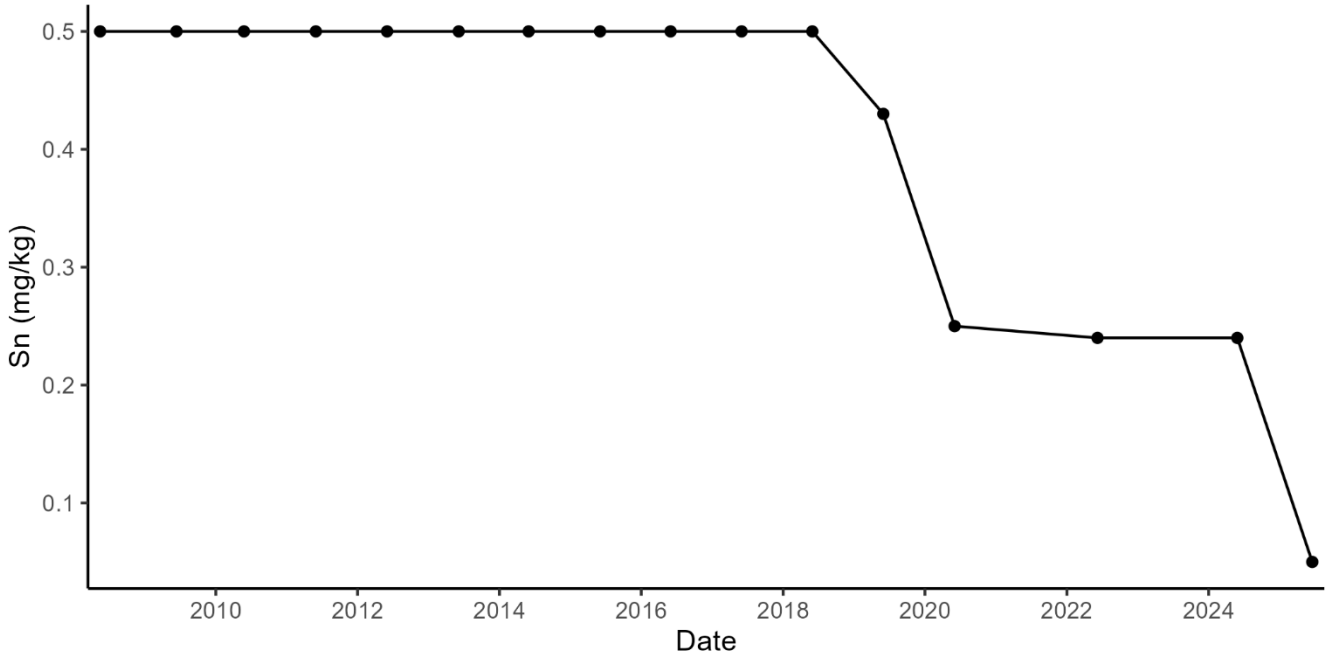
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Figure F.25

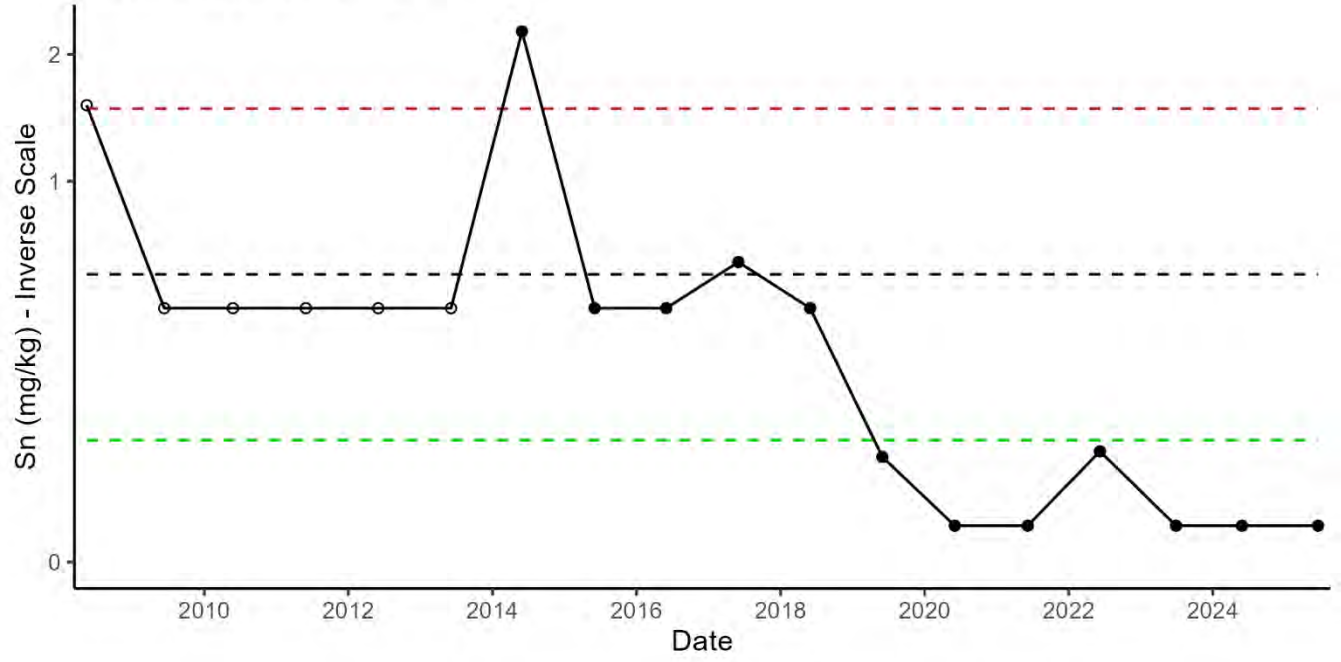
Plot 11 Moss

Baseline statistics were not estimated



Plot 11 LabTea

Baseline data non-normal



- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre

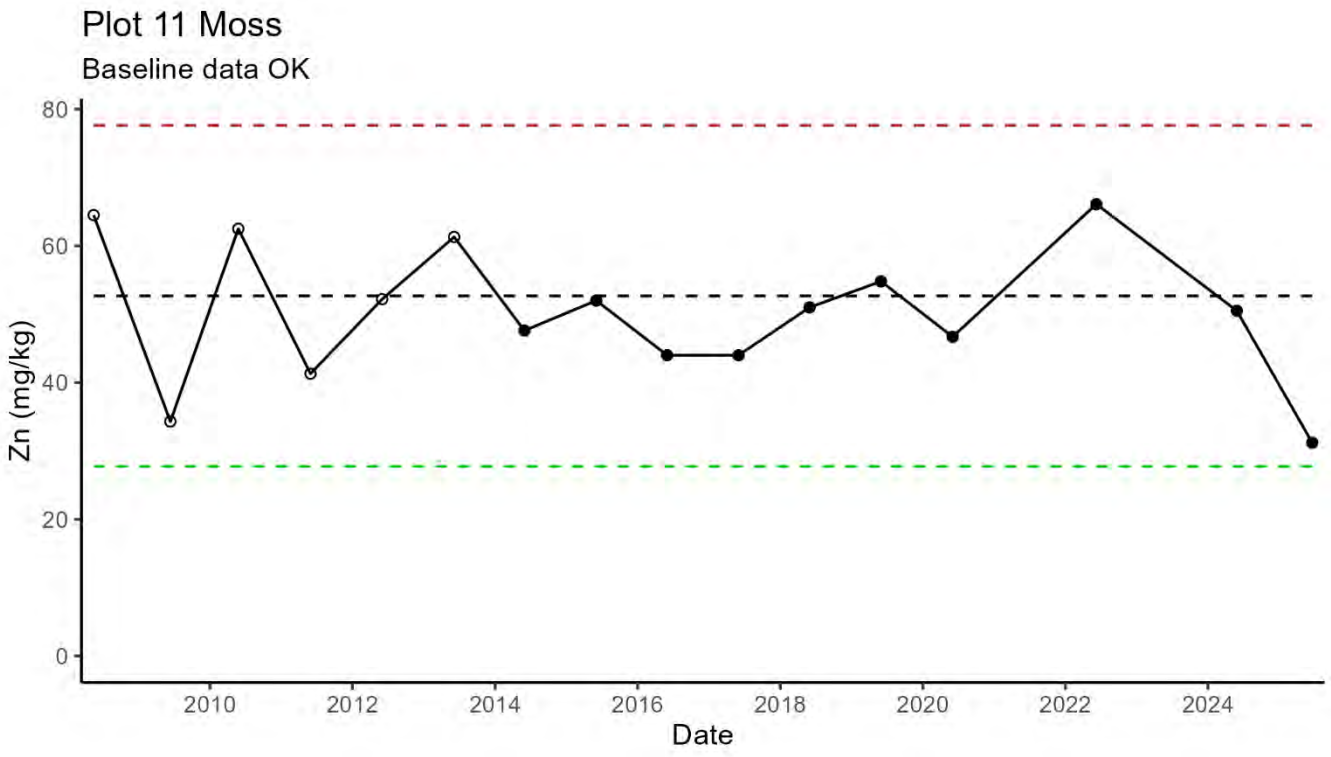
Soil and Vegetation Monitoring Program

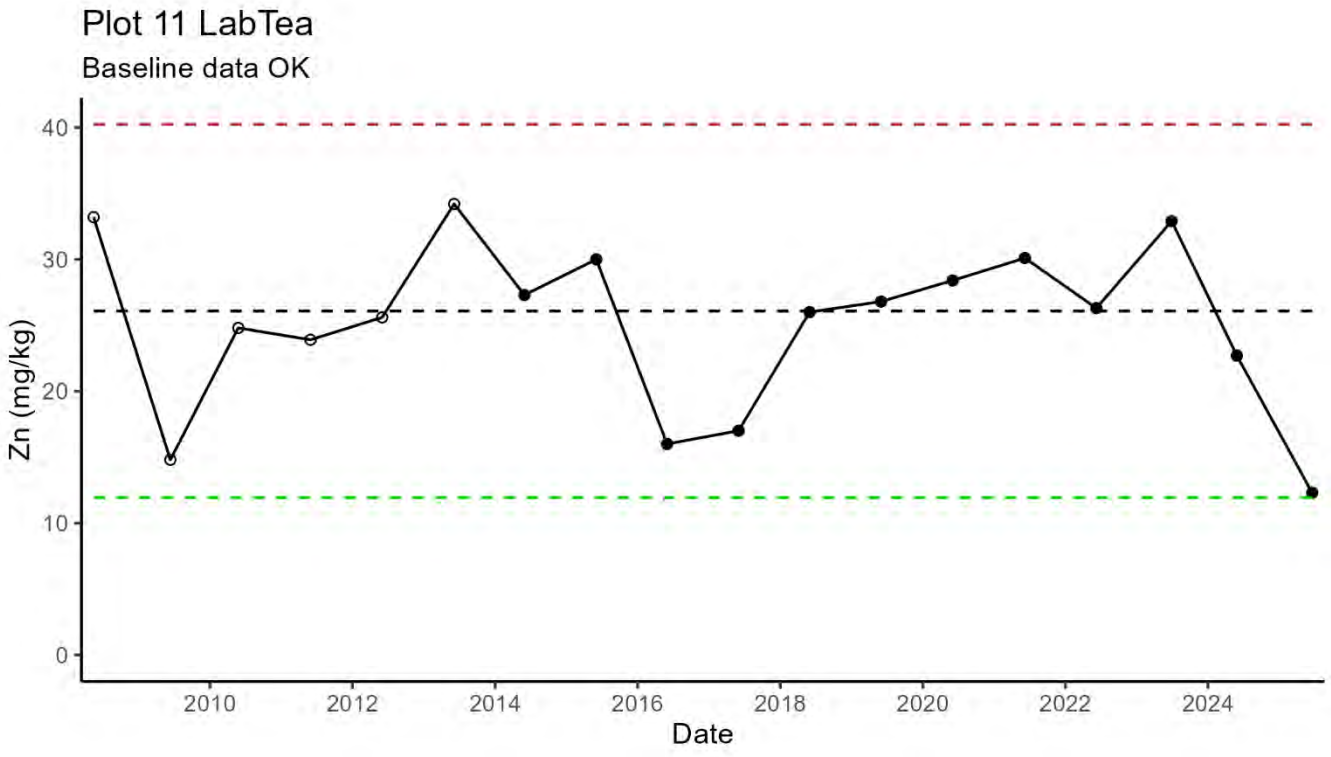
Tin

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Figure **F.26**





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

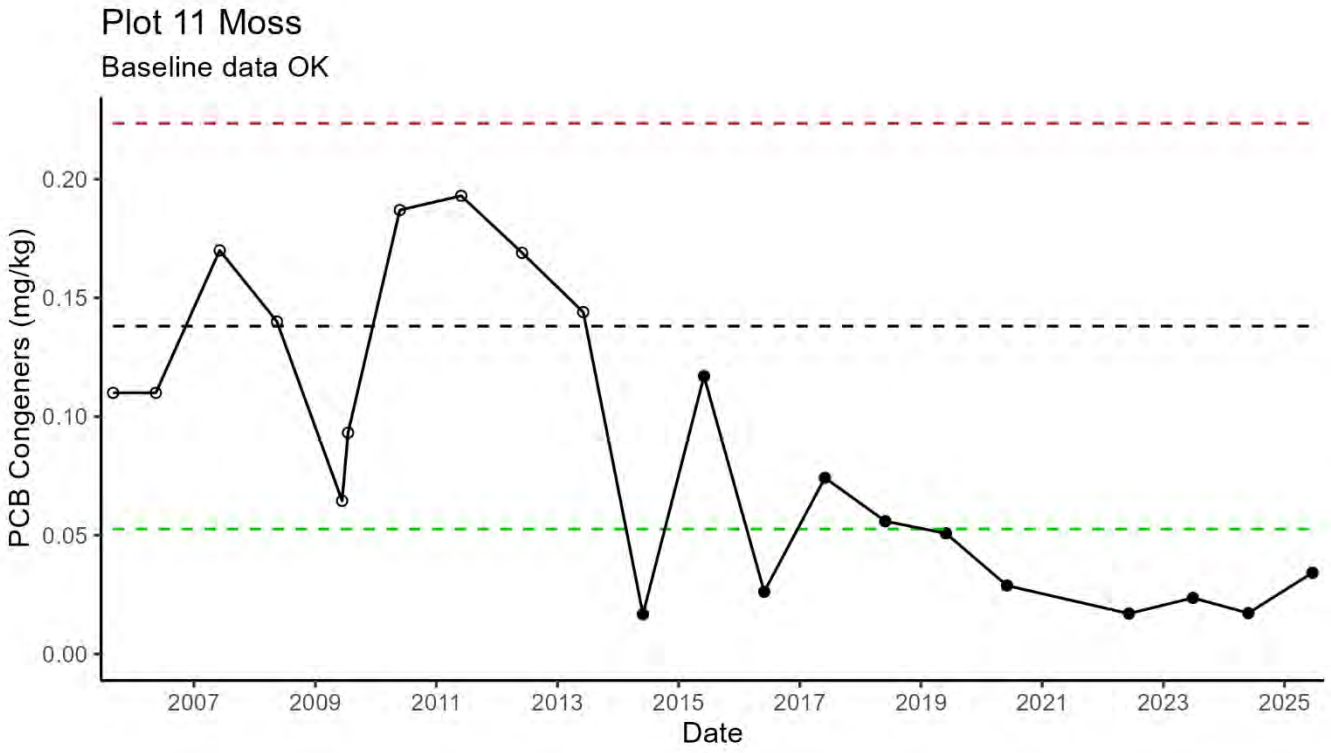
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

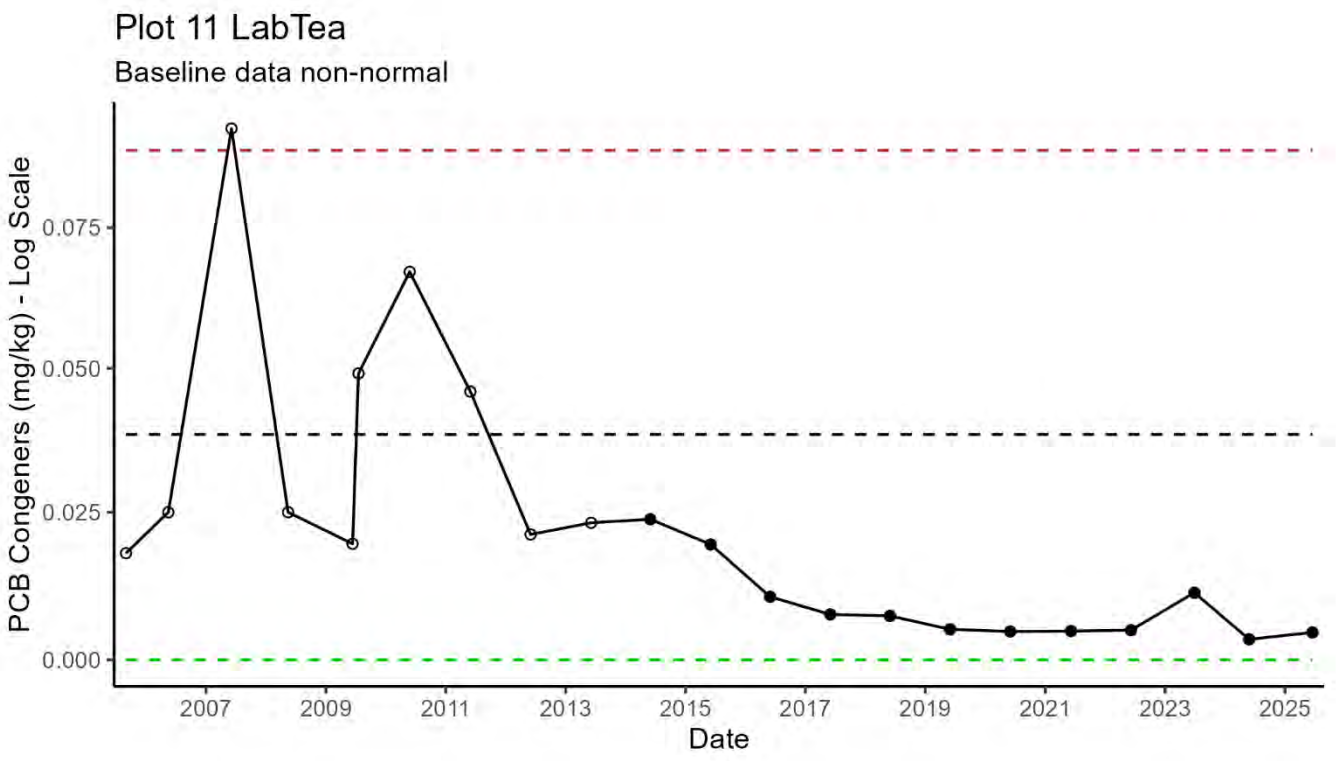
Zinc

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Figure **F.27**





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

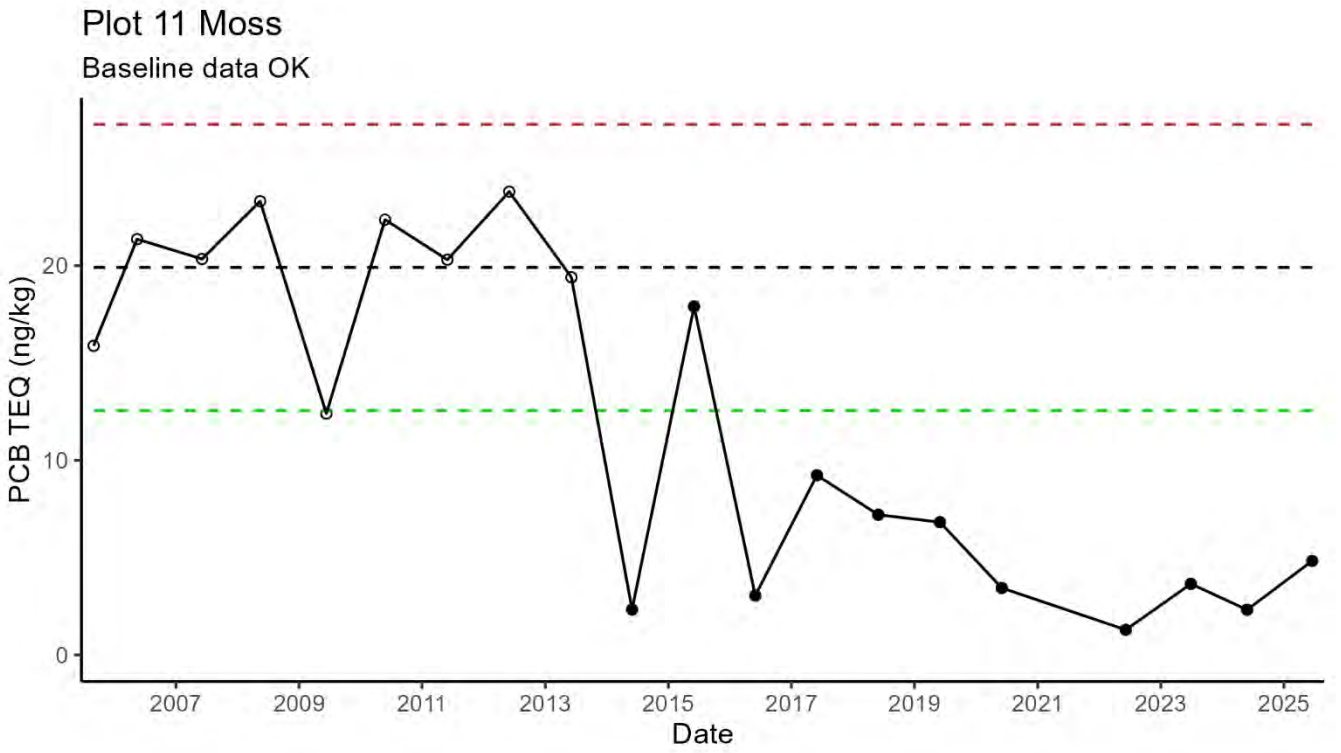
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

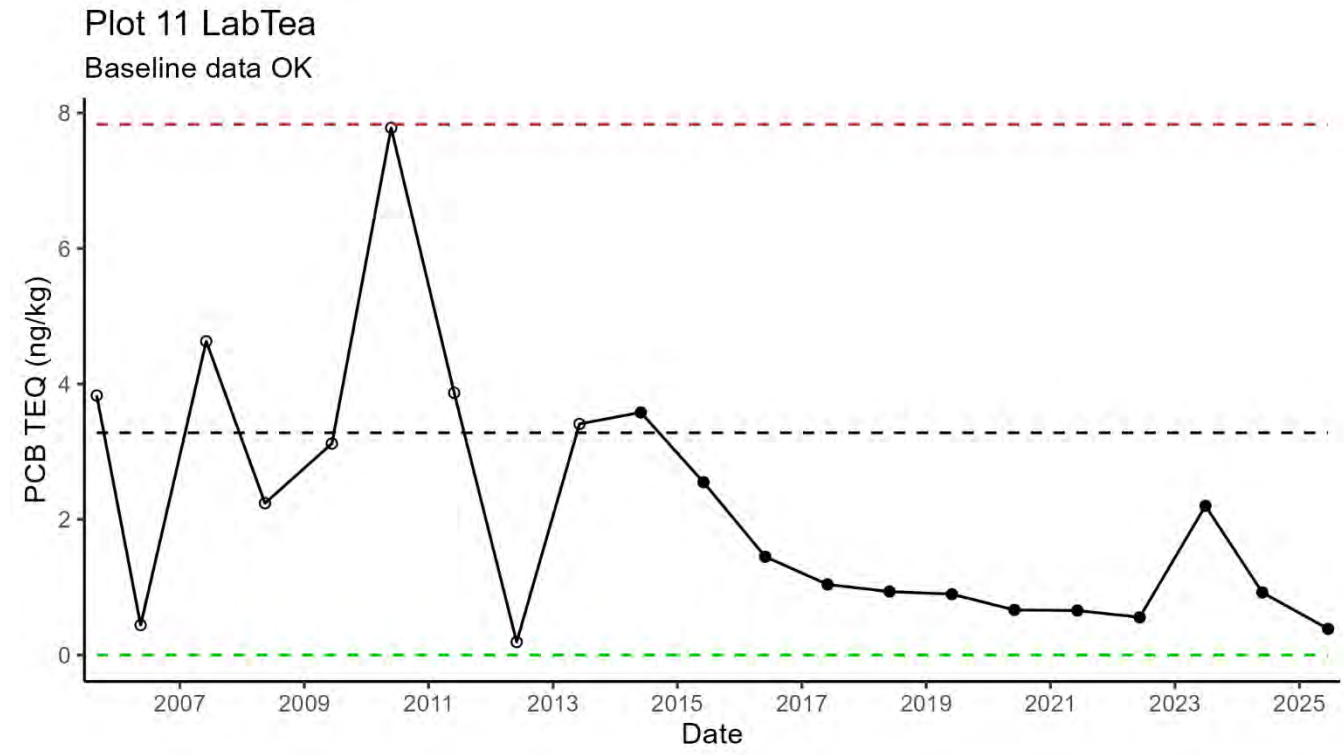
PCB Congeners

Date:	Project:	Technical:	Reviewer:	Drawn:
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Figure **F.28**





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

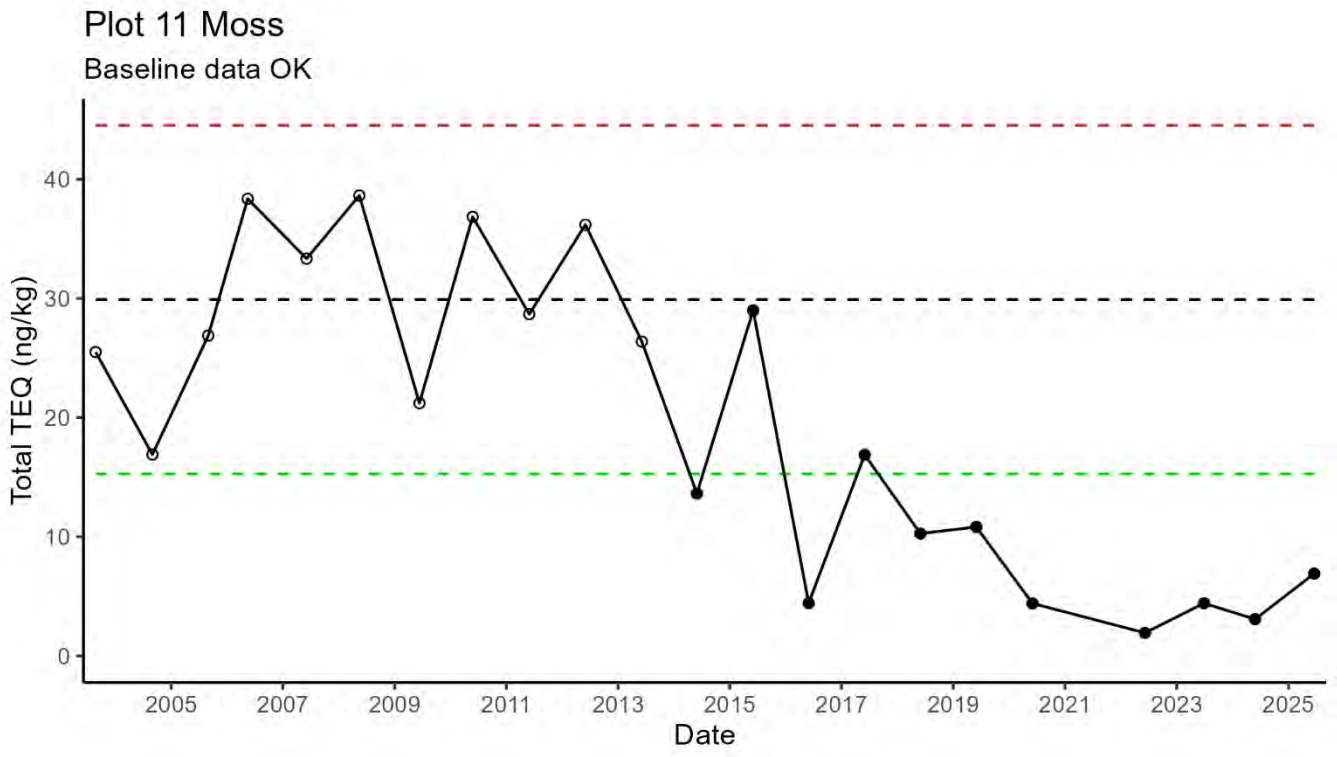
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

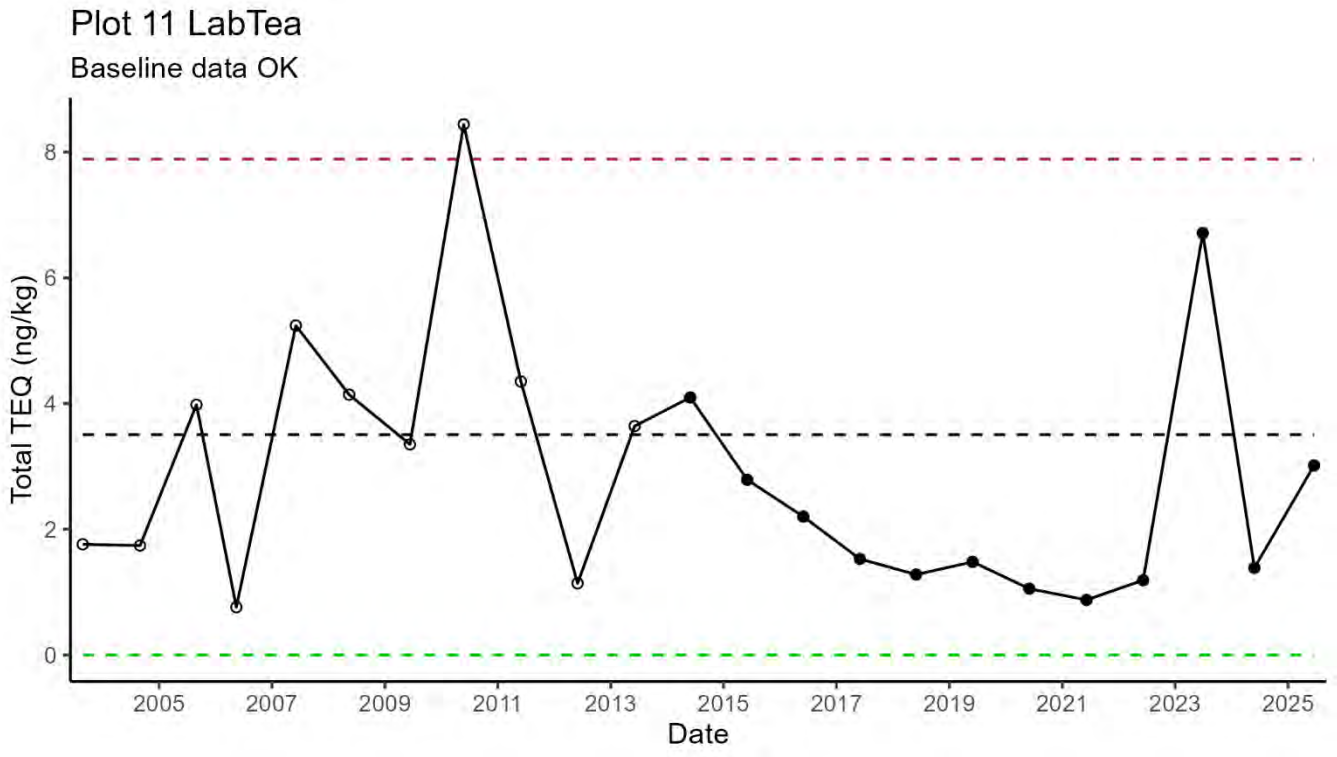
PCB TEQ

Date:	Project:	Technical:	Reviewer:	Drawn:
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Figure **F.29**





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

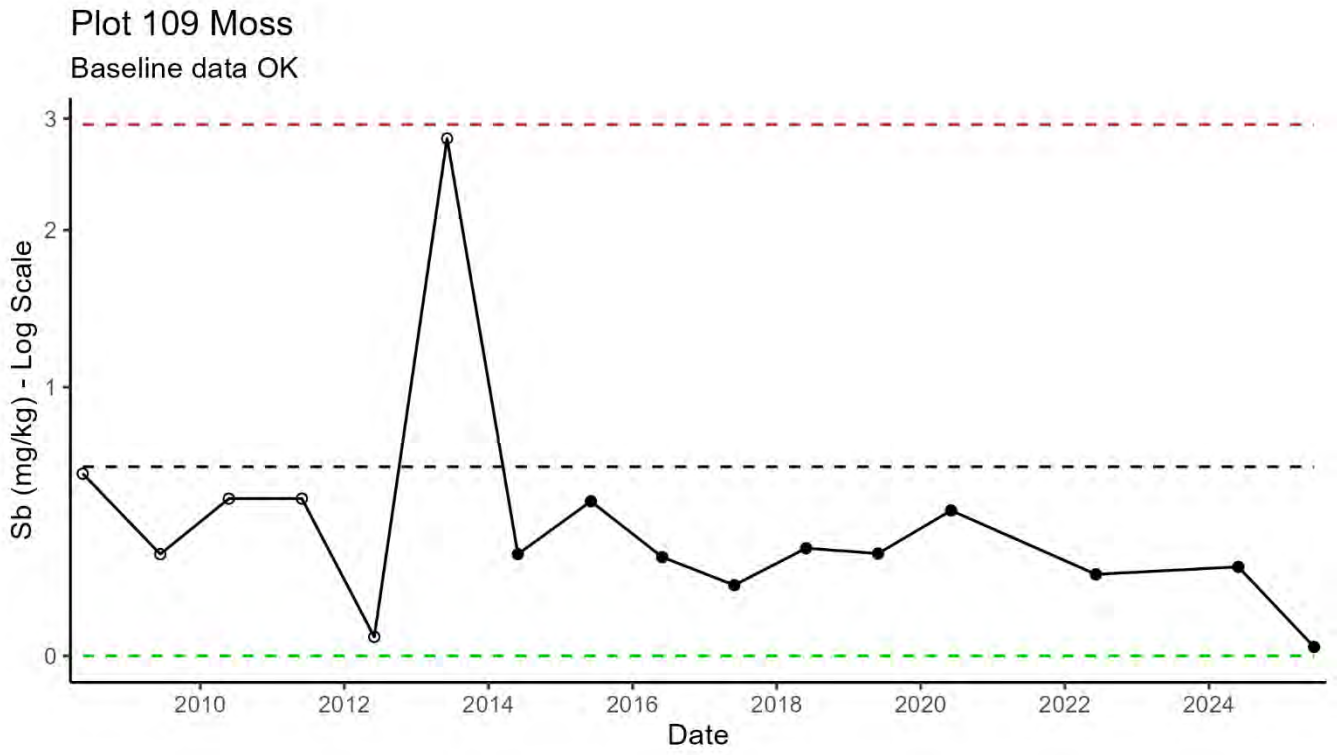
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

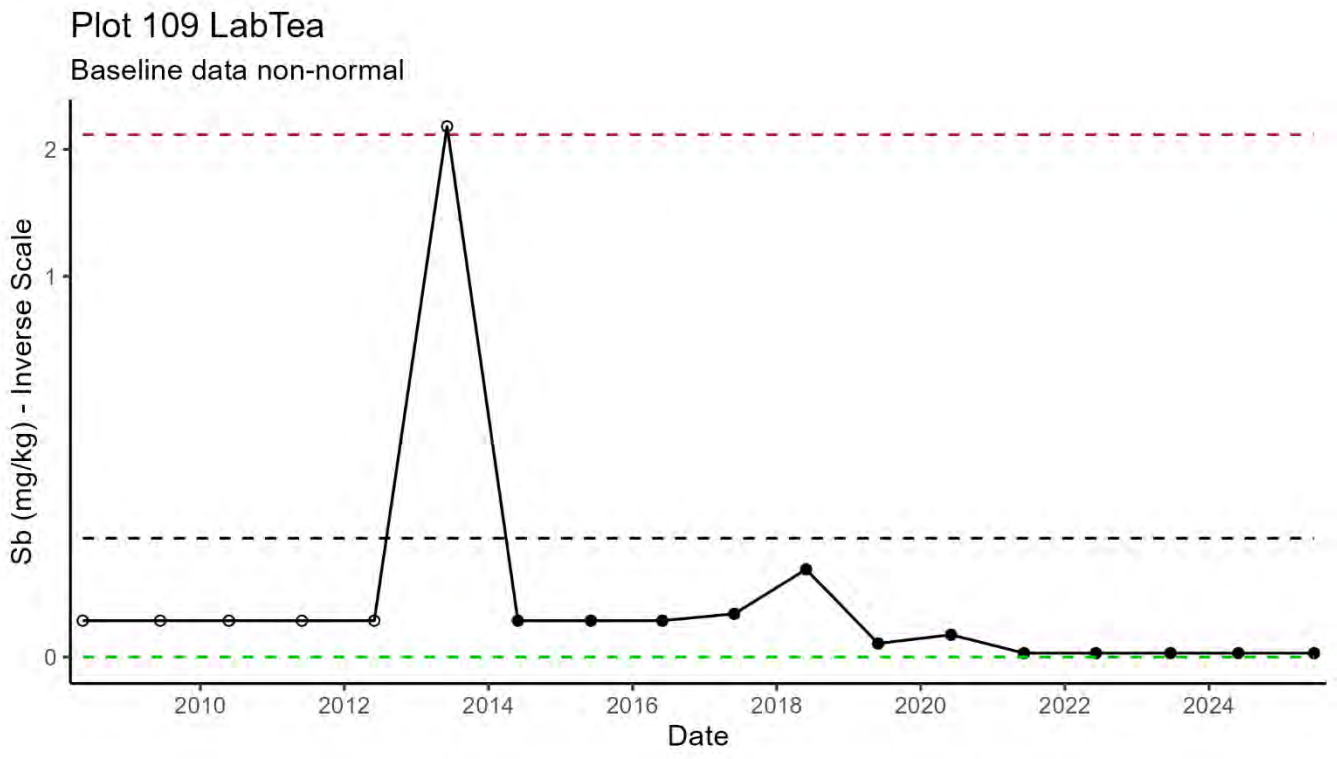
Total TEQ

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Figure **F.30**





- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

MONTROSE ENVIRONMENTAL

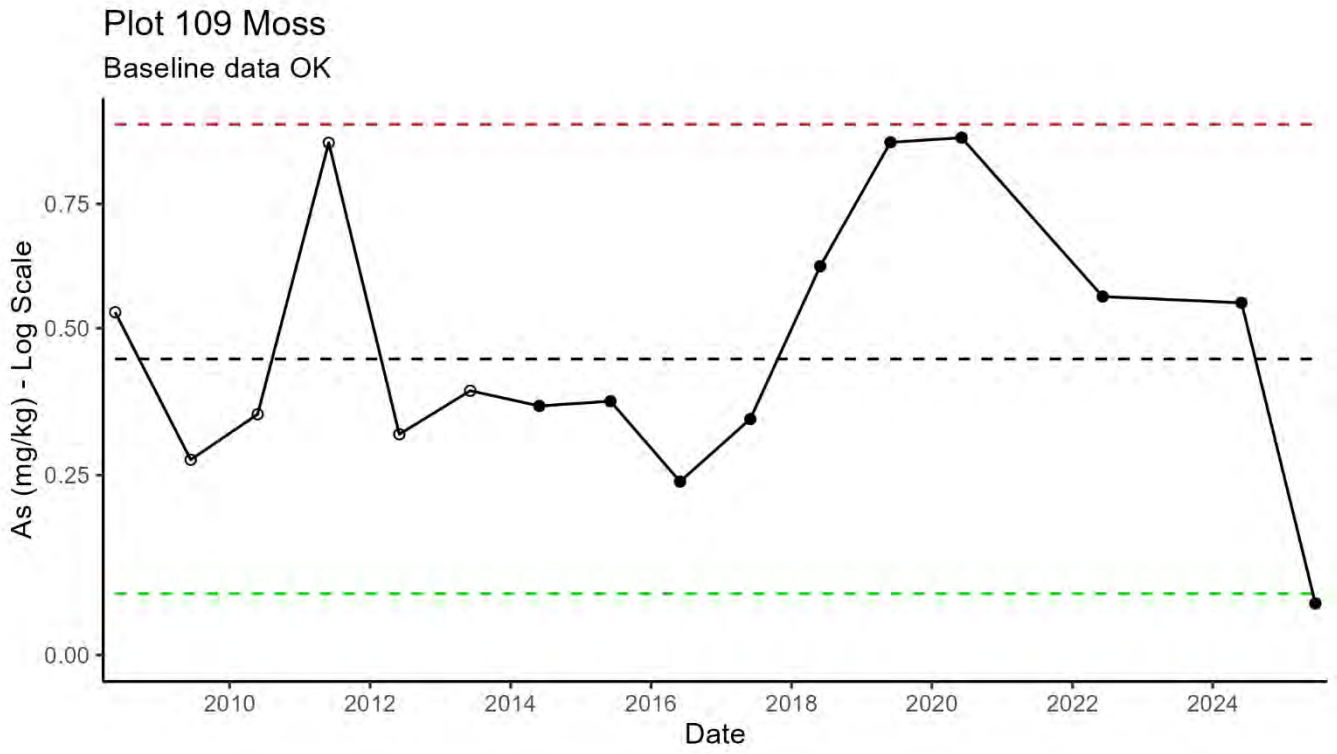
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

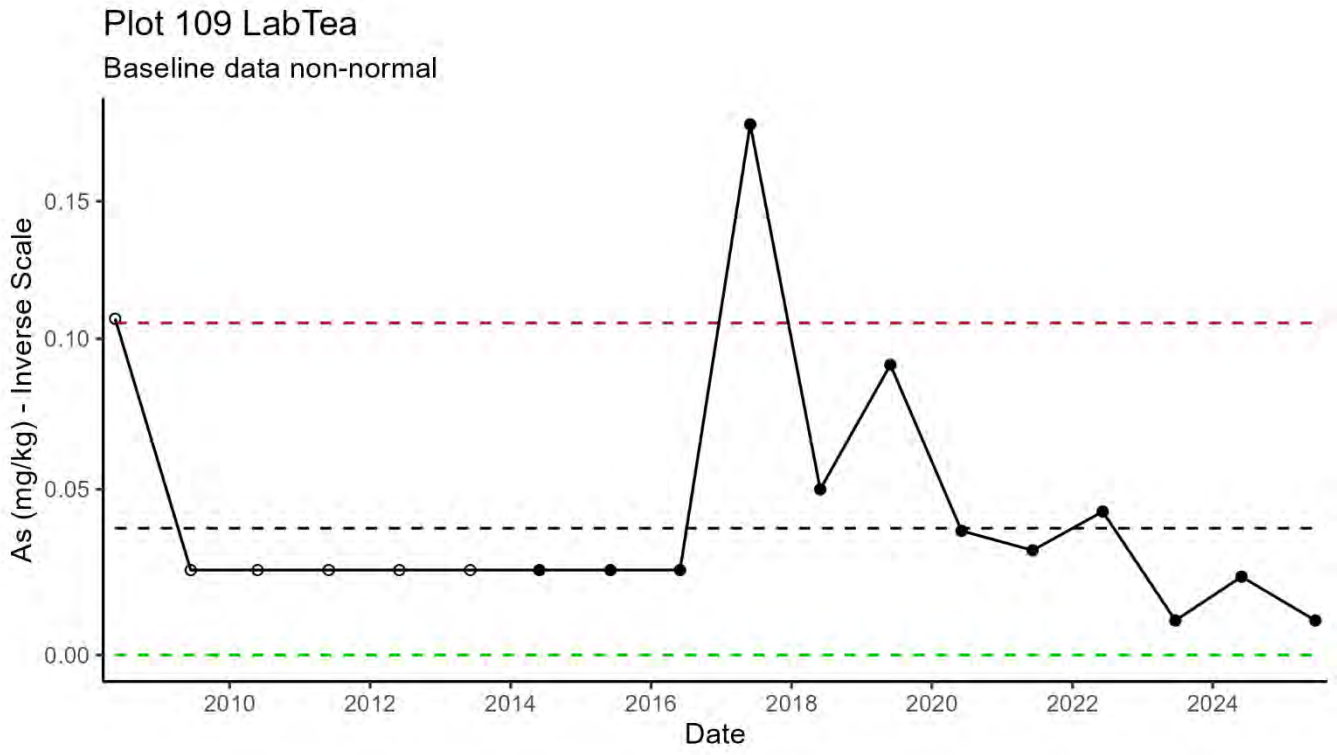
Antimony

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Figure **F.31**





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

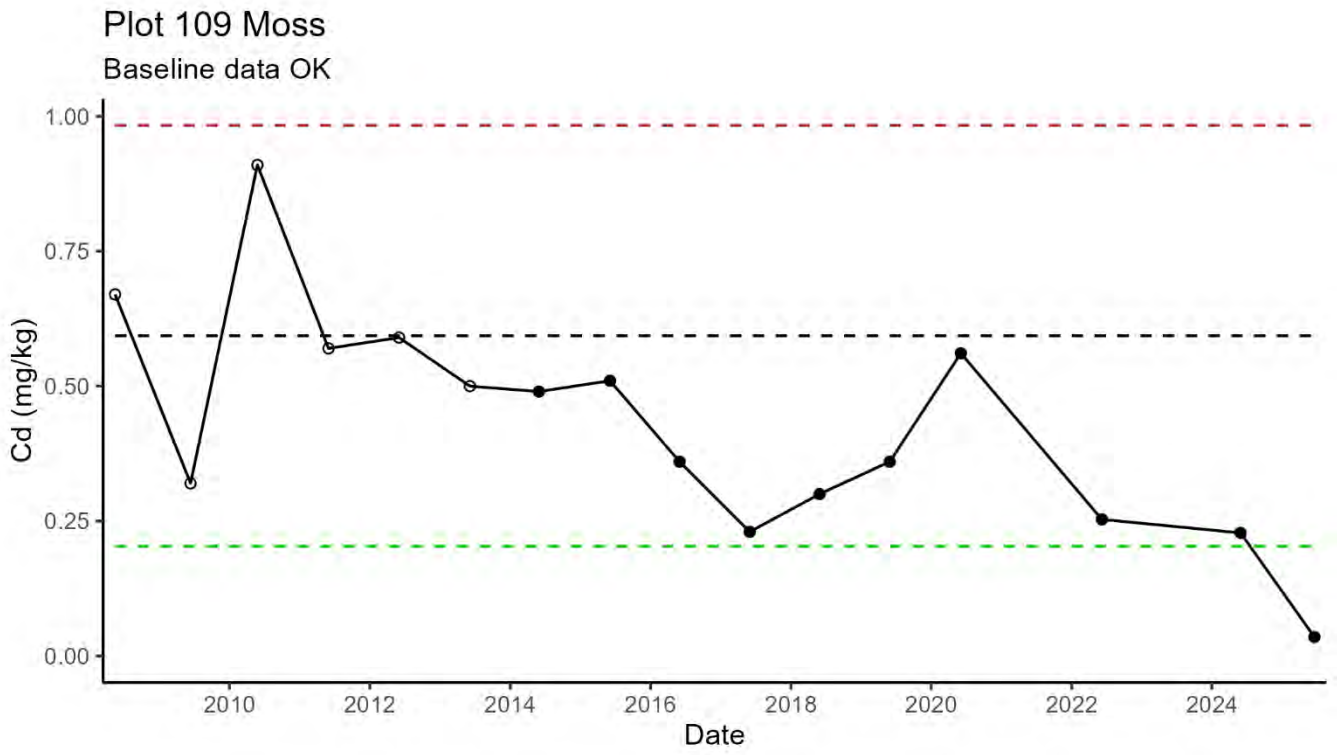
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

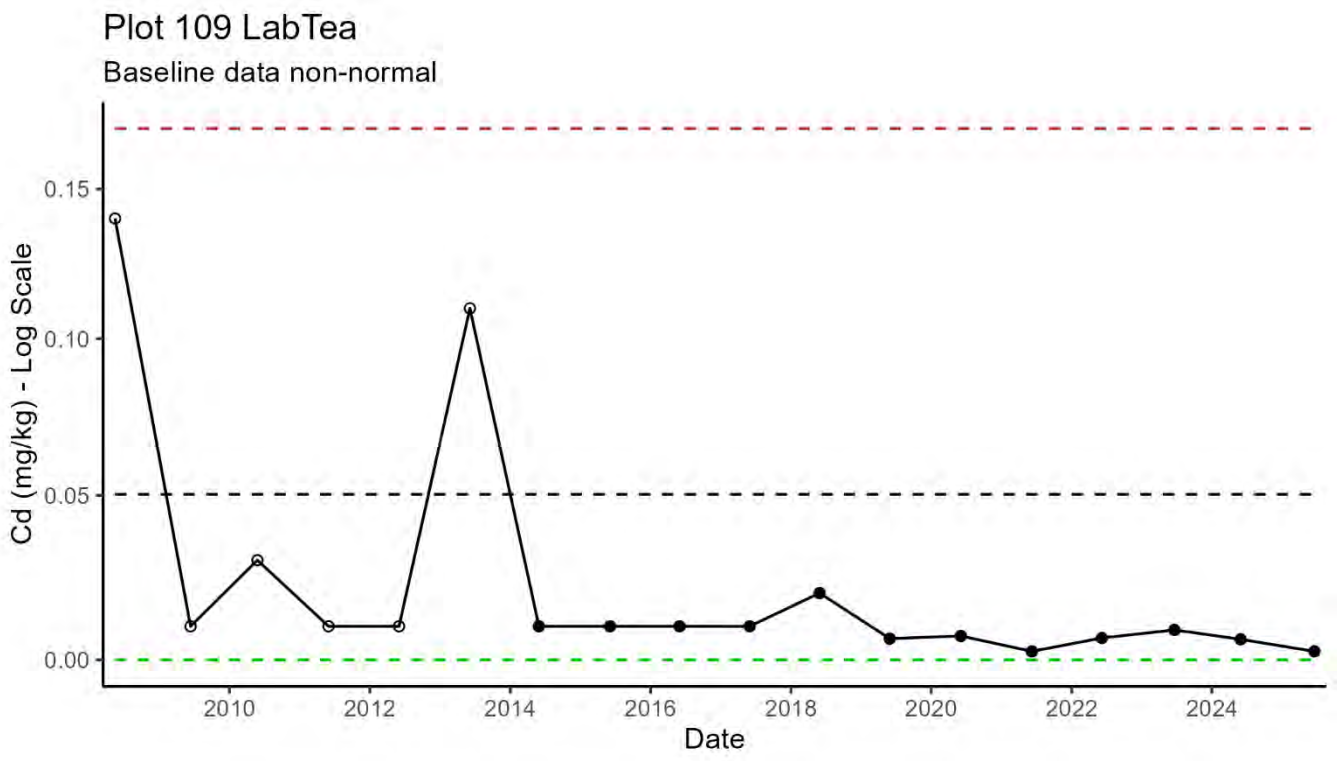
Arsenic

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Figure F.32





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Cadmium

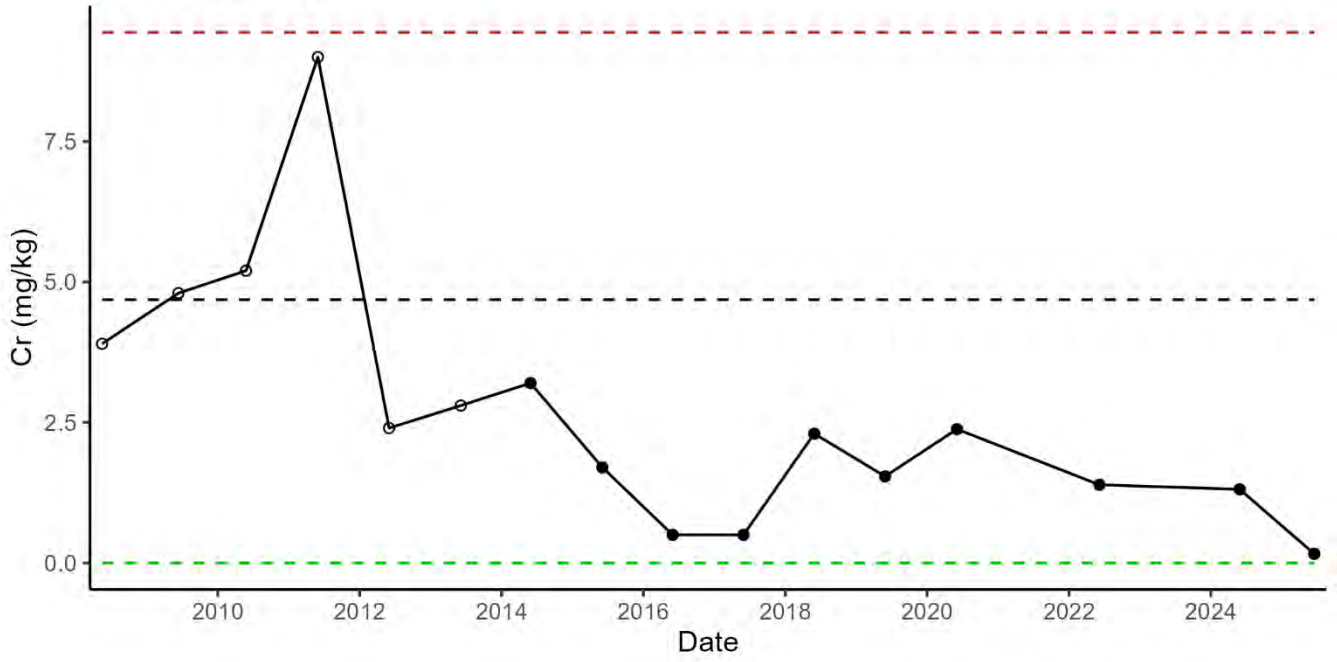
Date:	Project:	Technical:	Reviewer:	Drawn:
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Figure **F.33**

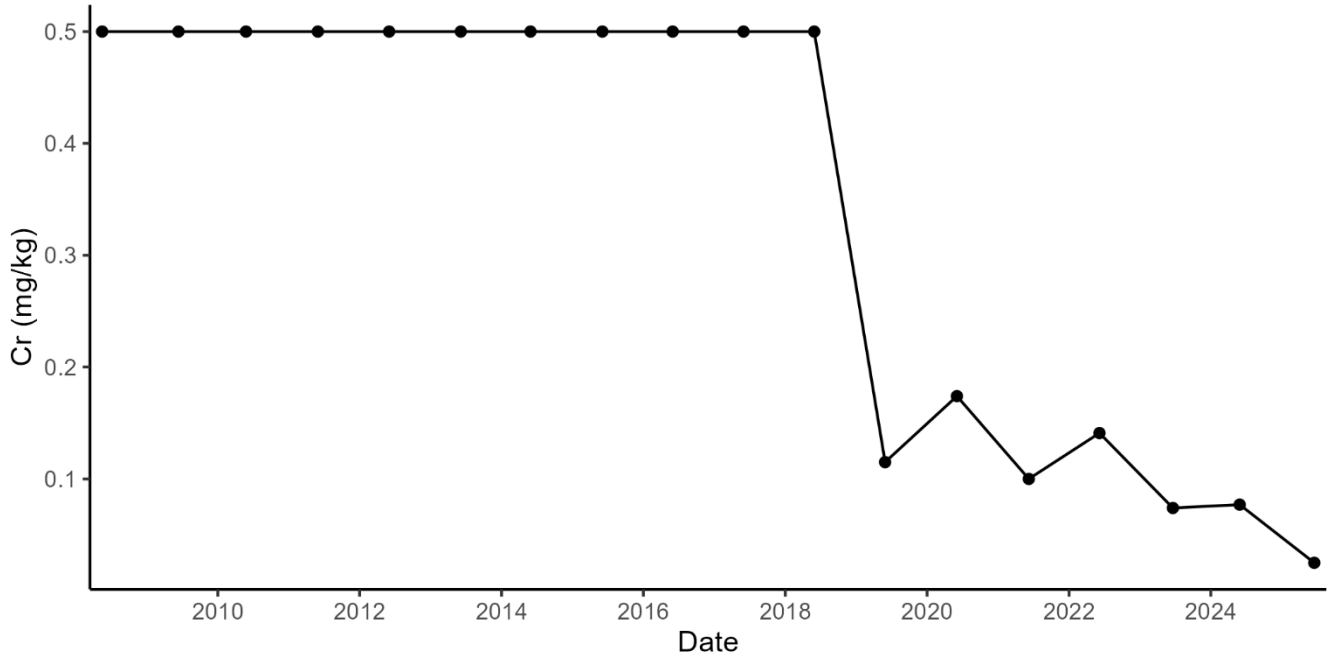
Plot 109 Moss

Baseline data OK



Plot 109 LabTea

Baseline statistics were not estimated



- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre

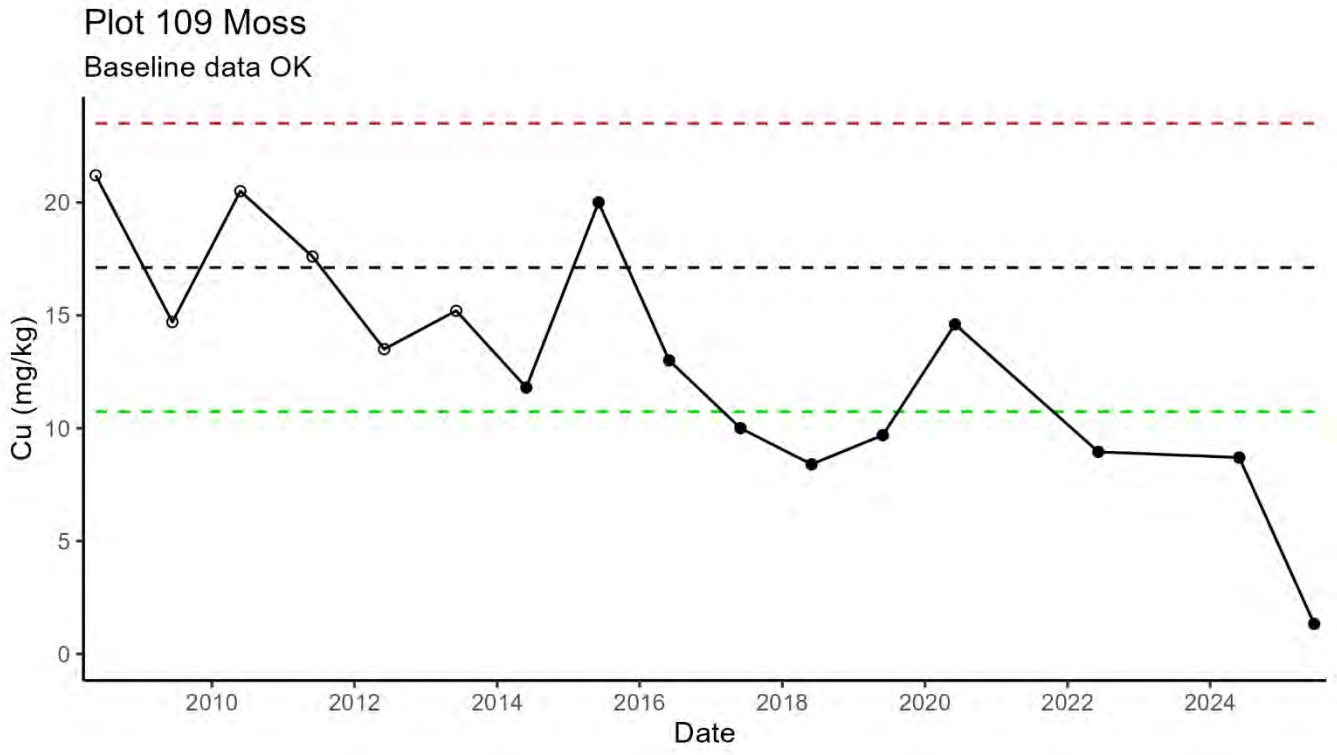
Soil and Vegetation Monitoring Program

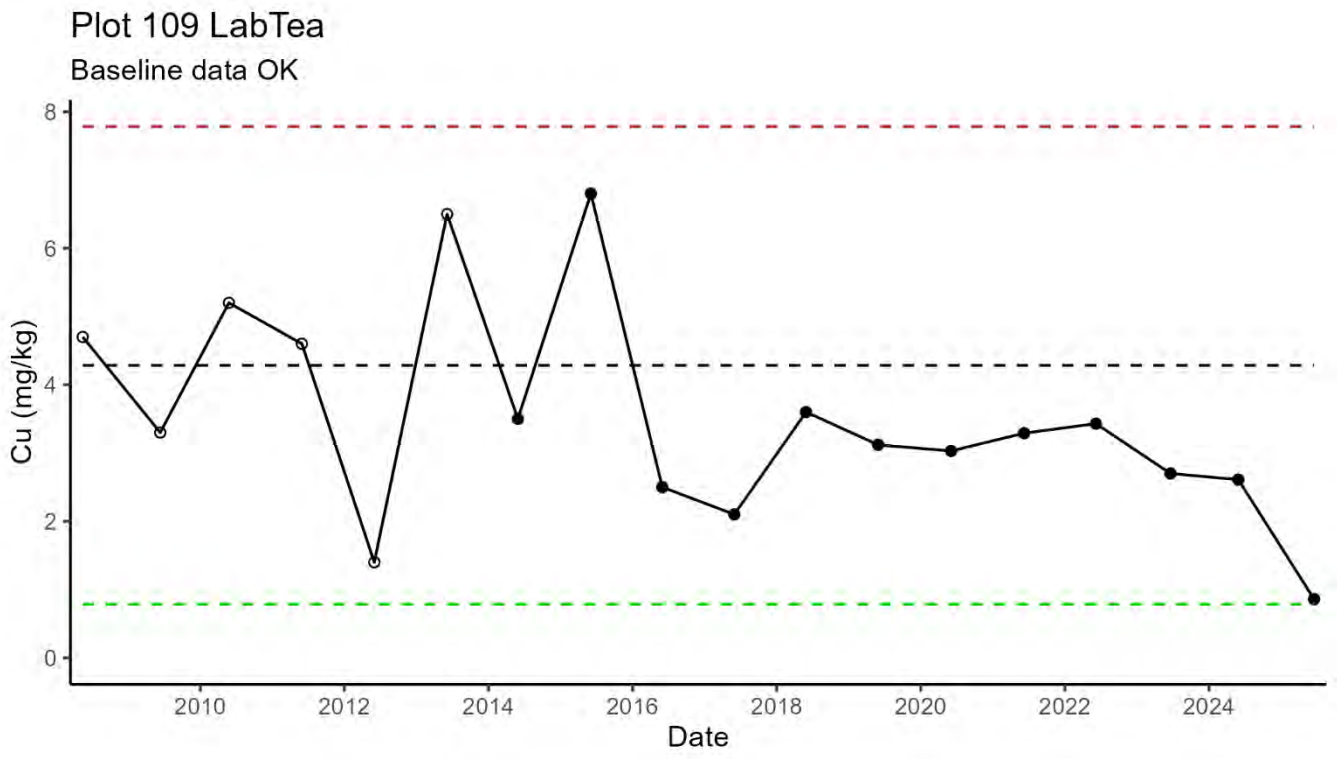
Chromium

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Figure F.34





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Copper

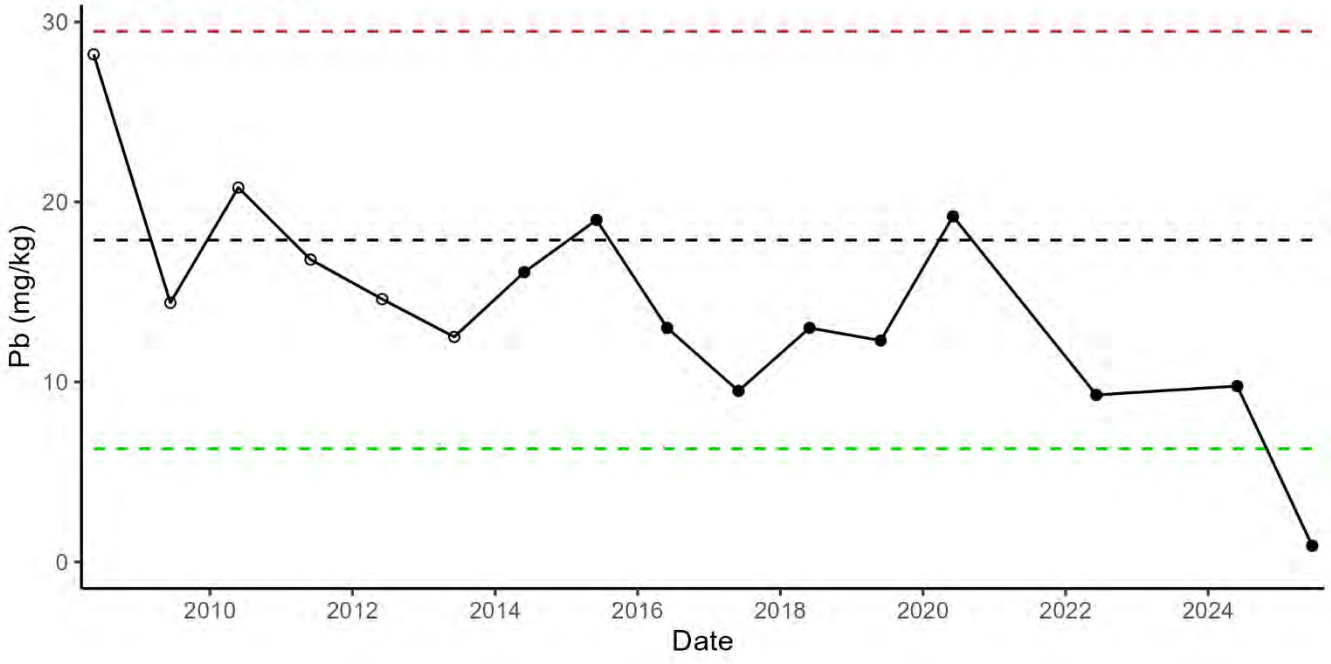
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Figure F.35

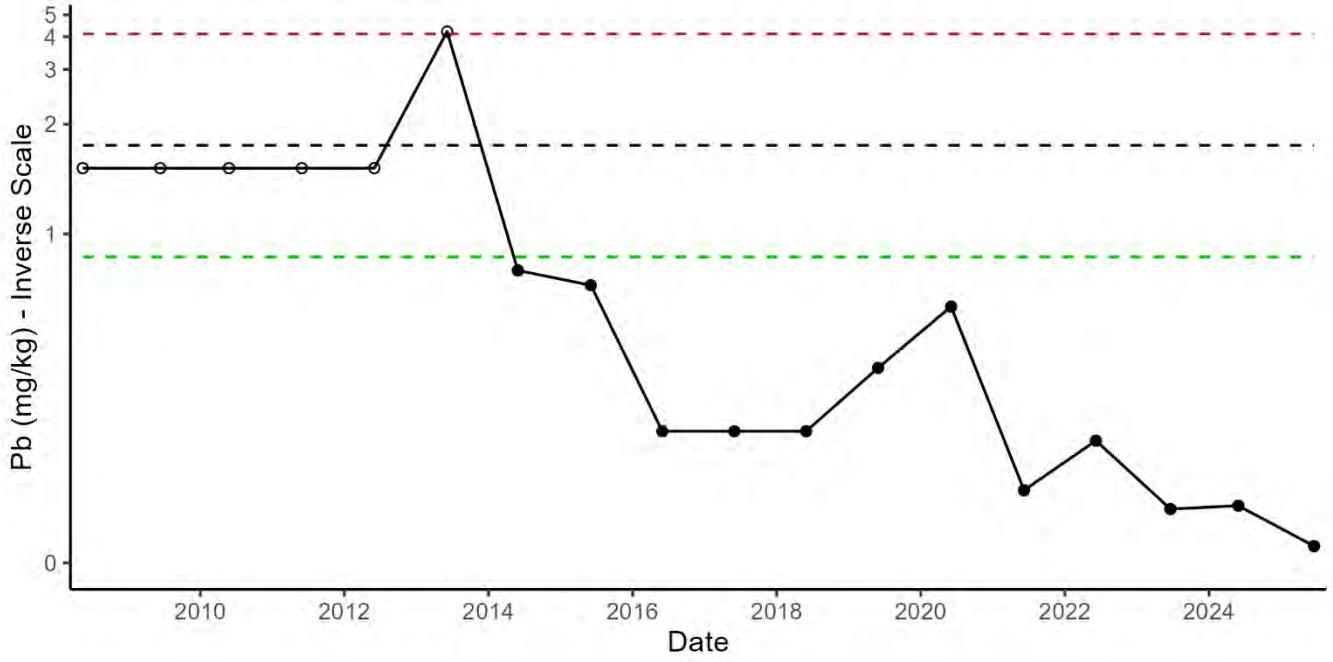
Plot 109 Moss

Baseline data OK



Plot 109 LabTea

Baseline data non-normal



- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre

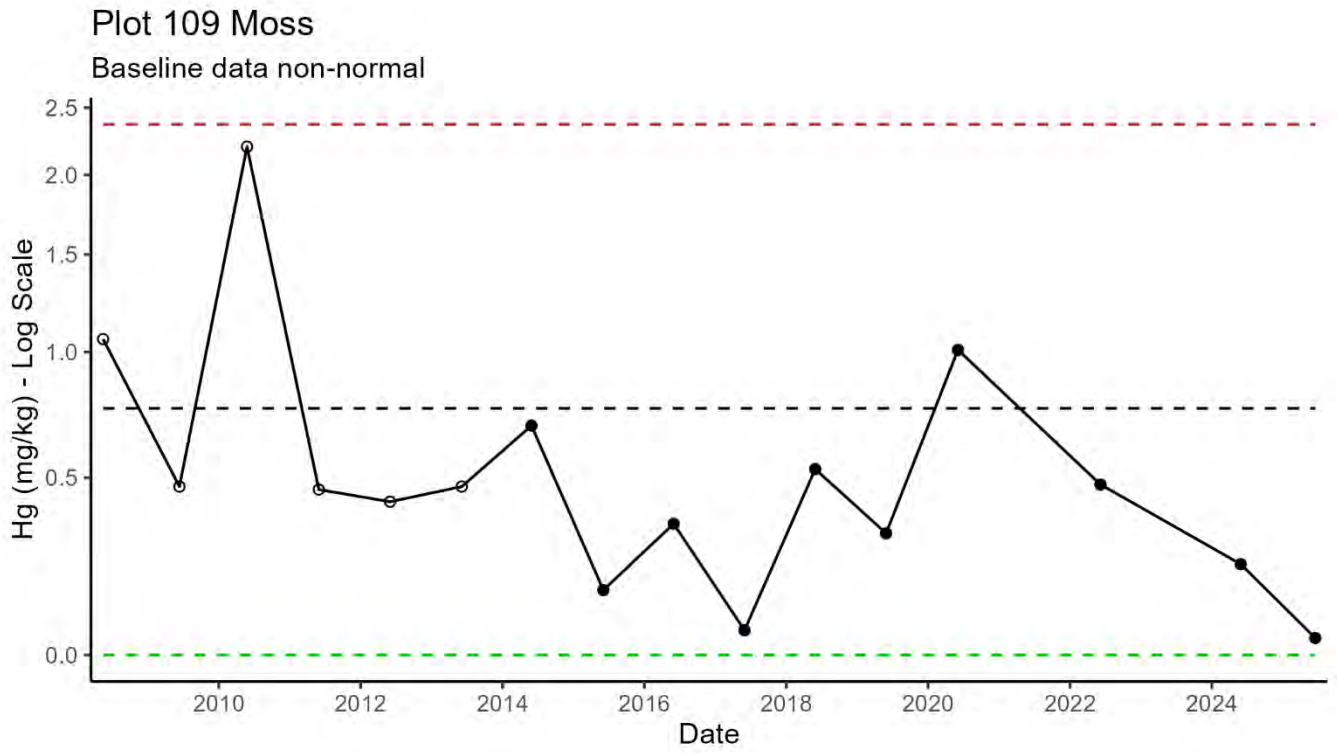
Soil and Vegetation Monitoring Program

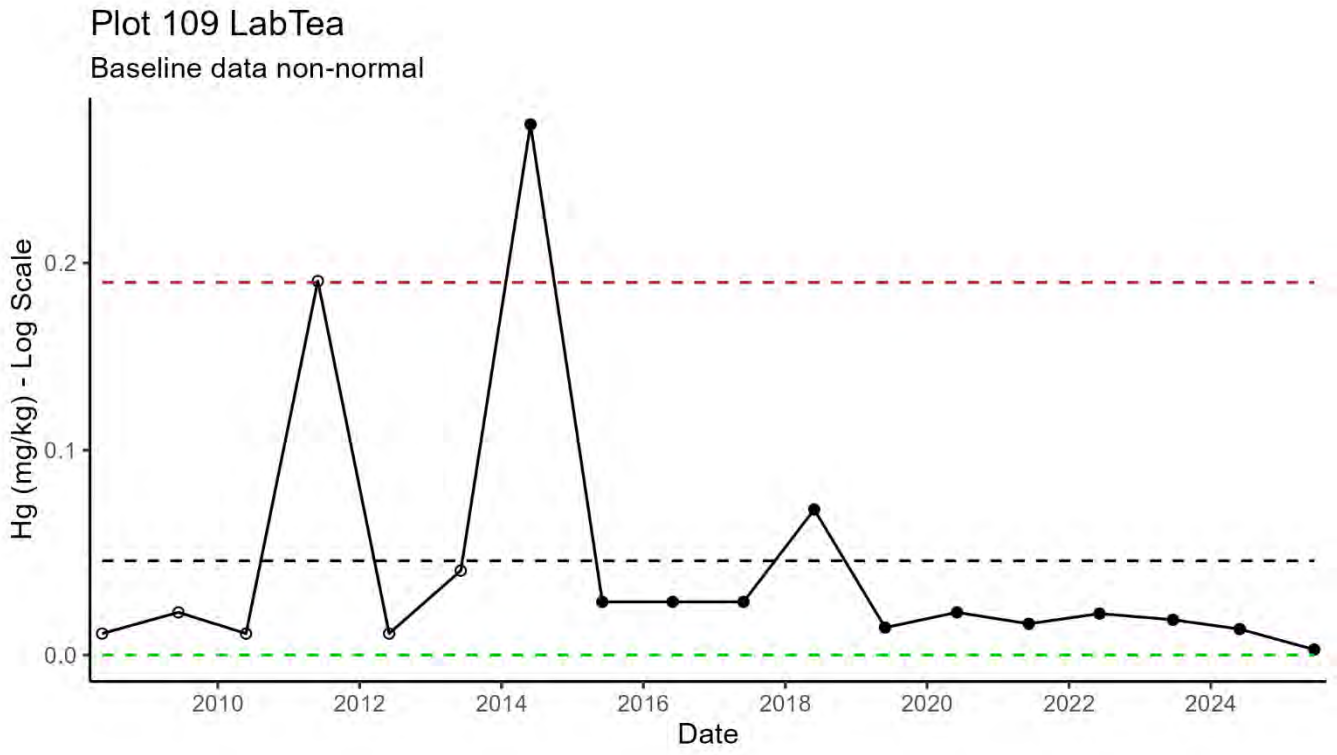
Lead

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Figure **F.36**





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

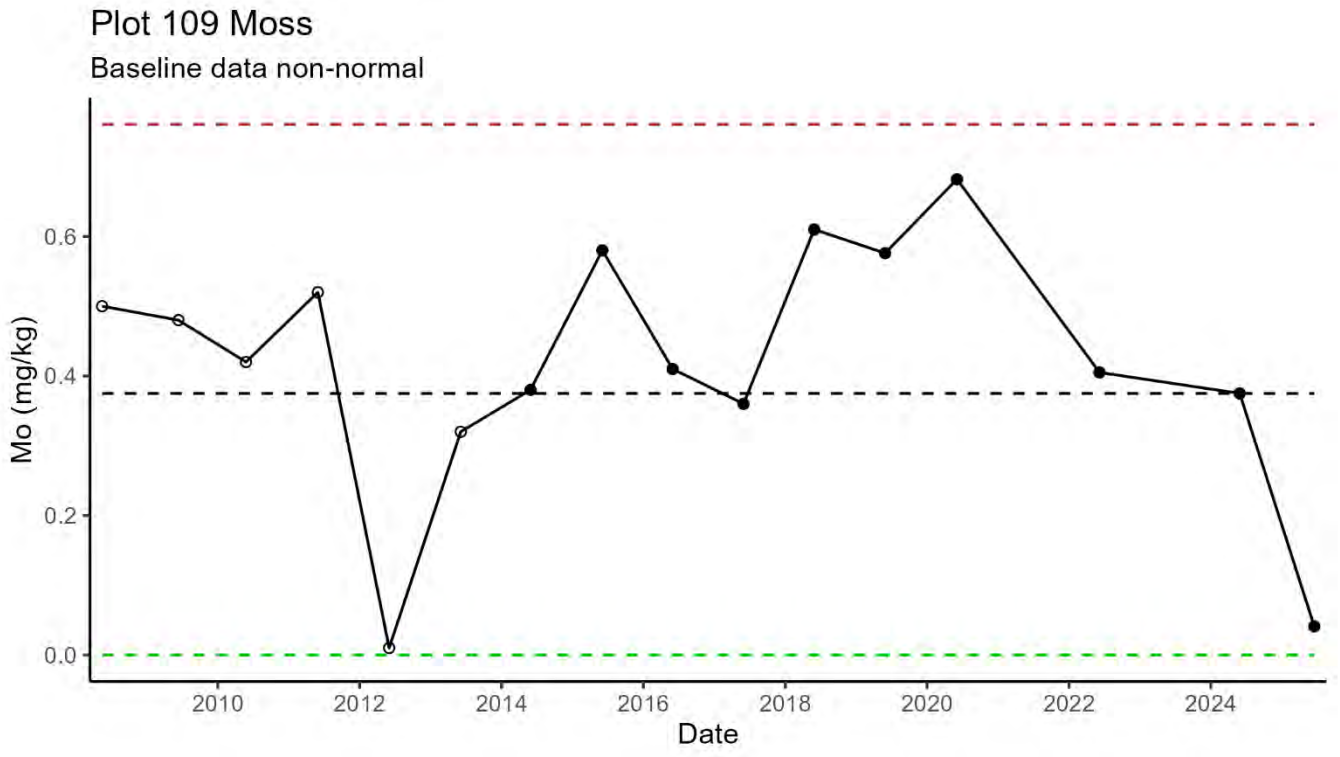
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

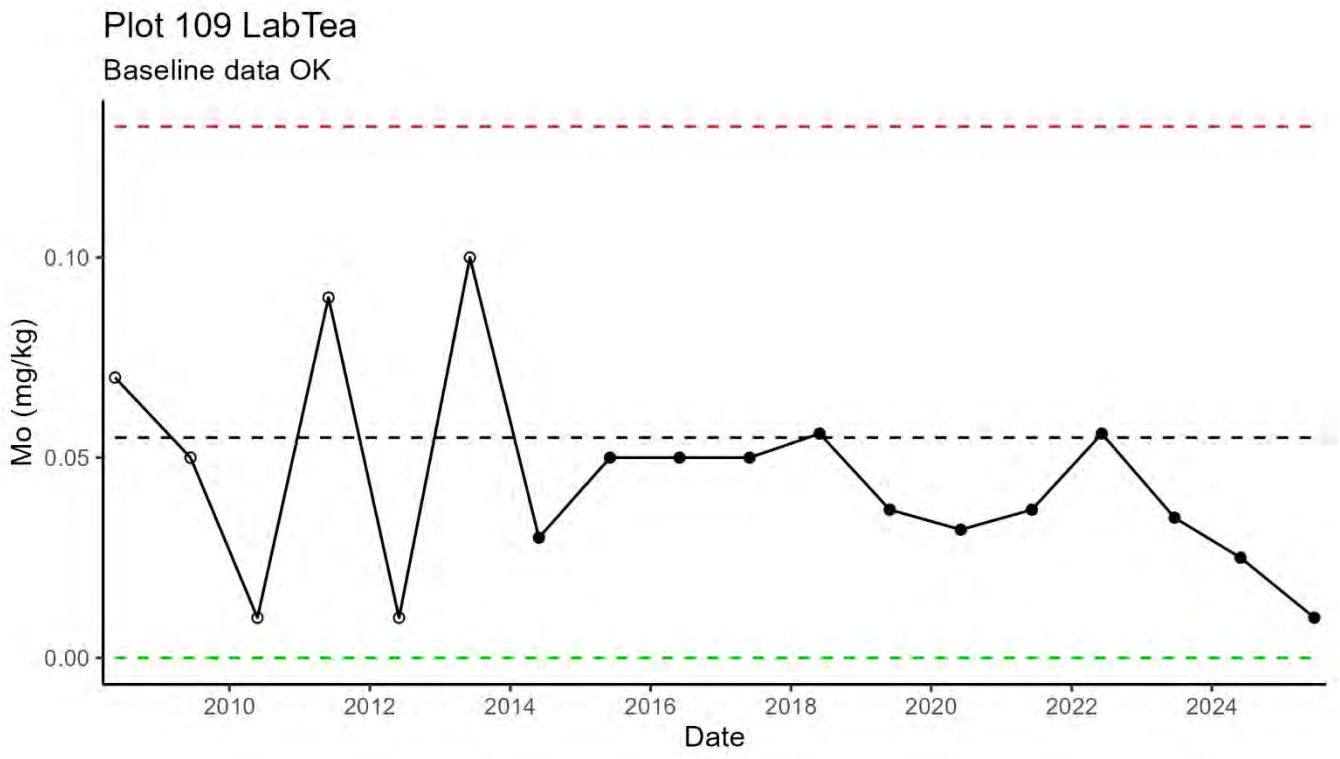
Mercury

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Figure **F.37**





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

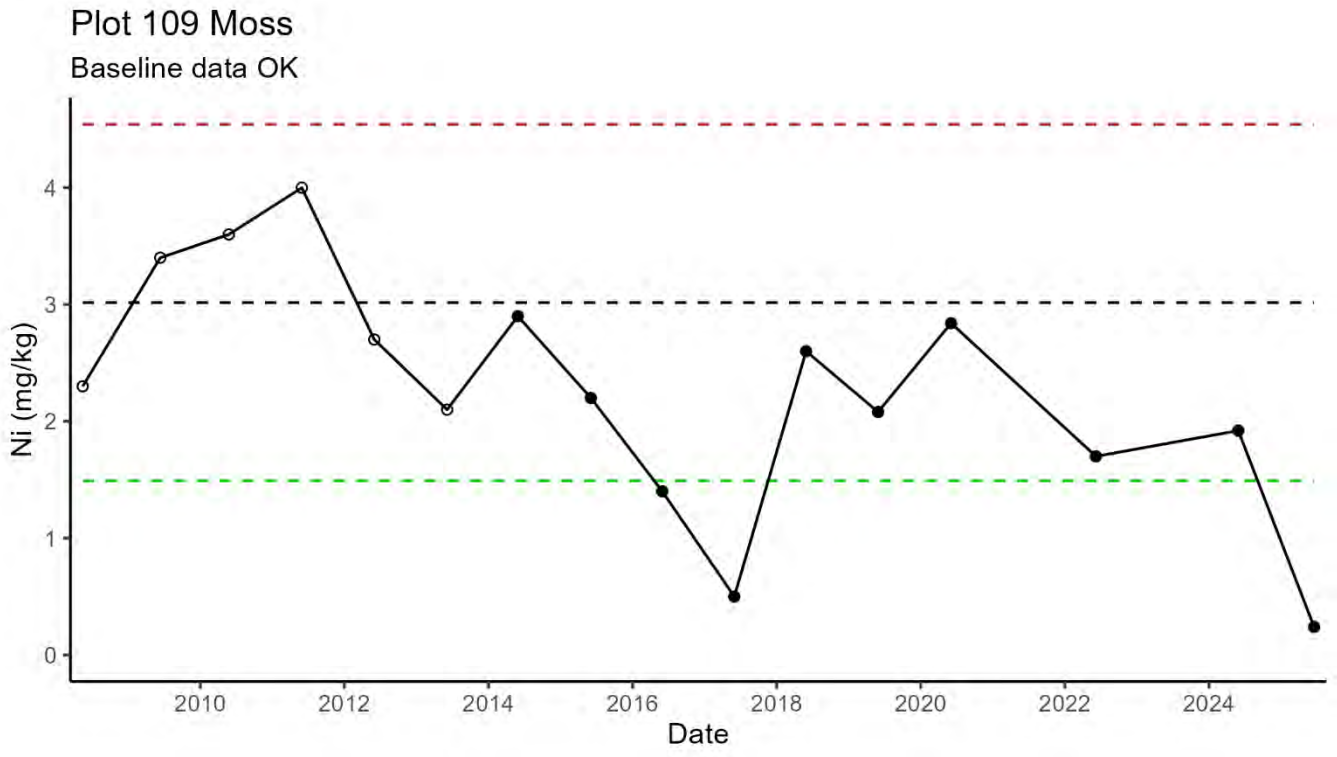
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

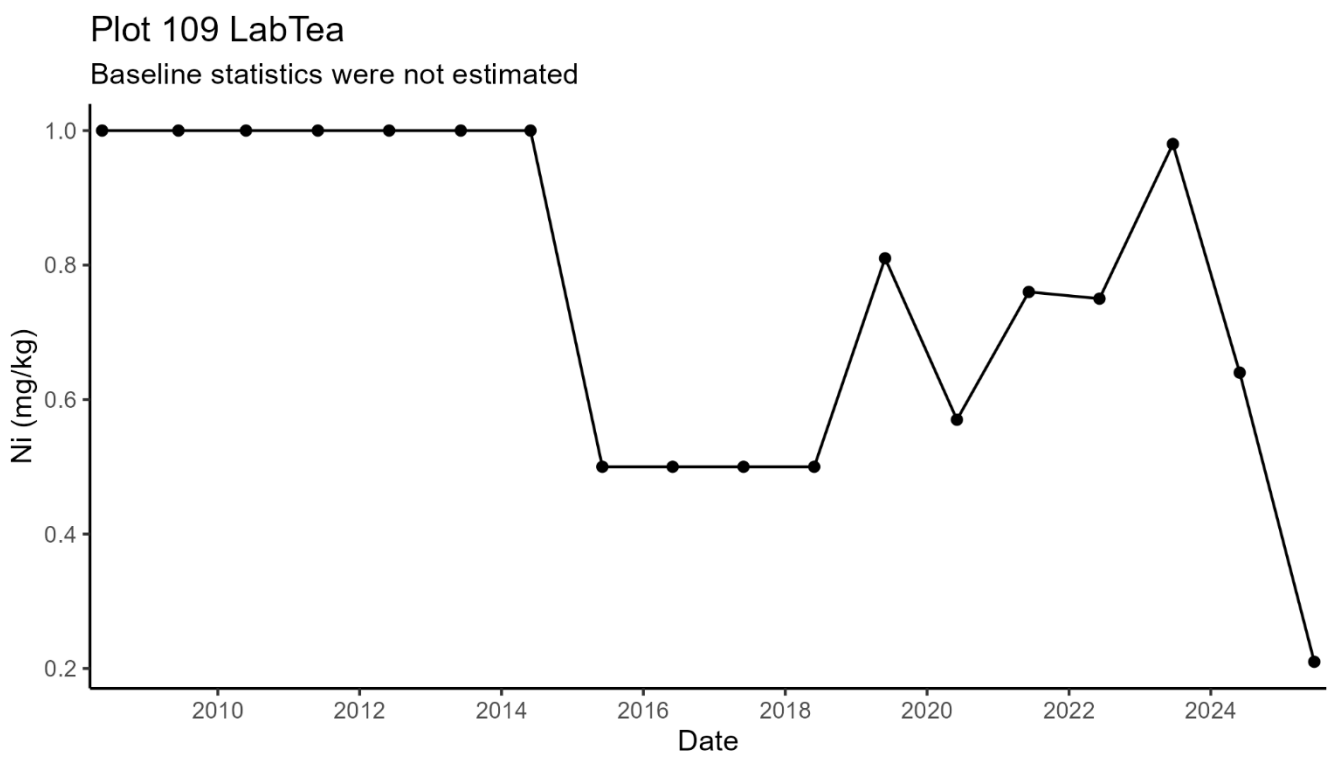
Molybdenum

Date:	Project:	Technical:	Reviewer:	Drawn:
March 4, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure F.38





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Nickel

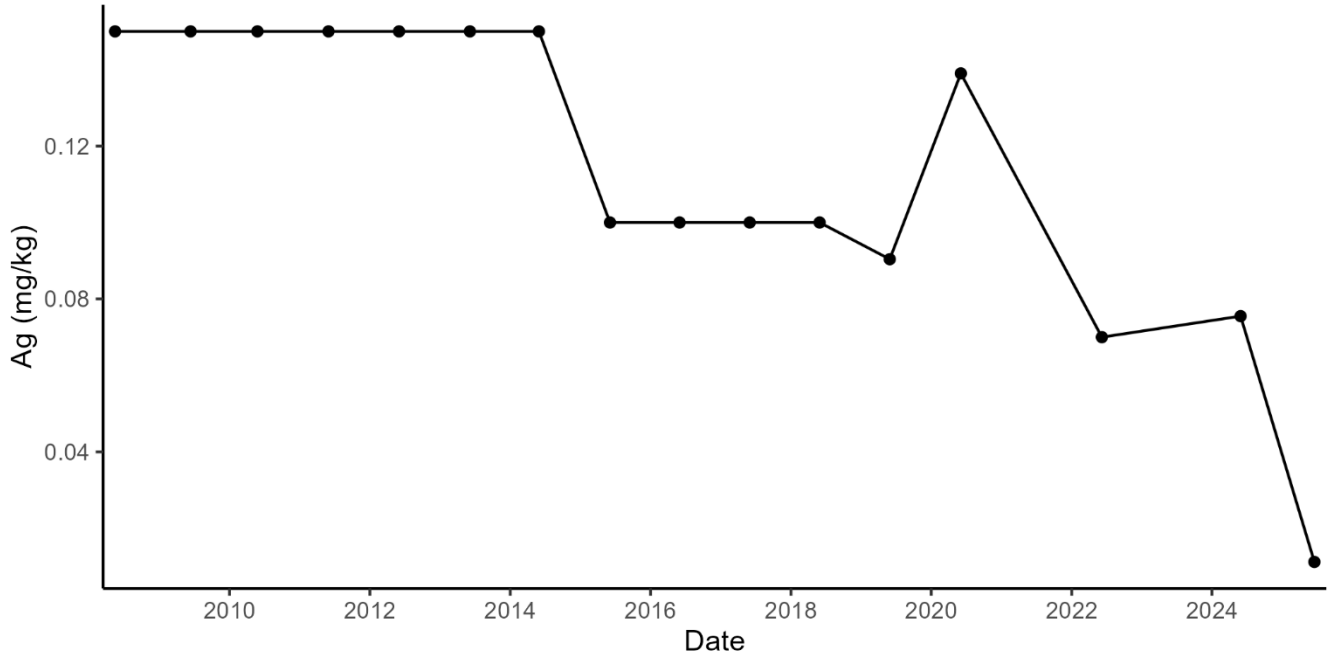
Date:	Project:	Technical:	Reviewer:	Drawn:
March 4, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure F.39

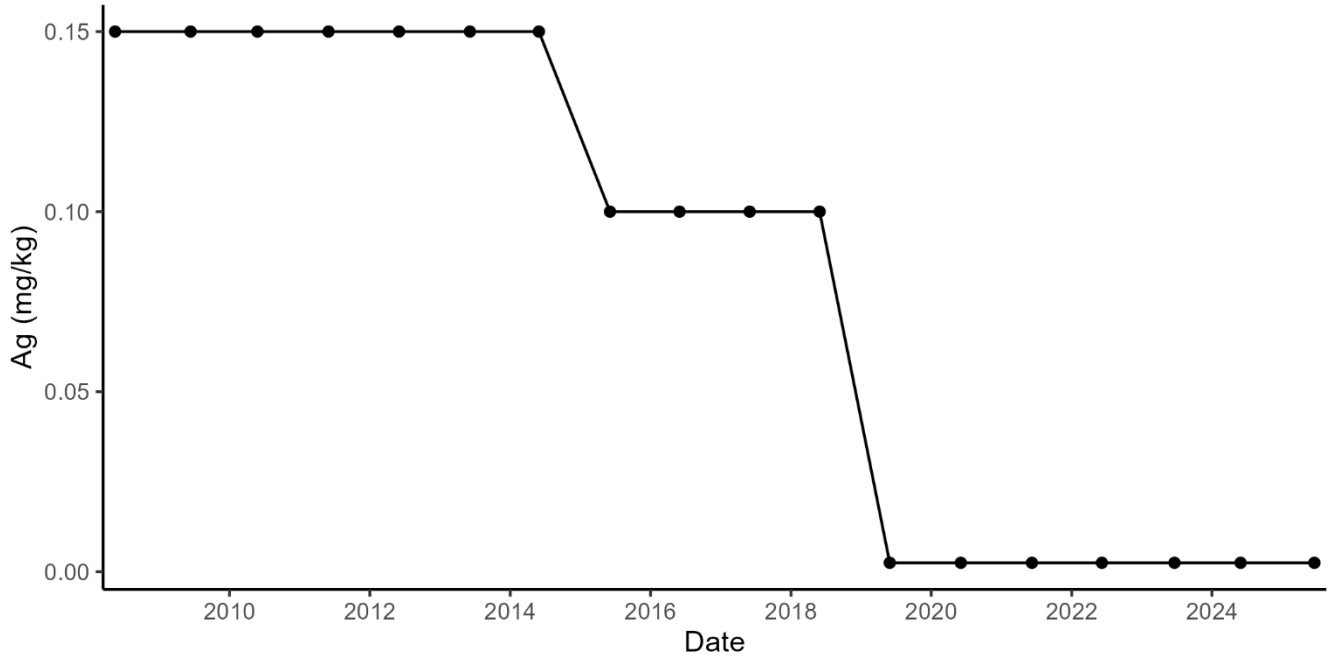
Plot 109 Moss

Baseline statistics were not estimated



Plot 109 LabTea

Baseline statistics were not estimated



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Silver

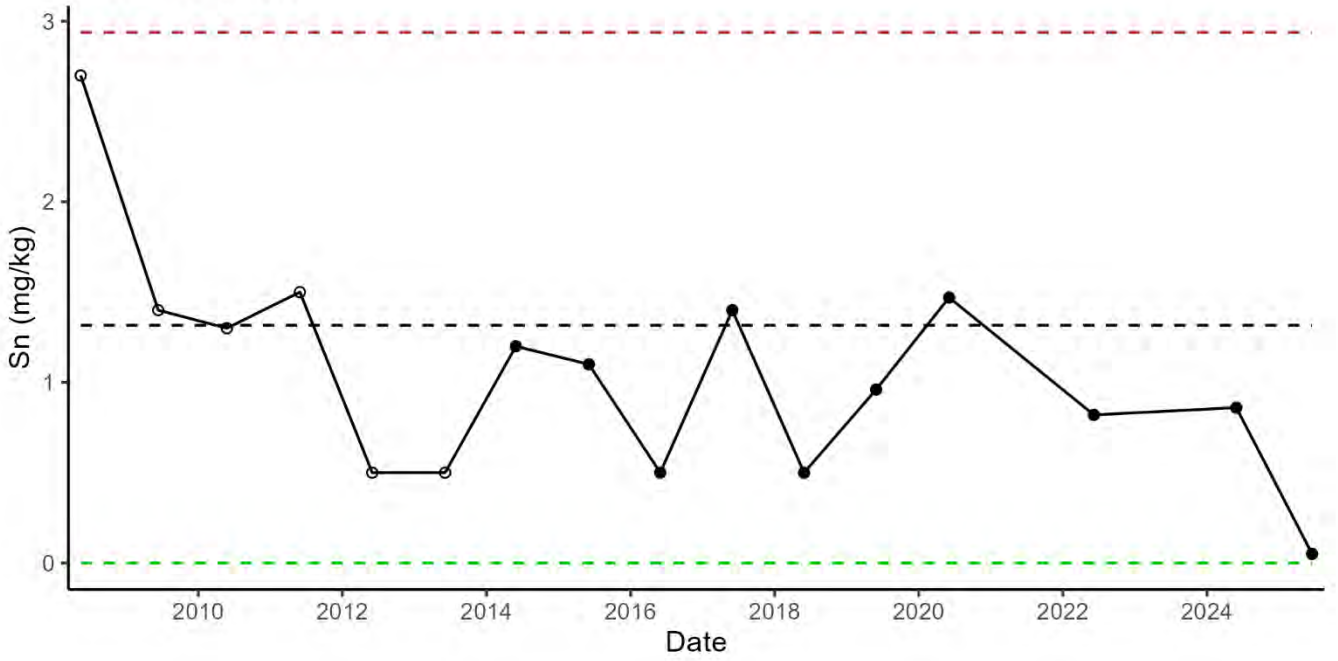
Date:	Project:	Technical:	Reviewer:	Drawn:
March 4, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure **F.40**

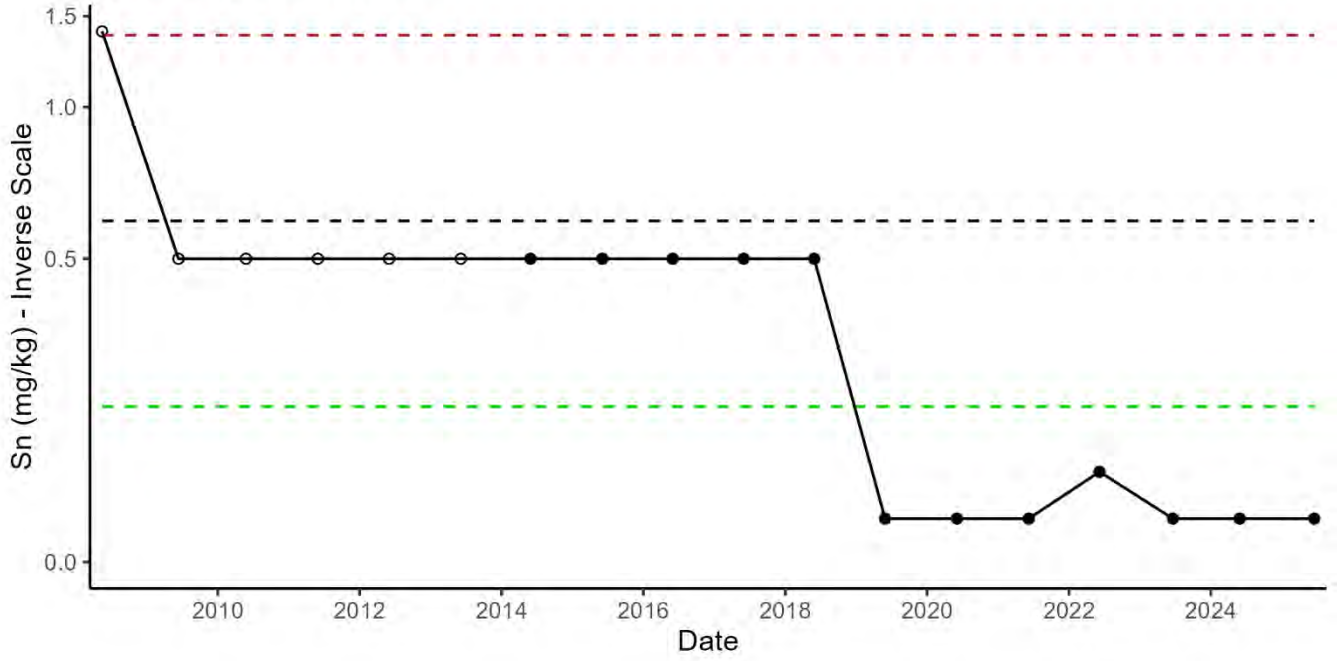
Plot 109 Moss

Baseline data OK



Plot 109 LabTea

Baseline data non-normal



- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre

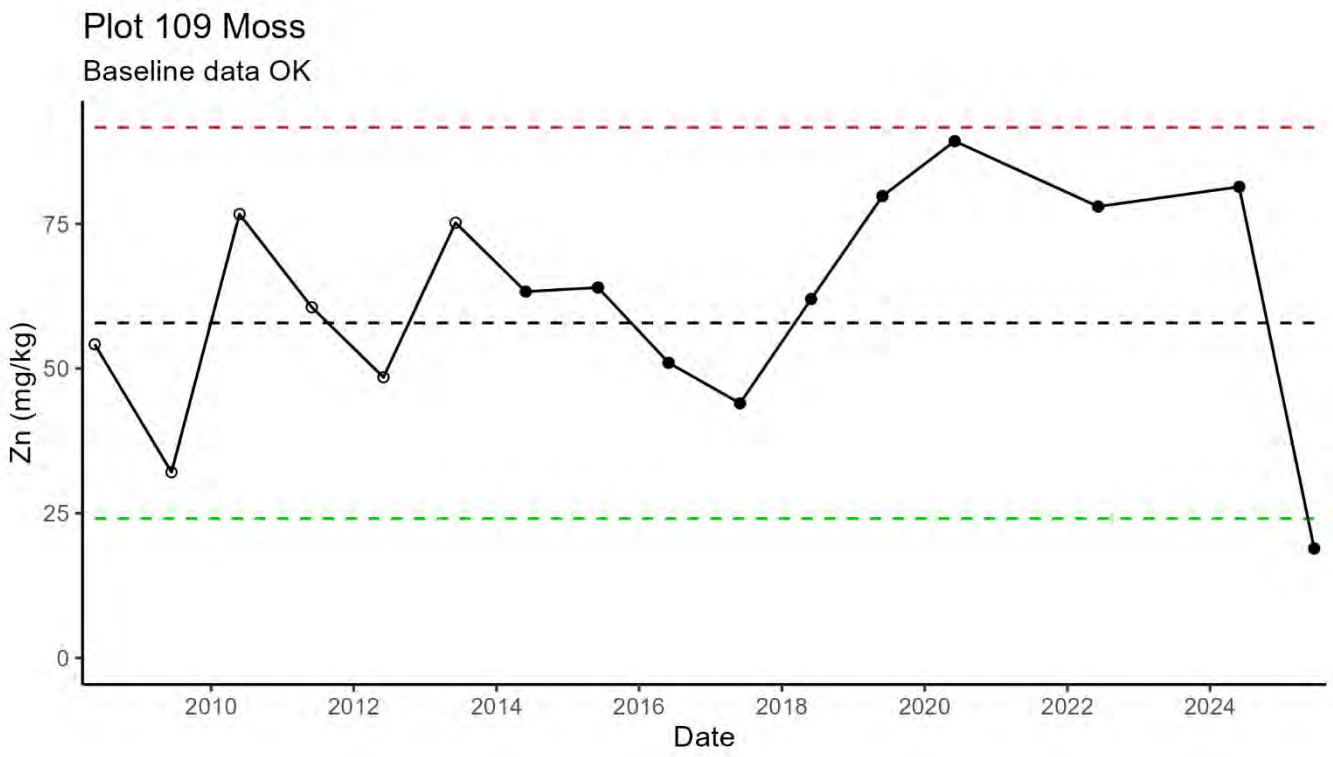
Soil and Vegetation Monitoring Program

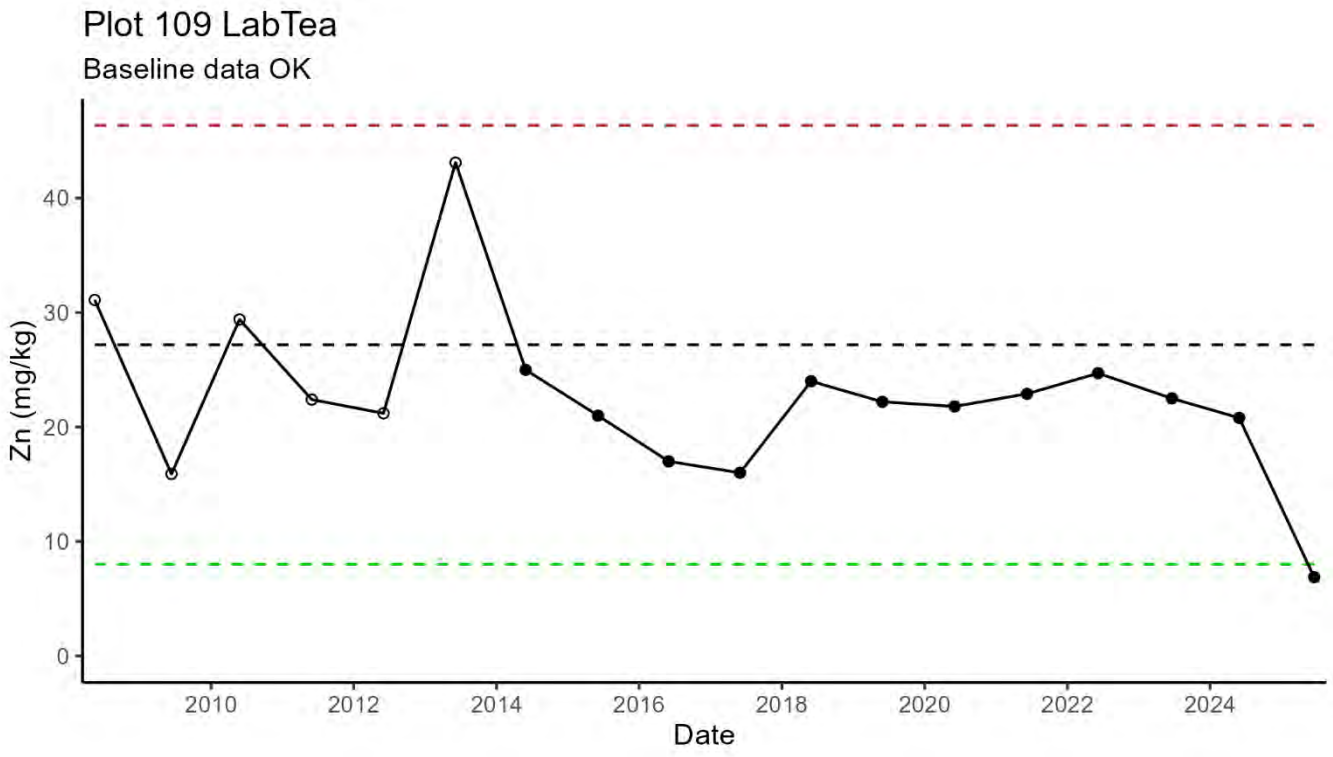
Tin

Date:	Project:	Technical:	Reviewer:	Drawn:
March 4, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure **F.41**





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

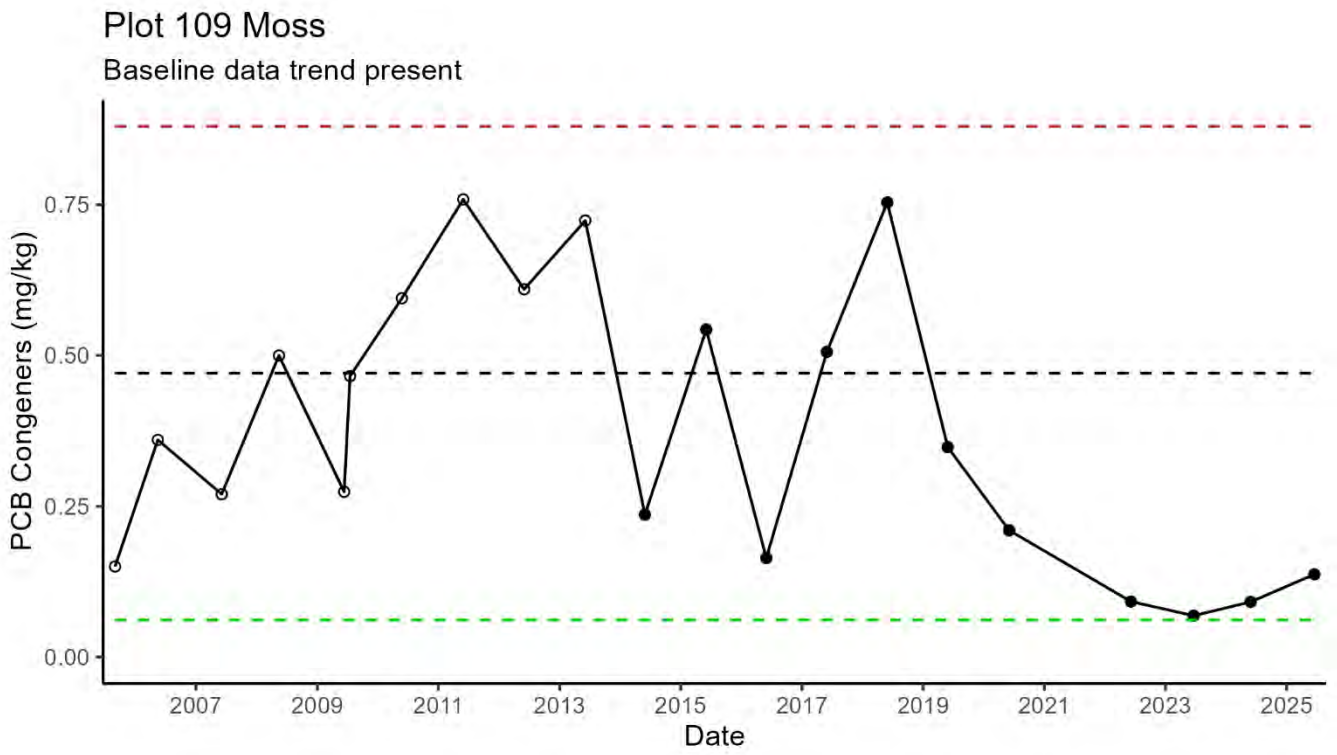
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

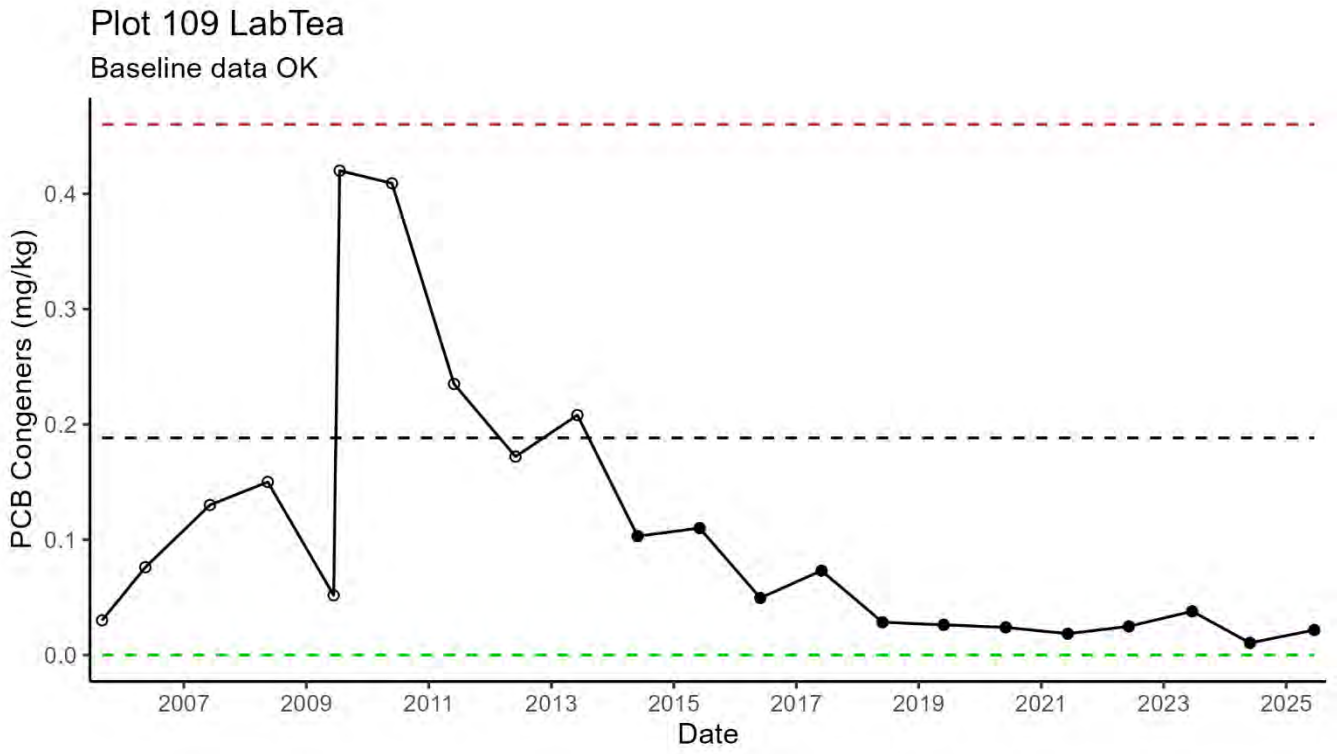
Zinc

Date:	Project:	Technical:	Reviewer:	Drawn:
March 4, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure **F.42**





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

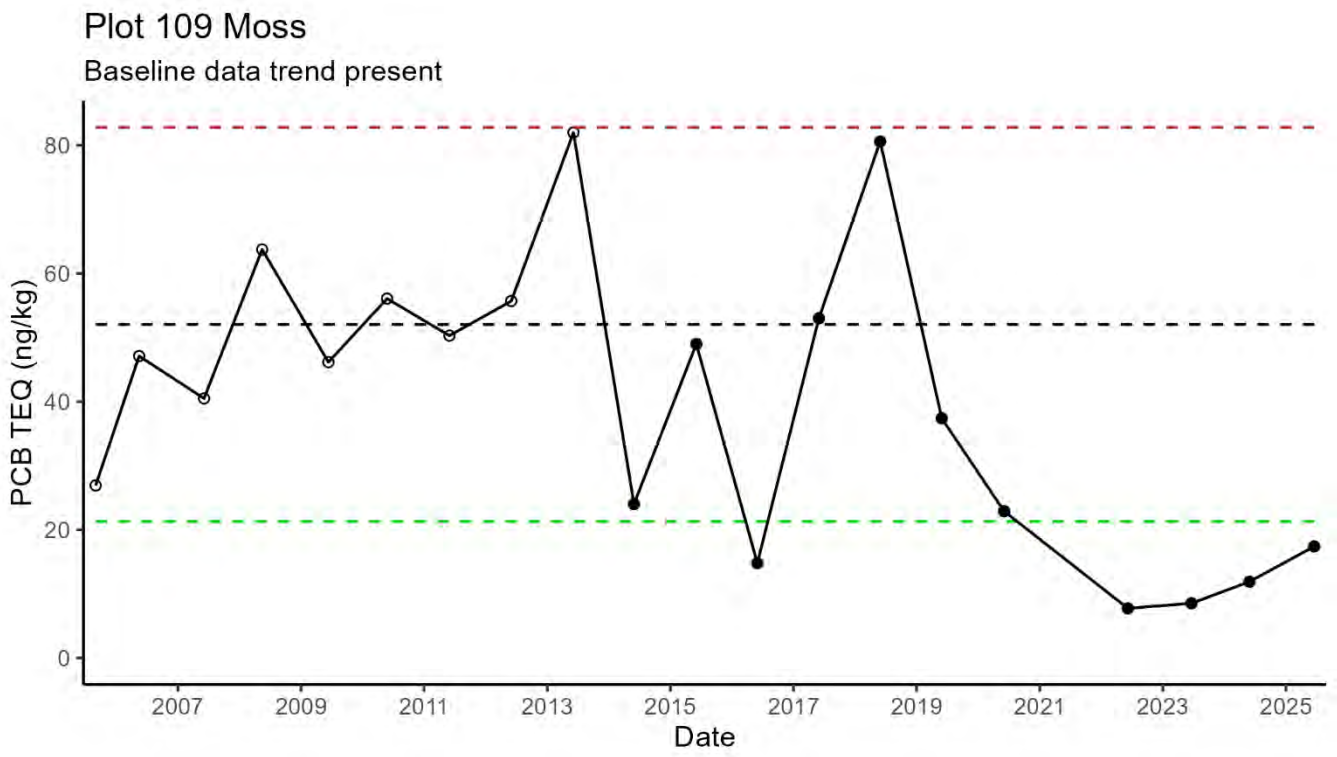
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

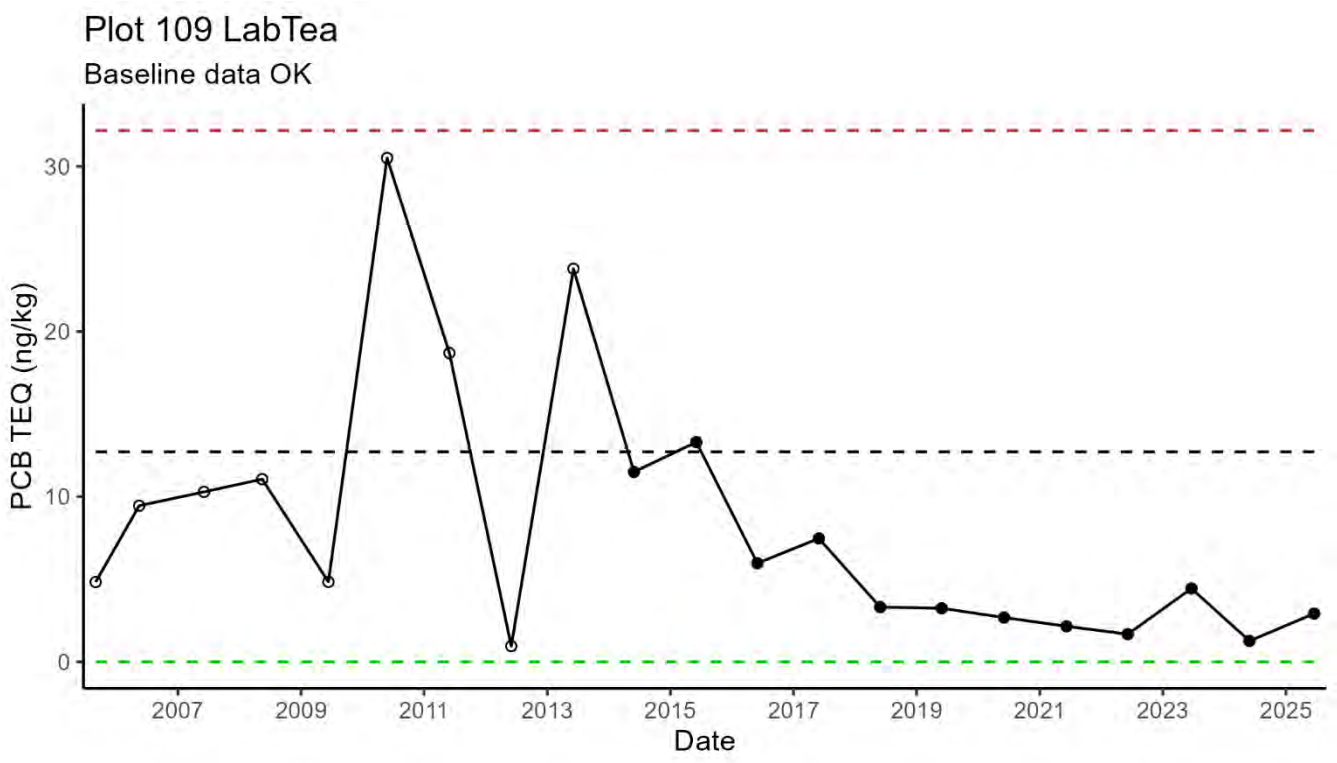
PCB Congeners

Date:	Project:	Technical:	Reviewer:	Drawn:
March 4, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure F.43





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

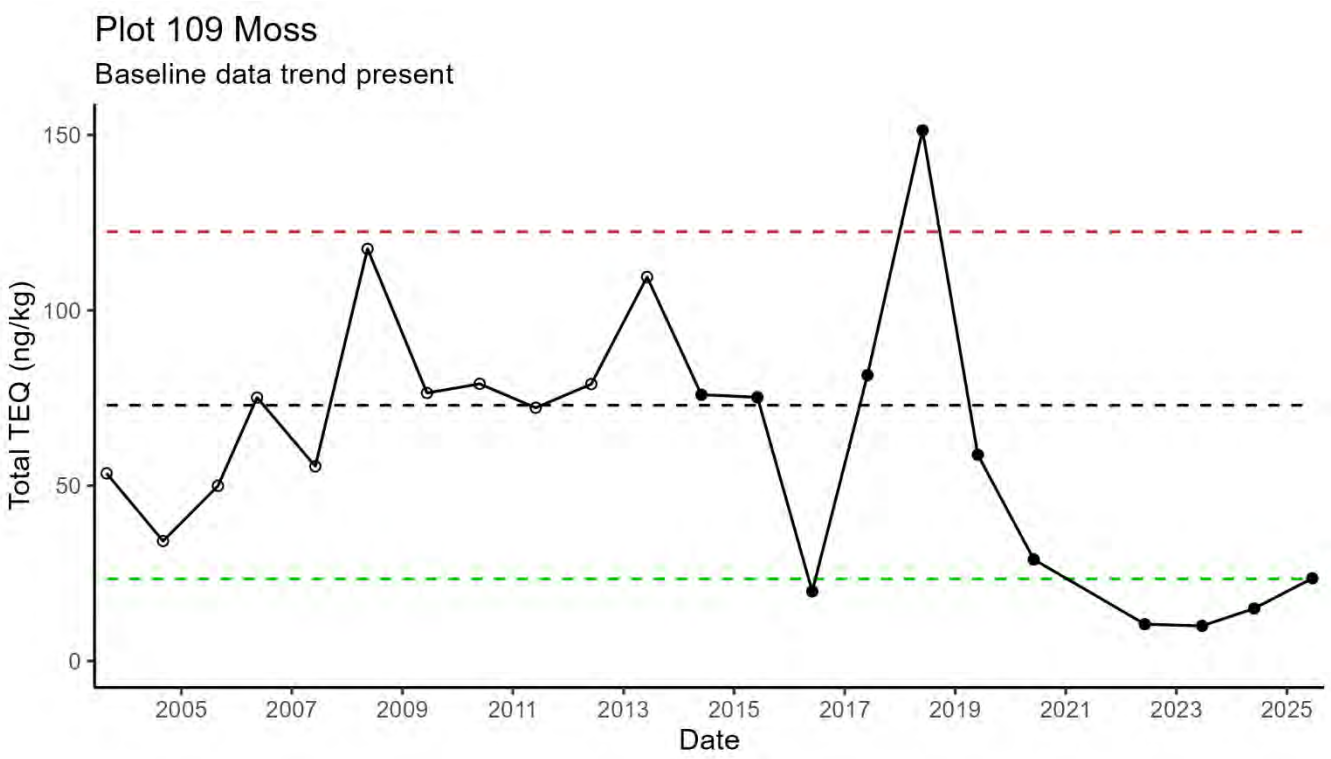
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

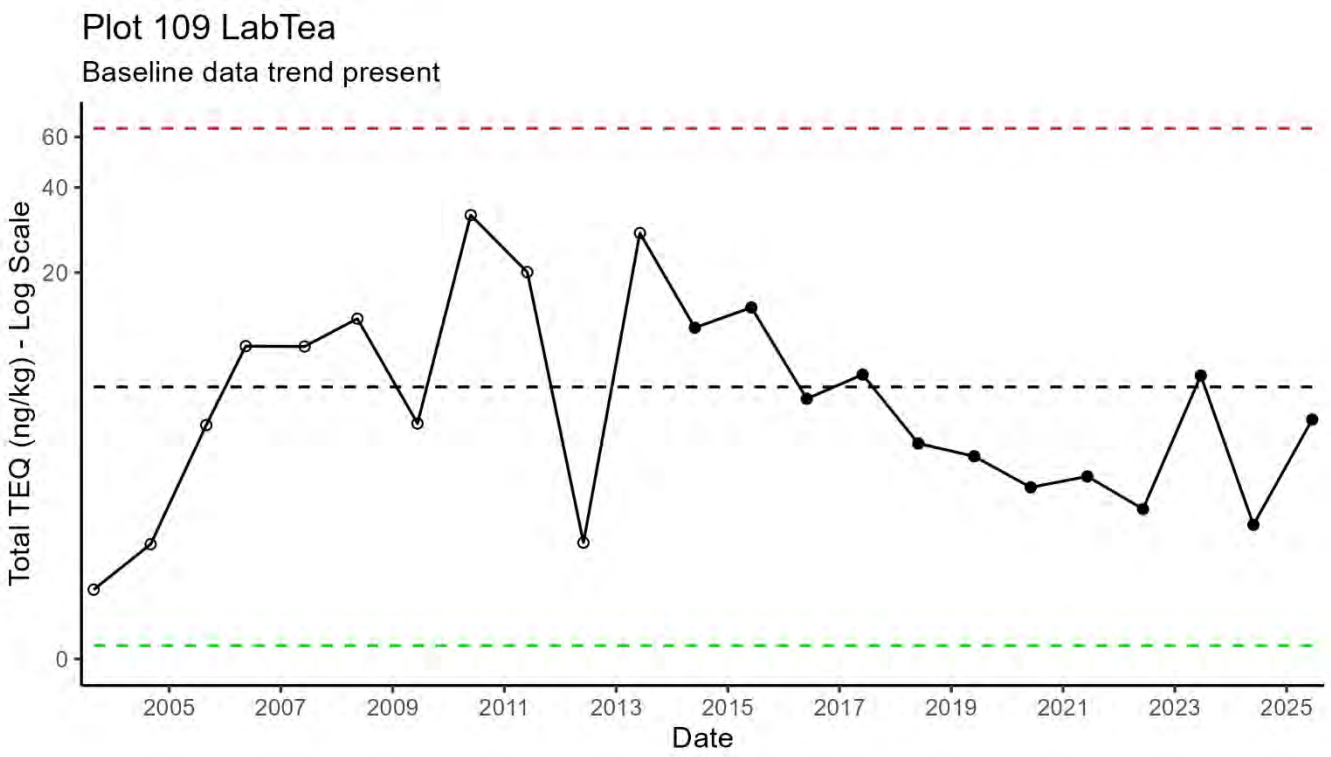
PCB TEQ

Date:	Project:	Technical:	Reviewer:	Drawn:
March 4, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure **F.44**





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

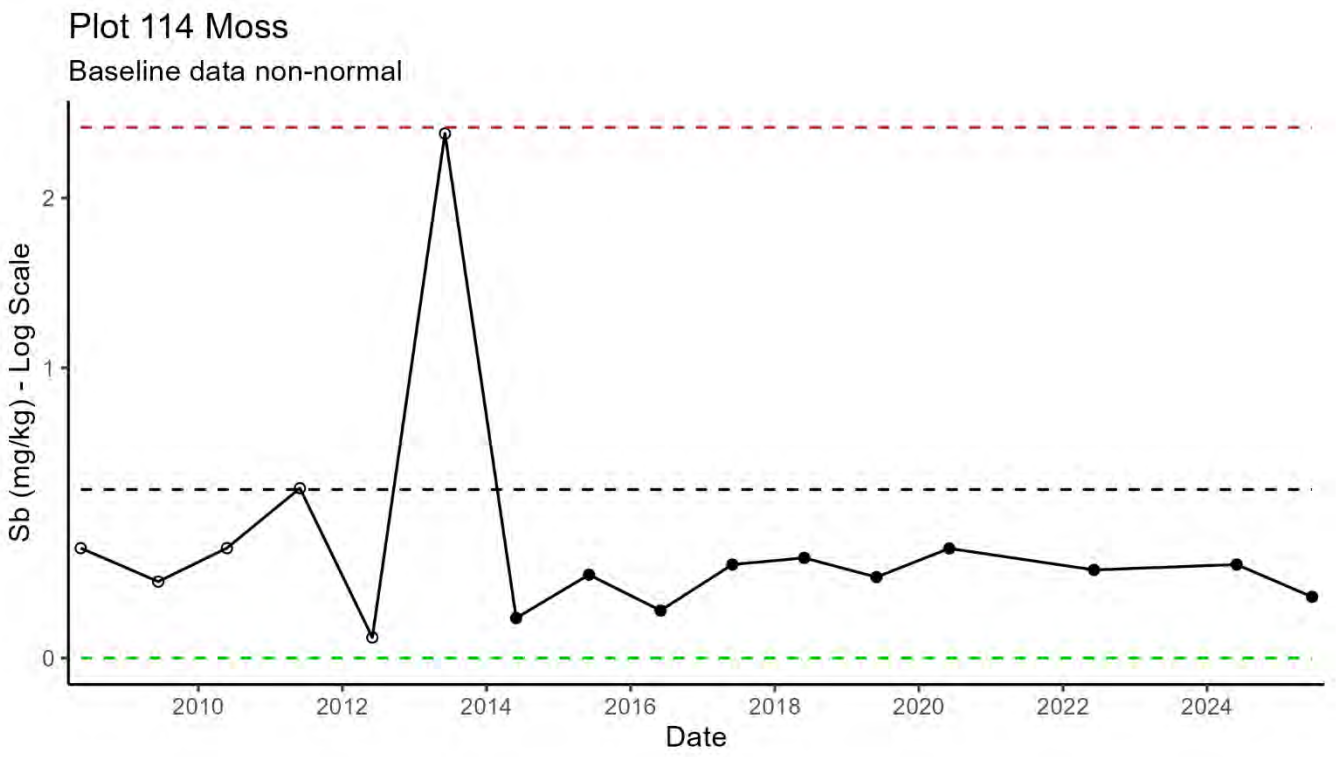
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

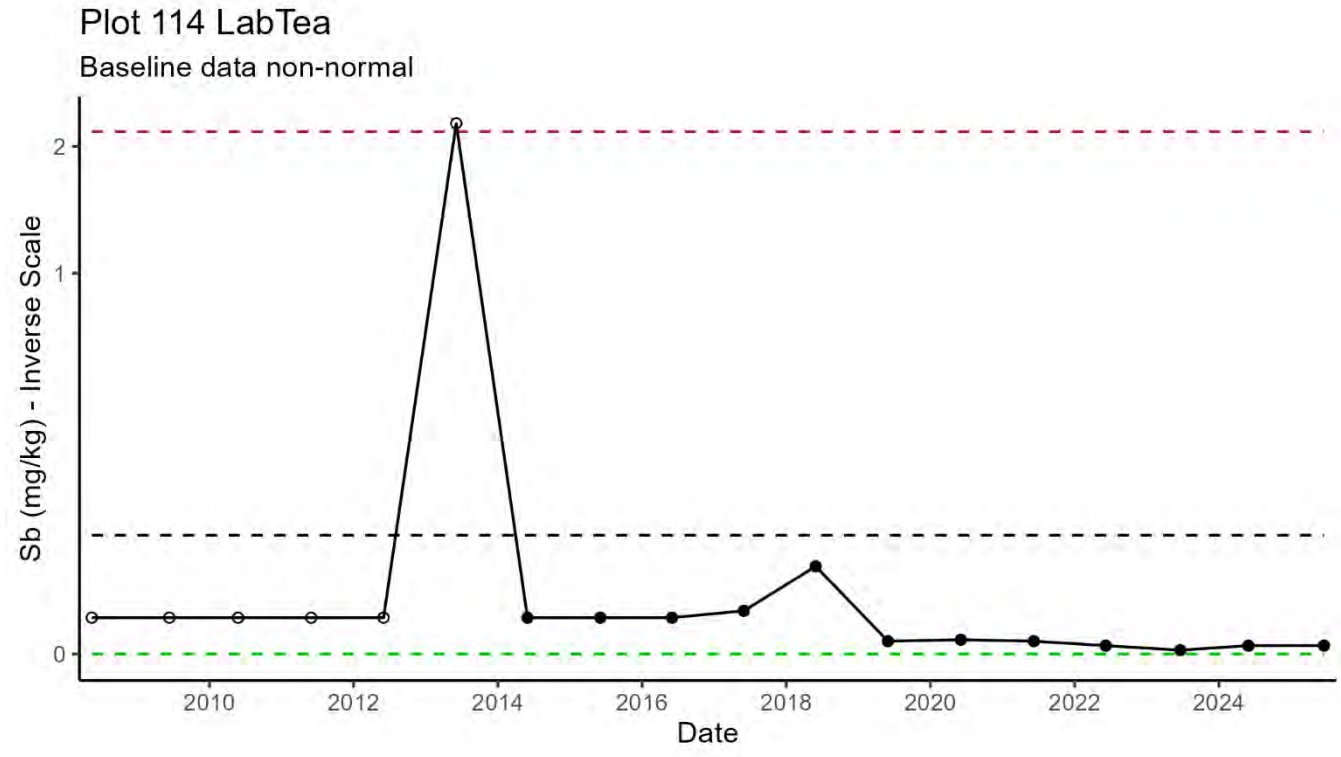
Total TEQ

Date:	Project:	Technical:	Reviewer:	Drawn:
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Figure **F.45**





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

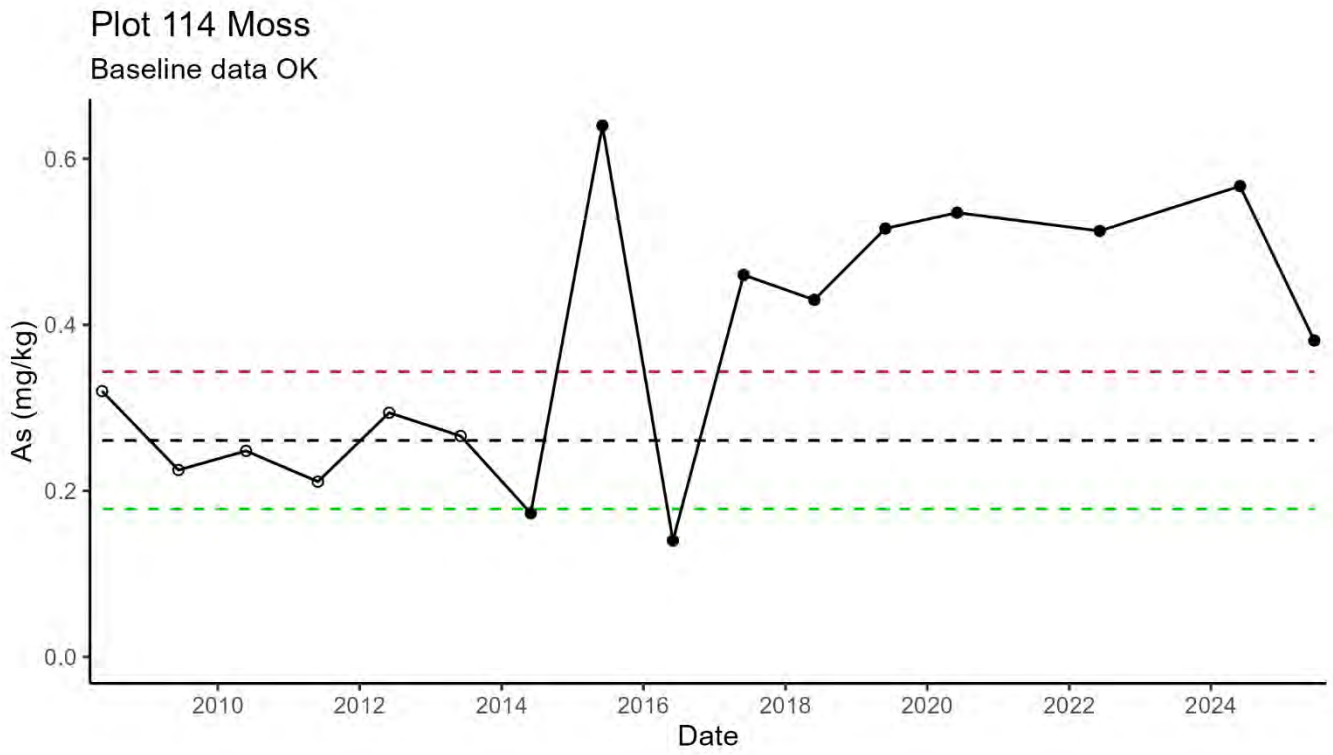
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

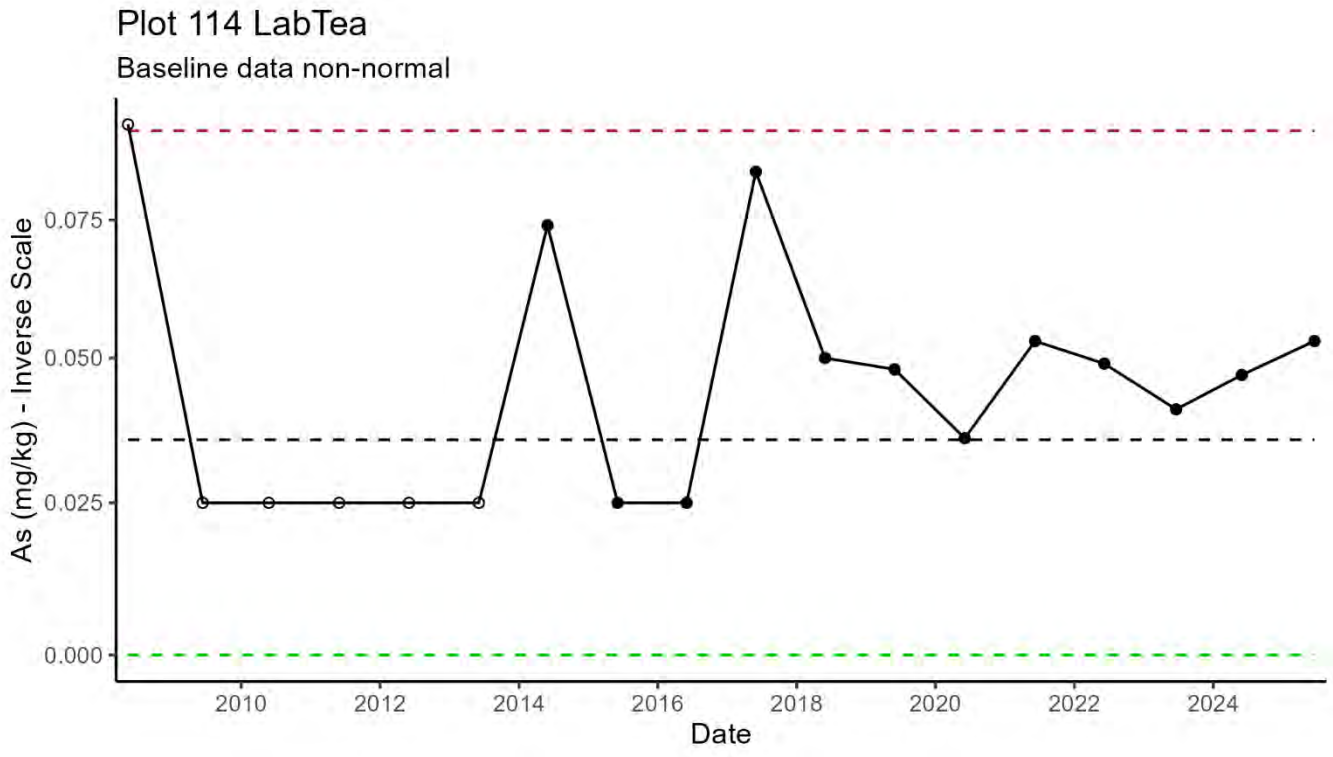
Antimony

Date:	Project:	Technical:	Reviewer:	Drawn:
March 4, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure **F.46**





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

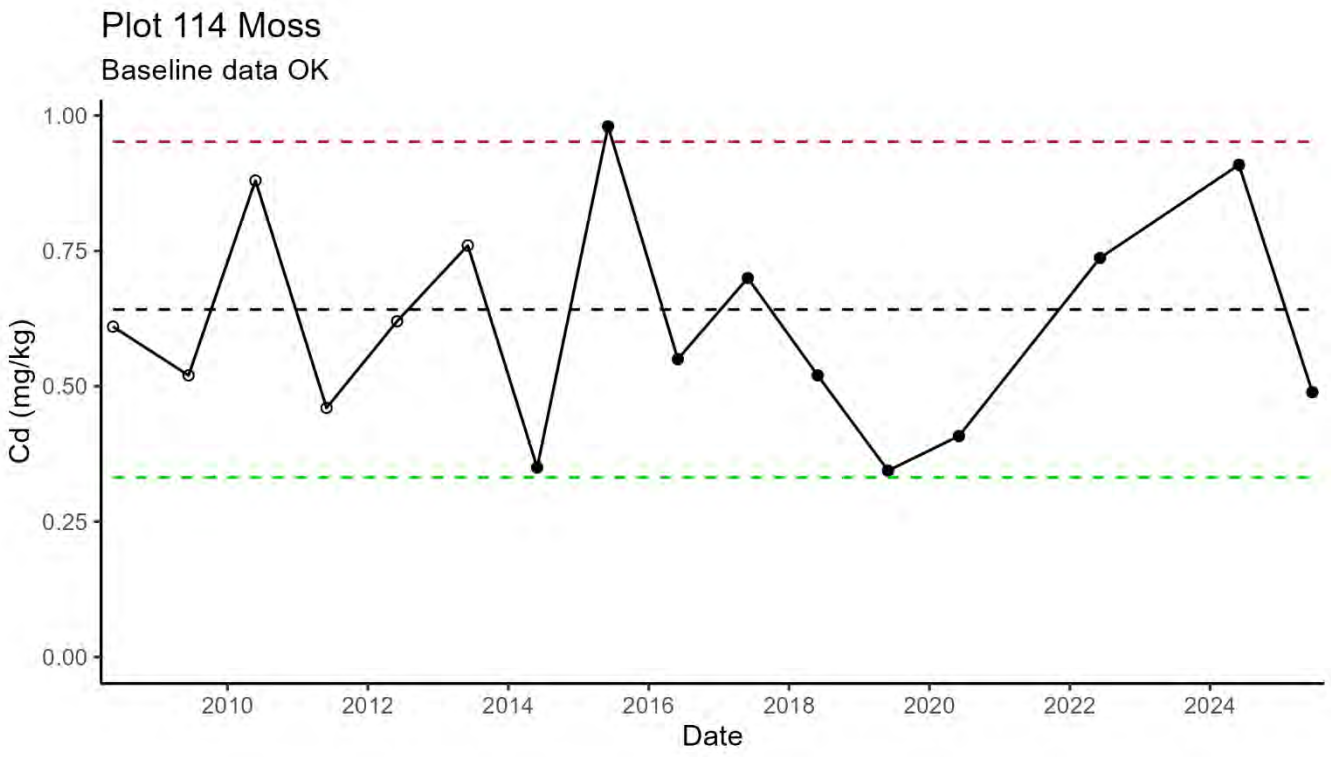
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

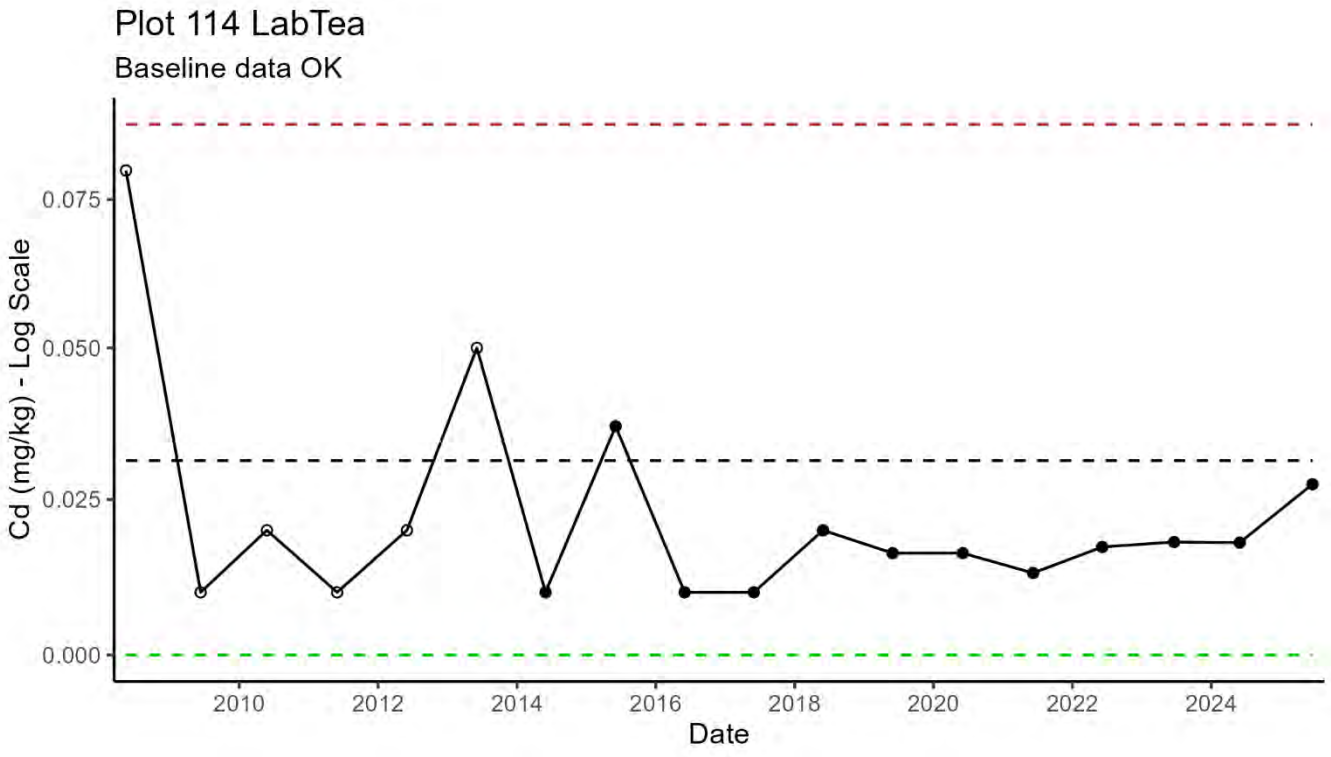
Arsenic

Date:	Project:	Technical:	Reviewer:	Drawn:
March 4, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure F.47





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Cadmium

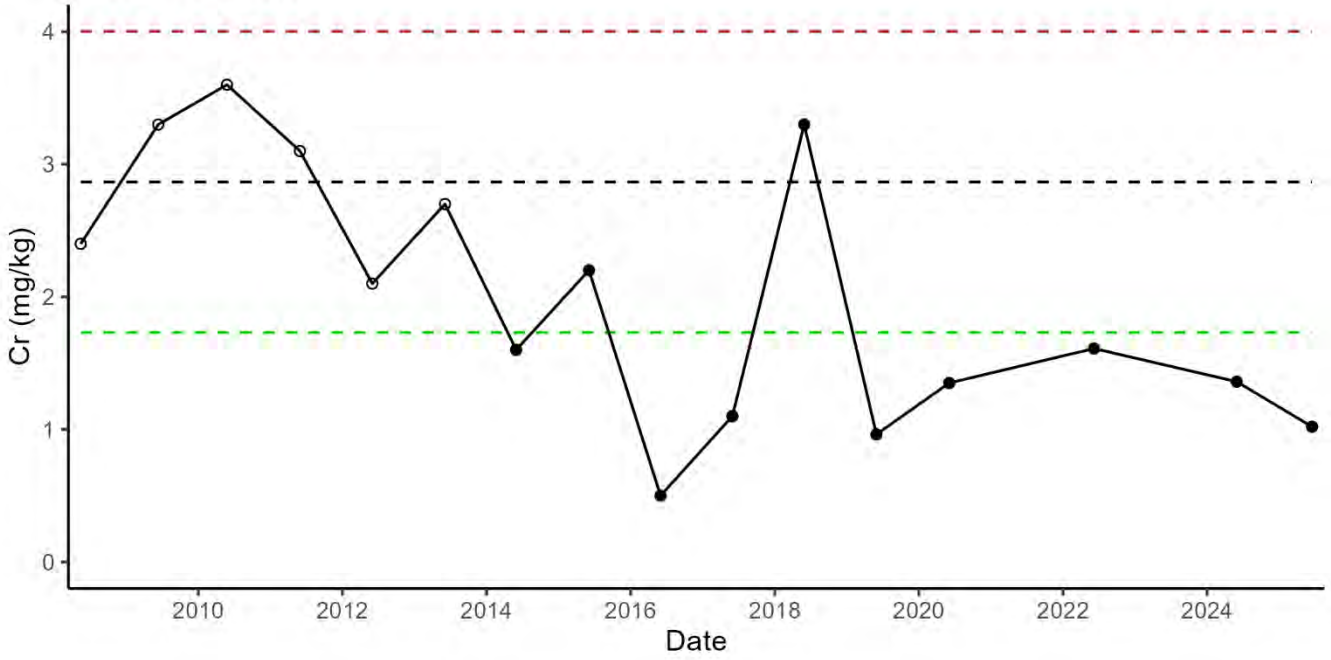
Date:	Project:	Technical:	Reviewer:	Drawn:
March 4, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure **F.48**

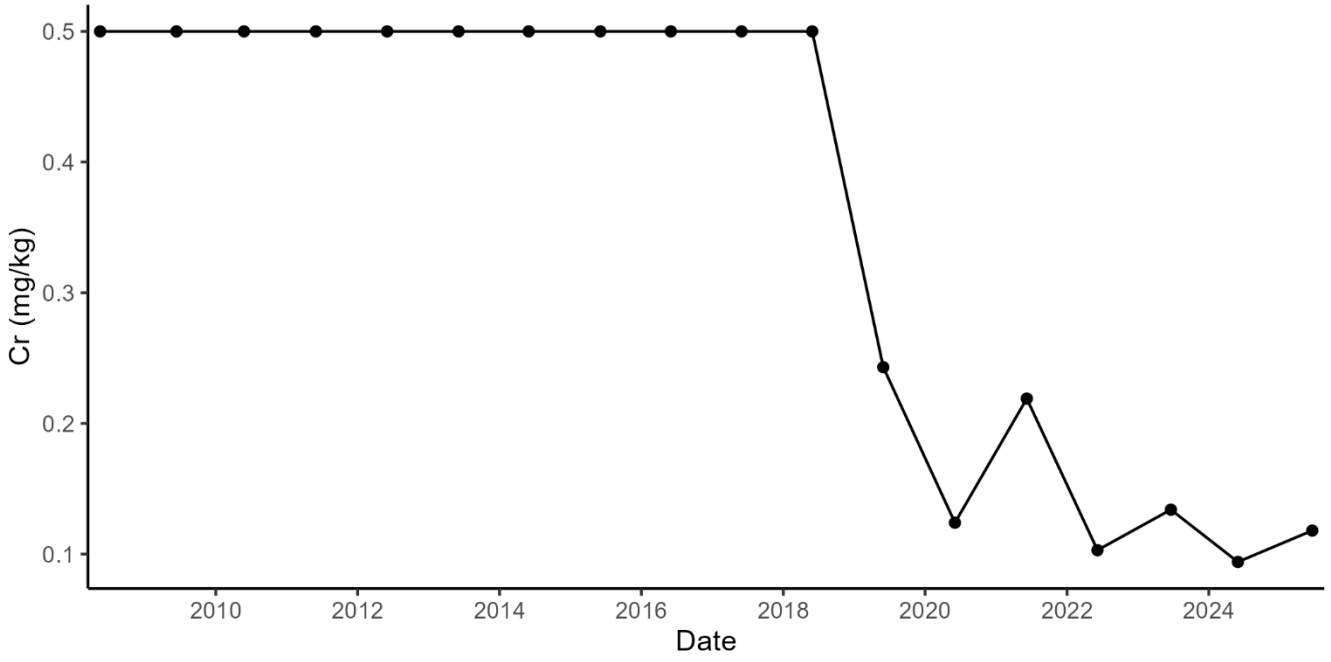
Plot 114 Moss

Baseline data OK



Plot 114 LabTea

Baseline statistics were not estimated



- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Chromium

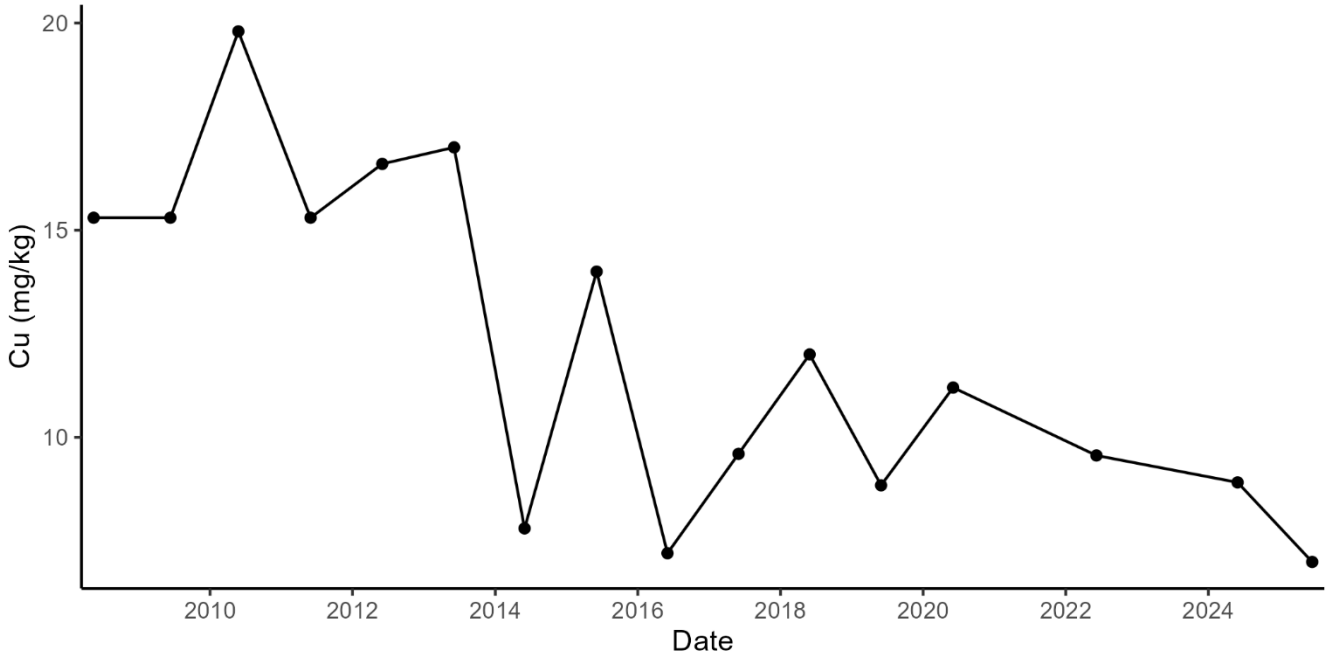
Date:	Project:	Technical:	Reviewer:	Drawn:
March 4, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure **F.49**

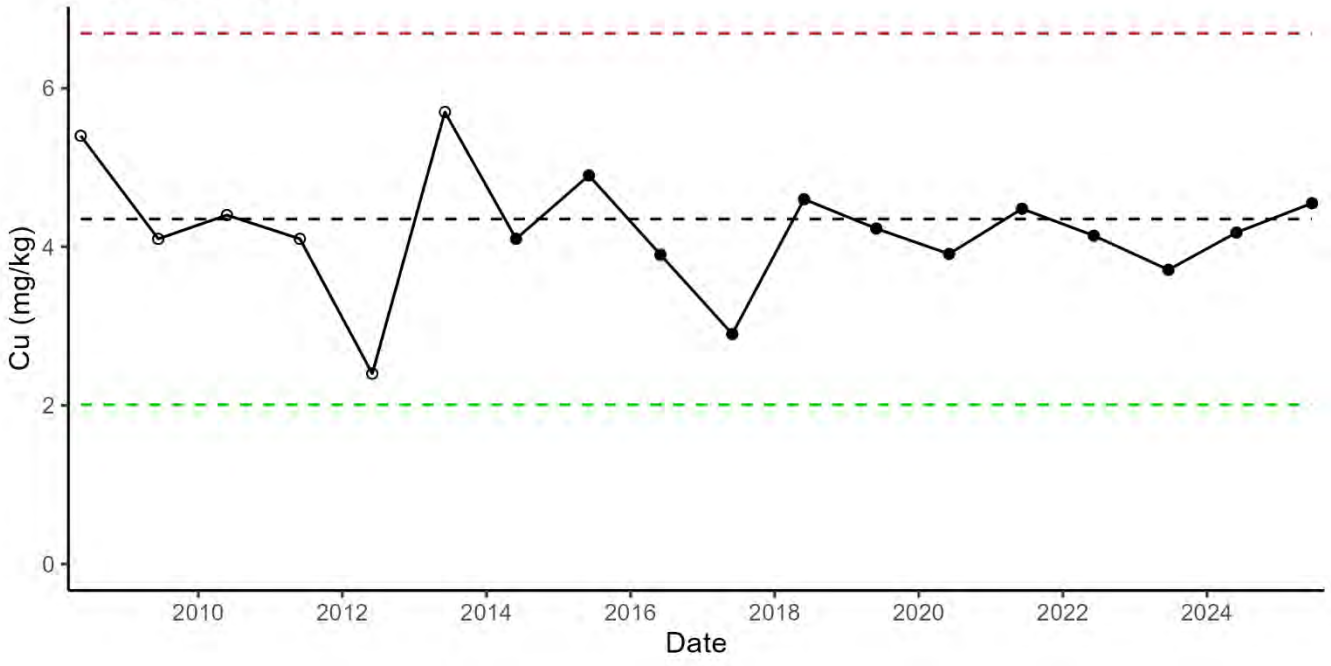
Plot 114 Moss

Baseline statistics were not estimated



Plot 114 LabTea

Baseline data OK



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

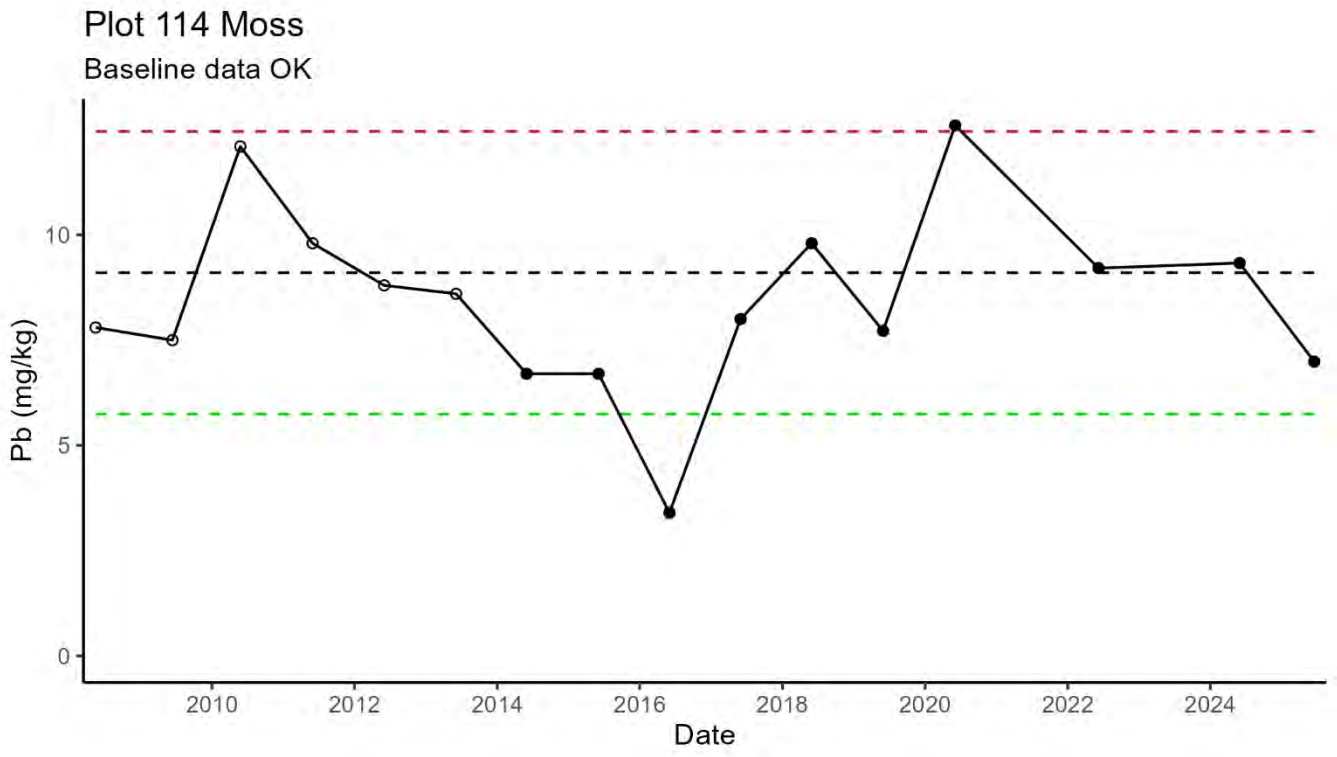
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

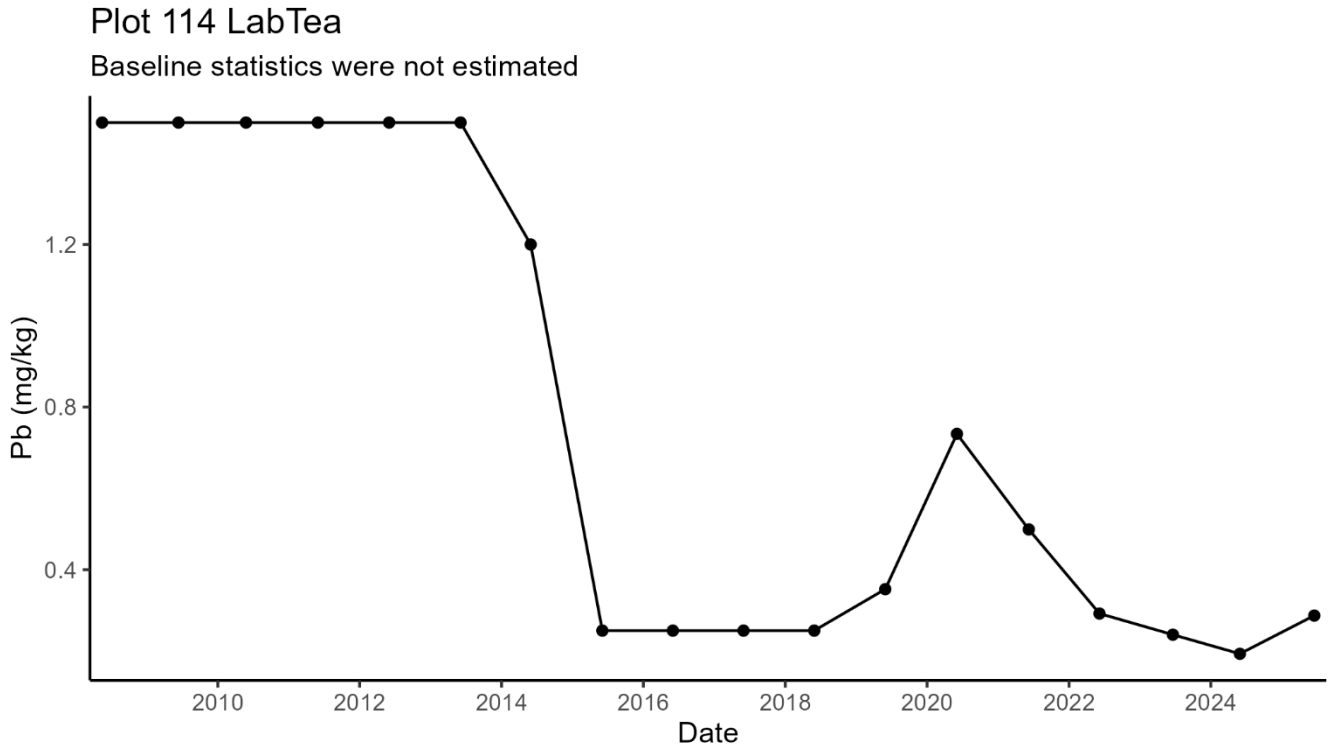
Copper

Date:	Project:	Technical:	Reviewer:	Drawn:
March 4, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure **F.50**





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

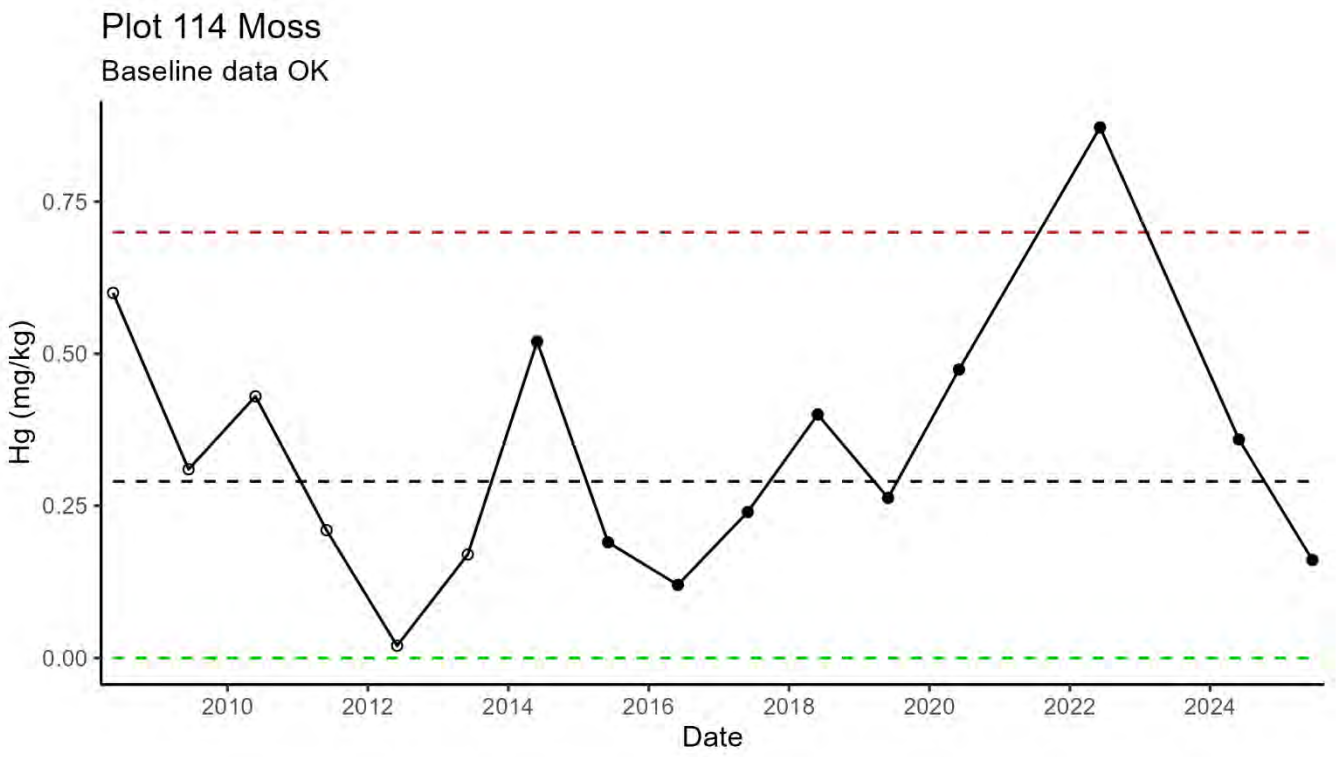
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

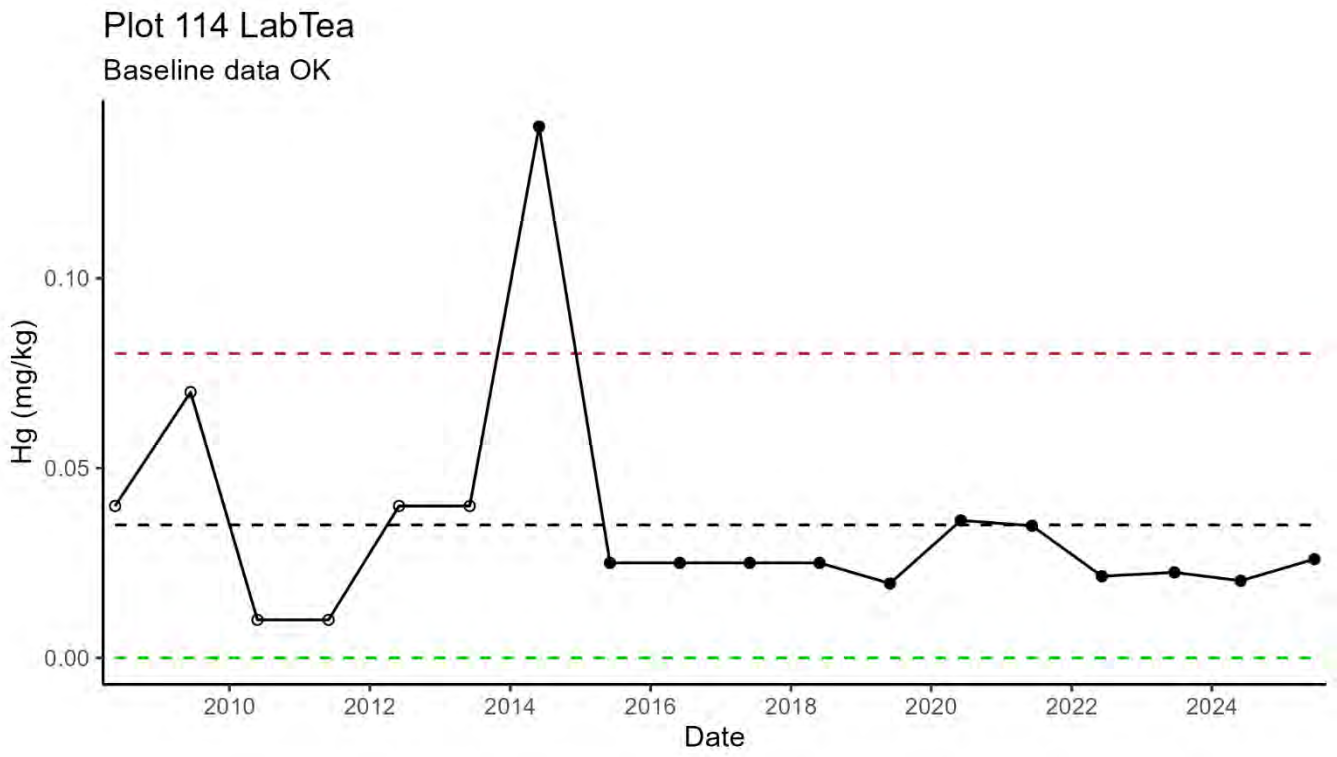
Lead

Date:	Project:	Technical:	Reviewer:	Drawn:
March 4, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure **F.51**





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

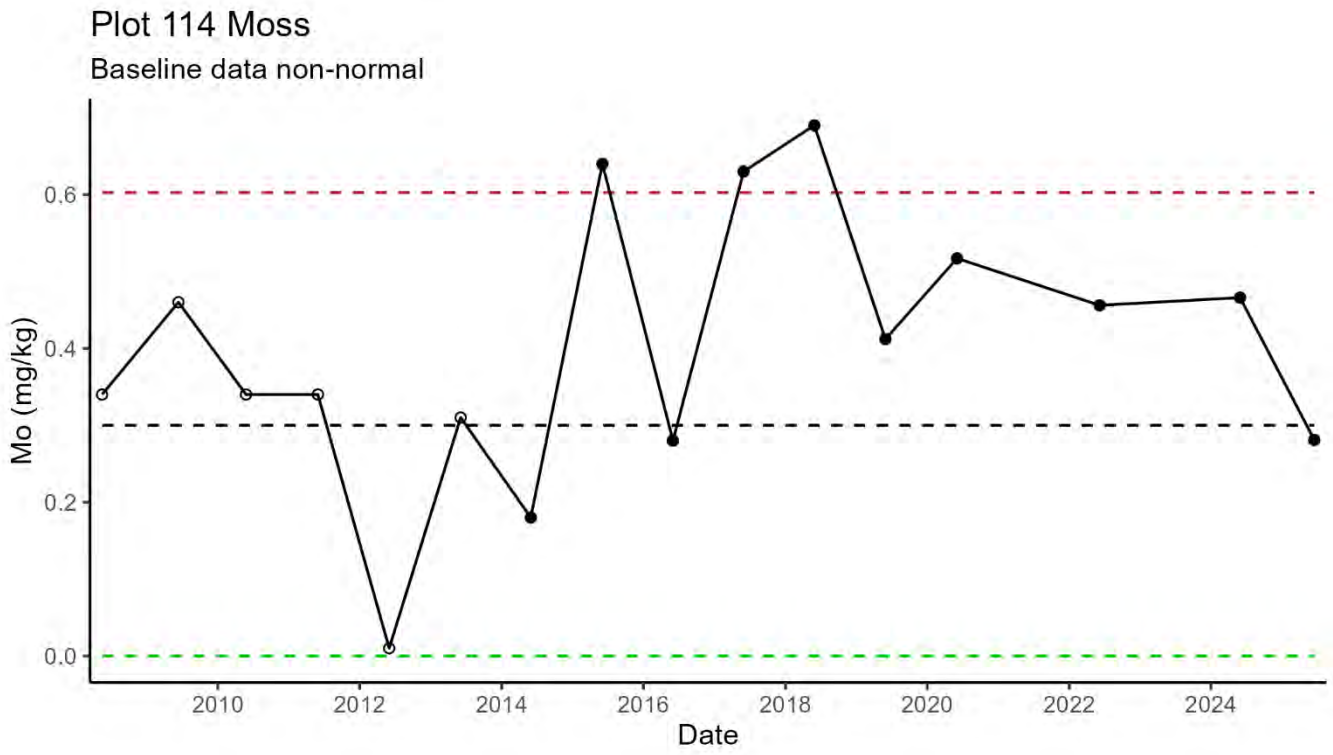
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

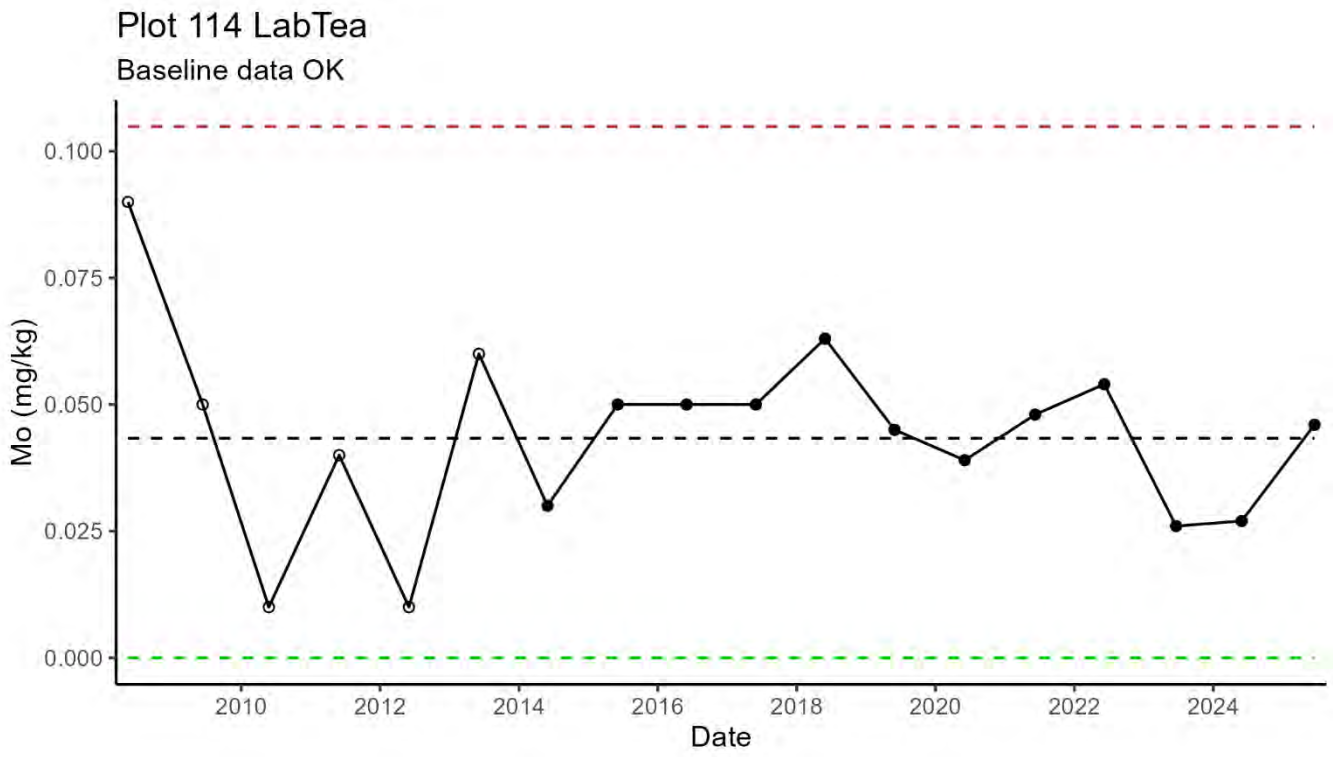
Mercury

Date:	Project:	Technical:	Reviewer:	Drawn:
March 4, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure **F.52**





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Molybdenum

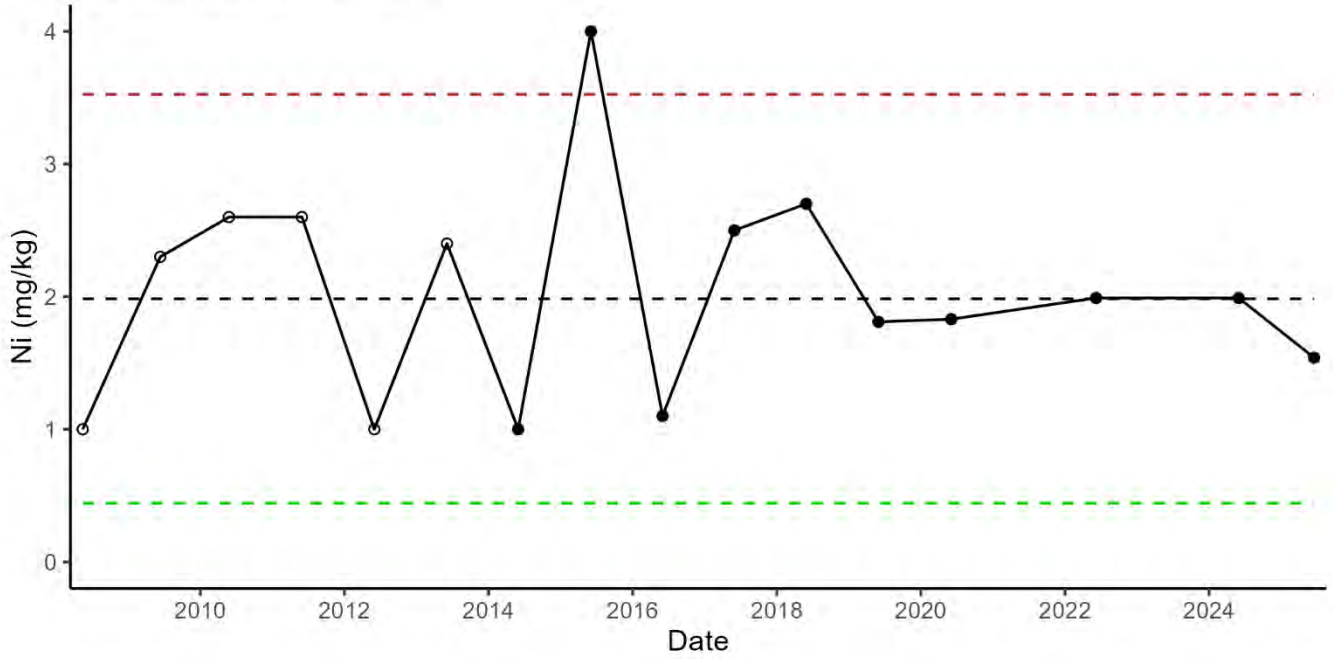
Date:	Project:	Technical:	Reviewer:	Drawn:
March 4, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure **F.53**

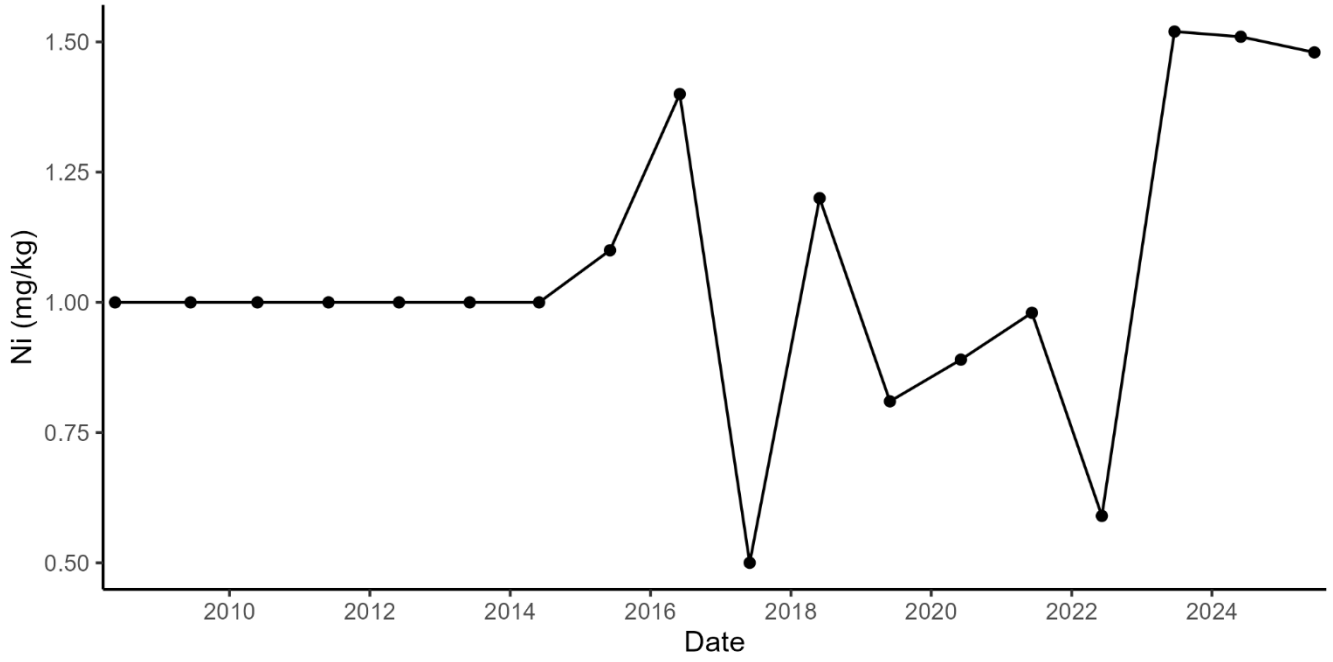
Plot 114 Moss

Baseline data non-normal



Plot 114 LabTea

Baseline statistics were not estimated



- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre

Soil and Vegetation Monitoring Program

Nickel

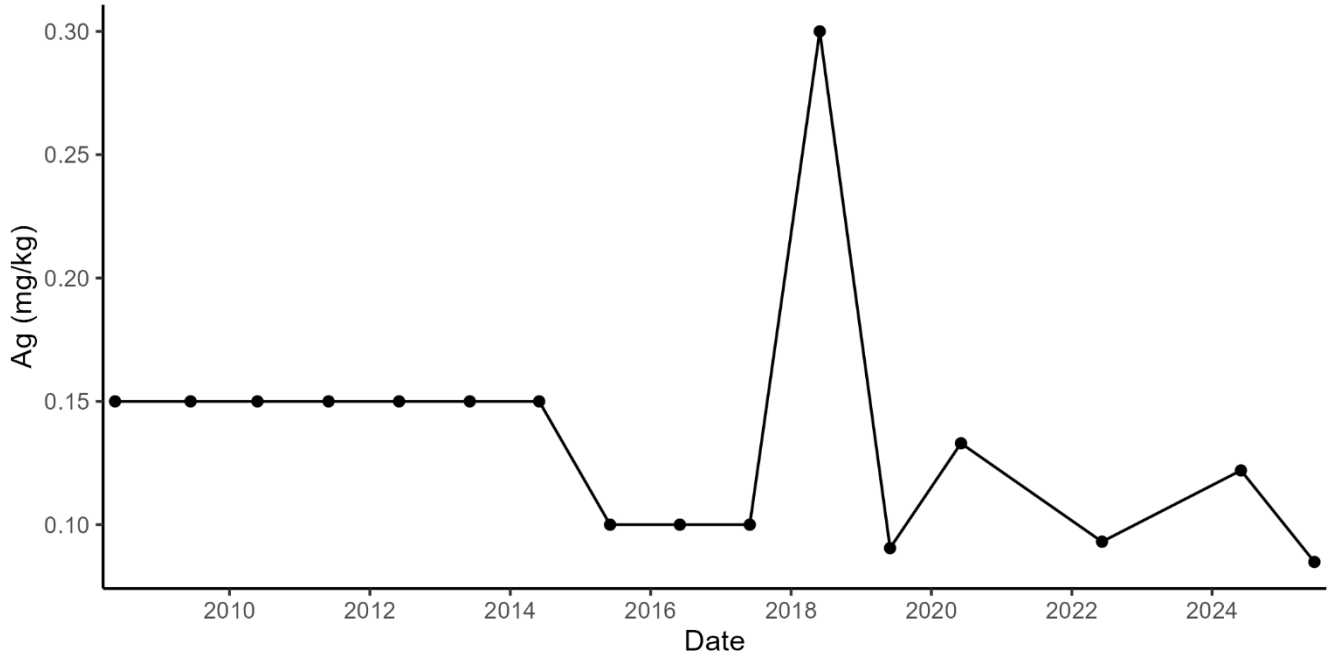
Date:	Project:	Technical:	Reviewer:	Drawn:
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Figure **F.54**

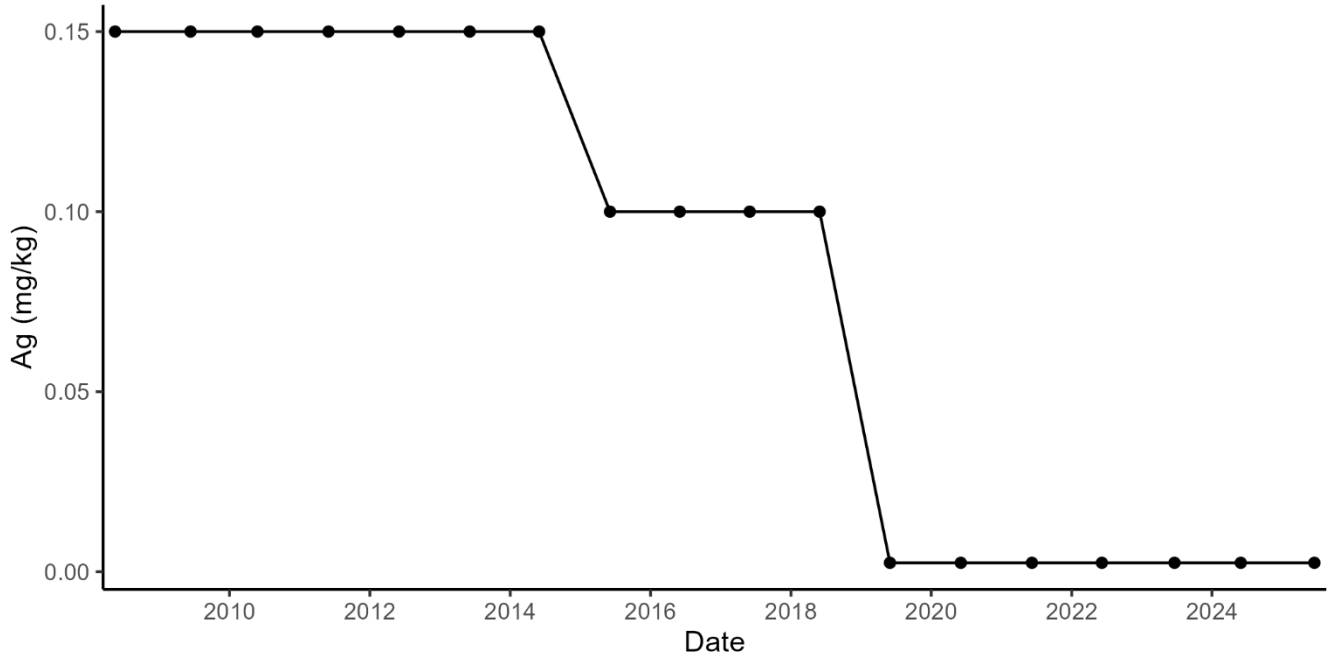
Plot 114 Moss

Baseline statistics were not estimated



Plot 114 LabTea

Baseline statistics were not estimated



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Silver

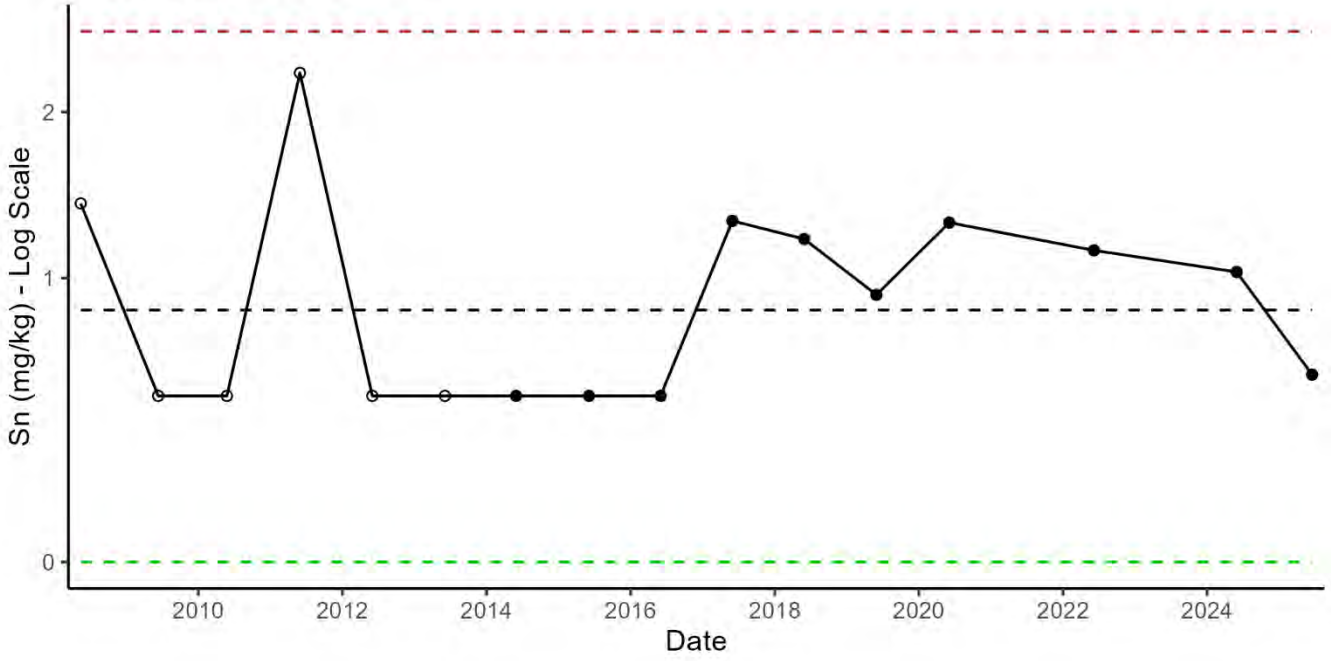
Date:	Project:	Technical:	Reviewer:	Drawn:
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Figure **F.55**

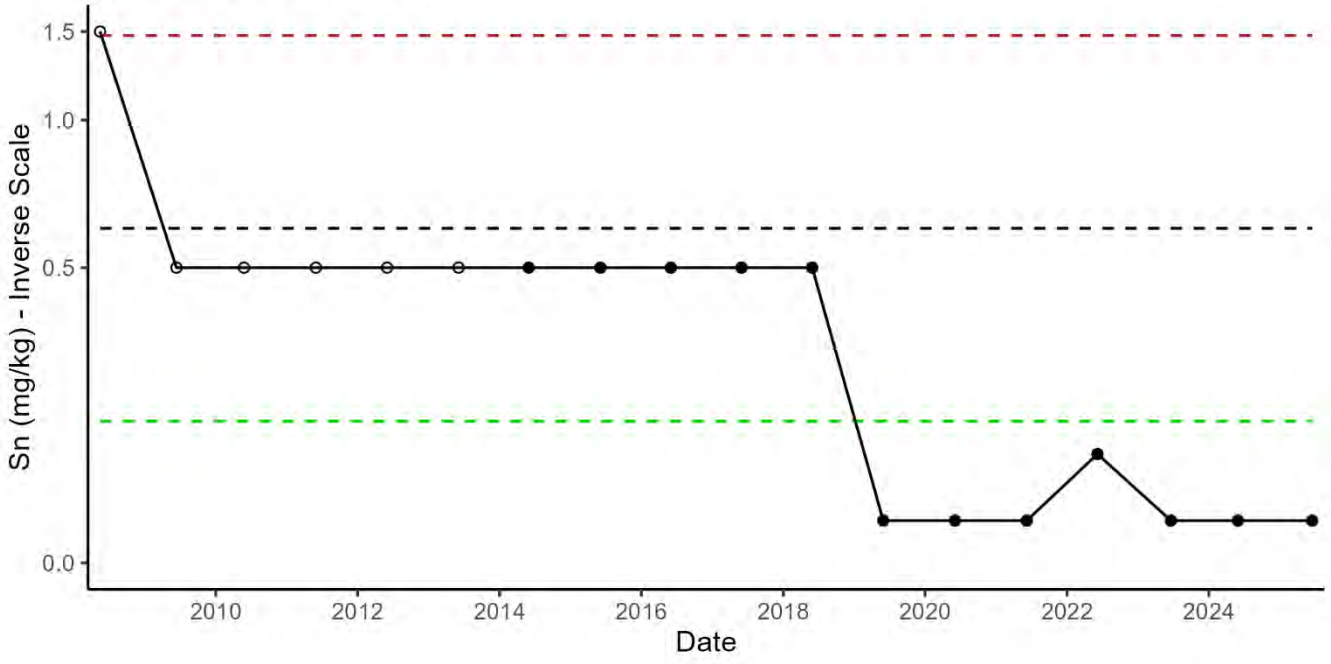
Plot 114 Moss

Baseline data non-normal



Plot 114 LabTea

Baseline data non-normal



- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre

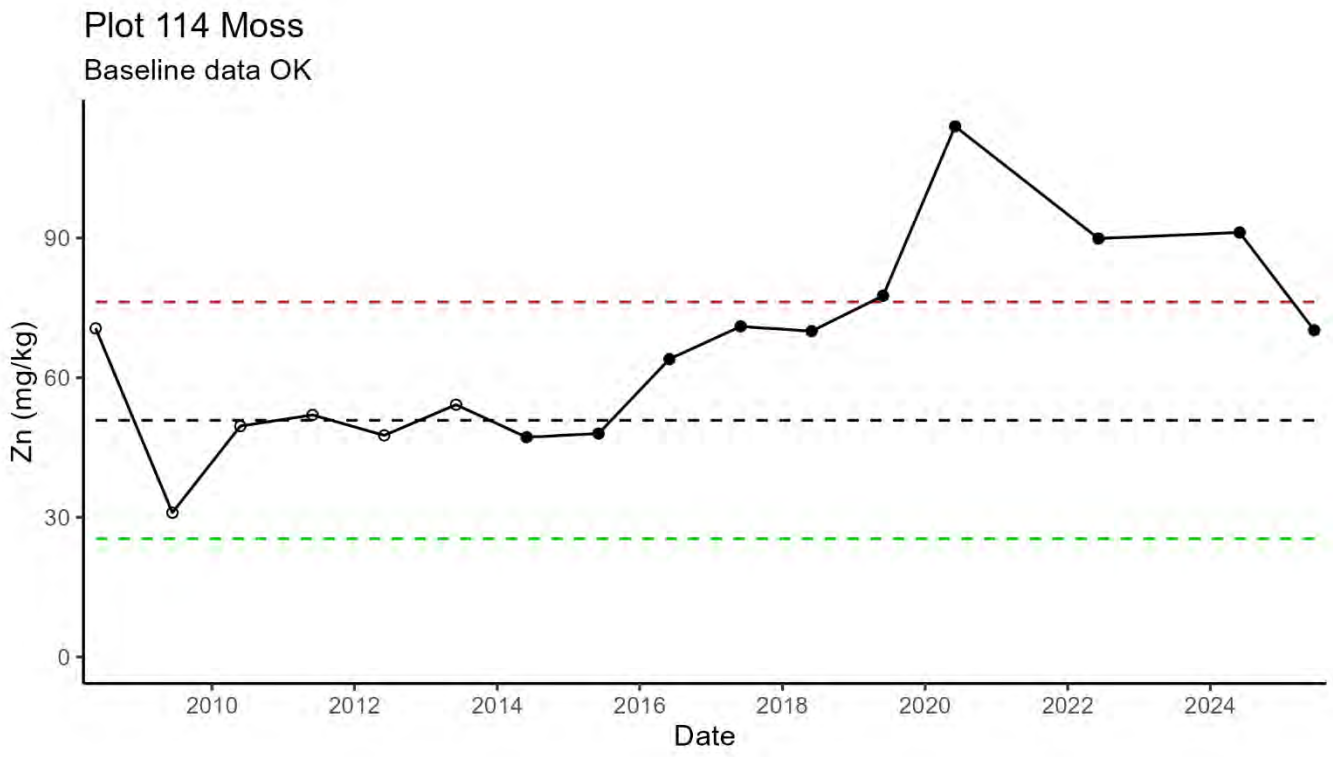
Soil and Vegetation Monitoring Program

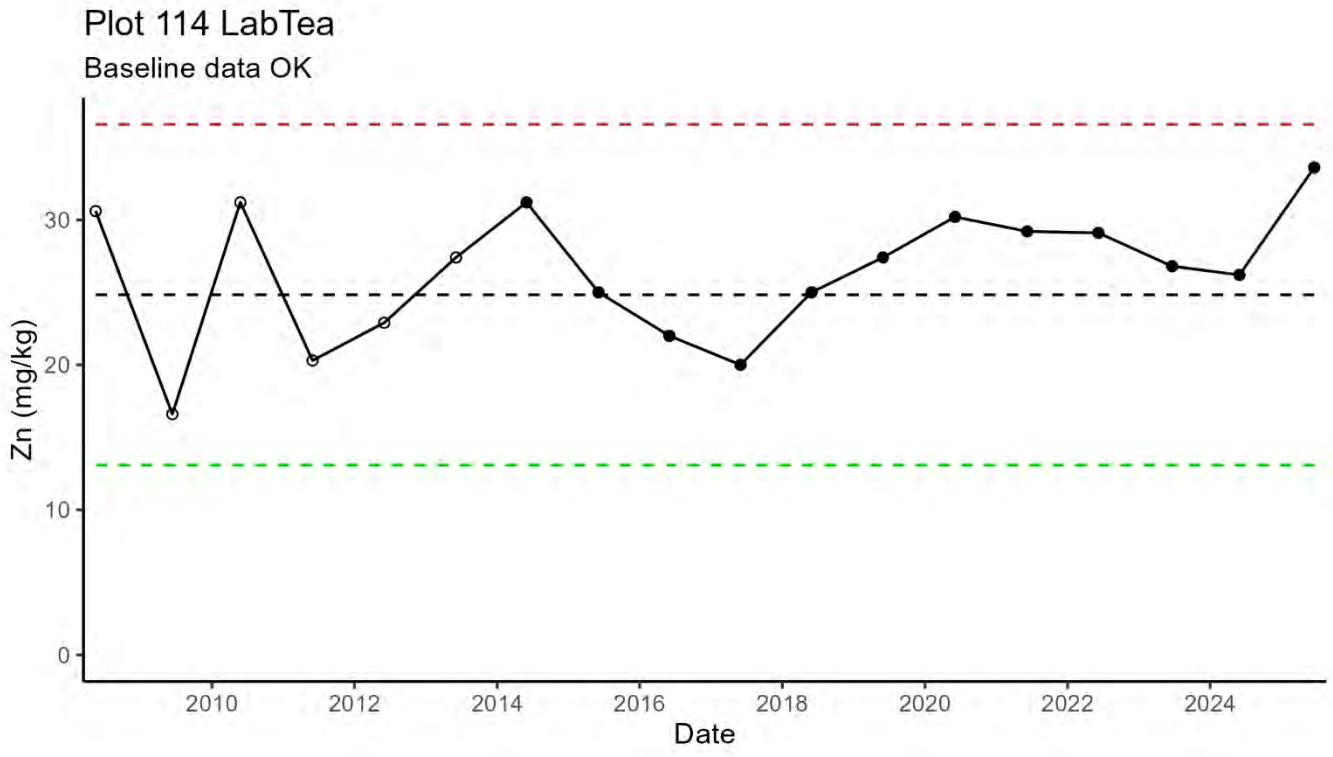
Tin

Date:	Project:	Technical:	Reviewer:	Drawn:
March 4, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure **F.56**





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

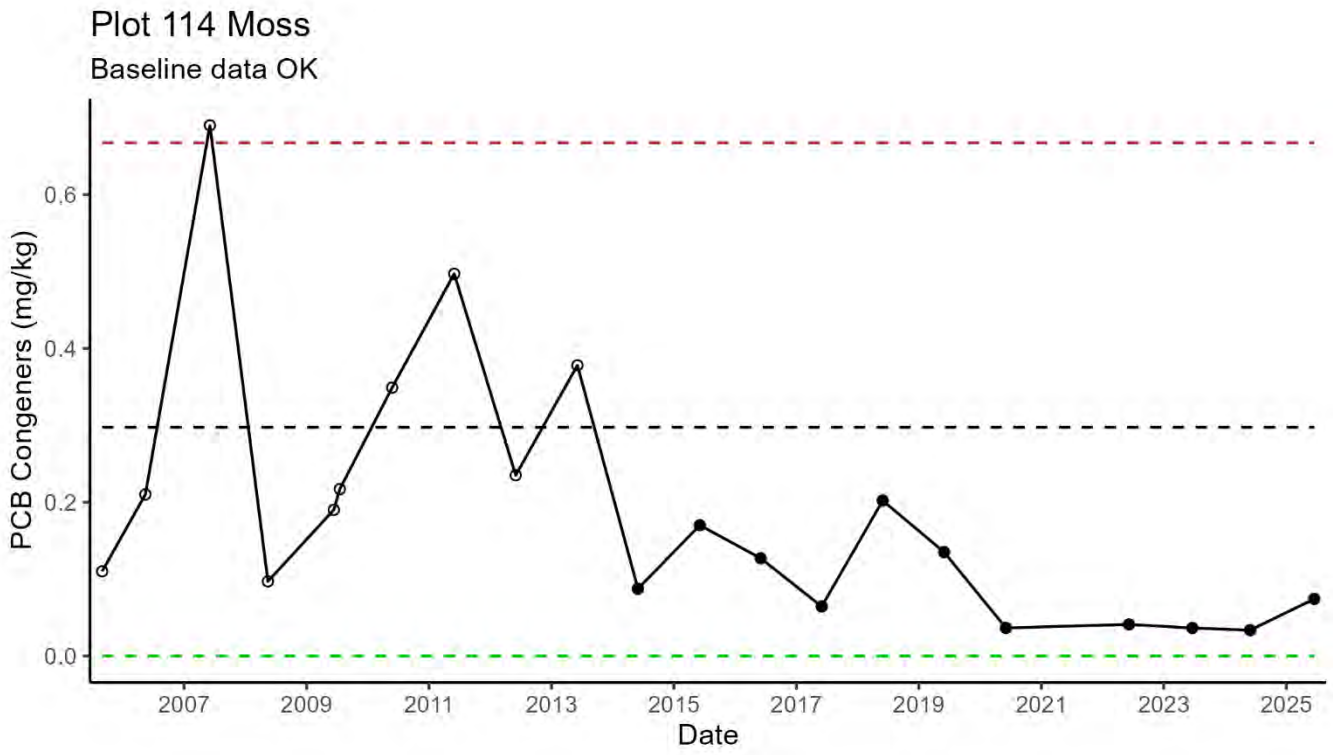
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

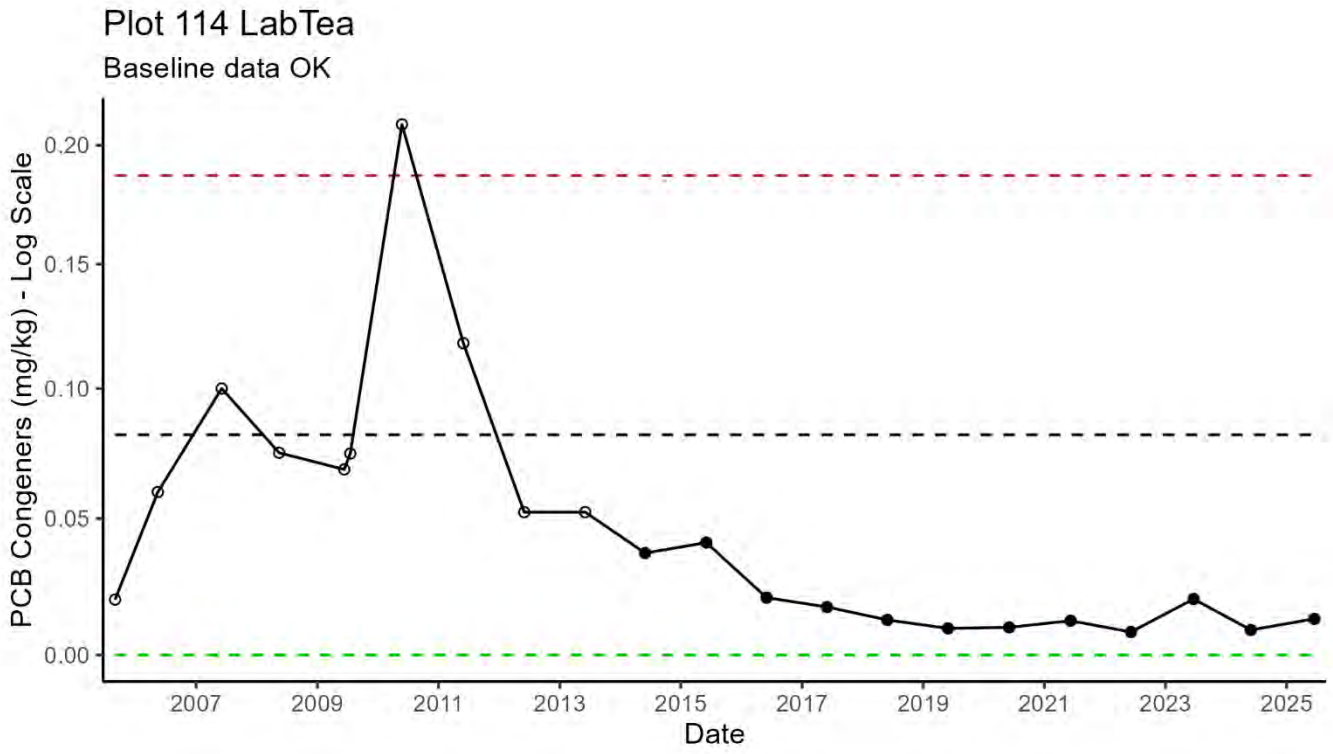
Zinc

Date:	Project:	Technical:	Reviewer:	Drawn:
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Figure **F.57**





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

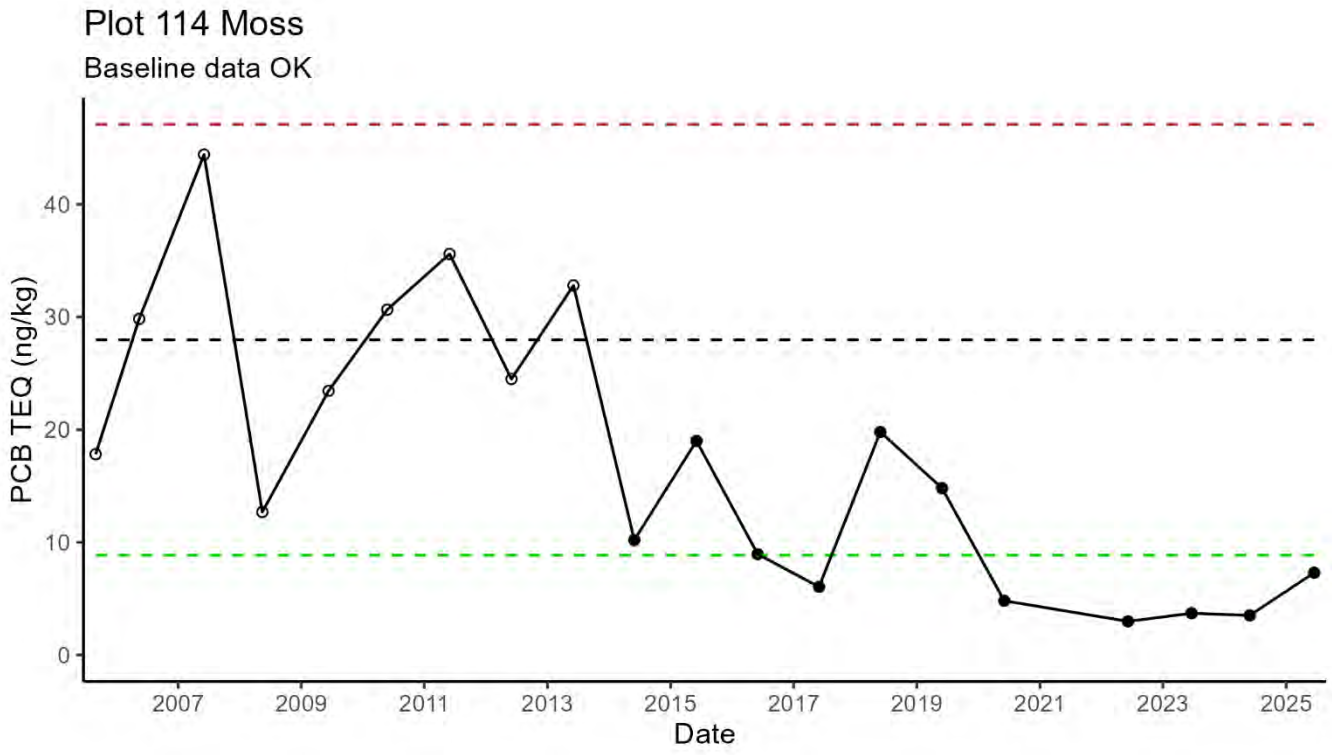
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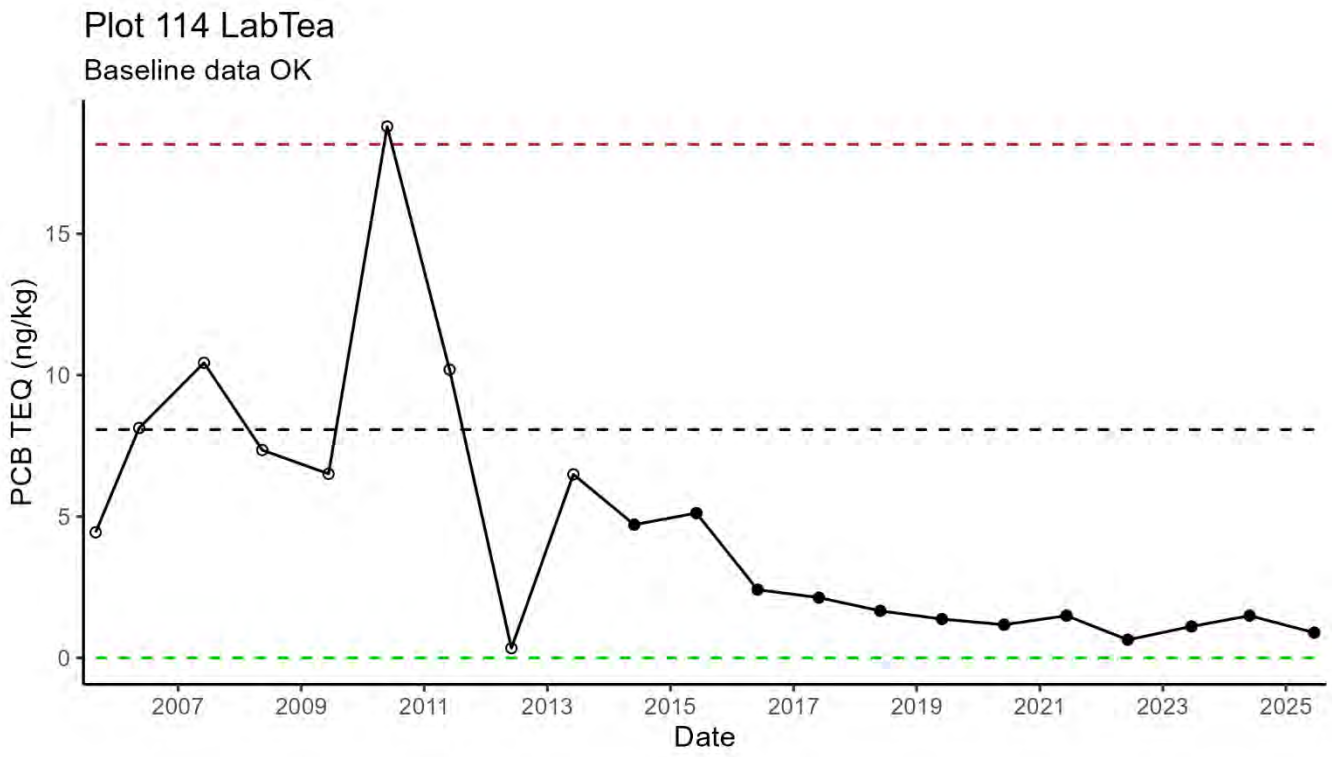
PCB Congeners

Date:	Project:	Technical:	Reviewer:	Drawn:
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Figure F.58





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

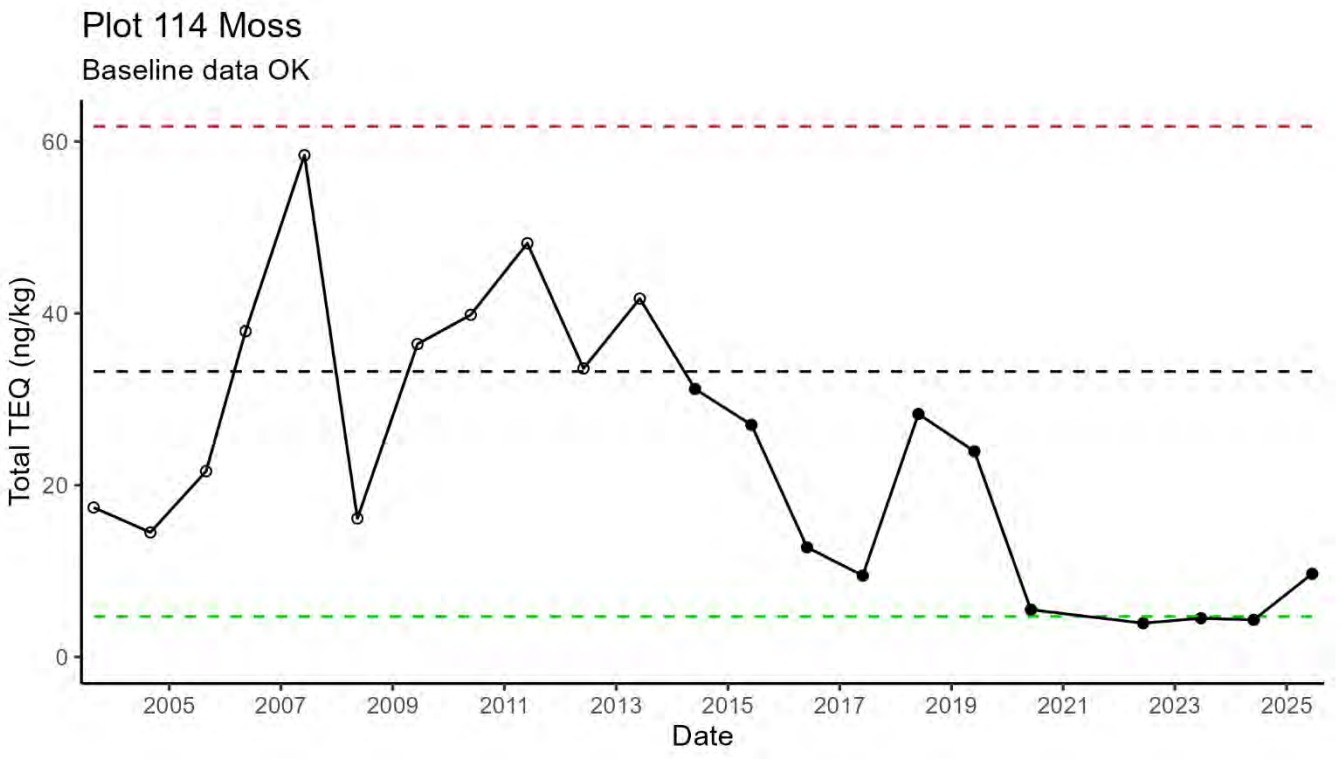
VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

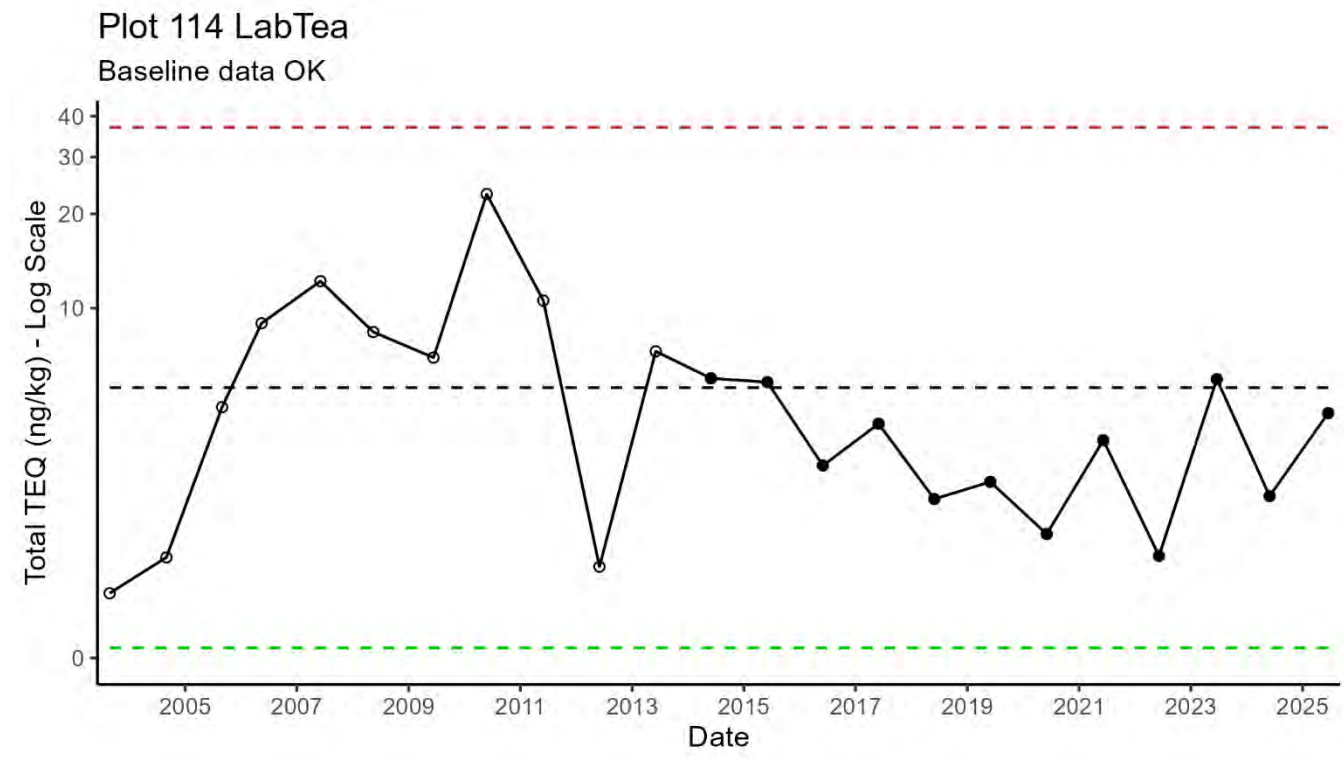
PCB TEQ

Date:	Project:	Technical:	Reviewer:	Drawn:
March 4, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure **F.59**





Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

MONTROSE ENVIRONMENTAL

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Total TEQ

Date:	Project:	Technical:	Reviewer:	Drawn:
March 4, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure **F.60**

APPENDIX G
Historical Inorganic Data

TABLE G1

Historical Live Moss Quality Results - Metals

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	Al mg/kg	Sb mg/kg	As mg/kg	Ba mg/kg	Be mg/kg	Bi mg/kg	B mg/kg	Cd mg/kg	Cr mg/kg	Co mg/kg	Cu mg/kg	Fe mg/kg	Pb mg/kg	Li mg/kg	Mn mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	Se mg/kg	Si mg/kg	Ag mg/kg	Sr mg/kg	S mg/kg	Tl mg/kg	Sn mg/kg	Ti mg/kg	U mg/kg	V mg/kg	Zn mg/kg	Zr mg/kg
Plot 4	15-May-08	15867080515001	2190	0.4	0.502	45.1	<0.5	---	4	0.68	3.8	<1.0	18	941	16.2	0.6	279	0.92	0.45	2.8	<1	170	<0.3	9.1	842	0.07	1.8	83	0.07	3.2	58.9	2.2
Plot 4	12-Jun-09	15867090612013	1990	0.4	0.408	40.6	<0.5	---	4	0.73	5	<1.0	18.9	1280	18	0.7	410	0.39	0.51	2.7	<1	9740	<0.3	9.9	1230	0.09	1.4	111	0.09	2.7	37.7	2.1
Plot 4	25-May-10	15867100525028	1860	0.5	0.319	55.4	<0.5	---	7	1.17	5	<1.0	23.5	1320	20.9	0.7	529	0.41	0.45	3.5	<1	10100	<0.3	11.7	1740	0.08	1.3	111	0.1	3.2	77.2	<0.1
Plot 4	31-May-11	15867110531041	2190	0.3	0.309	54	<0.5	---	7	0.44	4.4	<1.0	13.4	1300	9.5	0.7	671	0.37	0.37	2.7	<1	6330	<0.3	12.4	963	0.09	<1.0	97	0.09	2.3	65.4	3.5
Plot 4	01-Jun-12	15867120601054	2960	<0.1	0.609	68.6	<0.5	---	<2	0.48	4	<1.0	14.7	1690	11.8	<0.4	546	0.27	<0.02	3.3	<1	6340	<0.3	16	778	<0.02	<1.0	151	0.12	4	67.7	4.8
Plot 4	05-Jun-13	15867130605067	2320	3.1	0.354	47.4	<0.5	---	13	0.61	3.4	<1.0	12.9	1230	11.5	1.1	495	0.3	0.36	2.4	<1	6260	<0.3	10.8	844	0.12	<1.0	85	0.08	2.7	62.3	10.5
Plot 4	29-May-14	15867140529081	1720	0.3	0.397	58.6	<0.5	---	<2	0.4	4.4	<1.0	13.6	1230	12.9	<0.4	570	0.72	0.37	2.7	<1	5010	<0.3	13.3	880	0.06	1.2	107	0.08	3.2	68.1	<0.1
Plot 4	03-Jun-15	15867150603006	810	0.3	0.38	37	<0.40	---	5.5	0.58	1.5	<0.50	17	1000	11	<0.80	670	0.16	0.52	2	<0.50	---	<0.20	9.3	920	0.043	<1.0	14	0.053	1.4	70	0.91
Plot 4	31-May-16	15867160531005	420	0.19	0.29	33	<0.40	---	7	0.51	<1.0	<0.50	14	570	9.3	<0.80	670	0.25	0.49	1.6	<0.50	---	<0.20	8.4	830	0.027	<1.0	9.7	<0.040	<1.0	76	0.45
Plot 4	31-May-17	15867170531008	700	0.32	0.54	37	<0.40	---	6.1	0.66	1.7	0.53	12	1000	13	<0.80	600	0.24	0.63	2.4	<0.50	---	<0.20	9	980	0.038	1.6	17	0.056	1.6	78	1.3
Plot 4	29-May-18	15867180529003	800	0.44	0.72	47	<0.40	---	6.7	0.49	3.2	0.66	14	1300	16	<3.1	800	0.46	0.89	3.5	<0.50	---	0.23	10	1100	<0.052	1.3	10	<0.080	2.5	92	<1.0
Plot 4	31-May-19	15867190531030	843	0.267	0.69	41.7	0.03	0.284	7	0.408	1.86	0.618	10.4	1040	12.6	<0.50	701	0.319	0.582	2.41	0.103	---	0.105	9.59	1100	0.0377	1.02	21.5	0.053	2.01	93.8	0.38
Plot 4	03-Jun-20	15867200603008	965	0.304	0.785	49.3	0.036	0.351	7.3	0.596	2.63	0.653	13	1710	14.8	0.5	726	0.443	0.644	2.63	0.119	---	0.124	9.78	1100	0.0436	1.29	25.6	0.0625	2.45	101	0.55
Plot 4	08-Jun-22	15867220608011	825	0.275	0.696	41.2	0.032	0.344	8.2	0.395	1.99	0.55	9.92	1120	11.1	<0.50	713	0.498	0.493	2.18	0.101	---	0.0966	9.22	1020	0.0447	1.08	21.7	0.0611	1.94	92.6	0.32
Plot 4	29-May-24	15867240529026	804	0.226	0.556	51.1	0.031	---	8.9	0.308	1.88	0.548	8.94	1090	9.13	<0.50	757	0.359	0.413	2.03	0.099	---	0.101	11.2	1050	0.0416	0.81	21.5	0.0528	1.97	80.9	0.36
Plot 4	17-Jun-25	15867250617006	741	0.219	0.58	57.6	0.031	---	8.7	0.422	1.77	0.523	9.59	985	9.16	<0.50	745	0.817	0.386	2.01	0.103	---	0.0988	11.7	1080	0.033	0.77	23.8	0.0535	1.94	89.5	0.77
Plot 4	17-Jun-25	15867250617006R	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.32	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Plot 11	15-May-08	15867080515002	990	0.1	0.222	59	<0.5	---	4	0.18	1.3	<1.0	5.2	474	<3.0	<0.4	734	0.52	0.16	<2.0	<1	171	<0.3	7.7	850	0.02	<1.0	40	<0.04	1.6	64.5	0.9
Plot 11	12-Jun-09	15867090612014	1240	0.1	0.21	36	<0.5	---	3	0.16	1.9	<1.0	6.4	761	3.8	0.5	700	0.19	0.18	<2.0	<1	6220	<0.3	7.3	1430	0.03	<1.0	69	0.07	2	34.3	0.5
Plot 11	26-May-10	15867100526029	1490	<0.1	0.169	48.8	<0.5	---	4	0.21	2.3	<1.0	8.5	991	5.6	0.5	735	0.21	0.08	2	<1	8430	<0.3	9.8	1500	<0.02	<1.0	87	0.07	2.5	62.5	<0.1
Plot 11	31-May-11	15867110531042	1320	0.1	0.08	41.4	<0.5	---	5	0.14	2.6	<1.0	5.7	749	<3.0	0.5	1360	0.55	0.24	<2.0	<1	3130	<0.3	6.7	868	0.04	<1.0	59	0.06	1.2	41.3	4.1
Plot 11	01-Jun-12	15867120601055	4120	<0.1	0.543	73	<0.5	---	<2	0.17	3.4	<1.0	4	1780	<3.0	0.7	800	0.21	<0.02	3	<1	8840	<0.3	15.2	795	<0.02	<1.0	170	0.11	5.9	52.2	3.8
Plot 11	05-Jun-13	15867130605068	2410	2.8	0.327	56.9	<0.5	---	12	0.25	3.1	<1.0	9.3	1160	4.5	1.3	1300	0.2	0.27	2.3	<1	7100	<0.3	12.2	952	0.08	<1.0	85	0.08	2.9	61.3	8.3
Plot 11	31-May-14	15867140531082	980	<0.1	0.224	34.9	<0.5	---	<2	0.1	2.5	<1.0	5.6	702	3.3	<0.4	837	0.49	0.14	<2.0	<1	2800	<0.3	7.8	814	0.03	<1.0	56	<0.04	1.9	47.6	<0.1
Plot 11	03-Jun-15	15867150603003	410	0.13	0.19	40	<0.40	---	3.2	0.13	<1.0	<0.50	22	630	2.6	<0.80	800	0.12	0.17	1.1	<0.50	---	<0.20	6.2	840	<0.020	<1.0	8.8	0.04	<1.0	52	0.8
Plot 11	31-May-16	15867160531004	190	<0.10	0.12	39	<0.40	---	5.7	0.12	<1.0	<0.50	6.1	310	1.9	<0.80	990	0.13	0.13	<1.0	<0.50	---	<0.20	9	710	<0.020	<1.0	4.3	<0.040	<1.0	44	0.21
Plot 11	01-Jun-17	15867170601010	260	<0.12	0.18	33	<0.40	---	5.3	0.14	<1.0	<0.50	8.5	380	2	<0.80	800	0.056	0.13	1	<0.50	---	<0.20	8.3	790	<0.026	<1.0	5.8	<0.040	<1.0	44	0.64
Plot 11	31-May-18	15867180531012	260	<0.26	0.24	41	<0.40	---	<3.7	0.11	1.8	<0.50	6.3	450	2.9	<3.1	880	0.22	0.32	2	<0.50	---	<0.20	7.6	810	<0.052	<1.0	6.9	<0.080	<1.0	51	<1.0
Plot 11	01-Jun-19	15867190601032	477	0.067	0.269	36.7	0.021	0.055	3.7	0.121	0.78	0.309	4.5	630	2.87	<0.50	911	0.185	0.172	1.34	0.104	---	0.047	7.85	1060	0.0258	0.43	12.2	0.0388	1.24	54.8	0.29
Plot 11	02-Jun-20	15867200602004	622	0.088	0.272	33.9	0.018	0.058	4.4	0.15	0.966	0.31	4.93	683	2.73	<0.50	931	0.161	0.187	1.54	0.096	---	0.0474	5.29	920	0.0237	0.25	13.3	0.0342	1.44	46.7	0.27
Plot 11	08-Jun-22	15867220608012	357	0.059	0.224	49.9	0.014	0.039	6.3	0.102	0.677	0.246	4.73	544	2.33	<0.50	1200	0.153	0.156	1.13	0.076	---	0.0316	10.6	940	0.0197	0.24	7.93	0.0289	0.92	66.1	<0.20
Plot 11	28-May-24	15867240528017	400	0.052	0.183	28.4	0.016	---	5.8	0.142	0.6	0.218	3.54	439	1.73	<0.50	852	0.132	0.107	1.12	0.069	---	0.0366	8.65	880	0.0212	0.24	8.82	0.0263	0.88	50.5	0.27
Plot 11	18-Jun-25	15867250618010	132	0.018	0.082	21.7	<0.010	---	3.5	0.0737	0.212	0.108	2.42	184	0.718	<0.50	745	0.069	0.042	0.44	<0.050	---	0.0186	5.8	540	0.0096	<0.10	4.15	0.0113	0.33	31.2	<0.20
Plot 11	18-Jun-25	15867250618010R	293	0.037	0.156	95.6	0.013	---	9.4	0.3	0.455	0.362	4.84	385	1.69	<0.50	1610		0.115	1.16	0.138	---	0.0395	19.4	1080	0.0176	0.16	7.39	0.0244	0.76	69.3	<0.20
Plot 70	15-May-08	15867080515003	11900	0.2	1.3	179	<0.5	---	5	0.23	10.8	2.2	6.9	4660	7.1	3.4	282	0.55	0.3	5.2	<1	131	<0.3	33.4	796	0.11	<1.0	419	0.36	15.5	43.8	11.3
Plot 70a	12-Jun-09	15867090612015	5700	<0.1	0.579	99.7	<0.5	---	3	0.11	7.3	1.2	4.7	3180	3.7	2	465	0.08	0.24	3.4	<1	44600	<0.3	17.7	1170	0.06	<1.0	398	0.29	8.2	22.2	9.4
Plot 70b	12-Jun-09	15867090612016	1970	<0.1	0.27	47.5	<0.5	---	3	0.15	3	<1.0	3.3	1230	4.2	0.7	273	0.12	0.17	2.2	<1	8930	<0.3	10.7	1170	0.03	<1.0	117	0.11	3.2	17.3	1.9
Plot 70c	12-Jun-09	15867090612017	2610	<0.1	0.284	45.5	<0.5	---	3	0.11	3.9	<1.0	3.6	1530	<3.0	0.9	321	0.08	0.17	2.4	<1	15300	<0.3	11.3	1090	0.03	<1.0	172	0.16	4	18.4	3.8
Plot 70	25-May-10	15867100525030	2660	<0.1	0.28	123	<0.5	---	7	0.33	4.3	<1.0	5	1590	3.9	0.9	1540	0.13	0.1	3.8	<1	11800	<0.3	19.4	1780	0.09	<1.0	130	0.1	4.2	49.5	<0.1
Plot 70	31-May-11	15867110531043	3040	<0.1	0.311	67.1	<0.5	---	4	0.19	5.1	<1.0	4.9	1720	5.1	1.1	542	0.1	0.25	2.6	<1	5480	<0.3	13.1	991	0.08	<1.0	127	0.12	3.7	39.6	4.5
Plot 70	01-Jun-12	15867120601056	2240	<0.1	0.238	55.3	<0.5	---	<2	0.17	1.3	<1.0	1.2	1040	<3.0	<0.4	739	0.08	<0.02	<2.0	<1	5440	<0.3	9.9	820	<0.02	<1.0	88	0.07	2.5	25.4	0.4
Plot 70	05-Jun-13	15867130605070	2260	2.5	0.195	71.3	<0.5	---	11	0.18	2.1	<1.0	5.1	1080	4	1.1	418	0.09	0.09	<2.0	<1	5290	<0.3	11.2	735	0.07	<1.0	70	0.08	2.2	35.1	6.4
Plot 70	31-May-14	15867140531083	3560	<0.1	0.543	97.8	<0.5	---	<2	0.15	4.2	<1.0	9.1	1990	9.2	<0.4	356	0.45	0.17	2.5	<1	8540	<0.3	18.2	787	0.1	<1.0	183	0.13	5.7	34.9	<0.1
Plot 70	04-Jun-15	15867150604015	1500	<0.10	0.43	54	<0.40	---	2.6	0.19	1.8	1.3	44	1800	1.9	<0.80	740	<0.050	0.14	2.5	<0.50	---	<0.20	7.7	840	0.021	<1.0	11	0.073	2.6	57	1.4
Plot 70	02-Jun-16	15867160602012	400	0.1	0.21	25	<0.40	---	4.1	0.065	<1.0	<0.50	6.3	590	1.7	<0.80	810	0.11	<0.10	1.4	<0.50	---	<0.20	4.4	750	0.021	<1.0	7.3	<0.040	1	40	0.71
Plot 70	01-Jun-17	15867170601012	470	<0.12	0.22	47	<0.40	---	4	0.15	<1.0	<0.50	4.3	710	1.8	<0.80	690	0.059	<0.10	1.4	<0.50	---	<0.20	5.6	870	<0.026	<1.0	8.5	<0.040	1.1	32	0.76
Plot 70	31-May-18	15867180531011	680	<0.26	0.38	54	<0.40	---	<3.7	0.23	2	0.5	5.3	950	2.7	<3.1	1000	0.18	0.24	2.6	<0.50	---	<0.20	7.6	990	<0.052	<1.0	9.1	<0.080	1.6	59	<1.0
Plot 70	01-Jun-19	15867190601041	766	0.041	0.29	59.2	0.027	<0.010	2.8	0.143	1	0.493	4.01	922	1.96	<0.50	989	0.104	0.113	1.83	0.078	---	0.0482	7.32	1060	0.0257	0.13	13.7	0.0426	1.71	45.9	0.23
Plot 70	02-Jun-20	15867200602005	631	0.033	0.205	67.6	0.018	0.011	4.4	0.24	0.789	0.402	4.48	642	1.33	<0.50	809	0.0965	0.105	1.36	0.068	---	0.0445	7.19	980	0.0226	<0.10	10.8	0.0314	1.23	44.4	<0.20
Plot 70	07-Jun-22	15867220607005	666	0.043	0.267	36.2	0.027	0.011	3.4	0.166	1.02	0.466	3.92	824	1.45	<0.50	816	0.107	0.124	1.5	0.068	---	0.0392	6.41	780	0.0213	0.27	12	0.0418	1.41	41.2	0.45
Plot 70	30-May-24	15867240530037	634	0.032	0.208	42.6	0.02	---	4.4	0.211	0.773	0.406	3.55	644	1.3	<0.50	756	0.08	0.094	1.31	0.07	---	0.0398	7.68	700	0.021	0.33	11.3	0.0313	1.23	38	0.38
Plot 70	16-Jun-25	15867250616004	649	0.035	0.249	47.4	0.023	---	3.9	0.248	0.871	0.444	6.4	718	1.14	<0.50	1170	0.122	0.118	1.37	0.082	---	0.156	7.46	1060	0.0203	0.13	14.1	0.0337	1.36	40.6	0.51
Plot 71	15-May-08	15867080515004	1560	<0.1	0.227	73.4	<0.5	---	5	0.09	1.8	<1.0	3.4	719	<3.0	0.5	703	0.46	0.12	<2.0	<1	161	<0.3	15.2	774	0.02	<1.0	60	0.05	2.4	54.2	1.4
Plot 71	12-Jun-09	15867090612018	2480	<0.1	0.292	82.1	<0.5	---	6	0.14	3	<1.0	4.9	1450	4.6	0.9	995	0.14	0.22	2.3	<1	13300	<0.3	20.4	1430	0.03	<1.0	143	0.15	4	41.8	2.8
Plot 71	25-May-10	15867100525031	1610	<0.1	0.159	115	<0.5	---	11	0.36	2.2	<1.0	6.1	947	<3.0	0.5	2310	0.06	0.05	2.2	<1	9320	<0.3	22.9	1690	<0.02	<1.0	83	0.08	2.5	97.8	<0.1
Plot 71	31-May-11	15867110531044	1430	<0.1	0.071	74	<0.5	---	6	0.08	1.7	<1.0	5.5	784	<3.0	0.5	867	0.08	0.15	<2.0	<1	5450	<0.3	23.4	1030	0.04	<1.0	59	0.06	1.1	44.8	2.2
Plot 71	01-Jun-12	15867120601057	1830	<0.1	0.168	83.8	<0.5	---	<2	0.07	1.1	<1.0	2.5	941	<3.0	<0.4	1070	0.09	<0.02	<2.0	<1	5610	<0.3	18.6	982	<0.02	<1.0	82	0.05	2.4	56.3	1.8
Plot 71	05-Jun-13	15867130605071	15900	2.4	8.27	253	<0.5	---	15	0.14	11	2.5	9.4	7930	8.6	14	466	0.08	0.29	5.1	<1	30500	<0.3	59.7	555	0.18	<1.0	456	1.13	26.2	47.1	19
Plot 71	31-May-14	15867140531084	1990	<0.1	0.339	83.9	<0.5	---	<2	0.09	3.3	<1.0	3.7	1170	3.8	<0.4	349	0.46	0.19	<2.0	<1	14500	<0.3	36.2	975	0.04	<1.0	112	0.08	3.8	27.7	<0.1
Plot 71	04-Jun-15	15867150604014	730	<0.10	0.27	65	<0.40	---	3.4	0.18	<1.0	0.52	12	1000	4.2	<0.80	720	0.059	0.29	1.5	<0.50	---	<0.20	26	1000	0.028	<1.0	10	0.064	1.5	43	1.2
Plot 71	02-Jun-16	15867160602011	200	0.21	0.14	46	<0.40	---	3.5	0.068	<1.0	<0.50	8.5	370	1	<0.80	500	0.056	<0.10	<1.0	<0.50	---	<0.20	12	570	<0.020	<1.0	4.6	<0.040	<1.0	31	0.25
Plot 71	01-Jun-17	15867170601011	260	<0.12	0.16	78	<0.40	---	6.3	0.13	<1.0	<0.50	7.2	430	1.7	<0.80	780	<0.050	<0.10	<1.0	<0.50	---	<0.20	18	760	0.031	<1.0	5.6	<0.040	<1.0	34	0.65
Plot 71	31-May-18	15867180531010	300	<0.26	0.27	76	<0.40	---	4	0.16	1.3	<0.50	5.6	540	2.3	<3.1	620	0.11	0.23	1.5	<0.50	---	0.3	25	850	<0.052	<1.0	5.1	<0.080	<1.0	38	<1.0
Plot 71	01-Jun-19	15867190601039	361	0.021	0.146	57.7	0.017	<0.010	5.3	0.0879	0.55	0.277	2.98	454	0.871	<0.50	542	0.0505	0.133	0.77	0.095	---	0.0192	24.6	950	0.014	0.14	8.58	0.0333	0.93	30.2	0.26
Plot 71	03-Jun-20	15867200604012	680	0.046	0.271	119	0.029	0.014	4.3	0.169	1.01	0.543	4.04	885	2.54	<0.50	671	0.105	0.152	1.37	0.105	---	0.038	26.4	970	0.019	<0.10	14.8	0.0544	1.78	46.6	0.41
Plot 71	06-Jun-22	15867220606004	456	0.038	0.215	72.7	0.023	<0.010	4.9	0.117	0.759	0.447	3.52	635	0.952	<0.50	565	0.0673	0.214	1.07	0.09	---	0.0218	23.7	830	0.0138	0.19	10	0.0563	1.18	40.6	0.46
Plot 71	30-May-24	15867240530036	590	0.036	0.25	113	0.028	---	8.4	0.16	0.886	0.529	3.98	748	1.67	<0.50	962	0.078	0.222	1.21	0.082	---	0.0302	28.2	910	0.0205	0.17	13.4	0.0595	1.53	45.6	0.45
Plot 71	18-Jun-25	15867250618011	496	0.038	0.198	85.6	0.022	---	7	0.161	0.747	0.378	3.69	611	1.06	<0.50	977	0.0694	0.181	1.07	0.096	---	0.0267	24	1000	0.0127	0.35	13.7	0.041	1.21	42.9	0.53

TABLE G1

Historical Live Moss Quality Results - Metals

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	Al mg/kg	Sb mg/kg	As mg/kg	Ba mg/kg	Be mg/kg	Bi mg/kg	B mg/kg	Cd mg/kg	Cr mg/kg	Co mg/kg	Cu mg/kg	Fe mg/kg	Pb mg/kg	Li mg/kg	Mn mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	Se mg/kg	Si mg/kg	Ag mg/kg	Sr mg/kg	S mg/kg	Tl mg/kg	Sn mg/kg	Ti mg/kg	U mg/kg	V mg/kg	Zn mg/kg	Zr mg/kg
Plot 109	15-May-08	15867080515005	1730	0.6	0.53	44.8	<0.5	---	3	0.67	3.9	<1.0	21.2	898	28.2	0.6	300	1.06	0.5	2.3	<1	156	<0.3	7.9	734	0.05	2.7	85	0.06	2.8	54.2	2
Plot 109	12-Jun-09	15867090612019	1320	0.3	0.274	49.2	<0.5	---	4	0.32	4.8	<1.0	14.7	1090	14.4	0.5	418	0.47	0.48	3.4	<1	6850	<0.3	8.3	1360	0.03	1.4	92	0.08	2.1	32.1	1
Plot 109	26-May-10	15867100526032	1730	0.5	0.348	66.4	<0.5	---	5	0.91	5.2	<1.0	20.5	1420	20.8	0.7	755	2.2	0.42	3.6	<1	10100	<0.3	11.8	1810	0.04	1.3	109	0.09	3	76.7	<0.1
Plot 109	31-May-11	15867110531045	4120	0.5	0.888	92.2	<0.5	---	6	0.57	9	<1.0	17.6	3410	16.8	2.2	507	0.46	0.52	4	<1	16300	<0.3	16	861	0.11	1.5	262	0.16	10.1	60.6	7.6
Plot 109	01-Jun-12	15867120601058	1450	<0.1	0.315	47.9	<0.5	---	<2	0.59	2.4	<1.0	13.5	1060	14.6	<0.4	381	0.42	<0.02	2.7	<1	4010	<0.3	7.9	810	<0.02	<1.0	78	0.04	2.1	48.5	1.3
Plot 109	05-Jun-13	15867130605072	1500	2.8	0.388	46.5	<0.5	---	15	0.5	2.8	<1.0	15.2	980	12.5	1	806	0.47	0.32	2.1	<1	5500	<0.3	9.6	850	0.06	<1.0	64	0.06	2.5	75.2	5.8
Plot 109	30-May-14	15867140530085	1230	0.3	0.362	54.9	<0.5	---	<2	0.49	3.2	<1.0	11.8	1040	16.1	<0.4	575	0.69	0.38	2.9	<1	3640	<0.3	8.6	826	0.05	1.2	80	0.05	2.6	63.3	<0.1
Plot 109	04-Jun-15	15867150604008	610	0.49	0.37	35	<0.40	---	2.1	0.51	1.7	<0.50	20	890	19	<0.80	350	0.16	0.58	2.2	<0.50	---	<0.20	5.8	870	0.032	1.1	15	0.043	1.3	64	0.78
Plot 109	31-May-16	15867160531006	280	0.29	0.24	28	<0.40	---	2.6	0.36	<1.0	<0.50	13	440	13	<0.80	290	0.35	0.41	1.4	<0.50	---	<0.20	4.8	610	<0.020	<1.0	9.5	<0.040	<1.0	51	0.27
Plot 109	31-May-17	15867170531005	200	0.2	0.34	19	<0.40	---	<2.0	0.23	<1.0	<0.50	10	350	9.5	<0.80	380	0.058	0.36	<1.0	<0.50	---	<0.20	3.6	590	<0.026	1.4	9.6	<0.040	<1.0	44	0.83
Plot 109	30-May-18	15867180530006	310	0.32	0.62	28	<0.40	---	<3.7	0.3	2.3	<0.50	8.4	550	13	<3.1	680	0.53	0.61	2.6	<0.50	---	<0.20	4.4	750	<0.052	<1.0	9.2	<0.080	1.1	62	<1.0
Plot 109	30-May-19	15867190530015	492	0.302	0.889	33.6	0.02	0.268	3.9	0.36	1.54	0.351	9.69	705	12.3	<0.50	568	0.321	0.576	2.08	0.106	---	0.0904	7.05	970	0.0246	0.96	18.4	0.0351	1.39	79.8	0.53
Plot 109	03-Jun-20	15867200603009	775	0.455	0.9	45.1	0.027	0.372	4.3	0.561	2.38	0.463	14.6	1150	19.2	<0.50	634	1.01	0.682	2.84	0.145	---	0.139	7.01	1120	0.0423	1.47	27.9	0.0531	2.21	89.3	0.43
Plot 109	07-Jun-22	15867220607008	473	0.234	0.56	32.5	0.02	0.224	5.7	0.253	1.39	0.32	8.95	712	9.28	<0.50	826	0.477	0.405	1.7	0.116	---	0.07	7.05	1160	0.0256	0.82	16.4	0.0384	1.31	78	<0.20
Plot 109	29-May-24	15867240529028	517	0.258	0.548	36.6	0.02	---	7.4	0.228	1.31	0.338	8.7	712	9.77	<0.50	878	0.231	0.375	1.92	0.102	---	0.0755	8.24	1000	0.0233	0.86	17.3	0.0379	1.35	81.4	<0.80
Plot 109	17-Jun-25	15867250617007	74.7	0.023	0.066	6.38	<0.010	---	1.5	0.0351	0.161	0.048	1.33	104	0.903	<0.50	226	0.0396	0.041	0.24	<0.050	---	0.0112	1.6	200	0.0042	<0.10	3.05	0.0058	0.2	18.9	<0.20
Plot 109	17-Jun-25	15867250617007R	475	0.203	0.511	55.3	0.017	---	5.4	0.283	1.32	0.484	6.91	594	8.46	<0.50	858	---	0.316	1.56	0.107	---	0.0538	7.93	870	0.0226	0.66	17	0.0309	1.18	521	0.28
Plot 109*	17-Jun-25	15867250617008R	376	0.13	0.309	33.8	0.016	---	5.3	0.163	0.884	0.219	5.58	502	4.69	<0.50	825	---	0.236	1.23	0.089	---	0.0414	6.64	820	0.0195	0.44	13.1	0.0254	1	64.4	<0.20
Plot 110	15-May-08	15867080515006	685	<0.1	0.122	40.1	<0.5	---	4	0.09	<1.0	<1.0	3.9	345	<3.0	<0.4	424	0.58	0.1	<2.0	<1	112	<0.3	13.9	669	<0.02	<1.0	27	<0.04	1.2	59.2	0.4
Plot 110	12-Jun-09	15867090612020	1670	<0.1	0.252	43.4	<0.5	---	5	0.14	2.2	<1.0	5.8	994	4.2	0.7	734	0.36	0.25	2	<1	9710	<0.3	10.8	1240	0.02	<1.0	109	0.12	2.9	34.6	1.5
Plot 110	26-May-10	15867100526033	1640	<0.1	0.092	51.2	<0.5	---	4	0.14	1.9	<1.0	6.6	843	3.5	0.4	712	0.46	0.07	<2.0	<1	7880	<0.3	10.7	1490	<0.02	<1.0	64	0.06	2	52.1	<0.1
Plot 110	31-May-11	15867110531046	1230	<0.1	0.062	65.2	<0.5	---	7	0.17	1.6	<1.0	5.6	691	<3.0	0.4	736	0.18	0.15	<2.0	<1	5080	<0.3	21.9	1080	0.02	<1.0	53	0.05	0.9	68.9	1.8
Plot 110	01-Jun-12	15867120601059	1110	<0.1	0.122	47.4	<0.5	---	<2	0.14	<1.0	<1.0	2.7	638	<3.0	<0.4	643	0.32	<0.02	<2.0	<1	3440	0.9	12.3	1020	<0.02	<1.0	49	<0.04	1.4	54.4	<0.1
Plot 110	04-Jun-13	15867130604073	1660	2.5	0.308	38.6	<0.5	---	10	0.16	1.8	<1.0	6.6	923	3.1	0.9	393	0.26	0.26	<2.0	<1	5330	<0.3	9.5	820	0.04	<1.0	56	0.08	2.3	43	9.4
Plot 110	30-May-14	15867140530086	554	<0.1	0.099	35.9	<0.5	---	<2	0.1	1	<1.0	3	385	2.8	<0.4	458	0.51	0.09	<2.0	<1	2020	<0.3	12.9	668	0.04	<1.0	33	<0.04	1	51.4	<0.1
Plot 110	04-Jun-15	15867150604010	250	0.14	0.098	59	<0.40	---	4.8	0.16	<1.0	<0.50	8.1	390	3.5	<0.80	1100	<0.050	0.2	<1.0	<0.50	---	<0.20	23	900	0.026	<1.0	7.1	<0.040	<1.0	63	0.33
Plot 110	31-May-16	15867160531008	150	10	0.49	67	<0.40	---	5.7	0.16	<1.0	<0.50	9.5	250	3.6	<0.80	950	0.16	2.9	<1.0	<0.50	---	<0.20	24	850	0.021	1.9	5.4	<0.040	<1.0	65	<0.20
Plot 110	31-May-17	15867170531007	200	<0.12	0.19	61	<0.40	---	3.9	0.12	<1.0	0.53	5.2	380	3.7	<0.80	980	0.097	0.19	<1.0	<0.50	---	<0.20	22	760	<0.026	<1.0	6.9	<0.040	<1.0	50	0.72
Plot 110	30-May-18	15867180530007	270	<0.26	0.25	48	<0.40	---	6.3	0.13	7	<0.50	7.8	450	3.9	<3.1	1100	0.24	0.28	1.3	<0.50	---	1.3	15	870	<0.052	<1.0	6.1	<0.080	<1.0	71	<1.0
Plot 110	30-May-19	15867190530018	383	0.068	0.239	78.7	0.016	0.072	4.6	0.119	0.571	0.245	3.6	477	3.32	<0.50	912	0.16	0.159	0.81	0.105	---	0.0485	18.8	1080	0.0213	0.37	10.5	0.0626	0.94	62.3	0.21
Plot 110	03-Jun-20	15867200603011	304	0.05	0.161	70.5	0.01	0.056	5.6	0.0864	0.469	0.256	3.81	393	2.15	<0.50	1050	0.143	0.148	0.66	0.074	---	0.0236	19.6	840	0.0204	0.13	7.87	0.0308	0.81	61.3	<0.20
Plot 110	07-Jun-22	15867220607010	311	0.052	0.206	87.1	0.012	0.049	5.3	0.0933	0.503	0.426	4.02	450	1.99	<0.50	1200	0.148	0.185	0.64	0.084	---	0.0337	22.3	860	0.0228	0.12	6.99	0.0254	0.81	56.7	<0.20
Plot 110	29-May-24	15867240529024	283	0.044	0.154	78.9	0.01	---	5.6	0.0924	0.434	0.31	3.66	362	1.67	<0.50	968	0.128	0.124	0.65	0.062	---	0.0298	21.6	820	0.017	0.13	7.53	0.0226	0.74	51	0.22
Plot 110	17-Jun-25	15867250617009	128	0.013	0.073	37.4	<0.010	---	2.6	0.048	0.197	0.161	1.64	169	0.529	<0.50	562	0.0443	0.063	0.3	<0.050		0.0127	10.5	470	0.0063	4.64	<0.10	0.0091	0.32	22	<0.20
Plot 110	17-Jun-25	15867250617009R	279	0.033	0.151	74.4	0.011	---	7.1	0.15	0.486	0.247	4.82	366	1.41	<0.50	1270	---	0.113	0.72	0.072		0.0252	16.3	940	0.0149	6.59	0.18	0.0206	0.69	68.9	<0.20
Plot 114	15-May-08	15867080515007	1410	0.3	0.32	35.4	<0.5	---	4	0.61	2.4	<1.0	15.3	730	7.8	0.5	945	0.6	0.34	<2.0	<1	149	<0.3	8.6	846	0.05	1.4	70	0.05	2.3	70.6	1.5
Plot 114	12-Jun-09	15867090612021	1360	0.2	0.225	23.7	<0.5	---	3	0.52	3.3	<1.0	15.3	853	7.5	0.4	292	0.31	0.46	2.3	<1	5330	<0.3	6.8	960	0.02	<1.0	87	0.07	1.8	31	0.7
Plot 114	26-May-10	15867100526034	1340	0.3	0.248	38.4	<0.5	---	<2	0.88	3.6	<1.0	19.8	1070	12.1	<0.4	263	0.43	0.34	2.6	<1	6750	<0.3	7.9	1110	0.03	<1.0	103	0.07	2.2	49.6	<0.1
Plot 114	31-May-11	15867110531047	1950	0.5	0.211	34.6	<0.5	---	4	0.46	3.1	<1.0	15.3	989	9.8	0.5	324	0.21	0.34	2.6	<1	4490	<0.3	7.8	799	0.04	2.3	86	0.07	1.6	52	2.5
Plot 114	01-Jun-12	15867120601060	1560	<0.1	0.294	45	<0.5	---	<2	0.62	2.1	<1.0	16.6	942	8.8	<0.4	366	0.02	<0.02	<2.0	<1	3550	<0.3	6.9	807	<0.02	<1.0	87	<0.04	1.9	47.6	<0.1
Plot 114	04-Jun-13	15867130604074	1910	2.5	0.266	38.5	<0.5	---	9	0.76	2.7	<1.0	17	929	8.6	0.8	368	0.17	0.31	2.4	<1	3860	<0.3	7.8	752	0.05	<1.0	79	0.06	1.8	54.2	7
Plot 114	31-May-14	15867140531087	772	0.1	0.173	23.6	<0.5	---	<2	0.35	1.6	<1.0	7.8	466	6.7	<0.4	419	0.52	0.18	<2.0	<1	1820	<0.3	5.4	586	0.03	<1.0	44	<0.04	1.2	47.2	<0.1
Plot 114	04-Jun-15	15867150604007	2400	0.22	0.64	120	<0.40	---	4.8	0.98	2.2	2.6	14	2500	6.7	1.1	1200	0.19	0.64	4	<0.50	---	<0.20	37	1000	0.047	<1.0	16	0.31	3.8	48	2.7
Plot 114	01-Jun-16	15867160601010	220	0.12	0.14	68	<0.40	---	8.8	0.55	<1.0	<0.50	7.2	300	3.4	<0.80	1300	0.12	0.28	1.1	<0.50	---	<0.20	24	630	<0.020	<1.0	5.6	<0.040	<1.0	64	0.31
Plot 114	31-May-17	15867170531004	560	0.25	0.46	76	<0.40	---	8.7	0.7	1.1	0.65	9.6	780	8	<0.80	1300	0.24	0.63	2.5	<0.50	---	<0.20	24	830	0.028	1.3	18	0.077	1.4	71	1.7
Plot 114	30-May-18	15867180530004	560	0.27	0.43	61	<0.40	---	6.8	0.52	3.3	<0.50	12	660	9.8	<3.1	1200	0.4	0.69	2.7	<0.50	---	0.3	15	840	<0.052	1.2	15	<0.080	1.3	70	<1.0
Plot 114	31-May-19	15867190531024	587	0.213	0.516	29.2	0.016	0.249	4.7	0.344	0.962	0.359	8.84	493	7.72	<0.50	721	0.263	0.412	1.81	0.096	---	0.0905	6.85	790	0.0192	0.92	15.2	0.0228	0.87	77.6	<0.20
Plot 114	03-Jun-20	15867200603007	577	0.299	0.535	39.3	0.02	0.289	7.4	0.408	1.35	0.408	11.2	684	12.6	<0.50	1440	0.474	0.517	1.83	0.106	---	0.133	9.07	1050	0.0241	1.29	19.9	0.0308	1.18	114	<0.20
Plot 114	07-Jun-22	15867220607007	708	0.234	0.513	88.5	0.043	0.26	8.6	0.737	1.61	0.546	9.56	826	9.21	<0.50	1230	0.872	0.456	1.99	0.111	---	0.0931	27.8	950	0.0253	1.14	21.2	0.0689	1.5	89.9	0.29
Plot 114	30-May-24	15867240530035	771	0.25	0.567	59.2	0.025	---	7.3	0.909	1.36	0.564	8.91	710	9.33	<0.50	966	0.359	0.466	1.99	0.122	---	0.122	15.4	900	0.021	1.03	19.2	0.0428	1.38	91.2	0.25
Plot 114	16-Jun-25	15867250617005	655	0.157	0.381	56.4	0.021	---	5.2	0.489	1.02	0.42	6.99	564	6.99	<0.50	814	0.161	0.281	1.54	0.114	---	0.0849	13.8	880	0.0215	0.58	17.9	0.0321	1.11	70.2	0.33
Plot 117	15-May-08	15867080515008	677	<0.1	0.157	24.1	<0.5	---	3	0.21	<1.0	<1.0	5.3	361	<3.0	<0.4	509	0.57	0.12	<2.0	<1	201	<0.3	4.6	780	0.03	<1.0	28	<0.04	1.2	36.5	0.5
Plot 117	12-Jun-09	15867090612022	2850	0.1	0.307	67.1	<0.5	---	3	0.22	2.9	<1.0	6.6	1400	4.7	0.9	400	0.13	0.24	3.2	<1	12400	<0.3	13.5	1080	0.03	<1.0	154	0.12	4.2	19.9	3.4
Plot 117	26-May-10	15867100526035	1420	<0.1	<0.050	53.4	<0.5	---	<2	0.24	2.9	<1.0	5.6	700	3.6	<0.4	371	0.12	0.05	2.9	<1	7030	<0.3	11.4	981	<0.02	<1.0	60	0.05	1.5	24.8	<0.1
Plot 117	31-May-11	15867110531048	1900	0.1	0.102	62.2	<0.5	---	3	0.33	2.2	<1.0	7	843	3.9	0.5	505	0.09	0.15	3.1	<1	5280	<0.3	16.3	894	0.04	<1.0	69	0.05	1.6	34.4	2.2
Plot 117	01-Jun-12	15867120601061	1900	<0.1	0.225	50	<0.5	---	<2	0.42	1.6	1.7	4.4	1060	<3.0	<0.4	300	0.09	<0.02	<2.0	<1	10200	<0.3	16.5	1040	<0.02	<1.0	80	0.06	2.8	39.1	1.3
Plot 117	04-Jun-13	15867130604075	1600	2.4	0.183	37.1	<0.5	---	8	0.34	1.4	<1.0	7.4	740	4.2	0.7	233	0.15	0.16	2	<1	3760	<0.3	7.6	612	0.04	<1.0	47	0.05	1.8	25.8	6.8
Plot 117	31-May-14	15867140531088	720	<0.1	0.132	16.8	<0.5	---	<2	0.1	1.3	<1.0	3.7	462	2.1	<0.4	261	0.42	0.07	<2.0	<1	1760	<0.3	4.3	490	<0.02	<1.0	43	<0.04	1.2	21.5	<0.1
Plot 117	04-Jun-15	15867150604011	880	0.14	0.19	22	<0.40	---	2.5	0.35	<1.0	<0.50	12	580	3	<0.80	280	0.055	0.19	1.8	<0.50	---	<0.20	3.8	760	0.03	<1.0	8.7	<0.040	<1.0	35	1.1
Plot 117	01-Jun-16	15867160601009	470	<0.10	0.11	15	<0.40	---	3	0.2	<1.0	<0.50	8.5	250	1.5	<0.80	430	0.072	0.1	1.3	<0.50	---	<0.20	3.6	560	<0.020	<1.0	4.2	<0.040	<1.0	29	0.47
Plot 117	31-May-17	15867170531003	460	<0.12	0.17	29	<0.40	---	2.5	0.23	<1.0	<0.50	6.1	350	2.1	<0.80	480	<0.050	0.14	1.4	<0.50	---	<0.20	3.6	680	<0.026	1.1	6.2	<0.040	<1.0	32	1.4
Plot 117	30-May-18	15867180530005	490	<0.26	0.2	33	<0.40	---	<3.7	0.17	2	<0.50	5.3	370	2.1	<3.1	430	0.14	0.34	2.4	<0.50	---	<0.20	6.2	690	<0.052	<1.0	4.9	<0.080	<1.0	35	<1.0
Plot 117	31-May-19	15867190531023	739	0.058	0.217	20.4	0.018	0.053	2.6	0.184	0.571	0.36	3.9	387	2.26	<0.50	424	0.0739	0.124	1.7	0.109	---	0.0497	4.79	680	0.0135	0.24	7.26	0.0206	0.75	31.6	<0.20
Plot 117	03-Jun-20	15867200603006	630	0.09	0.192	28.4	0.016	0.067	3.4	0.269	0.6	0.382	5.86	438	2.21	<0.50	509	0.146	0.149	1.76	0.101	---	0.0864	6.69	820	0.0164	0.24	9.57	0.021	0.82	43.6	<0.20
Plot 117	07-Jun-22	15867220607006	747	0.071	0.214	28.3	0.017	0.061	3.8	0.201	0.656	0.391	4.18	436	2.03	<0.50	549	0.114	0.163	1.82	0.11	---	0.0509	4.74	720	0.0228	0.52	9.66	0.0216	0.78	43.4	0.27
Plot 117	30-May-24	15867240530034	787	0.066	0.234	27	0.018	---	4.2	0.266	0.615	0.396	4.69	462	2.08	<0.50	479	0.107	0.142	1.91	0.119	---	0.0706	5.95	950	0.0192	0.38	10.9	0.0227	0.89	43.6	0.25

TABLE G1

Historical Live Moss Quality Results - Metals

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	Al mg/kg	Sb mg/kg	As mg/kg	Ba mg/kg	Be mg/kg	Bi mg/kg	B mg/kg	Cd mg/kg	Cr mg/kg	Co mg/kg	Cu mg/kg	Fe mg/kg	Pb mg/kg	Li mg/kg	Mn mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	Se mg/kg	Si mg/kg	Ag mg/kg	Sr mg/kg	S mg/kg	Tl mg/kg	Sn mg/kg	Ti mg/kg	U mg/kg	V mg/kg	Zn mg/kg	Zr mg/kg
Plot 123	15-May-08	15867080515009	854	<0.1	0.16	44.9	<0.5	---	3	0.09	1.3	<1.0	3.7	426	<3.0	<0.4	592	0.44	0.13	2.6	<1	128	<0.3	8.3	795	<0.02	<1.0	34	<0.04	1.4	42.6	0.7
Plot 123	12-Jun-09	15867090612023	1250	<0.1	0.15	57.7	<0.5	---	4	0.12	1.5	<1.0	5.1	707	<3.0	0.4	387	0.1	0.27	<2.0	<1	7560	<0.3	10.7	1310	<0.02	<1.0	64	0.07	1.8	16.7	0.2
Plot 123	26-May-10	15867100526036	1530	<0.1	0.092	66.7	<0.5	---	3	0.11	1.2	<1.0	5.2	758	<3.0	<0.4	873	0.1	0.06	<2.0	<1	7320	<0.3	10.1	1690	<0.02	<1.0	62	0.05	1.8	46	<0.1
Plot 123	31-May-11	15867110531049	894	<0.1	<0.050	38.8	<0.5	---	3	0.05	1.4	<1.0	3.9	506	<3.0	<0.4	766	0.05	0.11	<2.0	<1	3640	<0.3	6.8	795	0.02	<1.0	39	<0.04	<0.6	27.9	1.5
Plot 123	01-Jun-12	15867120601062	673	<0.1	0.054	33.4	<0.5	---	<2	0.05	<1.0	<1.0	0.5	374	<3.0	<0.4	482	0.05	<0.02	<2.0	<1	1970	<0.3	4.8	636	<0.02	<1.0	30	<0.04	0.7	17	<0.1
Plot 123	04-Jun-13	15867130604076	933	2.3	0.054	53.6	<0.5	---	11	0.14	<1.0	<1.0	6.6	467	<3.0	0.5	507	0.06	0.17	<2.0	<1	4670	<0.3	9.8	701	0.02	<1.0	34	<0.04	1.3	29.8	4.7
Plot 123	30-May-14	15867140530089	319	<0.1	0.12	30.3	<0.5	---	<2	0.03	<1.0	<1.0	1.9	210	0.8	<0.4	333	0.34	0.07	<2.0	<1	1680	<0.3	8.1	525	0.03	<1.0	17	<0.04	0.7	24.4	<0.1
Plot 123	03-Jun-15	15867150603001	300	0.1	0.13	24	<0.40	---	3.2	0.12	<1.0	<0.50	10	440	1.1	<0.80	750	<0.050	0.13	1.3	<0.50	---	<0.20	5.2	950	0.024	<1.0	6.5	<0.040	<1.0	58	1.7
Plot 123	30-May-16	15867160530003	180	<0.10	0.067	21	<0.40	---	3.6	0.058	<1.0	<0.50	7	200	0.53	<0.80	580	0.058	<0.10	<1.0	<0.50	---	<0.20	3.3	570	<0.020	<1.0	2.8	<0.040	<1.0	31	<0.20
Plot 123	31-May-17	15867170531009	300	<0.12	0.11	19	<0.40	---	3.4	0.081	<1.0	<0.50	5.2	240	0.58	<0.80	580	<0.050	<0.10	<1.0	<0.50	---	<0.20	3.8	670	<0.026	<1.0	3.5	<0.040	<1.0	30	0.55
Plot 123	31-May-18	15867180531009	380	<0.26	0.24	31	<0.40	---	<3.7	0.12	1.7	<0.50	6.4	400	1.1	<3.1	890	0.13	0.23	2	<0.50	---	0.49	5.3	830	<0.052	<1.0	3.8	<0.080	<1.0	48	1.4
Plot 123	30-May-19	15867190530014	329	0.025	0.158	31	0.015	0.014	4.1	0.0944	0.449	0.256	3.86	388	0.789	<0.50	864	0.0896	0.083	1.23	0.091	---	0.0366	6.81	950	0.0225	0.24	8.06	0.0232	0.79	57.5	0.24
Plot 123	02-Jun-20	15867200602003	496	0.044	0.179	34.8	0.018	0.02	5.4	0.107	0.645	0.273	4.12	541	1.29	<0.50	912	0.113	0.121	1.35	0.092	---	0.0385	6.99	960	0.0304	0.14	10.1	0.0264	1.09	53.5	<0.20
Plot 123	06-Jun-22	15867220606003	428	0.031	0.153	17.7	0.016	0.014	4.3	0.0733	0.48	0.192	3.47	392	0.745	<0.50	798	0.259	0.076	1.14	0.071	---	0.0286	4.99	790	0.0204	0.2	7.48	0.0211	0.77	49.9	0.21
Plot 123	28-May-24	15867240528007	486	0.043	0.148	35.7	0.018	---	7	0.0953	0.522	0.238	3.71	410	0.744	<0.50	1100	0.1	0.081	1.33	0.068	---	0.0326	7.61	940	0.0243	0.16	8.92	0.022	0.86	57.7	0.26
Plot 123	16-Jun-25	15867250616001	576	0.032	0.154	17.9	0.017	---	3.3	0.115	0.434	0.242	3.85	373	0.571	<0.50	981	0.085	0.069	1.33	0.079	---	0.0528	5.19	890	0.0265	0.28	10.7	0.0198	0.75	49.6	0.31
Plot 402	15-May-08	15867080515010	1030	<0.1	0.177	31	<0.5	---	3	0.07	1.1	<1.0	3.1	438	<3.0	<0.4	787	0.48	0.11	<2.0	<1	162	<0.3	10.5	703	<0.02	<1.0	39	<0.04	1.6	51.1	0.8
Plot 402	12-Jun-09	15867090612024	1650	<0.1	0.185	47.5	<0.5	---	4	0.08	1.9	<1.0	3.8	845	<3.0	0.5	622	0.1	0.14	<2.0	<1	8480	<0.3	12.6	1140	0.02	<1.0	89	0.09	2.3	30.9	1.3
Plot 402	25-May-10	15867100525037	1360	<0.1	0.052	54.4	<0.5	---	3	0.29	1.3	<1.0	5.1	819	<3.0	0.5	795	0.08	0.03	<2.0	<1	7590	<0.3	11.7	1450	<0.02	<1.0	67	0.06	1.8	56.7	<0.1
Plot 402	31-May-11	15867110531050	2030	<0.1	0.112	63.5	<0.5	---	4	0.13	3	<1.0	4.8	946	<3.0	0.6	561	0.08	0.17	2	<1	7830	<0.3	23.6	924	0.04	<1.0	85	0.08	1.7	47.5	2.7
Plot 402	01-Jun-12	15867120601063	1630	<0.1	0.137	59.4	<0.5	---	<2	0.55	<1.0	<1.0	2	790	<3.0	<0.4	406	0.05	<0.02	<2.0	<1	3210	<0.3	13.6	907	<0.02	<1.0	68	0.06	1.7	46.8	<0.1
Plot 402	04-Jun-13	15867130604077	1500	2.2	0.146	68.1	<0.5	---	16	0.36	1.5	1.2	6.7	738	<3.0	0.9	1710	0.11	0.12	<2.0	<1	5870	<0.3	28.7	987	0.04	<1.0	55	0.06	1.6	77.4	5.9
Plot 402	30-May-14	15867140530090	1030	<0.1	0.18	31.4	<0.5	---	<2	0.03	1.8	<1.0	2.9	636	1.3	<0.4	543	0.38	0.08	<2.0	<1	3120	<0.3	7.6	582	0.08	<1.0	61	0.06	1.9	34	<0.1
Plot 402	04-Jun-15	15867150604012	350	<0.10	0.15	18	<0.40	---	<2.0	0.23	<1.0	<0.50	11	480	0.78	<0.80	290	<0.050	<0.10	<1.0	<0.50	---	<0.20	6.2	630	<0.020	<1.0	6.6	<0.040	<1.0	41	0.95
Plot 402	30-May-16	15867160530001	320	<0.10	0.19	24	<0.40	---	4.1	0.21	<1.0	<0.50	8.7	460	0.82	<0.80	320	0.054	<0.10	<1.0	<0.50	---	<0.20	7.9	590	<0.020	<1.0	6.8	<0.040	<1.0	30	0.46
Plot 402	31-May-17	15867170531001	430	0.16	0.25	32	<0.40	---	4.4	0.11	1	0.68	9.3	640	1.4	<0.80	440	<0.050	0.1	1.4	<0.50	---	<0.20	10	810	<0.026	<1.0	9.9	0.056	1.1	38	3.4
Plot 402	29-May-18	15867180529001	460	<0.26	0.27	38	<0.40	---	5.7	0.13	2.7	<0.50	6.5	660	1.3	<3.1	730	0.17	0.43	2.8	<0.50	---	<0.20	15	880	<0.052	<1.0	12	<0.080	1.4	53	<1.0
Plot 402	30-May-19	15867190530010	700	0.029	0.284	49.9	0.031	<0.010	3.8	0.129	0.921	0.48	3.69	791	1.07	<0.50	720	0.0951	0.101	1.48	0.09	---	0.0371	14	1070	0.0232	0.13	14.9	0.0533	1.63	56.6	0.64
Plot 402	02-Jun-20	15867200602001	771	0.036	0.278	56	0.032	0.016	5.5	0.0901	0.985	0.584	4.51	834	1.3	<0.50	647	0.127	0.102	1.71	0.093	---	0.0301	18.8	860	0.0219	0.11	15.5	0.0686	1.69	59.4	0.38
Plot 402	06-Jun-22	15867220606001	1470	0.036	0.568	49.8	0.045	0.022	4.5	0.138	1.64	0.713	4.19	1300	1.66	0.57	515	0.115	0.163	1.89	0.124	---	0.205	15.9	780	0.0419	3.53	23.9	0.128	3.34	53.4	0.85
Plot 402	27-May-24	15867240527001	570	0.033	0.258	58.2	0.03	---	7.1	0.289	1.02	0.608	4.05	670	0.906	<0.50	741	0.0968	0.123	1.6	0.091	---	0.0318	22.2	930	0.0275	0.18	13.2	0.0515	1.32	64.8	0.66
Plot 402	16-Jun-25	15867250616002	3260	0.025	0.726	86.9	0.089	---	7.9	0.298	2.85	1.28	5.31	2210	1.79	1.85	976	0.088	0.163	3.11	0.145	---	0.0376	26.1	920	0.0503	0.14	40.8	0.631	5.16	67	1.36

Notes:

* - duplicate sample

R - MSI Sample numbers denoted with an "R" represent an aliquot that was analyzed for the sample. At the laboratory's recommendation, these results were not utilized in any statistical analysis as they may be biased

TABLE G2

Historical Live Moss Quality Results - Macronutrients

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	pH	EC dS/m	Saturation %	Ca mg/kg	Mg mg/kg	K mg/kg	Na mg/kg	P mg/kg	S mg/kg
Plot 4	15-May-08	15867080515001	6.1	0.553	1410	3650	603	2550	289	907	842
Plot 4	12-Jun-09	15867090612013	4.74	0.546	1180	5260	741	2900	259	1110	1230
Plot 4	25-May-10	15867100525028	5.08	0.614	1000	6640	1050	4580	330	1450	1740
Plot 4	31-May-11	15867110531041	4.78	0.984	628	7600	888	3250	349	1070	963
Plot 4	01-Jun-12	15867120601054	5.2	0.831	771	6380	1030	3690	529	983	778
Plot 4	05-Jun-13	15867130605067	5.03	0.311	1040	6220	778	2600	361	908	844
Plot 4	29-May-14	15867140529081	4.93	0.594	900	7750	713	3460	291	959	880
Plot 4	03-Jun-15	15867150603006	4.27	0.609	778	7800	890	2100	<50	1000	920
Plot 4	31-May-16	15867160531005	4.4	1.12	579	7900	850	2000	<50	990	830
Plot 4	31-May-17	15867170531008	4.6	0.643	894	6800	870	2200	<50	1100	980
Plot 4	29-May-18	15867180529003	4.62	0.785	636	8700	900	3400	<50	1200	1100
Plot 4	31-May-19	15867190531030	4.51	0.658	684	7420	1060	2640	35	1300	1100
Plot 4	03-Jun-20	15867200603008	4.61	1.29	535	7980	877	2330	45	1230	1100
Plot 4	29-May-24	15867240529026	4.67	0.146	1300	8060	994	3260	39	1350	1050
Plot 4	17-Jun-25	15867250617006	4.98	0.097	1300	9160	1020	3260	33	1310	1080
Plot 11	15-May-08	15867080515002	5.67	0.624	1450	4990	716	3290	174	1010	850
Plot 11	12-Jun-09	15867090612014	4.69	0.407	2000	4320	643	3020	183	1150	1430
Plot 11	26-May-10	15867100526029	4.81	0.479	1060	5290	821	3910	264	1180	1500
Plot 11	31-May-11	15867110531042	4.52	0.928	929	5530	967	3940	183	1030	868
Plot 11	01-Jun-12	15867120601055	4.62	0.643	872	5100	838	3190	580	905	795
Plot 11	05-Jun-13	15867130605068	4.8	0.548	994	5160	844	3130	346	1130	952
Plot 11	31-May-14	15867140531082	4.58	0.663	1230	5440	692	4400	153	1080	814
Plot 11	03-Jun-15	15867150603003	4.25	0.51	999	5700	750	3100	<50	1000	840
Plot 11	31-May-16	15867160531004	4.47	1	634	6600	680	1700	<50	880	710
Plot 11	01-Jun-17	15867170601010	4.57	0.501	969	5200	720	2100	<50	970	790
Plot 11	31-May-18	15867180531012	4.55	0.695	791	5700	740	3900	<50	1200	810
Plot 11	01-Jun-19	15867190601032	4.48	0.469	1030	4970	1000	4790	27	1490	1060
Plot 11	02-Jun-20	15867200602004	4.5	0.948	737	4030	694	2540	28	1120	920
Plot 11	28-May-24	15867240528017	4.92	0.184	1160	6710	752	2670	28	1070	880
Plot 11	18-Jun-25	15867250618010	4.99	0.105	927	4740	471	2030	21	717	540
Plot 11	18-Jun-25	15867250618010R	---	---	---	10800	1260	3680	48	1480	1080
Plot 28	05-Jun-13	15867130605069	4.61	0.434	1260	3800	566	2840	189	871	737
Plot 28	03-Jun-15	15867150603002	4.08	0.482	1010	4000	860	3200	<50	1200	950
Plot 40	15-May-08	15867080515011	4.81	0.625	977	4380	703	2370	368	829	869
Plot 40	12-Jun-09	15867090612025	4.94	0.477	1100	6930	677	2240	510	882	1300
Plot 40	25-May-10	15867100525038	4.74	0.541	956	6780	1020	3990	354	1070	1430
Plot 40	31-May-11	15867110531051	4.72	1.26	616	8440	991	3480	384	1160	1040
Plot 40	01-Jun-12	15867120601064	4.63	0.556	756	6520	796	3170	495	890	901
Plot 40	05-Jun-13	15867130605078	4.88	0.5	1530	8790	962	3540	507	1070	880
Plot 40	29-May-14	15867140529091	4.73	0.433	1290	7820	703	3450	334	869	871

TABLE G2

Historical Live Moss Quality Results - Macronutrients

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	pH	EC dS/m	Saturation %	Ca mg/kg	Mg mg/kg	K mg/kg	Na mg/kg	P mg/kg	S mg/kg
Plot 41	15-May-08	15867080515012	5.4	0.838	1060	5100	686	3210	239	1170	1030
Plot 41	12-Jun-09	15867090612026	4.24	0.485	1830	4520	807	4380	135	1310	1210
Plot 41	26-May-10	15867100526039	4.35	0.738	975	5550	1130	3650	199	1060	1360
Plot 41	31-May-11	15867110531052	4.45	0.862	1460	6310	1050	4400	181	1170	948
Plot 41	01-Jun-12	15867120601065	4.37	0.623	1050	4330	774	3290	247	948	1010
Plot 41	05-Jun-13	15867130605079	4.64	0.54	1410	5430	780	3210	179	1090	848
Plot 41	31-May-14	15867140531092	4.42	0.535	2140	3780	815	8180	69	1230	765
Plot 70	15-May-08	15867080515003	5.88	0.717	688	2490	1060	4480	1510	720	796
Plot 70a	12-Jun-09	15867090612015	4.71	0.503	1250	3160	566	3760	776	941	1170
Plot 70b	12-Jun-09	15867090612016	4.33	0.369	1620	2530	606	3120	366	918	1170
Plot 70c	12-Jun-09	15867090612017	4.26	0.386	1060	2230	549	2790	398	773	1090
Plot 70	25-May-10	15867100525030	4.89	0.787	918	8670	1270	4710	586	1340	1780
Plot 70	31-May-11	15867110531043	5.15	0.949	830	4070	1110	4470	577	1050	991
Plot 70	01-Jun-12	15867120601056	4.76	0.832	1100	2800	984	3780	401	835	820
Plot 70	05-Jun-13	15867130605070	4.49	0.374	1500	3770	866	2620	359	850	735
Plot 70	31-May-14	15867140531083	4.76	0.288	1220	3910	656	2550	559	717	787
Plot 70	04-Jun-15	15867150604015	4.56	0.624	886	4300	1100	3400	<50	1000	840
Plot 70	02-Jun-16	15867160602012	4.4	0.596	751	4000	580	1900	<50	900	750
Plot 70	01-Jun-17	15867170601012	4.47	0.524	1220	3700	830	2900	84	1100	870
Plot 70	31-May-18	15867180531011	4.5	0.685	1040	5100	840	2800	<50	1200	990
Plot 70	01-Jun-19	15867190601041	4.52	0.599	1100	4080	1130	4950	79	1560	1060
Plot 70	02-Jun-20	15867200602005	4.31	0.556	996	4230	916	4130	74	1340	980
Plot 70	30-May-24	15867240530037	4.5	0.171	1150	4420	845	3590	54	1090	700
Plot 70	16-Jun-25	15867250616004	5.04	0.066	1280	5080	1000	3500	56	1360	1060
Plot 71	15-May-08	15867080515004	6.27	0.664	1040	4960	719	2460	292	833	774
Plot 71	12-Jun-09	15867090612018	4.81	0.507	1110	6710	820	2070	461	893	1430
Plot 71	25-May-10	15867100525031	5.43	0.955	893	8900	1810	4550	364	1540	1690
Plot 71	31-May-11	15867110531044	4.72	0.631	1240	7100	978	3770	262	1200	1030
Plot 71	01-Jun-12	15867120601057	4.95	0.638	882	6730	742	2760	316	903	982
Plot 71	05-Jun-13	15867130605071	4.78	0.397	1910	5990	1570	7120	3570	831	555
Plot 71	31-May-14	15867140531084	4.72	0.59	1300	7370	997	3520	385	864	975
Plot 71	04-Jun-15	15867150604014	4.63	0.648	933	7200	970	2900	<50	1100	1000
Plot 71	02-Jun-16	15867160602011	4.35	0.613	726	4000	530	1900	<50	750	570
Plot 71	01-Jun-17	15867170601011	4.49	0.461	980	6500	830	3500	<50	1100	760
Plot 71	31-May-18	15867180531010	4.77	0.735	924	6700	800	3600	100	1100	850
Plot 71	01-Jun-19	15867190601039	4.39	0.445	869	6200	1180	4440	193	1320	950
Plot 71	03-Jun-20	15867200604012	4.5	0.641	892	7070	803	3150	64	1150	970
Plot 71	30-May-24	15867240530036	4.68	0.188	1020	7010	981	3140	68	1210	910
Plot 71	18-Jun-25	15867250618011	5.29	0.12	1320	7540	989	3450	65	1220	1000

TABLE G2

Historical Live Moss Quality Results - Macronutrients

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	pH	EC dS/m	Saturation %	Ca mg/kg	Mg mg/kg	K mg/kg	Na mg/kg	P mg/kg	S mg/kg
Plot 109	15-May-08	15867080515005	5.43	0.49	1170	3210	593	2340	275	770	734
Plot 109	12-Jun-09	15867090612019	4.61	0.426	1430	4650	612	2350	207	959	1360
Plot 109	26-May-10	15867100526032	5.68	0.588	1170	6790	1060	4130	301	1300	1810
Plot 109	31-May-11	15867110531045	4.35	0.612	908	5540	977	3780	678	837	861
Plot 109	01-Jun-12	15867120601058	4.84	0.43	1220	3500	623	2970	205	699	810
Plot 109	05-Jun-13	15867130605072	4.58	0.573	1450	7190	1050	3880	239	1100	850
Plot 109	30-May-14	15867140530085	4.54	0.442	1480	5050	872	3780	166	915	826
Plot 109	04-Jun-15	15867150604008	4.11	0.441	1110	4000	600	2700	<50	1000	870
Plot 109	31-May-16	15867160531006	4.2	0.554	912	3500	500	2100	<50	760	610
Plot 109	31-May-17	15867170531005	4.25	0.47	1030	3200	590	3000	<50	780	590
Plot 109	30-May-18	15867180530006	4.38	0.50	843	4400	660	3500	<50	940	750
Plot 109	30-May-19	15867190530015	4.4	0.58	760	5240	800	3320	28	1230	970
Plot 109	03-Jun-20	15867200603009	4.14	0.74	707	5450	634	2060	40	1200	1120
Plot 109	29-May-24	15867240529028	5	0.261	1030	7160	842	2760	30	1160	1000
Plot 109	17-Jun-25	15867250617007	5.01	0.144	903	1690	214	965	<20	298	200
Plot 109	17-Jun-25	15867250617007R	---	---	---	7510	1080	2450	22	1090	870
Plot 109*	17-Jun-25	15867250617008R	---	---	---	5870	1010	3660	24	1250	820
Plot 110	15-May-08	15867080515006	5.28	0.6	1180	5300	592	2970	102	836	669
Plot 110	12-Jun-09	15867090612020	5.01	0.581	997	6620	774	1970	266	957	1240
Plot 110	26-May-10	15867100526033	4.53	0.495	1100	6800	915	3720	213	1200	1490
Plot 110	31-May-11	15867110531046	4.47	1.1	680	8270	1070	4130	177	1230	1080
Plot 110	01-Jun-12	15867120601059	4.49	0.517	1060	5960	690	3290	160	1040	1020
Plot 110	04-Jun-13	15867130604073	4.96	0.314	892	4810	608	3080	240	953	820
Plot 110	30-May-14	15867140530086	4.81	0.314	1990	4590	739	4190	85	952	668
Plot 110	04-Jun-15	15867150604010	4.66	0.742	963	8500	860	3400	<50	1200	900
Plot 110	31-May-16	15867160531008	4.55	0.872	648	8200	710	3200	<50	1200	850
Plot 110	31-May-17	15867170531007	4.61	0.71	1180	6100	850	3300	<50	1100	760
Plot 110	30-May-18	15867180530007	4.72	0.758	925	9300	720	3100	<50	1100	870
Plot 110	30-May-19	15867190530018	4.81	0.865	962	6160	1030	5930	21	1720	1080
Plot 110	03-Jun-20	15867200603011	4.53	0.824	812	7670	819	3270	26	1270	840
Plot 110	29-May-24	15867240529024	4.64	0.181	948	6920	830	3480	26	1240	820
Plot 110	17-Jun-25	15867250617009	4.53	0.177	1130	3240	529	2350	<20	802	470
Plot 110	17-Jun-25	15867250617009R	---	---	---	8660	873	3080	30	1370	940
Plot 114	15-May-08	15867080515007	5.65	0.557	1450	5040	765	3710	242	1000	846
Plot 114	12-Jun-09	15867090612021	4.5	0.412	1520	2950	568	2440	184	816	960
Plot 114	26-May-10	15867100526034	5.1	0.43	995	3010	760	3380	262	816	1110
Plot 114	31-May-11	15867110531047	4.27	0.449	903	3750	652	2960	246	733	799
Plot 114	01-Jun-12	15867120601060	4.84	0.425	1270	2780	686	2920	228	701	807
Plot 114	04-Jun-13	15867130604074	4.7	0.316	1980	3720	754	2660	221	908	752
Plot 114	31-May-14	15867140531087	4.39	0.365	2160	3530	716	5150	107	861	586
Plot 114	04-Jun-15	15867150604007	5.15	0.808	929	8700	1300	2500	60	1100	1000
Plot 114	01-Jun-16	15867160601010	4.07	0.647	740	9300	690	1800	<50	790	630
Plot 114	31-May-17	15867170531004	3.99	0.286	1070	8000	940	2100	63	930	830
Plot 114	30-May-18	15867180530004	4.31	0.765	589	6200	720	3100	<50	1000	840
Plot 114	31-May-19	15867190531024	4.25	0.492	884	4430	906	3120	31	1050	790
Plot 114	03-Jun-20	15867200603007	4.68	0.922	719	7240	817	3030	33	1230	1050
Plot 114	30-May-24	15867240530035	5.03	0.227	960	5870	707	2570	30	1100	900
Plot 114	16-Jun-25	15867250617005	5	0.186	1220	5930	867	3560	45	1120	880

TABLE G2

Historical Live Moss Quality Results - Macronutrients

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	pH	EC dS/m	Saturation %	Ca mg/kg	Mg mg/kg	K mg/kg	Na mg/kg	P mg/kg	S mg/kg
Plot 117	15-May-08	15867080515008	5.48	0.547	1740	3180	852	3980	108	986	780
Plot 117	12-Jun-09	15867090612022	4.55	0.385	1300	3510	595	2040	384	776	1080
Plot 117	26-May-10	15867100526035	5.2	0.296	1480	3690	871	3580	219	766	981
Plot 117	31-May-11	15867110531048	4.73	0.828	951	5050	950	4020	262	1050	894
Plot 117	01-Jun-12	15867120601061	4.48	0.622	1290	4000	1140	4400	220	967	1040
Plot 117	04-Jun-13	15867130604075	4.92	0.219	1610	2820	567	2260	166	658	612
Plot 117	31-May-14	15867140531088	4.25	0.176	2970	2180	501	3300	105	603	490
Plot 117	04-Jun-15	15867150604011	4.17	0.512	926	2700	580	1600	<50	770	760
Plot 117	01-Jun-16	15867160601009	4.16	0.531	761	3100	590	2100	<50	690	560
Plot 117	31-May-17	15867170531003	4.27	0.418	999	2800	720	2800	<50	890	680
Plot 117	30-May-18	15867180530005	4.33	0.555	1030	3500	840	3800	<50	940	690
Plot 117	31-May-19	15867190531023	4.33	0.447	840	2800	708	2570	27	852	680
Plot 117	03-Jun-20	15867200603006	4.37	0.453	1030	3780	677	3310	30	1240	820
Plot 117	30-May-24	15867240530034	4.27	0.181	1090	3620	746	2730	28	1030	950
Plot 123	15-May-08	15867080515009	4.94	0.519	1520	4290	835	3470	150	930	795
Plot 123	12-Jun-09	15867090612023	4.95	0.776	1100	3360	853	2570	188	1030	1310
Plot 123	26-May-10	15867100526036	4.54	0.592	858	5540	993	3680	204	1150	1690
Plot 123	31-May-11	15867110531049	4.09	0.655	1130	4080	994	4330	152	908	795
Plot 123	01-Jun-12	15867120601062	4.42	0.257	1880	2630	539	3120	115	647	636
Plot 123	04-Jun-13	15867130604076	4.57	0.389	1830	3520	1000	4120	153	1050	701
Plot 123	30-May-14	15867140530089	5.15	0.259	3130	3260	944	4700	67	683	525
Plot 123	03-Jun-15	15867150603001	4.39	0.611	887	5300	790	3200	58	1300	950
Plot 123	30-May-16	15867160530003	4.38	0.688	740	3600	620	2700	<50	850	570
Plot 123	31-May-17	15867170531009	4.31	0.448	1090	3800	700	2800	<50	950	670
Plot 123	31-May-18	15867180531009	4.44	0.735	832	5200	700	3100	<50	1100	830
Plot 123	30-May-19	15867190530014	4.24	0.582	660	5480	974	4080	34	1390	950
Plot 123	02-Jun-20	15867200602003	4.22	0.765	822	5460	694	2990	25	1240	960
Plot 123	28-May-24	15867240528007	4.72	0.267	1020	6960	758	2550	30	1210	940
Plot 123	16-Jun-25	15867250616001	5.06	0.114	1300	4900	792	4020	34	1340	890
Plot 402	15-May-08	15867080515010	5.68	0.424	1810	3960	894	4450	197	1150	703
Plot 402	12-Jun-09	15867090612024	4.62	0.539	1220	5470	704	2380	296	902	1140
Plot 402	25-May-10	15867100525037	4.81	0.609	1200	5020	957	5840	276	1190	1450
Plot 402	31-May-11	15867110531050	4.51	0.95	877	7990	1110	4170	362	1130	924
Plot 402	01-Jun-12	15867120601063	4.44	0.516	1180	3730	796	3680	274	970	907
Plot 402	04-Jun-13	15867130604077	5.34	0.623	1140	11400	1120	2900	238	1200	987
Plot 402	30-May-14	15867140530090	4.3	0.306	2370	3360	710	5820	183	888	582
Plot 402	04-Jun-15	15867150604012	4.44	0.496	1360	3100	550	3200	<50	670	630
Plot 402	30-May-16	15867160530001	4.41	0.67	898	3500	420	1400	<50	660	590
Plot 402	31-May-17	15867170531001	4.48	0.516	1040	4900	760	3200	<50	1100	810
Plot 402	29-May-18	15867180529001	4.73	0.708	1030	6600	840	3800	160	1200	880
Plot 402	30-May-19	15867190530010	4.65	0.615	850	5870	1210	5300	23	1630	1070
Plot 402	02-Jun-20	15867200602001	4.5	0.648	975	8500	710	2810	<20	1220	860
Plot 402	27-May-24	15867240527001	4.65	0.15	1160	8940	890	3080	26	1200	930
Plot 402	16-Jun-25	15867250616002	4.72	0.161	862	10300	1200	3020	33	1280	920

Notes:

* - duplicate sample

R - MSI Sample numbers denoted with an "R" represent an aliquot that was analyzed for the sample. At the laboratory's recommendation, these results were not utilized in any statistical analysis as they may be biased

TABLE G3

Historical Labrador Tea Leaves Quality Results - Metals

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	Al mg/kg	Sb mg/kg	As mg/kg	Ba mg/kg	Be mg/kg	Bi mg/kg	B mg/kg	Cd mg/kg	Cr mg/kg	Co mg/kg	Cu mg/kg	Fe mg/kg	Pb mg/kg	Li mg/kg	Mn mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	Se mg/kg	Si mg/kg	Ag mg/kg	Sr mg/kg	S mg/kg	Tl mg/kg	Sn mg/kg	Ti mg/kg	U mg/kg	V mg/kg	Zn mg/kg	Zr mg/kg
Plot 4	15-May-08	15867080515101	326	0.1	0.142	84.4	<0.5	---	19	0.21	1	<1.0	6.3	199	<3.0	<0.4	499	0.06	0.1	3.4	<1	114	<0.3	7	1020	0.1	1.5	15	<0.04	<0.6	26.6	<0.1
Plot 4	12-Jun-09	15867090612113	160	<0.1	<0.050	71.3	<0.5	---	17	0.02	<1.0	<1.0	4.3	128	<3.0	<0.4	592	0.03	0.05	<2.0	<1	1730	<0.3	4.4	1270	<0.02	<1.0	10	<0.04	<0.6	16.7	<0.1
Plot 4	25-May-10	15867100525128	269	<0.1	<0.050	87.8	<0.5	---	17	0.03	<1.0	<1.0	4	180	<3.0	<0.4	704	0.02	<0.02	<2.0	<1	1940	<0.3	4.9	1720	<0.02	<1.0	12	<0.04	<0.6	25.1	<0.1
Plot 4	31-May-11	15867110531140	418	<0.1	<0.050	105	<0.5	---	22	<0.02	<1.0	<1.0	5.3	248	<3.0	<0.4	894	0.02	0.06	<2.0	<1	1080	<0.3	7	1270	<0.02	<1.0	20	<0.04	<0.6	33.4	0.8
Plot 4	01-Jun-12	15867120601152	352	<0.1	<0.050	102	<0.5	---	13	0.04	<1.0	<1.0	3.5	202	<3.0	<0.4	915	0.06	<0.02	<2.0	<1	1240	<0.3	7.6	1040	<0.02	<1.0	17	<0.04	<0.6	27.9	<0.1
Plot 4	05-Jun-13	15867130605164	384	2.2	<0.050	81.5	<0.5	---	33	0.08	<1.0	<1.0	6.3	209	<3.0	<0.4	1010	0.05	0.02	<2.0	<1	1510	<0.3	5.2	1040	<0.02	<1.0	15	<0.04	<0.6	41	4
Plot 4	29-May-14	15867140529177	287	<0.1	0.06	135	<0.5	---	<2	0.02	<1.0	<1.0	5.2	194	1.9	<0.4	1110	0.39	0.14	<2.0	<1	475	<0.3	8.2	1390	<0.02	<1.0	14	<0.04	<0.6	38.6	<0.1
Plot 4	03-Jun-15	15867150603106	130	<0.10	<0.050	91	<0.40	---	20	0.045	<1.0	<0.50	10	150	1.2	<0.80	960	<0.050	0.13	1	<0.50	---	<0.20	5	1000	0.023	<1.0	3.2	<0.040	<1.0	32	0.29
Plot 4	31-May-16	15867160531105	56	<0.10	<0.050	71	<0.40	---	16	<0.020	<1.0	<0.50	2.8	52	0.68	<0.80	490	<0.050	<0.10	<1.0	<0.50	---	<0.20	3.9	750	<0.020	<1.0	<1.0	<0.040	<1.0	21	<0.20
Plot 4	31-May-17	15867170531108	80	<0.12	0.25	88	<0.40	---	18	<0.020	<1.0	<0.50	3.4	94	0.72	<0.80	660	<0.050	<0.10	<1.0	<0.50	---	<0.20	4.4	920	<0.026	<1.0	2.1	<0.040	<1.0	29	0.62
Plot 4	29-May-18	15867180529103	150	<0.26	<0.10	95	<0.40	---	23	<0.040	<1.0	<0.50	4.8	170	0.56	<1.6	780	<0.050	0.051	<1.0	<0.50	---	<0.20	6	1200	<0.052	<1.0	2.5	<0.080	<1.0	29	<1.0
Plot 4	31-May-19	15867190531130	115	0.027	0.095	87.6	<0.010	0.064	23.6	0.0132	0.198	0.067	3.64	130	0.656	<0.50	844	0.0213	0.046	0.61	<0.050	---	0.0061	4.96	1100	0.0055	0.14	2.82	0.005	0.2	28.9	<0.20
Plot 4	03-Jun-20	15867200603108	79	0.022	0.053	91.4	<0.010	0.019	22	0.0119	0.131	0.049	3.66	92.7	0.696	<0.50	706	0.0453	0.048	0.58	<0.050	---	<0.0050	4.76	1270	0.0203	<0.10	1.99	0.0027	0.12	30.8	<0.20
Plot 4	08-Jun-21	15867210608110	82.4	0.017	0.072	103	<0.010	0.022	25.9	0.0097	0.182	0.05	3.98	102	0.432	<0.50	1850	0.0296	0.044	0.59	<0.050	---	0.0051	5.97	1160	0.0482	<0.10	1.94	0.0029	0.13	32.6	<0.20
Plot 4	08-Jun-22	15867220608111	108	0.017	0.079	107	<0.010	0.019	23.6	0.0113	0.201	0.072	3.96	133	0.385	<0.50	797	0.0406	0.055	0.73	<0.050	---	0.0052	6.12	1120	0.0031	0.41	2.55	0.0054	0.18	34.0	<0.20
Plot 4	19-Jun-23	15867230619103	121	0.043	0.079	111	<0.010	0.01	26.8	0.0171	0.184	0.069	3.67	136	0.317	<0.50	944	0.0243	0.046	0.59	<0.050	---	<0.0050	6.05	1270	0.0426	<0.10	2.62	0.0045	0.2	41.0	<0.20
Plot 4	29-May-24	15867240529126	96	0.019	0.068	123	<0.010	---	23.5	0.009	0.143	0.06	3.2	108	0.238	<0.50	883	0.0194	0.032	0.58	<0.050	---	<0.0050	5.74	1260	0.0021	<0.10	2.19	0.0037	0.16	28.6	<0.20
Plot 4	17-Jun-25	15867250617106	95.3	<0.010	0.051	159	<0.010	---	27.2	0.0124	0.133	0.069	3.4	110	0.201	<0.50	1210	0.0198	0.031	0.6	<0.050	---	<0.0050	7.66	1080	0.0033	<0.10	2.17	0.0037	0.16	39.7	<0.20
Plot 11	15-May-08	15867080515102	219	<0.1	0.083	76.2	<0.5	---	19	<0.02	<1.0	<1.0	5	129	<3.0	<0.4	542	0.04	0.03	<2.0	<1	124	<0.3	5.4	975	<0.02	1.5	7	<0.04	<0.6	33.2	<0.1
Plot 11	12-Jun-09	15867090612114	127	<0.1	<0.050	66.5	<0.5	---	18	<0.02	<1.0	<1.0	4.1	82	<3.0	<0.4	1130	0.02	0.05	<2.0	<1	1330	<0.3	4.3	1590	<0.02	<1.0	6	<0.04	<0.6	14.8	<0.1
Plot 11	26-May-10	15867100526129	214	<0.1	<0.050	87.8	<0.5	---	18	<0.02	<1.0	<1.0	4.6	124	<3.0	<0.4	650	<0.02	<0.02	<2.0	<1	1590	<0.3	7.1	1770	<0.02	<1.0	8	<0.04	<0.6	24.8	<0.1
Plot 11	31-May-11	15867110531141	209	<0.1	<0.050	79.8	<0.5	---	22	<0.02	<1.0	<1.0	4.4	145	<3.0	<0.4	937	<0.02	0.03	<2.0	<1	887	<0.3	6.1	1260	0.02	<1.0	10	<0.04	<0.6	23.9	0.6
Plot 11	01-Jun-12	15867120601153	269	<0.1	<0.050	79	<0.5	---	8	<0.02	<1.0	<1.0	1.9	133	<3.0	<0.4	909	0.03	<0.02	<2.0	<1	1700	<0.3	6	1040	<0.02	<1.0	11	<0.04	<0.6	25.6	<0.1
Plot 11	05-Jun-13	15867130605165	203	2.2	<0.050	64.6	<0.5	---	35	<0.02	<1.0	<1.0	6.3	120	<3.0	<0.4	1270	<0.02	<0.02	<2.0	<1	1150	<0.3	5.3	1190	<0.02	<1.0	8	<0.04	<0.6	34.2	3.7
Plot 11	31-May-14	15867140531178	167	<0.1	<0.050	78.8	<0.5	---	4	<0.02	<1.0	<1.0	3.2	115	0.6	<0.4	1170	0.39	0.02	<2.0	<1	307	<0.3	5.4	1060	<0.02	2.3	8	<0.04	<0.6	27.3	<0.1
Plot 11	03-Jun-15	15867150603103	76	0.27	<0.050	76	<0.40	---	16	<0.020	<1.0	<0.50	24	87	<0.50	<0.80	990	<0.050	<0.10	<1.0	<0.50	---	<0.20	4.5	970	<0.020	<1.0	1.5	<0.040	<1.0	30	0.26
Plot 11	31-May-16	15867160531104	47	<0.10	<0.050	51	<0.40	---	16	<0.020	<1.0	<0.50	2.5	46	<0.50	<0.80	610	<0.050	<0.10	<1.0	<0.50	---	<0.20	3.3	770	<0.020	<1.0	<1.0	<0.040	<1.0	16	0.24
Plot 11	01-Jun-17	15867170601110	53	<0.15	<0.064	53	<0.51	---	13	<0.026	<1.3	<0.64	2.3	44	<0.64	<0.51	440	<0.064	<0.13	<1.3	<0.64	---	<0.26	3.8	730	<0.034	<1.3	<1.3	<0.052	<1.3	17	0.5
Plot 11	31-May-18	15867180531112	110	<0.26	<0.10	89	<0.40	---	20	<0.040	<1.0	<0.50	3.4	88	<0.50	<1.6	1400	0.068^	<0.050	<1.0	<0.50	---	<0.20	6.3	1200	<0.052	<1.0	1.6	<0.080	<1.0	26	<1.0
Plot 11	01-Jun-19	15867190601132	75.1	<0.010	0.029	99.6	<0.010	<0.010	20.5	<0.0050	0.301	0.035	3.63	78.9	0.136	<0.50	1350	0.0138	0.021	0.47	<0.050	---	<0.0050	5.74	1130	0.0064	0.16	1.37	0.0028	0.11	26.8	<0.20
Plot 11	02-Jun-20	15867200602104	65.3	<0.010	0.026	87.1	<0.010	<0.010	19.6	<0.0050	0.174	0.031	3.54	66.5	0.139	<0.50	992	0.0206	0.034	0.36	<0.050	---	<0.0050	4.92	1280	0.0066	<0.10	1.17	<0.0020	<0.10	28.4	<0.20
Plot 11	07-Jun-21	15867210607103	66.5	<0.010	0.024	109	<0.010	<0.010	24.3	<0.0050	0.152	0.026	3.86	69.6	0.071	<0.50	1730	0.016	<0.020	0.41	<0.050	---	<0.0050	6.37	1200	0.0151	<0.10	1.15	<0.0020	<0.10	30.1	<0.40
Plot 11	08-Jun-22	15867220608112	82.6	<0.010	0.038	92.2	<0.010	<0.010	22.9	<0.0050	0.122	0.037	3.94	95.2	0.12	<0.50	1080	0.0122	0.021	0.41	<0.050	---	<0.0050	5.27	1200	0.0058	0.17	1.54	0.0033	0.12	26.3	<0.20
Plot 11	29-Jun-23	15867230629112	99.7	<0.010	0.033	105	<0.010	<0.010	27.2	0.014	0.099	0.045	3.53	93.1	0.09	<0.50	1110	0.0218	0.02	0.49	<0.050	---	<0.0050	6.89	1100	0.0092	<0.10	1.34	0.0037	0.12	32.9	<0.20
Plot 11	28-May-24	15867240528117	54	<0.010	0.02	90	<0.010	---	23	0.0068	0.202	0.024	2.95	68.7	0.086	<0.50	840	0.0148	<0.020	0.33	<0.050	---	0.0052	6.79	1240	0.0133	<0.10	1.08	<0.0020	<0.10	22.7	<0.20
Plot 11	18-Jun-25	15867250618110	24.9	<0.010	<0.020	54.5	<0.010	---	10.7	<0.0050	<0.050	<0.020	1.27	34.6	0.03	<0.50	620	0.0068	<0.020	<0.20	<0.050	---	<0.0050	3.14	480	0.0042	<0.10	0.7	<0.0020	<0.10	12.3	<0.20
Plot 11	18-Jun-25	15867250618110R	69.6	<0.010	0.038	144	<0.010	---	24.5	0.0072	0.093	0.026	3.26	91.2	0.077	<0.50	1830	---	<0.020	0.31	<0.050	---	<0.0050	8.16	1040	0.0157	<0.10	1.59	0.0026	0.11	32.3	<0.20
Plot 28	05-Jun-13	15867130605166	267	2.1	<0.050	97.2	<0.5	---	29	0.02	<1.0	<1.0	6.2	141	<3.0	<0.4	1340	<0.02	<0.02	<2.0	<1	1410	<0.3	4.5	991	0.13	<1.0	11	<0.04	<0.6	29.2	3.7
Plot 28	03-Jun-15	15867150603102	72	<0.10	<0.050	68	<0.40	---	14	<0.020	<1.0	<0.50	6.6	79	<0.50	<0.80	870	<0.050	<0.10	<1.0	<0.50	---	<0.20	4	990	0.039	<1.0	1.4	<0.040	<1.0	20	0.24
Plot 40	15-May-08	15867080515111	343	<0.1	0.128	103	<0.5	---	19	0.18	<1.0	<1.0	6.4	204	<3.0	<0.4	538	0.07	0.1	<2.0	<1	94.9	<0.3	7.2	973	0.05	1.6	15	<0.04	<0.6	31.2	<0.1
Plot 40	12-Jun-09	15867090612125	215	<0.1	<0.050	78	<0.5	---	20	0.02	<1.0	<1.0	3.8	124	<3.0	<0.4	538	0.08	0.06	<2.0	<1	1440	<0.3	4.9	1630	<0.02	<1.0	10	<0.04	<0.6	13.9	<0.1
Plot 40	25-May-10	15867100525138	261	<0.1	<0.050	111	<0.5	---	23	0.03	<1.0	<1.0	5.1	170	<3.0	<0.4	1160	0.03	<0.02	<2.0	<1	1630	<0.3	6.4	1790	<0.02	<1.0	11	<0.04	<0.6	36.2	<0.1
Plot 40	31-May-11	15867110531150	314	<0.1	<0.050	116	<0.5	---	22	<0.02	<1.0	<1.0	4.9	186	<3.0	<0.4	1160	<0.02	0.05	<2.0	<1	1520	<0.3	6.1	1340	<0.02	<1.0	13	<0.04	<0.6	32.1	0.7
Plot 40	01-Jun-12	15867120601162	324	<0.1	<0.050	102	<0.5	---	9	0.05	<1.0	<1.0	2.9	175	<3.0	<0.4	835	0.04	<0.02	<2.0	<1	1140	<0.3	6.1	1300	<0.02	<1.0	16	0.05	<0.6	29.6	<0.1
Plot 40	05-Jun-13	15867130605175	277	2.1	<0.050	96.5	<0.5	---	27	0.06	<1.0	<1.0	5.6	160	<3.0	<0.4	780	<0.02	<0.02	<2.0	<1	1030	<0.3	7.2	1080	<0.02	<1.0	13	<0.04	<0.6	32.4	3.3
Plot 40	29-May-14	15867140529187	305	<0.1	<0.050	106	<0.5	---	<2	<0.02	1.2	<1.0	5.4	189	2	<0.4	1000	0.36	0.14	<2.0	<1	253	<0.3	6.4	1210	<0.02	<1.0	14	<0.04	<0.6	39.1	<0.1
Plot 41	15-May-08	15867080515112	291	<0.1	0.074	70.3	<0.5	---	20	0.03	<1.0	<1.0	4.9	172	<3.0	<0.4	594	0.04	0.06	<2.0	<1	124	<0.3	6.4	1110	<0.02	1.4	10	<0.04	<0.6	37.7	<0.1
Plot 41	12-Jun-09	15867090612126	120	<0.1	<0.050	53.5	<0.5	---	18	<0.02	<1.0	<1.0	3.5	77	<3.0	<0.4	653	0.02	0.03	<2.0	<1	1200	<0.3	4.7	1570	<0.02	<1.0	6	<0.04	<0.6	12.4	<0.1
Plot 41	26-May-10	15867100526139	179	<0.1	<0.050	70.7	<0.5	---	22	<0.02	<1.0	<1.0	4.4	105	<3.0	<0.4	759	<0.02	<0.02	<2.0	<1	1110	<0.3	5.4	2030	<0.02	<1.0	7	<0.04	<0.6	25.1	<0.1
Plot 41	31-May-11	15867110531151	197	<0.1	<0.050	95.3	<0.5	---	21	<0.02	<1.0	<1.0	4.1	128	<3.0	<0.4	1250	<0.02	0.04	<2.0	<1	1070	<0.3	5.8	1300	<0.02	<1.0	9	<0.04	<0.6	25.3	0.6
Plot 41	01-Jun-12	15867120601163	276	<0.1	<0.050	82.7	<0.5	---	14	<0.02	<1.0	<1.0	2	139	<3.0	<0.4	805	0.03	<0.02	<2.0	<1	1000	<0.3	6.5	1360	<0.02	<1.0	11	<0.04	<0.6	25.7	<0.1
Plot 41	05-Jun-13	15867130605176	212	2.1	<0.050	80.7	<0.5	---	27	<0.02	<1.0	<1.0	4.3	117	<3.0	<0.4	1120	0.02	<0.02	<2.0	<1	987	<0.3	4.8	1110	<0.02	<1.0	9	<0.04	<0.6	27.9	4.1
Plot 41	31-May-14	15867140531188	165	<0.1	<0.050	94	<0.5	---	<2	<0.02	<1.0	<1.0	3.7	108	<0.5	<0.4	1690	0.24	0.05	<2.0	<1	149	<0.3	6.2	1190	0.03	<1.0	10	<0.04	<0.6	31.6	<0.1
Plot 70	15-May-08	15867080515103	896	<0.1	0.161	87.4	<0.5	---	18	<0.02	2.3	<1.0	4.7	397	<3.0	<0.4	822	0.04	0.06	4.7	<1	136	<0.3	6.2	1020	0.02	1.3	32	<0.04	1.2	30.1	0.3
Plot 70a	12-Jun-09	15867090612115	339	<0.1	<0.050	55.6	<0.5	---	14	<0.02	<1.0	<1.0	3.8	193	<3.0	<0.4	743	<0.02	0.03	<2.0	<1	2180	<0.3	4.6	1450	<0.02	<1.0	17	<0.04	<0.6	15.6	<0.1
Plot 70b	12-Jun-09	15867090612123	259	<0.1	<0.050	89.1	<0.5	---	14	<0.02	<1.0	<1.0	4.6	147	<3.0	<0.4	1090	<0.02	0.05	<2.0	<1	1680	<0.3	4.8	1470	0.06	<1.0	11	<0.04	<0.6	14.5	<0.1
Plot 70c	12-Jun-09	15867090612124	219	<0.1	<0.050	82.4	<0.5	---	16	<0.02	<1.0	<1.0	3.4	110	<3.0	<0.4	909	<0.02	0.04	<2.0	<1	1800	<0.3	4.8	1390	<0.02	<1.0	10	<0.04	<0.6	14.7	<0.1
Plot 70	25-May-10	15867100525130	224	<0.1	<0.050	70.9	<0.5	---	19	<0.02	<1.0	<1.0	3.8	117	<3.0	<0.4	1110	<0.02	<0.02	<2.0	<1	1600	<0.3	4	1970	<0.02	<1.0	8	<0.04	<0.6	27.6	<0.1
Plot 70	31-May-11	15867110531142	281	<0.1	<0.050	87.1	<0.5	---	18	<0.02	<1.0	<1.0	3.9	147	<3.0	<0.4	1260	<0.02	0.03	<2.0	<1	730	<0.3	4.5	1300	<0.02	<1.0	11	<0.04	<0.6	26	0.5
Plot 70	01-Jun-12	15867120601154	334	<0.1	<0.050	87	<0.5	---	10	<0.02	<1.0	<1.0	1.5	157	<3.0	<0.4	1300	<0.02	<0.02	<2.0	<1	1040	<0.3	4	1310	<0.02	<1.0	13	<0.04	<0.6	28.5	<0.1
Plot 70	05-Jun-13	15867130605167	763	2.1	<0.050	101	<0.5	---	29	<0.02	<1.0	<1.0	6.7	273	<3.0	0.6	714	0.02	<0.02	<2.0	<1	2300	<0.3	6.2	1190	<0.02	<1.0	30	0.04	<0.6	25.4	4
Plot 70	31-May-14	15867140531179	258	<0.1	0.075	98.6	<0.5	---	<2	<0.02	1	<1.0	3.8	141	<0.5	<0.4	1240	0.18	<0.02	<2.0	<1	515	<0.3	4.6	1140	<0.02	<1.0	9	<0.04	<0.6	30.3	<0.1
Plot 70	04-Jun-15	15867150604115	240	0.13	<0.050	79	<0.40	---	25	<0.020	3.7	<0.50	11	230	<0.50	<0.80	1200	<0.050	<0.10	3.3	<0.50	---	<0.20	<10	1000	0.095	<1.0	2.4	<0.040	<1.0	31	0.5
Plot 70	02-Jun-16	15867160602112	51	<0.10	<0.050	68	<0.40	---	13	<0.020	<1.0	<0.50	2.8	39	<0.50	<0.80	770	<0.050	<0.10	<1.0	<0.50	---	<0.20	2.4	730	<0.020	<1.0	<1.0	<0.040	<1.0	20	0.42
Plot 70	01-Jun-17	15867170601112	61	<0.12	<0.050	61	<0.40	---	14	<0.020	<1.0	<0.50	3.4	50	<0.50	<0.80	880	<0.050	<0.10	<1.0	<0.50	---	<0.20	3.1	850	<0.026	<1.0	<1.0	<0.040	<1.0	20	0.44
Plot 70	31-May-18	15867180531111	150	<0.26	<0.10	87	<0.40	---	17	<0.040	<1.0	<0.50	3.1	120	<0.50	<1.6	1400	0.13	<0.050	<1.0	<0.50	---	<0.20	4.3	1100	<0.052	<1.0	1.5	<0.080	<1.0	25	<1.0
Plot 70	01-Jun-19	15867190601141	91.8	<0.010	0.026	83.1	<0.010	<0.010	18.8	<0.0050	0.093	0.047	3.16	90.5	0.053	<0.50	969	0.0108	<0.020	0.52	<0.050	---	<0.0050	4.44	1160	0.0069	<0.10	1.37	0.0029	0.12	24.6	<0.20
Plot 70	02-Jun-20	15867200602105	77.1	<0.010	<0.020	78.9	<0.010	<0.010	16.0	<0.0050	0.105	0.032	3.16	64	0.044	<0.50	1170	0.0168	0.022	0.38	<0.050	---	<0.0050	3.38	1190	0.0104	<0.10	0.99	<0.0020	<0.10	23.9	<0.20
Plot 70	08-Jun-21	15867210608104	98	<0.010	0.025	89.5	<0.010	<0.010	21.1	<0.0050	0.126	0.041	3.78	89.4	0.056	<0.50	1650	0.0107	<0.020	0.51	<0.050	---	<0.0050	4.03	1070	0.0113	<0.10	1.35	0.003	0.12	27	<0.60
Plot 70	07-Jun-22	15867220607105	90.2	<0.010	0.03	86.7	<0.010	<0.010	15.0	0.0053	0.123	0.042	4.03	92.5	0.065	<0.50	1100	0.0122	0.021	0.51	<0.050	---	<0.0050	3.75	1110	0.0163	0.37	1.47	0.0032	0.11	25.5	<0.20
Plot 70	19-Jun-23	15867230619101	89.5	0.012	0.022	97.7	<0.010	<0.010	18.9	0.0083	0.107	0.033	3.21	76.6	0.062	<0.50	1320	0.0157	<0.020	0.4	<0.050	---	<0.0050	4.05	1150	0.0162	<0.10	1.04	0.0024	<0.10	30.3	<0.20
Plot 70	30-May-24	15867240530137	100	<0.010	0.022	95.1	<0.010	---	22.1	0.0086	0.152	0.043	3.06	70.6	0.052	<0.50	1310	0.0108	0.021	0.42	<0.050	---	<0.0050	4.5	1090	0.0172	<0.10	1.24	0.0026	0.1	22.1	<0.20
Plot 70	16-Jun-25	15867250616104	90.3	<0.010	0.028	129	<0.010	---	25.2	0.0066	0.083	0.037	3.23	87.1	0.051	<0.50	2540	0.011	<0.020	0.43	<0.050	---	<0.0050	4.51	1090	0.0415	<0.10	1.28	0.0023	0.1	30	<0.20

TABLE G3

Historical Labrador Tea Leaves Quality Results - Metals

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	Al mg/kg	Sb mg/kg	As mg/kg	Ba mg/kg	Be mg/kg	Bi mg/kg	B mg/kg	Cd mg/kg	Cr mg/kg	Co mg/kg	Cu mg/kg	Fe mg/kg	Pb mg/kg	Li mg/kg	Mn mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	Se mg/kg	Si mg/kg	Ag mg/kg	Sr mg/kg	S mg/kg	Tl mg/kg	Sn mg/kg	Ti mg/kg	U mg/kg	V mg/kg	Zn mg/kg	Zr mg/kg
Plot 71	15-May-08	15867080515104	184	<0.1	0.062	94.1	<0.5	---	20	<0.02	<1.0	<1.0	4.2	146	<3.0	<0.4	1190	0.03	0.06	<2.0	<1	96.7	<0.3	5.7	1020	<0.02	1.3	6	<0.04	<0.6	35.4	0.1
Plot 71	12-Jun-09	15867090612116	90.2	<0.1	<0.050	77	<0.5	---	17	<0.02	<1.0	<1.0	3.3	66	<3.0	<0.4	831	0.02	0.03	<2.0	<1	1010	<0.3	5.8	1130	<0.02	<1.0	5	<0.04	<0.6	15	<0.1
Plot 71	25-May-10	15867100525131	127	<0.1	<0.050	111	<0.5	---	25	<0.02	<1.0	<1.0	5.5	84	<3.0	<0.4	782	<0.02	<0.02	<2.0	<1	1940	<0.3	11.7	1660	<0.02	<1.0	5	<0.04	<0.6	32.5	<0.1
Plot 71	31-May-11	15867110531143	254	<0.1	<0.050	116	<0.5	---	26	<0.02	<1.0	<1.0	4.3	149	<3.0	<0.4	1300	<0.02	0.1	<2.0	<1	966	<0.3	7.1	1080	0.04	<1.0	11	<0.04	<0.6	29.3	2.4
Plot 71	01-Jun-12	15867120601155	161	<0.1	<0.050	127	<0.5	---	12	<0.02	<1.0	<1.0	1.6	82	<3.0	<0.4	1210	0.02	<0.02	<2.0	<1	1020	<0.3	7.4	1120	<0.02	<1.0	7	<0.04	<0.6	25.7	<0.1
Plot 71	05-Jun-13	15867130605168	473	2.2	<0.050	92.2	<0.5	---	37	0.04	<1.0	<1.0	4.2	172	<3.0	<0.4	1350	0.03	<0.02	<2.0	<1	1790	<0.3	7.7	892	0.02	<1.0	21	<0.04	<0.6	30.5	47.2
Plot 71	31-May-14	15867140531180	145	<0.1	<0.050	80.7	<0.5	---	2	<0.02	<1.0	<1.0	3.3	102	<0.5	<0.4	1020	0.2	<0.02	<2.0	<1	346	<0.3	6.5	880	<0.02	<1.0	6	<0.04	<0.6	22.7	<0.1
Plot 71	04-Jun-15	15867150604114	89	<0.10	<0.050	120	<0.40	---	21	<0.020	<1.0	<0.50	4.4	88	<0.50	<0.80	1500	<0.050	<0.10	<1.0	<0.50	---	<0.20	7	840	0.023	<1.0	1.2	<0.040	<1.0	28	0.2
Plot 71	02-Jun-16	15867160602111	67	<0.10	<0.050	86	<0.40	---	16	<0.020	<1.0	<0.50	2.9	49	<0.50	<0.80	870	0.06	<0.10	<1.0	<0.50	---	<0.20	5.1	610	<0.020	<1.0	<1.0	<0.040	<1.0	19	3.1
Plot 71	01-Jun-17	15867170601111	34	<0.12	<0.050	67	<0.40	---	14	<0.020	<1.0	<0.50	1.8	51	<0.50	<0.80	710	<0.050	<0.10	<1.0	<0.50	---	<0.20	5.1	620	<0.026	<1.0	<1.0	<0.040	<1.0	15	0.34
Plot 71	31-May-18	15867180531110	95	<0.26	<0.10	82	<0.40	---	21	<0.040	<1.0	<0.50	2.9	75	<0.50	<1.6	980	0.082^	<0.050	<1.0	<0.50	---	<0.20	6.7	930	<0.052	<1.0	1.4	<0.080	<1.0	19	<1.0
Plot 71	01-Jun-19	15867190601139	62	<0.010	0.025	86.4	<0.010	<0.010	21.2	<0.0050	0.302	0.043	2.75	72.5	0.042	<0.50	957	0.0196	<0.020	0.44	<0.050	---	<0.0050	6.35	910	0.0061	<0.10	1.25	0.0032	0.1	19.6	<0.20
Plot 71	03-Jun-20	15867200604112	48.8	<0.010	0.022	89.2	<0.010	<0.010	19.1	<0.0050	0.1	0.036	2.75	77.5	0.056	<0.50	740	0.0216	0.032	0.33	<0.050	---	<0.0050	8.1	980	0.0046	<0.10	1.18	0.0032	<0.10	21.1	<0.20
Plot 71	09-Jun-21	15867210609111	54	<0.010	0.023	110	<0.010	<0.010	23.8	<0.0050	0.096	0.042	3.35	71.9	0.056	<0.50	1420	0.0185	0.023	0.39	<0.050	---	<0.0050	8.01	1010	0.0131	<0.10	1.27	0.003	<0.10	23.3	<0.20
Plot 71	06-Jun-22	15867220606104	66.6	<0.010	0.034	119	<0.010	<0.010	25.5	<0.0050	0.103	0.064	3.17	84.9	0.054	<0.50	1390	0.0172	<0.020	0.60	<0.050	---	<0.0050	8.45	900	0.0303	<0.10	1.14	0.0031	0.1	25.6	<0.20
Plot 71	19-Jun-23	15867230619104	66	<0.010	0.029	119	<0.010	<0.010	25.3	0.0123	0.091	0.043	2.38	72.2	0.057	<0.50	1350	0.0227	0.021	0.43	<0.050	---	<0.0050	8.45	860	0.0512	<0.10	1.55	0.0027	<0.10	25.3	<0.20
Plot 71	30-May-24	15867240530136	55.8	<0.010	0.022	101	<0.010	---	27.5	0.0062	0.051	0.037	3	59	0.039	<0.50	1180	0.0156	<0.020	0.40	<0.050	---	<0.0050	6.41	940	0.0147	<0.10	0.91	0.0021	<0.10	22.1	<0.20
Plot 71	18-Jun-25	15867250618111	62.3	<0.010	0.028	112	<0.010	---	27.1	0.0089	0.077	0.048	3	78.1	0.051	<0.50	1460	0.0197	0.022	0.41	<0.050	---	<0.0050	8.13	860	0.0214	<0.10	1.6	0.0026	<0.10	25.1	<0.20
Plot 109	15-May-08	15867080515105	186	<0.1	0.107	87.9	<0.5	---	19	0.14	<1.0	<1.0	4.7	117	<3.0	<0.4	575	<0.02	0.07	<2.0	<1	98.2	<0.3	5.3	979	0.02	1.4	7	<0.04	<0.6	31.1	<0.1
Plot 109	12-Jun-09	15867090612117	76.2	<0.1	<0.050	79.8	<0.5	---	14	<0.02	<1.0	<1.0	3.3	53	<3.0	<0.4	439	0.02	0.05	<2.0	<1	794	<0.3	4.9	1300	<0.02	<1.0	3	<0.04	<0.6	15.9	<0.1
Plot 109	26-May-10	15867100526132	199	<0.1	<0.050	121	<0.5	---	18	0.03	<1.0	<1.0	5.2	198	<3.0	<0.4	769	<0.02	<0.02	<2.0	<1	1480	<0.3	8.3	1770	<0.02	<1.0	8	<0.04	<0.6	29.4	<0.1
Plot 109	31-May-11	15867110531144	202	<0.1	<0.050	85.2	<0.5	---	18	<0.02	<1.0	<1.0	4.6	126	<3.0	<0.4	515	0.19	0.09	<2.0	<1	1480	<0.3	7.1	1150	0.06	<1.0	8	<0.04	<0.6	22.4	1
Plot 109	01-Jun-12	15867120601156	169	<0.1	<0.050	90.6	<0.5	---	9	<0.02	<1.0	<1.0	1.4	88	<3.0	<0.4	725	<0.02	<0.02	<2.0	<1	750	<0.3	4.6	933	<0.02	<1.0	6	<0.04	<0.6	21.2	<0.1
Plot 109	05-Jun-13	15867130605169	228	2.3	<0.050	82.1	<0.5	---	29	0.11	<1.0	<1.0	6.5	153	4.2	<0.4	820	0.04	0.1	<2.0	<1	1100	<0.3	6.1	1050	<0.02	<1.0	20	<0.04	<0.6	43.1	4.4
Plot 109	30-May-14	15867140530181	125	<0.1	<0.050	92.4	<0.5	---	3	<0.02	<1.0	<1.0	3.5	79	0.8	<0.4	785	0.28	0.03	<2.0	<1	331	<0.3	4.9	1060	0.03	<1.0	6	<0.04	<0.6	25	<0.1
Plot 109	04-Jun-15	15867150604108	76	<0.10	<0.050	55	<0.40	---	15	<0.020	<1.0	<0.50	6.8	82	0.73	<0.80	520	<0.050	<0.10	<1.0	<0.50	---	<0.20	4.6	930	<0.020	<1.0	2.2	<0.040	<1.0	21	<0.20
Plot 109	31-May-16	15867160531106	52	<0.10	<0.050	58	<0.40	---	14	<0.020	<1.0	<0.50	2.5	37	<0.50	<0.80	380	<0.050	<0.10	<1.0	<0.50	---	<0.20	4.2	710	<0.020	<1.0	<1.0	<0.040	<1.0	17	0.81
Plot 109	31-May-17	15867170531105	50	<0.12	0.18	64	<0.40	---	11	<0.020	<1.0	<0.50	2.1	41	<0.50	<0.80	360	<0.050	<0.10	<1.0	<0.50	---	<0.20	3.6	690	<0.026	<1.0	<1.0	<0.040	<1.0	16	0.72
Plot 109	30-May-18	15867180530106	96	<0.26	<0.10	83	<0.40	---	21	<0.040	<1.0	<0.50	3.6	73	<0.50	<1.6	920	0.07^	0.056	<1.0	<0.50	---	<0.20	4.5	1100	<0.052	<1.0	1.1	<0.080	<1.0	24	<1.0
Plot 109	30-May-19	15867190530115	68.6	0.018	0.091	89.7	<0.010	0.051	20.2	0.0063	0.115	0.035	3.12	70	0.421	<0.50	762	0.0128	0.037	0.81	<0.050	---	<0.0050	5.42	1060	0.0339	<0.10	1.8	<0.0020	<0.10	22.2	<0.20
Plot 109	03-Jun-20	15867200603109	56.2	0.03	0.037	74.8	<0.010	0.014	17.3	0.0071	0.174	0.028	3.03	56.6	0.638	<0.50	584	0.0200	0.032	0.57	<0.050	---	<0.0050	5.17	1100	0.0057	<0.10	1.67	<0.0020	<0.10	21.8	<0.20
Plot 109	08-Jun-21	15867210608107	49.3	<0.010	0.031	93.0	<0.010	<0.010	18.8	<0.0050	0.100	0.022	3.29	49.5	0.124	<0.50	617	0.0146	0.037	0.76	<0.050	---	<0.0050	5.18	980	0.0140	<0.10	0.89	<0.0020	<0.10	22.9	<0.20
Plot 109	07-Jun-22	15867220607108	70.6	<0.010	0.043	97.8	<0.010	0.012	18.6	0.0065	0.141	0.031	3.43	84.2	0.228	<0.50	673	0.0194	0.056	0.75	<0.050	---	<0.0050	5.56	1040	0.0069	0.11	1.33	0.0028	<0.10	24.7	<0.20
Plot 109	20-Jun-23	15867230620107	72	<0.010	<0.020	102	<0.010	<0.010	17.7	0.0089	0.074	0.03	2.7	57.7	0.089	<0.50	587	0.0165	0.035	0.98	<0.050	---	<0.0050	5.29	970	0.0575	<0.10	0.75	<0.0020	<0.10	22.5	<0.20
Plot 109	29-May-24	15867240529128	63	<0.010	0.023	90.1	<0.010	---	20.7	0.0061	0.077	0.024	2.61	56.8	0.095	<0.50	684	0.0121	0.025	0.64	<0.050	---	<0.0050	5.57	1020	0.028	<0.10	1.62	<0.0020	<0.10	20.8	<0.20
Plot 109	17-Jun-25	15867250617107	19.9	<0.010	<0.020	34.1	<0.010	---	6.5	<0.0050	<0.050	<0.020	0.86	20.2	0.026	<0.50	282	<0.0050	<0.020	0.21	<0.050	---	<0.0050	1.62	290	0.0072	<0.10	0.43	<0.0020	<0.10	6.88	<0.20
Plot 109	17-Jun-25	15867250617107R	67.3	<0.010	0.036	131	<0.010	---	22	0.0056	0.081	0.026	3.23	76.6	0.102	<0.50	994	---	0.03	0.73	<0.050	---	<0.0050	6.02	990	0.0572	<0.10	1.24	<0.0020	<0.10	27.6	<0.20
Plot 110	15-May-08	15867080515106	176	<0.1	0.061	94.4	<0.5	---	20	<0.02	<1.0	<1.0	4.4	122	<3.0	<0.4	637	0.04	0.05	<2.0	<1	125	<0.3	7.7	1060	<0.02	1.4	6	<0.04	<0.6	32.4	<0.1
Plot 110	12-Jun-09	15867090612118	116	<0.1	<0.050	58.6	<0.5	---	18	<0.02	<1.0	<1.0	3.7	73	<3.0	<0.4	509	<0.02	<0.02	<2.0	<1	933	<0.3	5.7	1290	<0.02	<1.0	5	<0.04	<0.6	13.9	<0.1
Plot 110	26-May-10	15867100526133	149	<0.1	<0.050	78.3	<0.5	---	24	<0.02	<1.0	<1.0	4.5	94	<3.0	<0.4	884	0.02	<0.02	<2.0	<1	1440	<0.3	5	2000	<0.02	<1.0	5	<0.04	<0.6	24.9	<0.1
Plot 110	31-May-11	15867110531145	232	<0.1	<0.050	69.9	<0.5	---	22	<0.02	<1.0	<1.0	4.7	144	<3.0	<0.4	904	<0.02	0.05	<2.0	<1	991	<0.3	6.9	1290	<0.02	<1.0	10	<0.04	<0.6	24.5	0.8
Plot 110	01-Jun-12	15867120601157	150	<0.1	<0.050	95.1	<0.5	---	10	<0.02	<1.0	<1.0	1.4	82	<3.0	<0.4	836	0.02	<0.02	<2.0	<1	967	<0.3	8.4	1060	<0.02	<1.0	6	<0.04	<0.6	22.9	<0.1
Plot 110	04-Jun-13	15867130604170	187	2.2	<0.050	106	<0.5	---	30	<0.02	<1.0	<1.0	5.4	111	<3.0	<0.4	854	0.04	<0.02	<2.0	<1	1090	<0.3	8.2	1260	<0.02	<1.0	8	<0.04	<0.6	36.7	3.7
Plot 110	30-May-14	15867140530182	121	<0.1	0.063	100	<0.5	---	3	<0.02	<1.0	<1.0	3.7	79	2.7	<0.4	926	0.18	0.04	<2.0	<1	233	<0.3	10.7	1190	<0.02	<1.0	8	<0.04	<0.6	37.4	<0.1
Plot 110	04-Jun-15	15867150604110	93	0.18	<0.050	94	<0.40	---	19	<0.020	<1.0	<0.50	12	100	<0.50	<0.80	920	<0.050	<0.10	<1.0	<0.50	---	<0.20	6.6	1100	<0.020	<1.0	1.7	<0.040	<1.0	29	1.3
Plot 110	31-May-16	15867160531108	52	<0.10	<0.050	44	<0.40	---	11	<0.020	<1.0	<0.50	2.2	40	<0.50	<0.80	410	<0.050	<0.10	<1.0	<0.50	---	<0.20	2.9	680	<0.020	<1.0	<1.0	<0.040	<1.0	13	<0.20
Plot 110	31-May-17	15867170531107	33	<0.12	0.058	52	<0.40	---	10	<0.020	<1.0	<0.50	1.8	33	<0.50	<0.80	440	<0.050	<0.10	<1.0	<0.50	---	<0.20	4.3	570	<0.026	<1.0	<1.0	<0.040	<1.0	14	0.33
Plot 110	30-May-18	15867180530107	110	<0.26	<0.10	77	<0.40	---	19	<0.040	<1.0	<0.50	3.2	74	<0.50	<1.6	1000	0.11^	<0.050	<1.0	<0.50	---	<0.20	5.5	1100	<0.052	<1.0	1.2	<0.080	<1.0	22	<1.0
Plot 110	30-May-19	15867190530118	67.9	<0.010	0.023	79.8	<0.010	<0.010	22.5	<0.0050	0.347	0.04	3.39	71.9	0.072	<0.50	725	0.0123	<0.020	0.51	<0.050	---	<0.0050	6.34	1170	<0.0020	<0.10	1.59	0.0024	<0.10	20.9	<0.20
Plot 110	03-Jun-20	15867200603111	46.2	<0.010	<0.020	96.4	<0.010	<0.010	20.5	<0.0050	0.078	0.037	3.11	60.6	0.075	<0.50	907	0.0197	0.027	0.29	<0.050	---	<0.0050	8.31	1180	0.0071	<0.10	1.01	<0.0020	<0.10	23.5	<0.20
Plot 110	08-Jun-21	15867210608109	55.6	<0.010	<0.020	96.7	<0.010	<0.010	22.3	<0.0050	0.070	0.034	3.20	63.3	0.052	<0.50	791	0.0093	0.026	0.41	<0.050	---	<0.0050	8.18	1240	0.0046	<0.10	0.97	0.0032	<0.10	23	<0.20
Plot 110	07-Jun-22	15867220607110	68.6	<0.010	0.042	109	<0.010	<0.010	23.5	<0.0050	0.146	0.047	3.67	91.4	0.093	<0.50	1030	0.0216	0.042	0.43	<0.050	---	<0.0050	8.35	1200	0.0025	<0.10	1.54	0.0031	0.1	26.9	<0.20
Plot 110	20-Jun-23	15867230620109	81.6	<0.010	0.024	102	<0.010	<0.010	23.9	0.0085	0.097	0.05	3.24	83.2	0.066	<0.50	970	0.0188	<0.020	0.65	<0.050	---	<0.0050	8.28	1150	0.0045	<0.10	1.58	0.002	<0.10	28.8	<0.20
Plot 110	29-May-24	15867240529124	60.8	<0.010	0.026	102	<0.010	---	22.8	0.0067	0.069	0.032	3	73.4	0.06	<0.50	806	0.0137	0.029	0.35	<0.050	---	<0.0050	9.41	1290	0.0024	<0.10	1.64	0.0023	<0.10	23.4	<0.20
Plot 110	17-Jun-25	15867250617109	29.1	<0.010	<0.020	50.5	<0.010	---	9.3	<0.0050	<0.050	<0.020	1.19	34.3	0.116	<0.50	509	0.0057	<0.020	<0.20	<0.050	---	<0.0050	3.41	380	<0.0020	<0.10	0.67	<0.0020	<0.10	11.8	<0.20
Plot 110	17-Jun-25	15867250617109R	77.8	<0.010	0.036	144	<0.010	---	29.4	0.0071	0.097	0.027	3.52	92.7	0.325	<0.50	1570	---	0.024	0.32	<0.050	---	<0.0050	10.1	1160	0.008	<0.10	1.74	0.0025	0.11	34.4	<0.20
Plot 114	15-May-08	15867080515108	256	<0.1	0.093	95	<0.5	---	16	0.08	<1.0	<1.0	5.4	167	<3.0	<0.4	1000	0.04	0.09	<2.0	<1	131	<0.3	8.8	1070	<0.02	1.5	12	<0.04	<0.6	30.6	<0.1
Plot 114	12-Jun-09	15867090612119	127	<0.1	<0.050	81.3	<0.5	---	14	<0.02	<1.0	<1.0	4.1	89	<3.0	<0.4	643	0.07	0.05	<2.0	<1	1120	<0.3	5	1390	<0.02	<1.0	8	<0.04	<0.6	16.6	<0.1
Plot 114	26-May-10	15867100526134	233	<0.1	<0.050	131	<0.5	---	20	0.02	<1.0	<1.0	4.4	142	<3.0	<0.4	1070	<0.02	<0.02	<2.0	<1	1700	<0.3	8.7	1980	<0.02	<1.0	10	<0.04	<0.6	31.2	<0.1
Plot 114	31-May-11	15867110531146	187	<0.1	<0.050	96.1	<0.5	---	16	<0.02	<1.0	<1.0	4.1	113	<3.0	<0.4	610	<0.02	0.04	<2.0	<1	959	<0.3	5.8	1040	<0.02	<1.0	8	<0.04	<0.6	20.3	0.6
Plot 114	01-Jun-12	15867120601158	199	<0.1	<0.050	103	<0.5	---	8	0.02	<1.0	<1.0	2.4	102	<3.0	<0.4	786	0.04	<0.02	<2.0	<1	836	<0.3	6.4	974	<0.02	<1.0	8	<0.04	<0.6	22.9	<0.1
Plot 114	04-Jun-13	15867130604171	187	2.3	<0.050	90.4	<0.5	---	31	0.05	<1.0	<1.0	5.7	118	<3.0	<0.4	743	0.04	0.06	<2.0	<1	653	<0.3	7.6	1240	<0.02	<1.0	8	<0.04	<0.6	27.4	7.4
Plot 114	31-May-14	15867140531183	126	<0.1	0.074	102	<0.5	---	<2	<0.02	<1.0	<1.0	4.1	86	1.2	<0.4	710	0.14	0.03	<2.0	<1	348	<0.3	7.5	1020	<0.02	<1.0	7	<0.04	<0.6	31.2	<0.1
Plot 114	04-Jun-15	15867150604107	120	<0.10	<0.050	85	<0.40	---	16	0.037	<1.0	<0.50	4.9	100	<0.50	<0.80	620	<0.050	<0.10	1.1	<0.50	---	<0.20	6.8	1000	0.047	<1.0	2	<0.040	<1.0	25	<0.20
Plot 114	01-Jun-16	15867160601110	67	<0.10	<0.050	66	<0.40	---	19	<0.020	<1.0	<0.50	3.9	54	<0.50	<0.80	420	<0.050	<0.10	1.4	<0.50	---	<0.20	5	960	<0.020	<1.0	1	<0.040	<1.0	22	<0.20
Plot 114	31-May-17	15867170531104	61	<0.12	0.084	80	<0.40	---	13	<0.020	<1.0	<0.50	2.9	50	<0.50	<0.80	470	<0.050	<0.10	<1.0	<0.50	---	<0.20	5.1	860	<0.026	<1.0	1.1	<0.040	<1.0	20	0.92
Plot 114	30-May-18	15867180530104	130	<0.26	<0.10	98	<0.40	---	17	<0.040	<1.0	<0.50	4.6	110	<0.50	<1.6	740	<0.050	0.063	1.2	<0.50	---	<0.20	7.6	1100	<0.052	<1.0	1.7	<0.080	<1.0	25	<1.0
Plot 114	31-May-19	15867190531124	70	0.017	0.048	94.1	<0.010	0.015	16.6	0.0163	0.243	0.051	4.23	84.5	0.352	<0.50	586	0.0196	0.045	0.81	<0.050	---	<0.0050	8.98	1160	0.0062	<0.10	1.91	0.0028	0.1	27.4	<0.20
Plot 114	03-Jun-20	15867200603107	77.5	0.019	0.036	103	<0.010	0.014	14.2	0.0163	0.124	0.079	3.91	87.4	0.734	<0.50	646	0.0362	0.039	0.89	<0.050	---	<0.0050	9.19	1310	0.0048	<0.10	1.6	0.0031	0.11	30.2	<0.20
Plot 114	08-Jun-21	15867210608106	82.6	0.017	0.053	107	<0.010	0.015	21.5	0.0131	0.219	0.056	4.48	84.2	0.499	<0.50	1650	0.0348	0.048	0.98	<0.050	---	<0.0050	9.10	1120	0.0173	<0.10	1.65	0.0021	<0.10	29.2	0.28
Plot 114	07-Jun-22	15867220607107	53.9	0.011	0.049	107	<0.010	0.015	16.6	0.0173	0.103	0.048	4.14	83.2	0.292	<0.50	710	0.0215	0.054	0.59	<0.050	---	<0.0050	9.87	1160	<0.0020	0.14	1.50	0.0027	<0.10	29.1	<0.20
Plot 114	20-Jun-23	15867230620106	97.8	<0.010	0.041	82.7	<0.010	<0.010	22.9	0.0181	0.134	0.109	3.71	86.1	0.24	<0.50	551	0.0225	0.026	1.52	<0.050	---	<0.0050	6.5	1210	0.0086	<0.10	1.59	0.0025	0.11	26.8	<0.20
Plot 114	30-May-24	15867240530135	79.2	0.011	0.047	106	<0.010	---	19.4	0.018	0.094	0.098	4.18	71.1	0.193	<0.50	518	0.0203	0.027	1.51	<0.050	---	<0.0050	9	1170	0.0043	<0.10	1.17	0.0021	<0.10	26.2	<0.20
Plot 114	17-Jun-25	15867250617105	119	0.011	0.053	132	<0.010	---	20.7	0.0275	0.118	0.11	4.55	104	0.287	<0.50	1010	0.026	0.046	1.48	<0.050	---	<0.0050	9.83	1330	0.0039	<0.10	1.88	0.0031	0.13	33.6	0.24

TABLE G3

Historical Labrador Tea Leaves Quality Results - Metals

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	Al mg/kg	Sb mg/kg	As mg/kg	Ba mg/kg	Be mg/kg	Bi mg/kg	B mg/kg	Cd mg/kg	Cr mg/kg	Co mg/kg	Cu mg/kg	Fe mg/kg	Pb mg/kg	Li mg/kg	Mn mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	Se mg/kg	Si mg/kg	Ag mg/kg	Sr mg/kg	S mg/kg	Tl mg/kg	Sn mg/kg	Ti mg/kg	U mg/kg	V mg/kg	Zn mg/kg	Zr mg/kg
Plot 117	15-May-08	15867080515107	155	<0.1	0.071	56.7	<0.5	---	15	0.02	<1.0	<1.0	4.6	97	<3.0	<0.4	578	0.03	0.06	<2.0	<1	83.5	<0.3	5.3	966	<0.02	1.5	6	<0.04	<0.6	28.8	<0.1
Plot 117	12-Jun-09	15867090612120	87	<0.1	<0.050	40.6	<0.5	---	12	<0.02	<1.0	<1.0	3.5	66	<3.0	<0.4	580	0.02	0.03	<2.0	<1	955	<0.3	5.1	1230	<0.02	<1.0	5	<0.04	<0.6	11.7	<0.1
Plot 117	26-May-10	15867100526135	221	<0.1	<0.050	76.5	<0.5	---	26	<0.02	<1.0	<1.0	5.5	130	<3.0	<0.4	1020	0.03	<0.02	<2.0	<1	1360	<0.3	8.3	1840	<0.02	<1.0	9	<0.04	<0.6	26.9	<0.1
Plot 117	31-May-11	15867110531147	151	<0.1	<0.050	56.2	<0.5	---	14	<0.02	<1.0	<1.0	18.6	90	<3.0	<0.4	717	<0.02	0.03	<2.0	<1	582	<0.3	6	1140	<0.02	<1.0	6	<0.04	<0.6	32.2	0.4
Plot 117	01-Jun-12	15867120601159	137	<0.1	<0.050	44.8	<0.5	---	8	<0.02	<1.0	<1.0	1.7	63	<3.0	<0.4	688	0.02	<0.02	<2.0	<1	780	<0.3	5.4	999	<0.02	<1.0	4	<0.04	<0.6	18.5	<0.1
Plot 117	04-Jun-13	15867130604172	162	2.1	<0.050	64.8	<0.5	---	24	<0.02	<1.0	<1.0	4.3	86	<3.0	<0.4	1050	0.02	<0.02	<2.0	<1	718	<0.3	6.2	1080	<0.02	<1.0	6	<0.04	<0.6	21.9	4.4
Plot 117	31-May-14	15867140531184	119	<0.1	0.052	77.9	<0.5	---	<2	<0.02	<1.0	<1.0	3.6	66	<0.5	<0.4	1090	0.2	0.02	<2.0	<1	170	<0.3	7.5	1100	<0.02	<1.0	4	<0.04	<0.6	30	<0.1
Plot 117	04-Jun-15	15867150604111	76	<0.10	<0.050	94	<0.40	---	13	<0.020	<1.0	<0.50	6.9	62	<0.50	<0.80	660	<0.050	<0.10	1	<0.50	---	<0.20	5	900	0.057	<1.0	1.3	<0.040	<1.0	19	0.21
Plot 117	01-Jun-16	15867160601109	50	0.18	<0.050	41	<0.40	---	13	<0.020	<1.0	<0.50	2.8	39	<0.50	<0.80	490	<0.050	<0.10	<1.0	<0.50	---	<0.20	4.4	830	<0.020	<1.0	<1.0	<0.040	<1.0	16	<0.20
Plot 117	31-May-17	15867170531103	51	<0.12	<0.050	47	<0.40	---	11	<0.020	<1.0	<0.50	2.5	42	<0.50	<0.80	440	<0.050	<0.10	<1.0	<0.50	---	<0.20	4.4	760	<0.026	<1.0	<1.0	<0.040	<1.0	15	1.1
Plot 117	30-May-18	15867180530105	120	<0.26	<0.10	70	<0.40	---	16	<0.040	<1.0	<0.50	3.6	110	<0.50	<1.6	680	0.26	0.078	<1.0	<0.50	---	<0.20	7	1200	<0.052	<1.0	1.3	<0.080	<1.0	22	2.5
Plot 117	31-May-19	15867190531123	79.7	<0.010	0.02	90.9	<0.010	<0.010	17	<0.0050	0.219	0.056	3.62	66	0.07	<0.50	733	0.0144	<0.020	0.76	<0.050	---	<0.0050	7.35	1090	0.0109	0.13	1.16	0.0022	<0.10	20	<0.20
Plot 117	03-Jun-20	15867200603106	58.9	<0.010	<0.020	56.4	<0.010	<0.010	13.9	<0.0050	0.062	0.049	3.15	56.5	0.092	<0.50	527	0.0226	<0.020	0.47	<0.050	---	<0.0050	5.53	1250	0.0063	<0.10	0.85	<0.0020	<0.10	18.9	<0.20
Plot 117	08-Jun-21	15867210608105	95.0	<0.010	0.034	79.7	<0.010	<0.010	17.8	<0.0050	0.111	0.060	3.31	88.4	0.104	<0.50	599	0.0085	0.028	0.77	<0.050	---	<0.0050	6.15	1140	0.0399	<0.10	2.36	0.0021	0.15	20.1	<0.20
Plot 117	07-Jun-22	15867220607106	82.3	<0.010	0.035	76.2	<0.010	<0.010	17.2	<0.0050	0.108	0.065	3.91	77.7	0.076	<0.50	687	0.0171	0.021	0.91	<0.050	---	<0.0050	7.70	1050	0.0053	0.15	1.17	0.0024	<0.10	22.0	<0.20
Plot 117	20-Jun-23	15867230620105	103	<0.010	<0.020	96.4	<0.010	<0.010	19.4	0.0123	0.085	0.094	3.58	78.5	0.072	<0.50	693	0.0182	<0.020	1.31	<0.050	---	<0.0050	9.03	1210	0.0035	<0.10	1.53	0.0021	<0.10	25.4	<0.20
Plot 117	30-May-24	15867240530134	84.6	<0.010	0.024	62.3	<0.010	---	16	0.0074	0.068	0.073	3.46	60.1	0.091	<0.50	652	0.0155	<0.020	0.45	<0.050	---	<0.0050	6.94	1040	0.0024	0.12	0.99	<0.0020	<0.10	20.8	<0.20
Plot 123	15-May-08	15867080515109	149	<0.1	<0.050	78.8	<0.5	---	17	<0.02	<1.0	<1.0	4.5	84	<3.0	<0.4	948	0.02	0.04	<2.0	<1	125	<0.3	4.3	976	<0.02	1.4	5	<0.04	<0.6	26.1	<0.1
Plot 123	12-Jun-09	15867090612121	83.9	<0.1	<0.050	77.5	<0.5	---	16	<0.02	<1.0	<1.0	2.8	57	<3.0	<0.4	913	0.02	0.04	<2.0	<1	1040	<0.3	5	1270	<0.02	<1.0	4	<0.04	<0.6	11.2	<0.1
Plot 123	26-May-10	15867100526136	80	<0.1	<0.050	71.6	<0.5	---	15	<0.02	<1.0	<1.0	3.4	50	<3.0	<0.4	1220	<0.02	<0.02	<2.0	<1	784	<0.3	4.3	1610	<0.02	<1.0	3	<0.04	<0.6	19	<0.1
Plot 123	31-May-11	15867110531148	206	<0.1	<0.050	79.3	<0.5	---	17	<0.02	<1.0	<1.0	6.3	119	3.9	<0.4	838	<0.02	0.04	<2.0	<1	953	<0.3	5.4	1060	<0.02	3.2	9	<0.04	<0.6	20.8	0.5
Plot 123	01-Jun-12	15867120601160	142	<0.1	<0.050	74.8	<0.5	---	10	<0.02	<1.0	<1.0	1.4	62	<3.0	<0.4	794	<0.02	<0.02	<2.0	<1	909	<0.3	4.5	1380	<0.02	<1.0	5	<0.04	<0.6	16.8	<0.1
Plot 123	04-Jun-13	15867130604173	125	2.2	<0.050	78.2	<0.5	---	24	<0.02	<1.0	<1.0	4.4	72	<3.0	<0.4	1210	0.03	<0.02	<2.0	<1	783	<0.3	5	1040	<0.02	<1.0	5	<0.04	<0.6	21.6	4.3
Plot 123	30-May-14	15867140530185	115	<0.1	0.101	88.5	<0.5	---	<2	<0.02	<1.0	<1.0	3.6	80	<0.5	<0.4	1110	0.09	0.03	<2.0	<1	191	<0.3	5.4	1060	<0.02	<1.0	4	<0.04	<0.6	21.6	<0.1
Plot 123	03-Jun-15	15867150603101	100	0.12	<0.050	77	<0.40	---	16	<0.020	<1.0	<0.50	9.5	110	<0.50	<0.80	1100	<0.050	0.17	1	<0.50	---	<0.20	4.7	1100	<0.020	<1.0	1.9	<0.040	<1.0	21	0.43
Plot 123	30-May-16	15867160530103	27	<0.10	<0.050	34	<0.40	---	7.6	<0.020	<1.0	<0.50	1.4	20	<0.50	<0.80	370	<0.050	<0.10	<1.0	<0.50	---	<0.20	1.8	430	<0.020	<1.0	<1.0	<0.040	<1.0	<10	<0.20
Plot 123	31-May-17	15867170531109	53	<0.12	<0.050	68	<0.40	---	14	<0.020	<1.0	<0.50	3.7	48	<0.50	<0.80	600	<0.050	<0.10	<1.0	<0.50	---	<0.20	4.6	740	<0.026	<1.0	<1.0	<0.040	<1.0	15	0.51
Plot 123	31-May-18	15867180531109	140	<0.26	<0.10	79	<0.40	---	17	<0.040	<1.0	<0.50	4	76	<0.50	<1.6	1100	0.08^	<0.050	<1.0	<0.50	---	<0.20	6.3	1100	<0.052	<1.0	<1.0	<0.080	<1.0	20	<1.0
Plot 123	30-May-19	15867190530114	53.1	<0.010	<0.020	92	<0.010	<0.010	17.6	<0.0050	0.221	0.033	3.36	52.3	0.032	<0.50	1090	0.0138	<0.020	0.72	<0.050	---	<0.0050	5.28	1080	0.0054	0.1	0.85	<0.0020	<0.10	21.1	<0.20
Plot 123	02-Jun-20	15867200602103	45.8	<0.010	<0.020	95.3	<0.010	<0.010	15.9	<0.0050	0.053	0.03	3.06	43.3	0.052	<0.50	1070	0.0167	<0.020	0.79	<0.050	---	<0.0050	4.85	1080	<0.0020	<0.10	0.64	<0.0020	<0.10	20.1	<0.20
Plot 123	07-Jun-21	15867210607102	55.5	<0.010	<0.020	76.0	<0.010	<0.010	17.0	<0.0050	0.071	0.033	3.15	50.6	0.044	<0.50	722	0.0112	0.022	0.69	<0.050	---	<0.0050	5.77	1230	<0.0020	<0.10	0.91	<0.0020	<0.10	19.7	<0.20
Plot 123	06-Jun-22	15867220606103	64.4	<0.010	0.025	83.4	<0.010	<0.010	19.1	<0.0050	0.243	0.039	3.73	72.9	0.051	<0.50	953	0.0145	0.033	0.81	<0.050	---	<0.0050	4.86	1090	0.0039	0.13	1.22	0.0024	<0.10	21.0	<0.20
Plot 123	19-Jun-23	15867230619102	71.3	<0.010	<0.020	109	<0.010	<0.010	18.4	0.0114	0.093	0.043	3.04	65.9	0.057	<0.50	1350	0.014	<0.020	1	<0.050	---	<0.0050	6.11	1110	<0.0020	<0.10	1.04	0.002	<0.10	23.2	<0.20
Plot 123	28-May-24	15867240528107	54	0.012	<0.020	91.4	<0.010	---	20.1	<0.0050	0.086	0.036	3.04	50.3	0.036	<0.50	1010	0.0144	<0.020	0.8	<0.050	---	<0.0050	5.68	1200	<0.0020	<0.10	1.05	<0.0020	<0.10	19.7	<0.20
Plot 123	16-Jun-25	15867250616101	72.3	<0.010	0.021	116	<0.010	---	22.7	0.0071	0.066	0.044	3.36	68.8	0.051	<0.50	1450	0.0177	<0.020	0.98	<0.050	---	<0.0050	6.94	1220	<0.0020	<0.10	1.52	<0.0020	<0.10	23.5	0.28
Plot 402	15-May-08	15867080515110	226	<0.1	0.067	71.6	<0.5	---	19	<0.02	<1.0	<1.0	4.3	123	<3.0	<0.4	953	0.02	0.04	<2.0	<1	94.1	<0.3	8.9	1010	<0.02	1.4	8	<0.04	<0.6	28.4	<0.1
Plot 402	12-Jun-09	15867090612122	136	<0.1	<0.050	47.4	<0.5	---	18	<0.02	<1.0	<1.0	3.9	94	<3.0	<0.4	370	<0.02	0.03	<2.0	<1	1210	<0.3	6.6	1300	<0.02	<1.0	6	<0.04	<0.6	14.6	<0.1
Plot 402	12-Jun-09	15867090612127	138	<0.1	<0.050	55.7	<0.5	---	16	<0.02	<1.0	<1.0	3.7	93	<3.0	<0.4	426	0.02	0.03	<2.0	<1	1380	<0.3	7.8	1510	<0.02	<1.0	7	<0.04	<0.6	13.8	<0.1
Plot 402	25-May-10	15867100525137	209	<0.1	<0.050	115	<0.5	---	21	<0.02	6	<1.0	5.1	131	<3.0	<0.4	847	<0.02	0.05	6.4	<1	1300	<0.3	13.8	2060	<0.02	<1.0	7	<0.04	<0.6	27.7	<0.1
Plot 402	31-May-11	15867110531149	364	<0.1	<0.050	92.8	<0.5	---	19	<0.02	<1.0	<1.0	4.3	197	<3.0	<0.4	575	<0.02	0.03	<2.0	<1	1720	<0.3	8.9	1250	<0.02	<1.0	16	<0.04	<0.6	24	1
Plot 402	01-Jun-12	15867120601161	375	<0.1	<0.050	69.4	<0.5	---	11	<0.02	<1.0	<1.0	1.3	171	<3.0	<0.4	855	0.02	<0.02	<2.0	<1	1980	<0.3	9.1	1010	<0.02	<1.0	15	<0.04	<0.6	19.6	<0.1
Plot 402	04-Jun-13	15867130604174	215	2.3	<0.050	66.5	<0.5	---	31	<0.02	<1.0	<1.0	4.8	115	<3.0	<0.4	552	0.02	<0.02	<2.0	<1	1020	<0.3	8.2	1080	<0.02	<1.0	9	<0.04	<0.6	23.6	4.5
Plot 402	31-May-14	15867140531186	169	<0.1	<0.050	78.9	<0.5	---	<2	<0.02	<1.0	<1.0	3.3	92	<0.5	<0.4	967	0.25	0.05	<2.0	<1	<4.00	<0.3	9.5	1120	0.04	<1.0	7	<0.04	<0.6	27.4	<0.1
Plot 402	04-Jun-15	15867150604112	110	0.11	<0.050	93	<0.40	---	19	<0.020	<1.0	<0.50	5.8	100	<0.50	<0.80	810	<0.050	<0.10	<1.0	<0.50	---	<0.20	8.8	1100	<0.020	<1.0	1.9	<0.040	<1.0	23	2
Plot 402	30-May-16	15867160530101	70	<0.10	<0.050	50	<0.40	---	16	<0.020	<1.0	<0.50	2.8	56	<0.50	<0.80	420	<0.050	<0.10	<1.0	<0.50	---	<0.20	5.4	820	<0.020	<1.0	<1.0	<0.040	<1.0	17	0.38
Plot 402	31-May-17	15867170531101	47	<0.12	<0.050	69	<0.40	---	14	<0.020	<1.0	<0.50	2.4	57	<0.50	<0.80	710	<0.050	<0.10	<1.0	<0.50	---	<0.20	7.8	830	<0.026	<1.0	<1.0	<0.040	<1.0	20	2
Plot 402	29-May-18	15867180529101	420	<0.26	<0.10	89	<0.40	---	20	<0.040	<1.0	<0.50	10*	340	<0.50	<1.6	810	<0.050	0.083	<1.0	<0.50	---	<0.20	11	1300	<0.052	<1.0	2.3	<0.080	<1.0	36	1.2
Plot 402	30-May-19	15867190530110	94.3	<0.010	0.03	99.3	<0.010	<0.010	20.9	<0.0050	0.127	0.062	3.5	102	0.06	<0.50	814	0.0149	0.022	0.54	<0.050	---	<0.0050	10.4	1250	0.0127	<0.10	1.86	0.004	0.15	26.7	<0.20
Plot 402	02-Jun-20	15867200602101	69.8	<0.010	<0.020	87.5	<0.010	<0.010	20.0	<0.0050	0.074	0.042	3.32	68.7	0.047	<0.50	843	0.0201	<0.020	0.43	<0.050	---	<0.0050	9.38	1180	0.0055	<0.10	1.12	0.0028	<0.10	23.8	<0.20
Plot 402	07-Jun-21	15867210607101	85.9	<0.010	0.029	88.6	<0.010	<0.010	28.1	0.0065	0.116	0.054	3.95	84.9	0.054	<0.50	863	0.0135	0.033	0.40	<0.050	---	<0.0050	10.6	1420	0.0053	<0.10	1.74	0.0032	<0.10	27.2	<0.20
Plot 402	06-Jun-22	15867220606101	103	<0.010	0.042	95.4	<0.010	<0.010	24.9	0.0059	0.150	0.074	3.86	118	0.084	<0.50	620	0.0190	0.023	0.71	<0.050	---	<0.0050	10.1	1080	0.012	0.18	1.97	0.0054	0.16	25.0	<0.20
Plot 402	20-Jun-23	15867230620110	93.5	<0.010	0.026	95.4	<0.010	<0.010	26.1	0.0104	0.108	0.051	3.41	91.3	0.057	<0.50	949	0.0191	<0.020	0.49	<0.050	---	<0.0050	12.3	1240	0.0076	<0.10	1.7	0.0026	0.12	29.4	<0.20
Plot 402	27-May-24	15867240527101	65.9	<0.010	0.027	103	<0.010	---	24.1	0.0087	0.086	0.042	3.2	79.4	0.059	<0.50	1050	0.0174	0.034	0.31	<0.050	---	<0.0050	12.4	1230	0.0108	0.19	1.67	0.0034	<0.10	27.1	<0.20
Plot 402	16-Jun-25	15867250616102	97	<0.010	0.033	109	<0.010	---	23	0.0105	0.126	0.05	3.37	101	0.068	<0.50	1020	0.0162	0.022	0.48	<0.050	---	<0.0050	10.6	1210	0.0121	<0.10	2.64	0.0041	0.15	27.9	0.3

Notes:

* - result is from recheck completed on subsample submitted in July 2018.

^ - results are from rechecks completed on subsamples submitted in October 2018.

R - MSI Sample numbers denoted with an "R" represent an aliquot that was analyzed for the sample. At the laboratory's recommendation, these results were not utilized in any statistical analysis as they may be biased

TABLE G4

Historical Labrador Tea Leaves Quality Results - Macronutrients

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	N %	Ca mg/kg	Mg mg/kg	K mg/kg	Na mg/kg	P mg/kg	S mg/kg
Plot 4	15-May-08	15867080515101	---	5510	1280	3330	58	1080	1020
Plot 4	12-Jun-09	15867090612113	1.74	5980	1360	4130	<50	1330	1270
Plot 4	25-May-10	15867100525128	1.71	6220	1840	5500	<50	1310	1720
Plot 4	31-May-11	15867110531140	1.81	8130	1960	5560	56	1540	1270
Plot 4	01-Jun-12	15867120601152	1.58	6300	1360	4570	53	1360	1040
Plot 4	05-Jun-13	15867130605164	1.95	6710	1990	5780	59	1620	1040
Plot 4	29-May-14	15867140529177	1.53	8480	1690	5950	<50	1560	1390
Plot 4	03-Jun-15	15867150603106	1.54	6200	1700	4600	<50	1200	1000
Plot 4	31-May-16	15867160531105	1.45	4600	1100	2600	<50	810	750
Plot 4	31-May-17	15867170531108	1.55	6100	1300	3500	<50	1000	920
Plot 4	29-May-18	15867180529103	1.56	6800	1700	5400	63	1500	1200
Plot 4	31-May-19	15867190531130	1.37	5810	1660	4410	38	1300	1100
Plot 4	03-Jun-20	15867200603108	1.45	6110	1590	4830	<20	1570	1270
Plot 4	08-Jun-21	15867210608110	1.63	6930	1850	4870	31	1500	1160
Plot 4	08-Jun-22	15867220608111	1.69	6790	1530	4630	24	1420	1120
Plot 4	19-Jun-23	15867230619103	1.59	7190	1570	3920	51	1270	1230
Plot 4	29-May-24	15867240529126	1.44	5710	1650	4350	21	1390	1260
Plot 4	17-Jun-25	15867250617106	1.5	7680	1750	3830	<20	1240	1080
Plot 11	15-May-08	15867080515102	---	6310	1740	4050	<50	1250	975
Plot 11	12-Jun-09	15867090612114	1.87	5610	1240	4590	<50	1400	1590
Plot 11	26-May-10	15867100526129	1.67	7350	2300	6260	<50	1600	1770
Plot 11	31-May-11	15867110531141	1.58	6170	1760	5260	<50	1390	1260
Plot 11	01-Jun-12	15867120601153	1.66	5650	1390	4810	<50	1310	1040
Plot 11	05-Jun-13	15867130605165	2.07	6400	1670	5760	<50	1610	1190
Plot 11	31-May-14	15867140531178	1.55	6420	1380	5090	<50	1370	1060
Plot 11	03-Jun-15	15867150603103	1.62	5200	1400	4200	<50	1200	970
Plot 11	31-May-16	15867160531104	1.51	4200	1100	2800	<50	890	770
Plot 11	01-Jun-17	15867170601110	1.64	4500	940	3100	<64	890	730
Plot 11	31-May-18	15867180531112	1.4	6500	1600	4900	<50	1400	1200
Plot 11	01-Jun-19	15867190601132	1.45	5640	1620	4460	<20	1420	1130
Plot 11	02-Jun-20	15867200602104	1.29	6150	1530	5220	<20	1480	1280
Plot 11	07-Jun-21	15867210607103	1.71	6760	1730	4910	30	1600	1200
Plot 11	08-Jun-22	15867220608112	1.79	6150	1440	4870	21	1490	1200
Plot 11	29-Jun-23	15867230629112	1.53	7380	1740	4610	<20	1100	1190
Plot 11	28-May-24	15867240528117	1.47	5570	1590	4650	<20	1470	1240
Plot 11	18-Jun-25	15867250618110	1.58	2850	694	1670	<20	523	480
Plot 11	18-Jun-25	15867250618110R	---	7860	1920	4160	<20	1280	1040
Plot 28	05-Jun-13	15867130605166	1.74	6520	1610	5430	<50	1400	991
Plot 28	03-Jun-15	15867150603102	1.4	5900	1600	4300	<50	1300	990
Plot 40	15-May-08	15867080515111	---	5630	1530	3690	57	1320	973
Plot 40	12-Jun-09	15867090612125	1.75	6250	1430	4130	<50	1350	1630
Plot 40	25-May-10	15867100525138	1.44	7490	2220	6190	<50	1530	1790
Plot 40	31-May-11	15867110531150	1.71	8060	1950	5570	<50	1530	1340
Plot 40	01-Jun-12	15867120601162	1.57	5950	1370	4430	<50	1390	1300
Plot 40	05-Jun-13	15867130605175	1.72	5940	1760	5340	<50	1590	1080
Plot 40	29-May-14	15867140529187	1.59	7440	1710	5130	<50	1430	1210

TABLE G4

Historical Labrador Tea Leaves Quality Results - Macronutrients

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	N %	Ca mg/kg	Mg mg/kg	K mg/kg	Na mg/kg	P mg/kg	S mg/kg
Plot 41	15-May-08	15867080515112	---	6130	1500	4190	54	1480	1110
Plot 41	12-Jun-09	15867090612126	1.83	5860	1390	4310	<50	1350	1570
Plot 41	26-May-10	15867100526139	1.44	6400	1900	5480	<50	1430	2030
Plot 41	31-May-11	15867110531151	1.55	6610	1660	5270	<50	1440	1300
Plot 41	01-Jun-12	15867120601163	1.66	5780	1390	5240	<50	1480	1360
Plot 41	05-Jun-13	15867130605176	1.77	5900	1690	5330	<50	1520	1110
Plot 41	31-May-14	15867140531188	1.57	7200	1440	4990	<50	1520	1190
Plot 70	15-May-08	15867080515103	---	5280	1460	3570	134	1250	1020
Plot 70a	12-Jun-09	15867090612115	1.79	5390	1290	3970	<50	1210	1450
Plot 70b	12-Jun-09	15867090612123	1.87	6400	1160	5180	56	1580	1470
Plot 70c	12-Jun-09	15867090612124	1.82	5380	1230	4120	<50	1260	1390
Plot 70	25-May-10	15867100525130	1.63	6050	1650	5250	<50	1500	1970
Plot 70	31-May-11	15867110531142	2.01	6570	1590	4910	<50	1630	1300
Plot 70	01-Jun-12	15867120601154	1.87	5790	1250	4690	<50	1510	1310
Plot 70	05-Jun-13	15867130605167	1.94	5820	1430	6890	172	1690	1190
Plot 70	31-May-14	15867140531179	1.57	6810	1260	4840	<50	1570	1140
Plot 70	04-Jun-15	15867150604115	1.82	6000	1400	4500	56	1300	1000
Plot 70	02-Jun-16	15867160602112	1.61	3800	940	2700	<50	870	730
Plot 70	01-Jun-17	15867170601112	1.6	4700	930	3300	<50	990	850
Plot 70	31-May-18	15867180531111	1.42	6200	1300	4500	<50	1400	1100
Plot 70	02-Jun-20	15867200602105	1.47	5630	1360	4720	<20	1560	1190
Plot 70	08-Jun-21	15867210608104	1.74	6200	1650	4680	32	1550	1070
Plot 70	07-Jun-22	15867220607105	1.71	4900	1300	4540	27	1560	1110
Plot 70	19-Jun-23	15867230619101	1.48	6430	1400	3640	33	1150	1210
Plot 70	30-May-24	15867240530137	1.42	5750	1320	3600	87	1450	1090
Plot 70	16-Jun-25	15867250616104	1.63	6750	1740	3970	<20	1360	1090
Plot 71	15-May-08	15867080515104	---	5260	1460	3870	<50	1290	1020
Plot 71	12-Jun-09	15867090612116	1.62	5200	1220	4040	<50	1250	1130
Plot 71	25-May-10	15867100525131	1.41	6410	2250	6120	<50	1500	1660
Plot 71	31-May-11	15867110531143	0.887	6530	1680	4770	<50	1280	1080
Plot 71	01-Jun-12	15867120601155	1.44	5720	1280	4740	<50	1370	1120
Plot 71	05-Jun-13	15867130605168	1.45	6360	1420	4490	115	1160	892
Plot 71	31-May-14	15867140531180	1.31	6060	1150	4670	<50	1110	880
Plot 71	04-Jun-15	15867150604114	1.58	6900	1500	3400	<50	1000	840
Plot 71	02-Jun-16	15867160602111	1.24	4800	1000	2300	<50	750	610
Plot 71	01-Jun-17	15867170601111	1.23	4500	890	2500	<50	740	620
Plot 71	31-May-18	15867180531110	1.25	5700	1300	3800	52	1100	930
Plot 71	01-Jun-19	15867190601139	1.18	5270	1270	3640	23	1080	910
Plot 71	03-Jun-20	15867200604112	0.99	5680	1280	3930	<20	1200	980
Plot 71	09-Jun-21	15867210609111	1.31	6940	1420	4160	34	1200	1010
Plot 71	06-Jun-22	15867220606104	1.42	6530	1840	4050	25	1260	900
Plot 71	19-Jun-23	15867230619104	1.04	6420	1440	3480	<20	860	886
Plot 71	30-May-24	15867240530136	1.17	5700	1290	3490	34	1400	940
Plot 71	18-Jun-25	15867250618111	1.26	6480	1360	2950	21	1030	860

TABLE G4

Historical Labrador Tea Leaves Quality Results - Macronutrients

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	N %	Ca mg/kg	Mg mg/kg	K mg/kg	Na mg/kg	P mg/kg	S mg/kg
Plot 109	15-May-08	15867080515105	---	5900	1330	3410	<50	1350	979
Plot 109	12-Jun-09	15867090612117	1.6	6040	1230	4290	<50	1300	1300
Plot 109	26-May-10	15867100526132	1.26	7300	2070	5960	<50	1520	1770
Plot 109	31-May-11	15867110531144	1.56	6270	1570	4720	<50	1350	1150
Plot 109	01-Jun-12	15867120601156	1.58	5560	1180	4620	<50	1260	933
Plot 109	05-Jun-13	15867130605169	1.78	6690	1400	5220	<50	1570	1050
Plot 109	30-May-14	15867140530181	1.46	6820	1490	4890	<50	1340	1060
Plot 109	04-Jun-15	15867150604108	1.66	5100	1400	4100	<50	1100	930
Plot 109	31-May-16	15867160531106	1.35	4200	1100	2700	<50	850	710
Plot 109	31-May-17	15867170531105	1.47	4400	930	2900	<50	830	690
Plot 109	30-May-18	15867180530106	1.43	5800	1200	4700	<50	1500	1100
Plot 109	30-May-19	15867190530115	1.3	5750	1510	4520	<20	1380	1060
Plot 109	03-Jun-20	15867200603109	1.11	5590	1290	4400	<20	1340	1100
Plot 109	08-Jun-21	15867210608107	1.39	5650	1350	4440	<20	1260	980
Plot 109	07-Jun-22	15867220607108	1.49	5720	1430	4440	27	1430	1040
Plot 109	20-Jun-23	15867230620107	1.28	6400	1440	3980	<20	970	1080
Plot 109	29-May-24	15867240529128	1.28	5410	1550	3880	<20	1330	1020
Plot 109	17-Jun-25	15867250617107	1.37	1860	382	1170	<20	349	290
Plot 109	17-Jun-25	15867250617107R	---	7150	1460	4230	<20	1300	990
Plot 110	15-May-08	15867080515106	---	5720	1570	3640	<50	1410	1060
Plot 110	12-Jun-09	15867090612118	1.75	5960	1430	4360	<50	1290	1290
Plot 110	26-May-10	15867100526133	1.51	6570	2210	6150	<50	1550	2000
Plot 110	31-May-11	15867110531145	1.8	6500	1910	5480	<50	1490	1290
Plot 110	01-Jun-12	15867120601157	1.6	5560	1380	4970	<50	1370	1060
Plot 110	04-Jun-13	15867130604170	1.91	6940	1530	5890	<50	1640	1260
Plot 110	30-May-14	15867140530182	1.47	7080	1460	5130	<50	1390	1190
Plot 110	04-Jun-15	15867150604110	1.69	5700	1500	4600	<50	1300	1100
Plot 110	31-May-16	15867160531108	1.47	3700	860	2600	<50	790	680
Plot 110	31-May-17	15867170531107	1.65	3600	790	2300	<50	710	570
Plot 110	30-May-18	15867180530107	1.47	6200	1400	4600	<50	1300	1100
Plot 110	30-May-19	15867190530118	1.5	5660	1630	4770	64	1360	1170
Plot 110	03-Jun-20	15867200603111	1.29	6160	1420	4790	<20	1420	1180
Plot 110	08-Jun-21	15867210608109	1.54	6060	1520	5120	<20	1480	1240
Plot 110	07-Jun-22	15867220607110	1.83	6090	1500	4880	23	1530	1200
Plot 110	20-Jun-23	15867230620109	1.46	7340	1750	4160	<20	1150	1150
Plot 110	29-May-24	15867240529124	1.52	6640	1580	4030	<20	1470	1290
Plot 110	17-Jun-25	15867250617109	1.6	2870	614	1570	<20	472	380
Plot 110	17-Jun-25	15867250617109R	---	8290	1770	4790	<20	1380	1160

TABLE G4

Historical Labrador Tea Leaves Quality Results - Macronutrients

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	N %	Ca mg/kg	Mg mg/kg	K mg/kg	Na mg/kg	P mg/kg	S mg/kg
Plot 114	15-May-08	15867080515108	---	5570	1470	4450	<50	1480	1070
Plot 114	12-Jun-09	15867090612119	1.77	5670	1410	4880	<50	1380	1390
Plot 114	26-May-10	15867100526134	1.37	6970	2110	6510	<50	1420	1980
Plot 114	31-May-11	15867110531146	1.52	6390	1410	4730	<50	1190	1040
Plot 114	01-Jun-12	15867120601158	1.59	5780	1130	4580	<50	1160	974
Plot 114	04-Jun-13	15867130604171	1.94	6450	1450	6380	<50	1640	1240
Plot 114	31-May-14	15867140531183	1.51	6320	1190	5250	<50	1200	1020
Plot 114	04-Jun-15	15867150604107	1.65	6100	1600	5100	<50	1300	1000
Plot 114	01-Jun-16	15867160601110	1.51	4800	1400	4200	<50	1200	960
Plot 114	31-May-17	15867170531104	1.63	4900	1000	3900	<50	990	860
Plot 114	30-May-18	15867180530104	1.63	6200	1500	5200	55	1500	1100
Plot 114	31-May-19	15867190531124	1.4	5290	1500	5220	20	1410	1160
Plot 114	03-Jun-20	15867200603107	1.46	5350	1410	5290	<20	1550	1310
Plot 114	08-Jun-21	15867210608106	1.7	6220	1650	5580	29	1490	1120
Plot 114	07-Jun-22	15867220607107	1.73	4930	1350	4960	<20	1490	1160
Plot 114	20-Jun-23	15867230620106	1.43	5570	1650	4290	<20	1210	1190
Plot 114	30-May-24	15867240530135	1.53	5520	1530	5100	<20	1570	1170
Plot 114	17-Jun-25	15867250617105	1.7	7700	1540	3360	<20	1480	1330
Plot 117	15-May-08	15867080515107	---	5750	1410	3640	<50	1300	966
Plot 117	12-Jun-09	15867090612120	1.69	5780	1140	4160	<50	1240	1230
Plot 117	26-May-10	15867100526135	1.55	7540	2180	6840	<50	1750	1840
Plot 117	31-May-11	15867110531147	1.59	6740	1580	4290	<50	1280	1140
Plot 117	01-Jun-12	15867120601159	1.54	5140	1280	4620	<50	1360	999
Plot 117	04-Jun-13	15867130604172	1.7	5870	1360	4680	<50	1390	1080
Plot 117	31-May-14	15867140531184	1.46	7110	1330	5110	<50	1420	1100
Plot 117	04-Jun-15	15867150604111	1.55	5300	1300	4100	<50	1100	900
Plot 117	01-Jun-16	15867160601109	1.55	5100	1100	3200	<50	1000	830
Plot 117	31-May-17	15867170531103	1.53	4400	940	3400	<50	950	760
Plot 117	30-May-18	15867180530105	1.56	6500	1500	4900	<50	1400	1200
Plot 117	31-May-19	15867190531123	1.57	5910	1580	4510	<20	1350	1090
Plot 117	03-Jun-20	15867200603106	1.28	5290	1450	4830	<20	1410	1250
Plot 117	08-Jun-21	15867210608105	1.15	5350	1510	5180	<20	1510	1140
Plot 117	07-Jun-22	15867220607106	1.85	5770	1380	4630	27	1430	1050
Plot 117	20-Jun-23	15867230620105	1.58	7990	1670	3750	<20	1210	1220
Plot 117	30-May-24	15867240530134	1.49	5500	1520	4000	<20	1470	1040

TABLE G4

Historical Labrador Tea Leaves Quality Results - Macronutrients

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	N %	Ca mg/kg	Mg mg/kg	K mg/kg	Na mg/kg	P mg/kg	S mg/kg
Plot 123	15-May-08	15867080515109	---	5540	1340	3310	<50	1180	976
Plot 123	12-Jun-09	15867090612121	1.65	5250	1270	3410	<50	1150	1270
Plot 123	26-May-10	15867100526136	1.23	6000	1480	5120	<50	1270	1610
Plot 123	31-May-11	15867110531148	1.4	6170	1450	4400	<50	1160	1060
Plot 123	01-Jun-12	15867120601160	1.52	5450	1330	4880	<50	1280	1380
Plot 123	04-Jun-13	15867130604173	1.67	5530	1370	4450	<50	1220	1040
Plot 123	30-May-14	15867140530185	1.3	6610	1280	4800	<50	1170	1060
Plot 123	03-Jun-15	15867150603101	1.58	6000	1400	4300	<50	1200	1100
Plot 123	30-May-16	15867160530103	1.48	2600	550	1500	<50	490	430
Plot 123	31-May-17	15867170531109	1.55	4500	970	3200	<50	920	740
Plot 123	31-May-18	15867180531109	1.33	6200	1400	4300	<50	1300	1100
Plot 123	30-May-19	15867190530114	1.38	5680	1510	4630	<20	1290	1080
Plot 123	02-Jun-20	15867200602103	1.1	5880	1240	4580	<20	1240	1080
Plot 123	07-Jun-21	15867210607102	1.44	5600	1480	5210	21	1380	1230
Plot 123	06-Jun-22	15867220606103	1.45	5690	1380	4410	20	1360	1090
Plot 123	19-Jun-23	15867230619102	1.4	6800	1430	4120	<20	1110	1150
Plot 123	28-May-24	15867240528107	1.45	6030	1480	4420	<20	1390	1200
Plot 123	16-Jun-25	15867250616101	1.54	7430	1440	3880	<20	1350	1220
Plot 402	15-May-08	15867080515110	---	5680	1540	3650	<50	1350	1010
Plot 402	12-Jun-09	15867090612122	1.87	5810	1110	4550	<50	1290	1300
Plot 402	12-Jun-09	15867090612127	1.91	5720	1260	4450	<50	1290	1510
Plot 402	25-May-10	15867100525137	1.63	7970	2010	6870	<50	1720	2060
Plot 402	31-May-11	15867110531149	1.54	6550	1560	5650	<50	1340	1250
Plot 402	01-Jun-12	15867120601161	1.51	5120	1300	4760	<50	1210	1010
Plot 402	04-Jun-13	15867130604174	1.82	6120	1450	5370	<50	1380	1080
Plot 402	31-May-14	15867140531186	1.63	7060	1360	5110	<50	1360	1120
Plot 402	04-Jun-15	15867150604112	1.77	6100	1400	5300	<50	1300	1100
Plot 402	30-May-16	15867160530101	1.6	4700	1200	3100	<50	980	820
Plot 402	31-May-17	15867170531101	1.78	5200	1100	3400	<50	980	830
Plot 402	29-May-18	15867180529101	1.55	7700	1700	5400	120	1700	1300
Plot 402	30-May-19	15867190530110	1.57	6030	1620	5260	<20	1510	1250
Plot 402	02-Jun-20	15867200602101	1.33	6330	1400	5290	<20	1440	1180
Plot 402	07-Jun-21	15867210607101	1.61	6150	1760	6200	23	1730	1420
Plot 402	06-Jun-22	15867220606101	1.72	6490	1460	5300	35	1470	1080
Plot 402	20-Jun-23	15867230620110	1.37	7280	1730	4800	<20	1240	1340
Plot 402	27-May-24	15867240527101	1.52	6360	1560	5000	<20	1500	1230
Plot 402	16-Jun-25	15867250616102	1.53	7020	1600	4430	<20	1370	1210

Notes:

R - MSI Sample numbers denoted with an "R" represent an aliquot that was analyzed for the sample. At the laboratory's recommendation, these results were not utilized in any statistical analysis as they may be biased

TABLE G5

Historical Moss Bag Quality Results - Metals

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	Al mg/kg	Sb mg/kg	As mg/kg	Ba mg/kg	Be mg/kg	B mg/kg	Cd mg/kg	Cr mg/kg	Co mg/kg	Cu mg/kg	Fe mg/kg	Pb mg/kg	Li mg/kg	Mn mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	Se mg/kg	Ag mg/kg	Sr mg/kg	S mg/kg	Tl mg/kg	Sn mg/kg	Ti mg/kg	U mg/kg	V mg/kg	Zn mg/kg	Zr mg/kg
Unexposed - Acid Washed																													
Unexposed Moss	03-Jul-19	15867190703001	188	0.032	0.21	2.91	<0.010	<1.0	<0.0050	0.5	0.089	0.63	423	2.87	<0.50	4.18	0.0287	0.331	0.42	0.071	0.0061	0.354	560	0.0022	3.58	5.25	0.0144	0.45	2.46	0.42
Unexposed Moss	03-Jul-19	15867190703002	209	0.033	0.216	2.97	<0.010	<1.0	<0.0050	0.54	0.086	0.72	445	3.4	<0.50	3.55	0.0283	0.331	0.37	0.063	0.0058	0.356	570	0.0024	2.73	5.39	0.0166	0.51	2.15	0.38
Unexposed Moss	03-Jul-19	15867190703003	210	0.028	0.218	2.64	<0.010	<1.0	<0.0050	0.537	0.088	0.77	448	3.05	<0.50	3.7	0.0298	0.327	0.4	0.066	0.0065	0.347	550	0.0021	3.42	5.74	0.0154	0.5	2.4	0.39
Unexposed Moss*	09-Jun-21	15867210610103	943	0.071	0.638	10.5	0.016	<1.0	0.0074	1.89	0.23	5.02	885	3.27	<0.50	3.74	0.0653	0.928	0.65	0.142	0.0192	1.55	980	0.0107	1.97	23	0.121	1.94	2.43	1.3
Unexposed Moss*	09-Jun-21	15867210610101	855	0.077	0.676	10.7	0.016	<1.0	0.0102	1.81	0.26	5.3	902	3.44	<0.50	4.78	0.0735	1.19	0.77	0.177	0.031	1.6	1090	0.0115	1.67	21.6	0.136	1.82	2.95	1.17
Unexposed Moss*	09-Jun-21	15867210610102	1080	0.066	0.605	10.8	0.017	<1.0	0.0073	2.05	0.229	4.75	889	3.25	<0.50	4.06	0.0644	0.799	0.67	0.145	0.0184	1.64	980	0.0127	2.19	23.3	0.118	2.13	2.53	1.36
Unexposed Moss	08-Jun-22	15867220608219	272	0.051	0.273	3.98	<0.010	<1.0	0.0142	0.766	0.132	1.49	331	0.544	<0.50	7.73	0.0375	0.436	0.45	0.079	0.0081	0.509	670	0.0035	0.47	8.02	0.0346	0.61	4.88	0.72
Unexposed Moss	08-Jun-22	15867220608220	254	0.048	0.26	3.53	<0.010	<1.0	0.0147	0.718	0.125	1.43	316	0.565	<0.50	7.36	0.0455	0.407	0.43	0.087	0.007	0.477	670	0.0027	0.35	7.69	0.0334	0.55	6.75	0.57
Unexposed Moss	08-Jun-22	15867220608221	250	0.047	0.258	3.77	<0.010	<1.0	0.0135	0.692	0.145	1.63	321	0.553	<0.50	8.63	0.0328	0.42	0.42	0.077	0.0064	0.448	630	<0.0020	0.41	7.65	0.0371	0.56	4.5	0.54
Unexposed Moss	21-Jun-23	15867230621216	259	0.042	0.25	4.08	<0.010	<1.0	0.0173	0.693	0.132	1.57	329	0.57	<0.50	8.92	0.0388	0.396	0.47	0.068	0.006	0.469	580	<0.0020	0.54	7.96	0.0298	0.55	5.16	0.5
Unexposed Moss	21-Jun-23	15867230621217	245	0.043	0.268	3.73	<0.010	<1.0	0.0155	0.632	0.138	1.35	329	0.507	<0.50	8.34	0.0355	0.356	0.43	0.075	0.0055	0.432	540	<0.0020	1.01	7.04	0.0288	0.5	4.99	0.52
Unexposed Moss	21-Jun-23	15867230621218	237	0.045	0.255	3.92	<0.010	<1.0	0.0178	0.592	0.14	1.56	319	0.571	<0.50	8.82	0.035	0.392	0.42	0.071	0.0058	0.405	530	<0.0020	0.37	6.7	0.0293	0.48	4.55	0.42
Unexposed Moss	30-May-24	15867240530319	274	0.045	0.27	3.89	<0.010	<1.0	0.013	0.688	0.123	1.38	313	0.559	<0.50	7.2	0.0354	0.376	0.43	0.073	0.0062	0.503	---	0.0026	0.39	8.82	0.034	0.6	3.87	0.57
Unexposed Moss	30-May-24	15867240530320	295	0.047	0.285	3.97	<0.010	<1.0	0.0138	0.744	0.126	1.46	331	0.549	<0.50	7.81	0.035	0.407	0.46	0.077	0.0081	0.519	---	0.0026	0.23	9.56	0.0354	0.65	4.01	0.63
Unexposed Moss	30-May-24	15867240530321	295	0.053	0.295	4.2	<0.010	<1.0	0.0146	0.777	0.138	1.45	354	0.577	<0.50	7.4	0.0372	0.423	0.46	0.08	0.0071	0.542	---	0.0028	0.26	9.41	0.0384	0.67	4.25	0.64
Unexposed Moss	18-Jun-25	15867250618219	237	0.042	0.246	3.84	<0.010	<1.0	0.0194	0.602	0.162	1.52	297	0.517	<0.50	10.2	0.034	0.624	0.4	0.065	0.0054	0.482	600	0.0021	<0.10	10.1	0.0265	0.48	5.06	<0.50
Unexposed Moss	18-Jun-25	15867250618220	278	0.049	0.269	4.15	<0.010	<1.0	0.016	0.663	0.139	1.5	326	0.537	<0.50	7.72	0.0363	0.366	0.45	0.076	0.0063	0.472	620	0.0024	0.14	10.8	0.0313	0.58	5.43	0.49
Unexposed Moss	18-Jun-25	15867250618221	253	0.051	0.259	4.54	<0.010	<1.0	0.0171	0.622	0.151	1.48	318	0.538	<0.50	8.57	0.0364	0.376	0.42	0.066	0.0063	0.523	670	0.0023	0.17	10	0.0293	0.53	5.47	0.46
Zone 1																													
MB4	31-May-19	15867190531420	231	0.049	0.26	3.86	<0.010	<1.0	0.0175	0.504	0.115	0.99	419	2.9	<0.50	17.5	0.0419	0.327	0.4	0.063	0.0092	0.72	550	0.0066	3.01	6.63	0.0173	0.57	5.99	0.4
MB4*	08-Jun-21	15867210608411	1420	0.054	0.696	14.5	0.022	1.1	0.0142	3.02	0.234	2.56	865	3.22	<0.50	9.38	0.0771	0.938	0.82	0.137	0.0218	2.19	1070	0.0145	0.12	19.7	0.148	2.94	4.28	2.18
MB4	08-Jun-22	15867220608213	296	0.089	0.35	6.28	<0.010	1.4	0.0299	0.849	0.168	2.11	408	1.12	<0.50	30.7	0.0841	0.465	0.67	0.106	0.0117	1.22	700	0.0033	1.03	10.4	0.0419	0.69	9.48	0.69
MB4	19-Jun-23	15867230619202	310	0.071	0.298	5.76	<0.010	<1.0	0.0281	0.741	0.165	1.9	406	0.795	<0.50	25.5	0.0543	0.396	0.58	0.082	0.01	1.15	670	0.0037	0.41	9.78	0.0406	0.72	8.08	0.65
MB4	29-May-24	15867240529314	305	0.071	0.29	6.2	<0.010	1	0.025	0.681	0.185	1.87	382	0.837	<0.50	20	0.049	0.432	0.56	0.076	0.0105	0.933	---	0.0034	0.25	9.29	0.0351	0.69	5.82	0.64
MB4	17-Jun-25	15867250617212	356	0.062	0.305	6.27	<0.010	1.1	0.0272	0.83	0.171	1.91	424	0.818	<0.50	20.5	0.0715	0.403	0.62	0.083	0.0083	1.08	580	0.0038	0.18	11.9	0.0374	0.79	7.97	0.63
MB5	31-May-19	15867190531418	226	0.065	0.308	3.44	<0.010	<1.0	0.0189	0.53	0.102	1.25	429	2.92	<0.50	11.8	0.0444	0.337	0.43	0.075	0.0096	0.64	580	0.0056	3.52	6.73	0.0172	0.56	6.25	0.4
MB5*	08-Jun-21	15867210608409	1130	0.064	0.714	12.9	0.017	<1.0	0.016	2.26	0.222	2.24	955	2.92	<0.50	5.51	0.0909	0.82	0.77	0.143	0.0196	1.86	1020	0.012	0.13	22	0.142	2.38	4.7	1.51
MB5	07-Jun-22	15867220607212	299	0.079	0.37	5.67	<0.010	1	0.029	0.771	0.173	2.2	402	1.37	<0.50	13.1	0.0852	0.489	0.59	0.098	0.012	0.922	770	0.0028	0.6	10.9	0.0418	0.7	9.1	0.68
MB5	19-Jun-23	15867230619203	273	0.072	0.282	4.97	<0.010	<1.0	0.0322	0.638	0.154	1.96	354	0.828	<0.50	15.1	0.056	0.402	0.44	0.076	0.011	0.93	660	0.0033	0.26	8.85	0.0335	0.61	7.51	0.56
MB5	29-May-24	15867240529315	274	0.056	0.252	5.27	<0.010	<1.0	0.0251	0.646	0.157	1.76	356	0.888	<0.50	15.2	0.0452	0.415	0.49	0.07	0.0086	0.9	---	0.0032	0.69	8.46	0.0341	0.62	6.06	0.64
MB5	17-Jun-25	15867250617211	290	0.056	0.266	4.44	<0.010	1	0.0183	0.673	0.121	1.69	363	0.803	<0.50	8.59	0.0464	0.391	0.46	0.074	0.0077	0.626	620	0.0029	0.2	10.8	0.0326	0.64	4.74	0.55
MB15	30-May-19	15867190530413	213	0.051	0.25	4.25	<0.010	<1.0	0.0185	0.503	0.111	0.98	411	2.93	<0.50	42.2	0.0416	0.361	0.46	0.066	0.0081	0.992	560	0.0045	2.54	6.59	0.0168	0.54	6.53	0.4
MB15*	08-Jun-21	15867210608410	764	0.057	0.581	9.74	0.014	<1.0	0.011	1.89	0.192	1.88	1110	2.76	<0.50	28.9	0.0715	0.701	0.69	0.13	0.0167	1.65	1000	0.0091	0.12	21.6	0.118	1.81	4.78	1.58
MB15	07-Jun-22	15867220607210	286	0.069	0.286	5.12	<0.010	<1.0	0.0175	0.718	0.154	1.67	365	0.755	<0.50	10.9	0.0541	0.446	0.51	0.086	0.0083	0.775	610	0.0023	0.26	10.3	0.0353	0.65	5.14	0.65
MB15	19-Jun-23	15867230619207	380	0.085	0.325	8.54	<0.010	<1.0	0.0455	0.808	0.197	2.18	447	1.16	<0.50	61.3	0.0652	0.457	0.73	0.087	0.0129	1.93	670	0.0054	0.23	11.3	0.0423	0.87	12.1	0.74
MB15	29-May-24	15867240529313	284	0.064	0.25	5.08	<0.010	<1.0	0.0206	0.596	0.153	1.63	395	0.653	<0.50	18.9	0.0525	0.404	0.48	0.075	0.0077	0.799	---	0.0031	0.17	9.23	0.033	0.62	4.68	0.62
MB15	17-Jun-25	15867250617213	338	0.059	0.279	6	<0.010	<1.0	0.0343	0.715	0.173	1.81	386	0.64	<0.50	95.5	0.0511	0.392	0.6	0.085	0.0084	1.37	590	0.0043	<0.10	11.3	0.0348	0.68	9.38	0.58
Zone 2																													
MB1	01-Jun-19	15867190601422	215	0.038	0.197	3.22	<0.010	<1.0	0.0111	0.478	0.099	0.74	418	2.34	<0.50	24.6	0.0375	0.334	0.38	0.071	0.0074	0.683	580	0.0034	2.81	5.83	0.0163	0.53	3.14	0.41
MB1*	07-Jun-21	15867210607405	968	0.045	0.648	12.3	0.016	<1.0	0.0088	2.2	0.203	2.58	640	3.16	<0.50	7.03	0.078	0.787	0.71	0.135	0.0188	1.69	1060	0.0112	<0.10	16.5	0.151	2.5	2.49	1.78
MB1	08-Jun-22	15867220608216	335	0.068	0.289	6.33	<0.010	<1.0	0.0204	0.884	0.159	1.73	432	0.737	<0.50	22.3	0.059	0.487	0.63	0.087	0.0088	1.06	690	0.003	0.82	11.7	0.0408	0.76	6.73	0.83
MB1	19-Jun-23	15867230619208	396	0.057	0.273	9.77	0.01	<1.0	0.0445	0.763	0.201	1.93	436	0.706	<0.50	81.6	0.0584	0.39	0.74	0.083	0.01	2.51	690	0.0054	0.43	11.8	0.0419	0.88	10.4	0.66
MB1	28-May-24	15867240528304	326	0.059	0.28	6.44	<0.010	<1.0	0.0301	0.676	0.156	1.71	369	0.603	<0.50	44.6	0.063	0.422	0.61	0.078	0.0105	1.22	---	0.0041	0.2	9.74	0.0366	0.73	6.68	0.78
MB1	17-Jun-25	15867250617215	306	0.053	0.248	6.78	<0.010	<1.0	0.0344	0.651	0.195	2.09	347	0.552	<0.50	46.3	0.0444	0.36	0.62	0.073	0.007	1.39	580	0.0042	<0.10	10.1	0.031	0.64	7.33	0.5
MB2	01-Jun-19	15867190601426	204	0.036	0.209	3.19	<0.010	<1.0	0.0083	0.459	0.097	0.69	407	2.79	<0.50	13.6	0.0353	0.296	0.34	0.063	0.0077	0.614	550	0.0029	2.45	5.63	0.0152	0.49	2.93	0.37
MB2*	07-Jun-21	15867210607406	1240	0.077	0.616	12.8	0.02	<1.0	0.0053	2.43	0.213	1.73	988	1.95	<0.50	8.33	0.0635	0.729	0.8	0.129	0.0162	1.89	960	0.0129	<0.10	19.5	0.118	2.47	2.58	1.54
MB2	08-Jun-22	15867220608217	286	0.066	0.317	5.56	<0.010	1	0.0233	0.791	0.16	1.87	409	0.727	<0.50	25.2	0.0492	0.499	0.62	0.094	0.0083	0.862	770	0.0027	1.26	9.65	0.0395	0.63	6.39	0.7
MB2	19-Jun-23	15867230619209	242	0.053	0.247	5.05	<0.010	<1.0	0.0237	0.555	0.21	2.19	351	0.605	<0.50	22.3	0.0462	0.482	0.43	0.056	0.0081	0.892	720	0.0031	0.11	7.7	0.0318	0.55	5.75	0.51
MB2	28-May-24	15867240528305	270	0.051	0.261	4.58	<0.010	<1.0	0.0176	0.605	0.121	1.46	336	0.555	<0.50	14.7	0.0465	0.404	0.42	0.076	0.0082	0.763	---	0.0034	0.88	8.73	0.0355	0.62	4.23	0.64
MB2	17-Jun-25	15867250617216	270	0.055	0.254	4.27	<0.010	<1.0	0.0178	0.684	0.133	1.58	337	0.581	<0.50	15	0.0401	0.453	0.43	0.076	0.0069	0.662	600	0.0028	<0.10	9.4	0.0306	0.57	4.2	0.56
MB9	30-May-19	15867190530411	200	0.038	0.202	3.55	<0.010	<1.0	0.0087	0.434	0.109	0.69	370	2.18	<0.50	20.1	0.0404	0.336	0.46	0.068	0.0068	0.662	530	0.003	2.45	6.06	0.0172	0.5	3.56	0.41
MB9*	07-Jun-21	15867210607403	967	0.048	0.651	11.8	0.018	<1.0	0.0069	2.24	0.191	2.07	884	2.66	<0.50	7.11	0.0678	0.826	0.7	0.142	0.0245	1.64	1080	0.0107	<0.10	20.5	0.132	2.21	2.7	1.7
MB9	06-Jun-22	15867220606203	299	0.059	0.29	4.96	<0.010	<1.0	0.0159	0.726	0.142	2.27	388	0.757	<0.50	14.6	0.0502	0.442	0.59	0.101	0.0075	0.879	650	<0.0020	3.6	10.5	0.039	0.65	5.09	0.71
MB9	19-Jun-23	15867230619201	279	0.067	0.323	4.98	<0.010	<1.0	0.0161	0.758	0.182	1.77	439	0.685	<0.50	13	0.0499	0.813	0.42	0.074	0.0089	0.73	780	0.0026	0.13	9.61	0.0402	0.61	4.89	0.65
MB9	27-May-24	15867240527303	237	0.056	0.247	4.54	<0.010	<1.0	0.0161	0.602	0.142	1.46	309	0.515	<0.50	13.7	0.0467	0.398	0.48	0.067	0.0076	0.756	---	0.0025	<0.10	7.78	0.0308	0.54	3.67	0.67
MB9	16-Jun-25	15867250616201	314	0.054	0.253	5.39	<0.010	1.3	0.0216	0.714	0.198	1.75	369	0.535	<0.50	22.2	0.041	0.414	0.51	0.075	0.0068	0.866	600	0.0028	0.12	11	0.032	0.62	5.4	0.58

TABLE G5

Historical Moss Bag Quality Results - Metals

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	Al mg/kg	Sb mg/kg	As mg/kg	Ba mg/kg	Be mg/kg	B mg/kg	Cd mg/kg	Cr mg/kg	Co mg/kg	Cu mg/kg	Fe mg/kg	Pb mg/kg	Li mg/kg	Mn mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	Se mg/kg	Ag mg/kg	Sr mg/kg	S mg/kg	Tl mg/kg	Sn mg/kg	Ti mg/kg	U mg/kg	V mg/kg	Zn mg/kg	Zr mg/kg
Zone 2																													
MB11	01-Jun-19	15867190601424	200	0.046	0.193	2.94	<0.010	<1.0	0.0053	0.47	0.091	0.62	431	2.41	<0.50	31.1	0.0366	0.328	0.33	0.07	0.0161	0.528	590	0.0025	2.93	5.94	0.0153	0.51	2.83	0.36
MB11*	07-Jun-21	15867210607404	722	0.051	0.713	11.4	0.013	<1.0	<0.0050	2.1	0.191	1.61	1260	2.7	<0.50	5.77	0.0716	0.659	0.67	0.151	0.0202	1.56	1030	0.0078	0.11	19.6	0.141	1.81	2.02	1.82
MB11	08-Jun-22	15867220608218	313	0.059	0.303	5.23	<0.010	<1.0	0.0164	0.761	0.138	1.66	420	0.839	<0.50	16.6	0.0518	0.463	0.52	0.088	0.0074	0.873	640	0.0025	1.45	11	0.0478	0.73	5.25	0.75
MB11	29-Jun-23	15867230629218	312	0.053	0.258	5.44	0.01	<1.0	0.0213	0.697	0.156	1.75	383	0.655	<0.50	23.1	0.0463	0.407	0.59	0.1	0.0089	0.999	650	0.0032	0.87	9.29	0.039	0.71	6.36	0.77
MB11	28-May-24	15867240528306	257	0.048	0.244	4.79	<0.010	<1.0	0.0153	0.621	0.134	1.49	312	0.546	<0.50	10.1	0.0392	0.556	0.4	0.06	0.007	0.603	---	0.0023	0.16	7.94	0.0311	0.56	3.71	0.59
MB11	18-Jun-25	15867250618217	314	0.056	0.256	5.5	<0.010	<1.0	0.024	0.74	0.167	1.73	383	0.614	<0.50	27.1	0.0412	0.381	0.52	0.079	0.0075	1.03	580	0.0031	0.34	9.47	0.0329	0.68	6.06	0.56
MB14	30-May-19	15867190530409	258	0.044	0.199	4.27	<0.010	<1.0	0.0135	0.506	0.113	0.82	419	2.58	<0.50	73	0.037	0.312	0.43	0.073	0.009	0.828	520	0.004	3.32	7.08	0.0186	0.6	3.79	0.43
MB14*	07-Jun-21	15867210607402	921	0.055	0.63	16.3	0.018	1	0.0063	1.96	0.213	1.63	1230	2.35	<0.50	4.44	0.0658	0.591	0.74	0.131	0.0148	1.76	940	0.0112	0.14	23.1	0.12	2.08	2.87	1.52
MB14	06-Jun-22	15867220606202	296	0.062	0.291	4.58	<0.010	<1.0	0.0155	0.775	0.135	1.63	388	0.798	<0.50	11.5	0.0461	0.43	0.55	0.11	0.0085	0.789	650	<0.0020	0.26	10.1	0.0405	0.68	5.42	0.62
MB14	20-Jun-23	15867230620212	294	0.049	0.26	5.53	<0.010	<1.0	0.0199	0.72	0.153	1.55	383	0.572	<0.50	31	0.0448	0.365	0.47	0.08	0.0072	1.04	590	0.0027	0.33	9.18	0.0341	0.65	5.9	0.57
MB14	27-May-24	15867240527302	292	0.054	0.258	5.13	<0.010	<1.0	0.0148	0.664	0.143	1.53	343	0.633	<0.50	10.3	0.047	0.423	0.47	0.069	0.0078	0.765	---	0.0029	0.36	9.31	0.0354	0.68	4	0.62
MB14	16-Jun-25	15867250616203	316	0.055	0.252	5.34	<0.010	1.2	0.0229	0.68	0.161	1.62	364	0.618	<0.50	17	0.0411	0.366	0.56	0.078	0.0078	0.904	560	0.0032	<0.10	11.2	0.0311	0.64	5.36	0.62
MB19	29-May-19	15867190529405	193	0.072	0.184	4.62	<0.010	<1.0	0.0109	0.562	0.107	0.74	379	2.38	<0.50	50.3	0.0298	0.323	0.4	0.064	0.0079	1.07	570	0.0035	2.84	5.94	0.0154	0.49	4.61	0.42
MB19*	09-Jun-21	15867210609414	790	0.049	0.562	14.1	0.015	1.5	0.021	2.04	0.198	2.63	832	2.79	<0.50	74	0.0671	0.69	0.89	0.124	0.0154	2.42	940	0.0097	<0.10	15.6	0.113	1.91	9.79	1.35
MB19	06-Jun-22	15867220606206	269	0.062	0.264	5.52	<0.010	<1.0	0.0195	0.706	0.158	1.76	354	0.647	<0.50	19.2	0.0498	0.449	0.53	0.086	0.0085	1	640	0.0023	0.68	9.75	0.0347	0.59	5.79	0.63
MB19	21-Jun-23	15867230621214	342	0.056	0.263	11.3	<0.010	<1.0	0.029	0.885	0.189	1.9	422	0.638	<0.50	128	0.0527	0.425	0.77	0.077	0.01	3.07	740	0.0044	0.21	9.8	0.0381	0.76	10.4	0.58
MB19	28-May-24	15867240528307	263	0.046	0.243	5.34	<0.010	<1.0	0.0134	0.643	0.12	1.4	293	0.518	<0.50	8.09	0.0379	0.358	0.4	0.062	0.0077	0.679	---	0.0025	0.22	8.21	0.0291	0.58	6.39	0.54
MB19	16-Jun-25	15867250616206	289	0.052	0.249	5.16	<0.010	<1.0	0.0227	0.712	0.154	1.57	343	0.55	<0.50	14.5	0.0367	0.428	0.5	0.076	0.0068	0.834	580	0.0026	<0.10	10.8	0.0309	0.61	5.03	0.58
MB20	31-May-19	15867190531417	206	0.069	0.191	3.54	<0.010	<1.0	0.008	0.5	0.094	0.87	428	2.43	<0.50	23.7	0.0369	0.319	0.39	0.066	0.0076	0.619	540	0.0034	3.02	6.01	0.0146	0.52	3.38	0.38
MB20*	08-Jun-21	15867210608407	708	0.044	0.519	12.5	0.016	<1.0	0.0076	1.5	0.192	1.87	731	2.86	<0.50	5.63	0.0605	0.56	0.71	0.116	0.0121	1.41	840	0.008	<0.10	16.8	0.11	1.91	2.26	0.95
MB20	07-Jun-22	15867220607208	249	0.058	0.263	5.05	<0.010	<1.0	0.018	0.6	0.167	1.77	338	0.669	<0.50	13.5	0.048	0.494	0.5	0.089	0.007	0.821	610	<0.0020	0.42	8.95	0.0352	0.55	5.36	0.56
MB20	20-Jun-23	15867230620211	267	0.049	0.229	6.04	<0.010	<1.0	0.0269	0.588	0.175	1.64	357	0.581	<0.50	30.8	0.0453	0.413	0.46	0.066	0.0075	1.01	710	0.0025	0.14	8.11	0.0296	0.58	6.42	0.49
MB20	30-May-24	15867240529316	333	0.056	0.269	6.2	<0.010	<1.0	0.0224	0.813	0.14	2.34	412	0.857	<0.50	11.5	0.0497	0.471	0.6	0.083	0.0097	1.14	---	0.0033	0.28	10.1	0.0464	0.76	9.01	0.78
MB20	17-Jun-25	15867250617207	364	0.063	0.239	8.74	0.01	<1.0	0.0442	0.684	0.171	1.91	465	0.788	<0.50	50.5	0.0534	0.366	0.64	0.086	0.0086	2.33	580	0.005	4.47	13.3	0.0361	0.81	11.4	0.67
MB22	31-May-19	15867190531415	191	0.053	0.188	3.23	<0.010	<1.0	0.0075	0.434	0.09	0.63	401	2.67	<0.50	19.5	0.0384	0.348	0.35	0.067	0.0071	0.585	570	0.0027	3.62	5.54	0.0157	0.49	2.3	0.4
MB22*	08-Jun-21	15867210608408	927	0.061	0.6	12.8	0.017	1.2	0.0206	1.87	0.22	1.82	944	2.6	<0.50	58.4	0.0729	0.616	0.78	0.134	0.0174	2.1	940	0.0102	<0.10	21	0.132	2.13	5.1	1.2
MB22	07-Jun-22	15867220607209	275	0.069	0.271	5.38	<0.010	1	0.0212	0.686	0.164	1.74	368	0.721	<0.50	39.4	0.0534	0.421	0.58	0.084	0.0112	1.03	660	0.0024	2.3	8.99	0.0354	0.61	5.89	0.62
MB22	30-May-24	15867240529317	284	0.055	0.236	6.38	<0.010	<1.0	0.0311	0.56	0.161	1.68	361	0.757	<0.50	37.9	0.0536	0.371	0.53	0.081	0.0089	1.32	---	0.004	0.16	9.77	0.0372	0.64	6.98	0.74
MB22	17-Jun-25	15867250617208	563	0.063	0.337	10.7	0.013	1.2	0.0531	0.975	0.208	2.33	581	0.691	<0.50	148	0.0714	0.49	0.81	0.11	0.0141	2.62	780	0.0069	0.14	19.4	0.0641	1.2	12.3	1.06
MB24	29-May-19	15867190529407	216	0.052	0.188	4.75	<0.010	<1.0	0.0094	0.47	0.107	0.73	383	2.98	<0.50	49.2	0.0314	0.316	0.45	0.069	0.0068	1.12	550	0.0034	2.51	6.26	0.0162	0.52	3.36	0.38
MB24*	07-Jun-21	15867210607401	1010	0.05	0.658	11.8	0.018	0.022	0.0073	2.29	0.214	1.94	1160	2.72	<0.50	5.73	0.0765	0.763	0.8	0.142	0.0178	1.75	1120	0.011	0.11	26	0.151	2.31	2.67	1.55
MB24	06-Jun-22	15867220606201	309	0.066	0.272	5.48	<0.010	<1.0	0.0222	0.735	0.172	1.73	413	0.812	<0.50	17	0.0498	0.45	0.57	0.104	0.0079	1.08	690	0.0025	0.22	10.9	0.0398	0.7	6.12	0.76
MB24	21-Jun-23	15867230621215	295	0.056	0.266	5.73	<0.010	<1.0	0.0369	0.714	0.16	1.63	375	0.643	<0.50	16.9	0.0446	0.401	0.46	0.075	0.0087	0.934	670	0.0028	0.15	8.34	0.0355	0.64	5.99	0.54
MB24	27-May-24	15867240527301	341	0.056	0.266	5.85	<0.010	<1.0	0.0187	0.65	0.134	1.78	386	0.656	<0.50	36	0.0519	0.407	0.55	0.082	0.0104	1.14	---	0.0037	0.98	10.6	0.0391	0.73	6.67	0.72
MB24	16-Jun-25	15867250616202	326	0.06	0.255	5.99	<0.010	<1.0	0.0195	0.732	0.144	1.77	357	0.554	<0.50	26.9	0.0332	0.42	0.5	0.079	0.0073	0.887	560	0.0033	0.2	11.8	0.0328	0.67	5.34	0.6
MB26	29-May-19	15867190529403	196	0.039	0.191	3.08	<0.010	<1.0	0.0098	0.445	0.094	0.72	382	2.79	<0.50	14.6	0.0359	0.323	0.36	0.068	0.0065	0.537	570	0.0029	3.73	5.77	0.0161	0.49	2.63	0.38
MB26*	09-Jun-21	15867210609413	743	0.051	0.51	11	0.015	<1.0	0.0107	1.59	0.202	1.74	838	2.2	<0.50	11.3	0.0606	0.723	0.67	0.111	0.0121	1.57	870	0.0083	<0.10	14.4	0.105	1.67	3.14	1.11
MB26	06-Jun-22	15867220606205	282	0.06	0.257	4.98	<0.010	<1.0	0.0191	0.611	0.148	1.65	377	0.627	<0.50	48.2	0.0529	0.451	0.51	0.074	0.0065	0.978	660	0.003	0.26	9.69	0.0362	0.62	6	0.55
MB26	29-May-24	15867240529309	309	0.062	0.264	5.08	<0.010	<1.0	0.0153	0.64	0.136	1.7	376	0.657	<0.50	18.7	0.0558	0.5	0.48	0.072	0.0097	0.828	---	0.0035	0.52	9.82	0.0369	0.7	6.27	0.66
MB26	16-Jun-25	15867250616205	322	0.049	0.251	6.33	<0.010	<1.0	0.0279	0.731	0.168	2.01	414	0.572	<0.50	78.8	0.0458	0.45	0.55	0.081	0.0157	1.25	670	0.0043	<0.10	11.3	0.0312	0.65	7.84	0.56
MB50	29-May-19	15867190529402	232	0.039	0.183	4.44	<0.010	<1.0	0.0101	0.508	0.106	0.86	452	2.29	<0.50	89.7	0.0344	0.362	0.41	0.069	0.0066	1.22	560	0.0031	2.88	7.03	0.0171	0.56	3.6	0.41
MB50*	09-Jun-21	15867210609412	692	0.049	0.487	10.3	0.013	<1.0	0.007	1.47	0.174	1.67	833	2.33	<0.50	5.56	0.0638	0.779	0.6	0.11	0.0128	1.35	940	0.0073	<0.10	16.9	0.102	1.66	2.24	1.14
MB50	06-Jun-22	15867220606204	320	0.067	0.277	5.34	<0.010	<1.0	0.0193	0.677	0.193	1.81	412	0.723	<0.50	12.2	0.056	0.443	0.58	0.107	0.0065	1.09	660	0.0021	0.63	11.3	0.039	0.71	5.82	0.66
MB50	21-Jun-23	15867230621213	314	0.053	0.274	6.53	<0.010	<1.0	0.0235	0.865	0.167	1.67	379	0.614	<0.50	21	0.0445	0.399	0.49	0.079	0.0076	1.12	680	0.003	0.3	9.14	0.0357	0.67	8.16	0.56
MB50	28-May-24	15867240528308	280	0.057	0.232	6.49	<0.010	<1.0	0.0244	0.519	0.19	1.9	343	0.709	<0.50	29.1	0.0518	0.474	0.5	0.07	0.01	1.24	---	0.0033	0.72	8.84	0.0367	0.62	7.16	0.76
MB50	16-Jun-25	15867250616204	364	0.059	0.271	7.48	<0.010	1.3	0.0351	0.774	0.191	1.94	412	0.585	<0.50	75	0.0448	0.386	0.62	0.086	0.0086	1.23	630	0.0038	0.11	12.2	0.0333	0.73	8.71	0.63
MB71	01-Jun-19	15867190601429	212	0.041	0.197	5.25	<0.010	<1.0	0.0115	0.474	0.124	0.66	421	2.16	<0.50	43.5	0.0355	0.338	0.41	0.068	0.0067	1.27	560	0.0033	3.27	6.11	0.0177	0.54	3.67	0.43
MB71*	09-Jun-21	15867210609415	840	0.037	0.526	9.18	0.014	<1.0	0.0052	1.77	0.178	1.12	843	1.28	<0.50	8.24	0.0492	0.521	0.57	0.111	0.0164	1.37	730	0.0086	<0.10	16.2	0.0989	1.77	1.93	1.66
MB71	06-Jun-22	15867220606207	414	0.071	0.304	31.2	0.027	1.3	0.0827	0.767	0.555	1.54	479	0.808	<0.50	113	0.0469	0.489	1.09	0.116	0.0087	32.3	740	0.0035	1.22	11.5	0.138	0.76	12	0.81
MB71	19-Jun-23	15867230619210	286	0.058	0.272	7.54	<0.010	<1.0	0.027	0.637	0.175	1.68	375	0.581	<0.50	38.8	0.0498	0.429	0.48	0.074	0.0174	1.58	660	0.0029	0.36	9.65	0.0361	0.61	6.91	0.63
MB71	30-May-24	15867240529318	244	0.051	0.244	7.5	<0.010	<1.0	0.0206	0.554	0.157	1.64	330	0.714	<0.50	21.6	0.0495	0.44	0.44	0.074	0.0083	1.36	---	0.0028	<0.10	8.7	0.0332	0.56	5.71	0.68
MB71	18-Jun-25	15867250618218	496	0.065	0.316	18.1	0.014	2.8	0.0781	0.918	0.292	2.8	557	0.799	<0.50	124	0.0518	0.405	0.84	0.092	0.0133	11.4	700	0.0059	0.24	16.3	0.0575	1.02	14	0.84

TABLE G5

Historical Moss Bag Quality Results - Metals

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	Al mg/kg	Sb mg/kg	As mg/kg	Ba mg/kg	Be mg/kg	B mg/kg	Cd mg/kg	Cr mg/kg	Co mg/kg	Cu mg/kg	Fe mg/kg	Pb mg/kg	Li mg/kg	Mn mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	Se mg/kg	Ag mg/kg	Sr mg/kg	S mg/kg	Tl mg/kg	Sn mg/kg	Ti mg/kg	U mg/kg	V mg/kg	Zn mg/kg	Zr mg/kg
Fenceline Monitoring Sites																													
Site 1	08-Jun-22	15867220608214	322	0.131	0.382	8.24	0.011	<1.0	0.0727	0.974	0.27	3.03	476	2.1	<0.50	18.3	0.509	0.512	0.79	0.094	0.0178	1.73	690	0.0053	0.78	12.5	0.0422	0.83	66.7	0.79
Site 1	19-Jun-23	15867230619205	361	0.096	0.309	8.27	0.01	<1.0	0.0605	0.814	0.225	2.44	466	1.3	<0.50	20.2	0.072	0.455	0.67	0.071	0.014	1.48	670	0.0048	0.3	11.4	0.0404	0.84	63.4	0.66
Site 1	29-May-24	15867240529310	262	0.096	0.308	6.05	<0.010	<1.0	0.0345	0.673	0.227	2.08	408	1.38	<0.50	12.9	0.0538	0.452	0.54	0.078	0.0108	1.1	---	0.0034	0.27	7.79	0.0314	0.61	29.5	0.58
Site 1	17-Jun-25	15867250617210	704	0.092	0.395	10.6	0.016	1.1	0.0604	1.42	0.311	2.72	653	1.75	<0.50	20.9	0.0659	0.506	0.86	0.098	0.0161	1.95	680	0.0072	0.48	20.2	0.0677	1.48	76.5	1.37
Site 5	07-Jun-22	15867220607211	361	0.14	0.648	9.4	0.015	1.2	0.258	1.7	0.307	3.78	663	2.81	<0.50	20	0.0861	0.663	1.24	0.103	0.0291	1.97	690	0.008	1.07	17	0.0548	0.97	27.2	1.09
Site 5	19-Jun-23	15867230619206	403	0.089	0.432	8.65	0.013	<1.0	0.0503	1.04	0.29	3.5	694	1.6	<0.50	20.3	0.0805	0.532	1.01	0.09	0.0161	1.62	650	0.0066	0.23	14.9	0.0488	1.03	37.2	0.77
Site 5	29-May-24	15867240529312	287	0.068	0.342	6.26	<0.010	<1.0	0.032	0.777	0.206	2.37	406	1.22	<0.50	14.6	0.0543	0.52	0.7	0.072	0.014	1.19	---	0.0038	0.29	9.52	0.041	0.7	21.6	0.74
Site 5	17-Jun-25	15867250617214	348	0.079	0.465	7.11	0.011	1	0.07	1	0.246	2.37	542	1.39	<0.50	15	0.0525	0.462	0.77	0.083	0.0124	1.28	580	0.0046	0.16	12	0.0408	0.86	25.1	0.68
Site 9	08-Jun-22	15867220608215	539	0.455	1.23	20.3	0.017	2.2	0.202	2.33	0.427	15.9	850	14.1	<0.50	21.1	0.183	2.44	1.56	0.137	0.0724	3.03	920	0.0162	2.36	31	0.0586	1.38	131	1.09
Site 9	19-Jun-23	15867230619204	472	0.275	0.66	16	0.014	<1.0	0.151	1.58	0.337	9.85	690	10.3	<0.50	20	0.135	2.62	1.17	0.109	0.0703	2.44	620	0.0096	0.96	20.7	0.0518	1.16	92.6	0.83
Site 9	29-May-24	15867240529311	398	0.179	0.76	11.4	0.012	1.4	0.113	1.22	0.348	8.99	615	5.44	<0.50	18.2	0.0677	0.713	1.04	0.097	0.032	1.84	---	0.0173	0.64	14.7	0.0446	0.99	53.1	0.88
Site 9	17-Jun-25	15867250617209	415	0.188	0.459	9.34	0.011	1.4	0.134	1.08	0.259	6.09	545	3.54	<0.50	17.9	0.0639	1.08	0.9	0.096	0.0225	1.92	670	0.0071	0.38	15.4	0.0429	0.96	85.2	0.84

*Batch of acid washed moss deployed in 2020 and collected in June 2021 had higher baseline metals levels.then other batches used in the program since 2019

APPENDIX H
Lichen Photographs



Lichen Sub-site 1-1



Lichen Sub-site 1-2



Lichen Sub-site 1-3



Lichen Sub-site 2-1



Lichen Sub-site 2-2



Lichen Sub-site 2-3



Lichen Sub-site 4-1



Lichen Sub-site 4-2



Lichen Sub-site 4-3



Lichen Sub-site 5-1



Lichen Sub-site 5-2



Lichen Sub-site 5-3



Lichen Sub-site 9-1



Lichen Sub-site 9-2



Lichen Sub-site 9-3



Lichen Sub-site 11-1



Lichen Sub-site 11-2



Lichen Sub-site 11-3



Lichen Sub-site 14-1



Lichen Sub-site 14-2



Lichen Sub-site 14-3



Lichen Sub-site 15-1



Lichen Sub-site 15-2



Lichen Sub-site 15-3



Lichen Sub-site 19-1



Lichen Sub-site 19-2



Lichen Sub-site 19-3



Lichen Sub-site 20-1



Lichen Sub-site 20-2



Lichen Sub-site 20-3



Lichen Sub-site 22-1



Lichen Sub-site 22-2



Lichen Sub-site 22-3



Lichen Sub-site 24-1



Lichen Sub-site 24-2



Lichen Sub-site 24-3



Lichen Sub-site 26-1



Lichen Sub-site 26-2



Lichen Sub-site 26-3



Lichen Sub-site 50-1



Lichen Sub-site 50-2



Lichen Sub-site 50-3



Lichen Sub-site 71-1

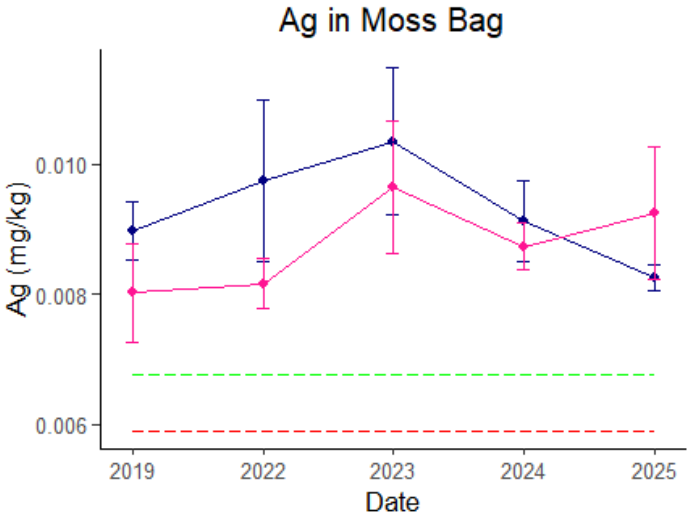


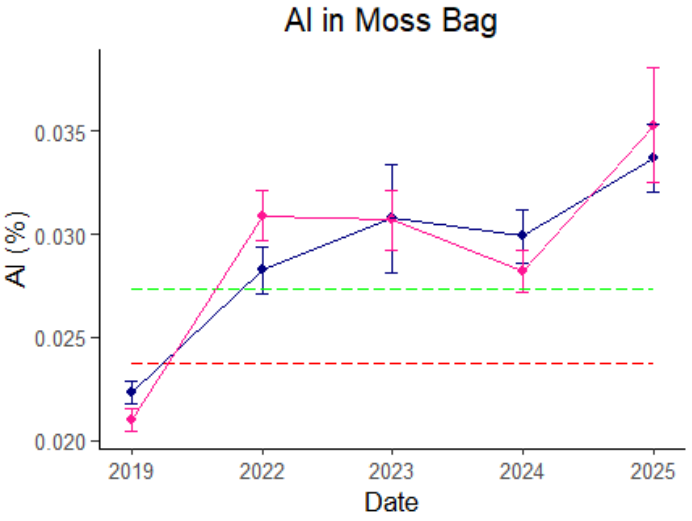
Lichen Sub-site 71-2

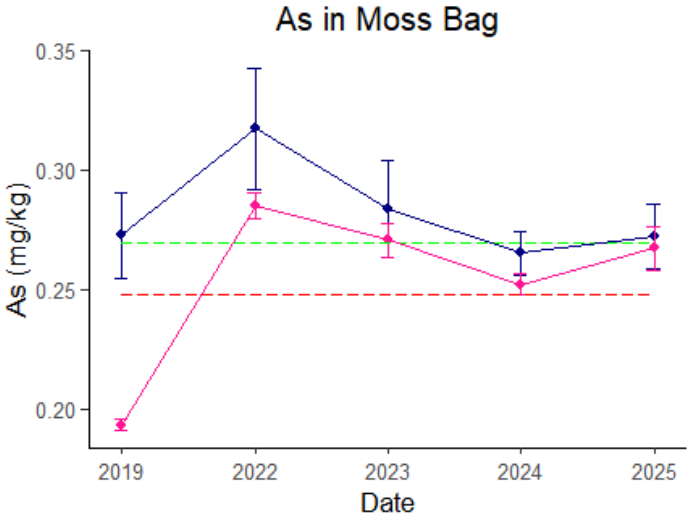


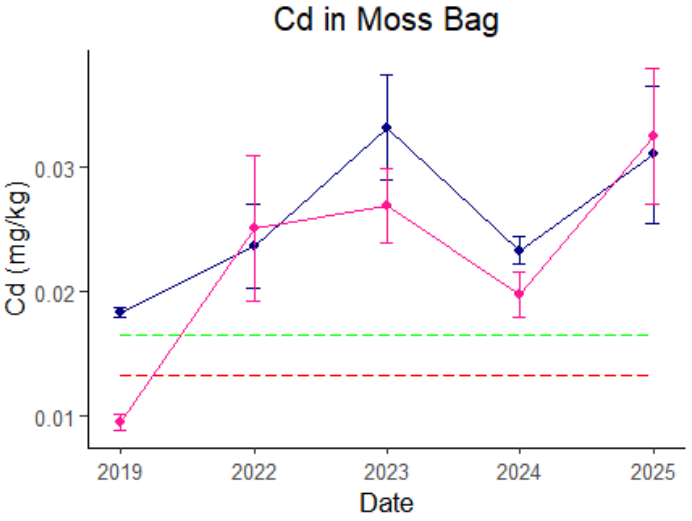
Lichen Sub-site 71-3

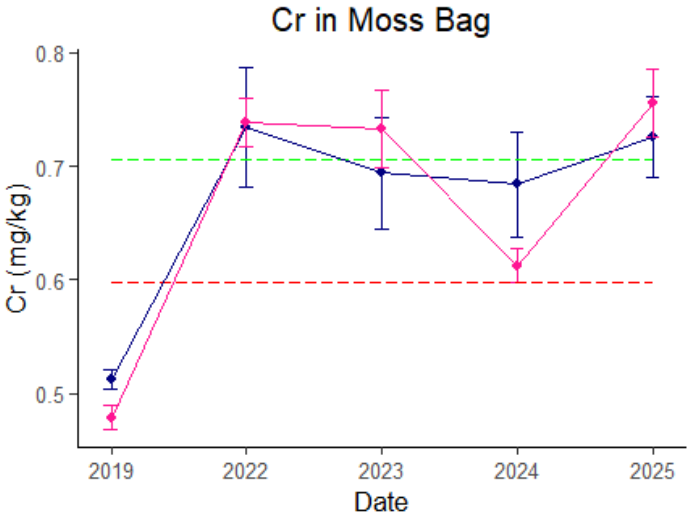
APPENDIX I
Moss Graph Bags

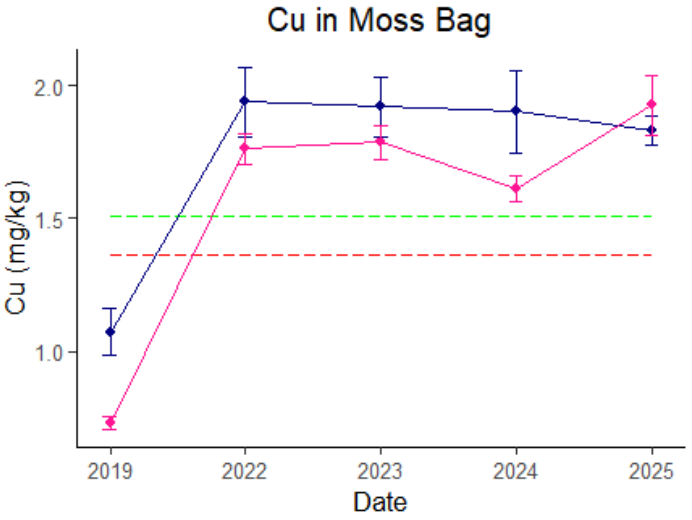












Zone 1 Mean ± SE

Zone 2 Mean ± SE

25th Percentile Historical Concentration Unexposed Moss

75th Percentile Historical Concentration Unexposed Moss

MONTROSE ENVIRONMENTAL

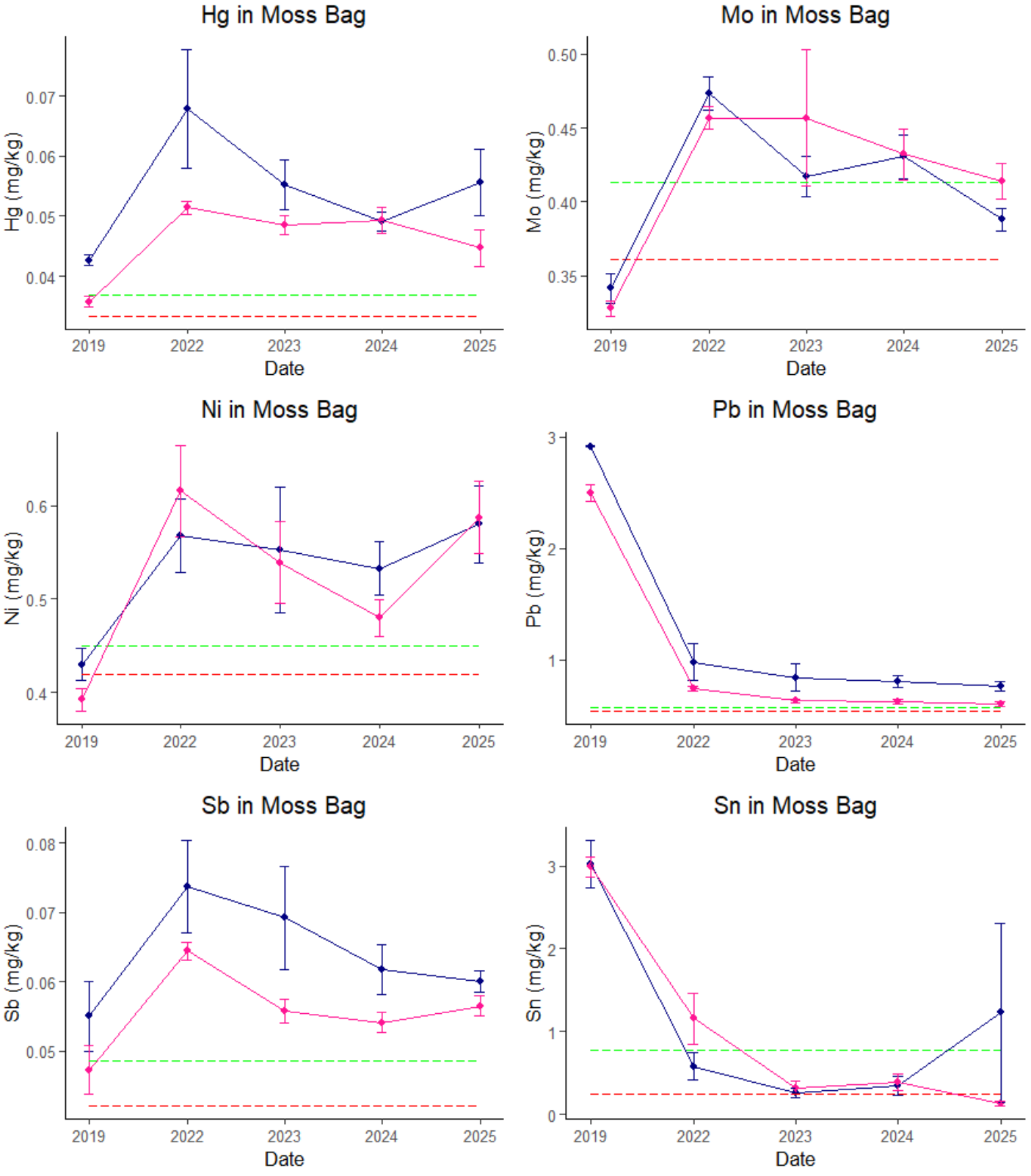
SUEZ – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Mean Metal Concentration Moss Bags

Date:	Project:	Technical:	Reviewer:	Drawn:
Jan. 22, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure I.1



MONTROSE ENVIRONMENTAL

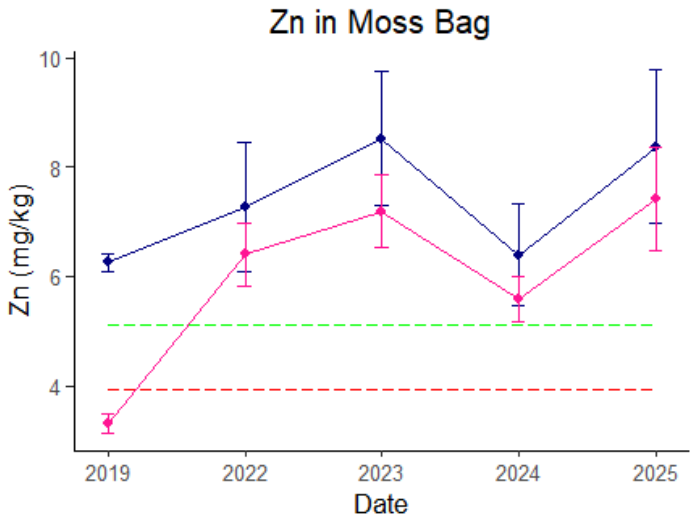
SUEZ – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Mean Metal Concentration Moss Bags

Date:	Project:	Technical:	Reviewer:	Drawn:
Jan. 22, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure I.2



Zone 1 Mean ± SE

Zone 2 Mean ± SE

25th Percentile Historical Concentration Unexposed Moss

75th Percentile Historical Concentration Unexposed Moss

MONTROSE ENVIRONMENTAL

SUEZ – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Mean Metal Concentration Moss Bags

Date:	Project:	Technical:	Reviewer:	Drawn:
Jan. 22, 2026	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure **I.3**

APPENDIX J
Data Quality Evaluation Procedure

APPENDIX J

DATA QUALITY EVALUATION PROCEDURE

1 INTRODUCTION

The analytical data received from laboratories is used to monitor soil, sediment, and water quality. This data is critical for decision-making and recommendations for Montrose Environmental Solutions Inc. (Montrose) projects. To verify that data obtained is of appropriate quality, the Environmental Data Services (EDS) group performs a number of quality assurance/quality control (QA/QC) verifications. A description of these measures and subsequent criteria for evaluation are detailed in this document.

2 QUALITY CONTROL MEASURES

The QA/QC verification includes submission of blind samples, field and trip blanks; duplicate samples; historical comparisons, and a review of the laboratory's QA report that is included with the results. Details outlining the purpose and specific evaluation tools associated with the EDS data quality verification process are outlined below.

2.1 Blind Samples

Samples collected by Montrose are assigned a unique sample number and are submitted to the laboratory as a blind sample using this number for identification. This ensures that the sample location cannot be identified by the laboratory and results cannot be biased. The sample number follows Montrose's sample naming protocol of SITE#YYMMDDXXX, where SITE# is a five-digit project code, YYMMDD is the sampling date, and XXX is a three-digit number indicating the sample number for that date. Example: 01234141006001 is the first sample collected for Project 1234 on October 6, 2014. All samples, including QC samples, are given these blind sample numbers.

2.2 Duplicate Samples

Results obtained from duplicate sample analysis are used to monitor the reproducibility (precision) and the expected variability of the sampling method and laboratory analysis. Two samples are collected from the same field location using the same equipment at the same time. The duplicate samples are submitted as blind samples to the laboratory and are typically not given sequential unique sample numbers.

2.3 Field Blanks

Results obtained from the analysis of field blanks are used to measure incidental or accidental sample contamination (i.e., artifacts or analytes detected by analysis but not present in the samples).

2.4 Trip Blanks

Results obtained from the analysis of trip blanks are used to determine whether or not cross-contamination of volatile organic compounds (or other contaminants) has been introduced to the actual samples during sample transportation.

3 EVALUATION CRITERIA FOR QUALITY CONTROL MEASURES

The Montrose EDS group provides the initial review of all analytical data that is received from the laboratory. Results of the QC review are summarized electronically on the *Data Quality Checklist* that is saved along with the report of laboratory results. Evaluation criteria for the QC measures are provided in the following subsections.

3.1 Evaluation of Duplicate Sample Results

The criteria for evaluation of the field duplicate samples take into account the detection limit (DL), the reliable detection limit (RDL; 5 times the DL), the absolute difference between the duplicate values, and/or the relative percent difference (RPD) calculated for each set of duplicate parameter analyses (U.S. EPA 1993, 1992; Zeiner 1994). As well, the criteria take into consideration the matrix of the sample and the concentration of the specific parameter (Zeiner 1994). Three data scenarios require different methods of evaluation.

For each set of duplicate parameter results:

Scenario 1 - if both results are < DL

- The duplicate samples cannot be assessed using absolute difference or RPD; however, the duplicate samples show acceptable precision (both duplicate samples displayed no results above the DL).

Scenario 2 - if one result is non-detected (< DL) and the other result is positive (> DL)

- The duplicates show acceptable precision if the positive result is ≤ 2 × RDL.

Scenario 3 - if both results are > DL

- If both results are < RDL, then the duplicates show acceptable precision.
- If one result is < RDL and the other result is > RDL, then the duplicates show acceptable precision if the absolute difference between results is ≤ 2 × RDL.
- If both results are > RDL, then reproducibility is acceptable if the RPD is:

  a) ≤ 30% for inorganic waters
  b) ≤ 40% for solids and organics

The results of the field duplicate sample analyses are indicated on the *Data Quality Checklist* and the results of the duplicate analyses are summarized on a project-specific QC sample results table.

The RPD is calculated as follows (APHA 1998):

$$RPD = \frac{Absolute\ difference\ \ between\ the\ two\ duplicate\ results}{Mean\ of\ \ the\ two\ duplicate\ results} \times 100$$

3.2 Evaluation of Blank Sample Results

Upon receipt of the results, the EDS group checks the concentrations of the analytes of interest in field and trip blanks to ensure that no parameters are measured at > 2 × DL. Results of the data review are indicated on the *Data Quality Checklist* and summarized on a project-specific QC sample results table.

3.3 Evaluation of Laboratory Quality Control

The approved environmental laboratories used by Montrose have put QC measures in place to ensure that the data released is as accurate and precise as possible. These measures include the use of laboratory blank samples, duplicate samples, spiked samples, and measuring surrogate recoveries.

Upon receipt of the analytical report, the EDS group checks to ensure that the data has passed the laboratory's QC measures for blanks, duplicates, spikes, and surrogate recoveries. If a discrepancy is found, the laboratory is contacted and asked to explain the discrepancy and, if necessary, a recheck of the result is requested, or all of the samples are reanalyzed for the parameter of concern. The EDS group also reviews holding time, extraction time, detection limits, and ion balances. Results of this evaluation are indicated on the *Data Quality Checklist* for each batch of samples analyzed.

3.3.1 Holding Time

Holding time is the maximum amount of time that a sample can be stored before analysis. The date that a sample was analyzed or extracted is noted on the report from the laboratory; the EDS group checks to ensure that samples were analyzed or extracted within the holding time appropriate for that parameter. Data review results are indicated on the *Data Quality Checklist* for each batch of samples analyzed.

3.3.1 Extraction Time

Extraction time is the maximum amount of time that a sample can be stored before extraction, measured from the sample collection date. Extraction time for:

- organics in water is 14 days
- volatile organics in soil is 7 days
- semi-volatile organics in soil is 14 days

3.3.2 Detection Limits

The EDS group checks to ensure that the DLs reported by the laboratory are adequate to meet the applicable assessment guidelines defined for the project. DLs for a parameter should not be greater than the applicable guideline value for that parameter. If any DLs are found to be higher than the applicable guideline, a second analysis may be requested at the discretion of the project manager.

3.4 Historical Comparison of Data

The EDS group compares laboratory results from a sample point to historical parameter levels, wherever possible. Significant changes from historical levels are identified and verification of the data obtained from the laboratory (rechecks) may be requested.

4 REFERENCES

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