# Bottom Ash Data

## 2025 Week 52

The following analytical report represents bottom ash composite results for week 52 of 2025 (December 21, 2025 to December 27, 2025).

The bottom ash meets the conditions of Metro Vancouver's 2020 Bottom Ash Management Plan and is suitable for disposal.

# CERTIFICATE OF ANALYSIS

| | | | | | |
|---|---|---|---|---|---|
| **Work Order** | : | **VA25D4356** | | | |
| **Amendment** | : | **1** | | | |
| Client | : | **Veolia Environmental Services Canada** | Laboratory | : | ALS Environmental - Vancouver |
| Contact | : | Brian Graham | Account Manager | : | Gulraj Dhanaua |
| Address | : | 5150 Riverbend Dr.<br>Burnaby British Columbia Canada V3N 4V3 | Address | : | 8081 Lougheed Highway<br>Burnaby BC Canada V5A 1W9 |
| Telephone | : | ---- | E-mail | : | Gulraj.Dhanaua@alsglobal.com |
| Project | : | Veolia Weekly Bottom Ash-Suite | Telephone | : | +1 604 253 4188 |
| PO | : | 1000497676 | Date Samples Received | : | 31-Dec-2025 10:10 |
| C-O-C number | : | ---- | Date Analysis Commenced | : | 03-Jan-2026 |
| Sampler | : | ---- | Issue Date | : | 30-Jan-2026 11:03 |
| Site | : | Metro Van Ash Sampling Program | | | |
| Quote number | : | VA25-VISI100-001 | | | |
| No. of samples received | : | 12 | | | |
| No. of samples analysed | : | 12 | | | |

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

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

## *Signatories*

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

| *Signatories* | *Position* | *Laboratory Department* |
|---|---|---|
| Dan Gebert | Supervisor - Metals Mercury & Speciation | Metals, Burnaby, British Columbia |
| Ophelia Chiu | Department Manager - Organics | Organics, Burnaby, British Columbia |

## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

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

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

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

| *Unit* | *Description* |
|---|---|
| % | percent |
| mg/kg | milligrams per kilogram |
| mg/L | milligrams per litre |
| pH units | pH units |

<: 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 (30/01/2026): This report has been amended to alter the site details, project reference code or order number. All analysis results are as per the previous report.

## Analytical Results

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

| Analyte | CAS Number | Method/Lab | LOR | Unit | Client sample ID | BA 2552-A-1 ---- | BA 2552-A-2 ---- | BA 2552-A-3 ---- | BA 2552-A-4 ---- | BA 2552-A-5 ---- |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Client sampling date / time | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 |
| | | | | | | VA25D4356-001 | VA25D4356-002 | VA25D4356-003 | VA25D4356-004 | VA25D4356-005 |
| | | | | | | Result | Result | Result | Result | Result |
| **Physical Tests** | | | | | | | | | | |
| **Moisture** | ---- | E144/VA | 0.25 | % | | 29.8 | 30.6 | 28.2 | 28.7 | 29.5 |
| **pH (1:2 soil:water)** | ---- | E108/VA | 0.10 | pH units | | 10.41 | 10.69 | 10.41 | 10.38 | 10.51 |
| **Metals** | | | | | | | | | | |
| **Aluminum** | 7429-90-5 | E440/VA | 50 | mg/kg | | 35900 | 43200 | 33400 | 57500 | 42100 |
| **Antimony** | 7440-36-0 | E440/VA | 0.10 | mg/kg | | 114 | 144 | 91.3 | 74.8 | 86.4 |
| **Arsenic** | 7440-38-2 | E440/VA | 0.10 | mg/kg | | 12.3 | 9.98 | 13.9 | 10.4 | 10.3 |
| **Barium** | 7440-39-3 | E440/VA | 0.50 | mg/kg | | 695 | 632 | 606 | 676 | 741 |
| **Beryllium** | 7440-41-7 | E440/VA | 0.10 | mg/kg | | 0.43 | 0.48 | 0.42 | 0.47 | 0.55 |
| **Bismuth** | 7440-69-9 | E440/VA | 0.20 | mg/kg | | 7.48 | 8.44 | 7.69 | 7.78 | 5.49 |
| **Boron** | 7440-42-8 | E440/VA | 5.0 | mg/kg | | 151 | 178 | 217 | 149 | 153 |
| **Cadmium** | 7440-43-9 | E440/VA | 0.020 | mg/kg | | 5.91 | 5.57 | 6.90 | 6.33 | 5.11 |
| **Calcium** | 7440-70-2 | E440/VA | 50 | mg/kg | | 125000 | 128000 | 141000 | 120000 | 133000 |
| **Chromium** | 7440-47-3 | E440/VA | 0.50 | mg/kg | | 326 | 245 | 189 | 141 | 235 |
| **Cobalt** | 7440-48-4 | E440/VA | 0.10 | mg/kg | | 143 | 142 | 81.6 | 185 | 186 |
| **Copper** | 7440-50-8 | E440/VA | 0.50 | mg/kg | | 29800 | 3030 | 2630 | 3440 | 3390 |
| **Iron** | 7439-89-6 | E440/VA | 50 | mg/kg | | 79300 | 73400 | 75300 | 60500 | 58700 |
| **Lead** | 7439-92-1 | E440/VA | 0.50 | mg/kg | | 242 | 5530 | 335 | 197 | 211 |
| **Lithium** | 7439-93-2 | E440/VA | 2.0 | mg/kg | | 34.9 | 54.6 | 36.5 | 66.1 | 53.4 |
| **Magnesium** | 7439-95-4 | E440/VA | 20 | mg/kg | | 11400 | 12800 | 12700 | 11700 | 12300 |
| **Manganese** | 7439-96-5 | E440/VA | 1.0 | mg/kg | | 1070 | 1420 | 954 | 1180 | 1230 |
| **Mercury** | 7439-97-6 | E510/VA | 0.0500 | mg/kg | | <0.0500 | 0.168 | <0.0500 | <0.0500 | <0.0500 |

## Analytical Results

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

| Analyte | CAS Number | Method/Lab | LOR | Unit | Client sample ID | BA 2552-A-1 ---- | BA 2552-A-2 ---- | BA 2552-A-3 ---- | BA 2552-A-4 ---- | BA 2552-A-5 ---- |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Client sampling date / time | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 |
| | | | | | | VA25D4356-001 | VA25D4356-002 | VA25D4356-003 | VA25D4356-004 | VA25D4356-005 |
| | | | | | | Result | Result | Result | Result | Result |
| **Metals** | | | | | | | | | | |
| **Molybdenum** | 7439-98-7 | E440/VA | 0.10 | mg/kg | | 64.9 | 65.8 | 97.1 | 51.4 | 45.7 |
| **Nickel** | 7440-02-0 | E440/VA | 0.50 | mg/kg | | 288 | 535 | 367 | 800 | 471 |
| **Phosphorus** | 7723-14-0 | E440/VA | 50 | mg/kg | | 9300 | 9020 | 10800 | 9180 | 15100 |
| **Potassium** | 7440-09-7 | E440/VA | 100 | mg/kg | | 5750 | 5780 | 6490 | 5480 | 5820 |
| **Selenium** | 7782-49-2 | E440/VA | 0.20 | mg/kg | | 0.33 | 0.25 | 0.37 | 0.29 | 0.30 |
| **Silver** | 7440-22-4 | E440/VA | 0.10 | mg/kg | | 7.08 | 8.67 | 4.11 | 3.61 | 4.50 |
| **Sodium** | 7440-23-5 | E440/VA | 50 | mg/kg | | 17300 | 17000 | 18300 | 16200 | 17800 |
| **Strontium** | 7440-24-6 | E440/VA | 0.50 | mg/kg | | 398 | 349 | 356 | 310 | 598 |
| **Sulfur** | 7704-34-9 | E440/VA | 1000 | mg/kg | | 9500 | 10000 | 11200 | 9300 | 8200 |
| **Thallium** | 7440-28-0 | E440/VA | 0.050 | mg/kg | | 0.070 | 0.156 | <0.050 | <0.050 | <0.050 |
| **Tin** | 7440-31-5 | E440/VA | 2.0 | mg/kg | | 309 | 1780 | 208 | 257 | 243 |
| **Titanium** | 7440-32-6 | E440/VA | 1.0 | mg/kg | | 311 | 303 | 267 | 599 | 318 |
| **Tungsten** | 7440-33-7 | E440/VA | 0.50 | mg/kg | | 10.1 | 14.9 | 9.63 | 10.7 | 12.1 |
| **Uranium** | 7440-61-1 | E440/VA | 0.050 | mg/kg | | 1.56 | 1.84 | 1.62 | 1.66 | 1.47 |
| **Vanadium** | 7440-62-2 | E440/VA | 0.20 | mg/kg | | 44.7 | 71.6 | 40.5 | 62.1 | 48.6 |
| **Zinc** | 7440-66-6 | E440/VA | 2.0 | mg/kg | | 4490 | 12800 | 4420 | 2210 | 7450 |
| **Zirconium** | 7440-67-7 | E440/VA | 1.0 | mg/kg | | 2.8 | 3.6 | 2.7 | 3.7 | 3.7 |
| **TCLP Metals** | | | | | | | | | | |
| **pH, TCLP 1st preliminary** | ---- | EPP444/VA | 0.010 | pH units | | 11.80 | 11.76 | 11.67 | 11.71 | 11.75 |
| **pH, TCLP 2nd preliminary** | ---- | EPP444/VA | 0.010 | pH units | | 8.71 | 8.98 | 8.61 | 8.63 | 8.58 |
| **pH, TCLP extraction fluid initial** | ---- | EPP444/VA | 0.010 | pH units | | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 |

## Analytical Results

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

| Analyte | CAS Number | Method/Lab | LOR | Unit | Client sample ID | BA 2552-A-1 ---- | BA 2552-A-2 ---- | BA 2552-A-3 ---- | BA 2552-A-4 ---- | BA 2552-A-5 ---- |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Client sampling date / time | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 |
| | | | | | | VA25D4356-001 | VA25D4356-002 | VA25D4356-003 | VA25D4356-004 | VA25D4356-005 |
| | | | | | | Result | Result | Result | Result | Result |
| **TCLP Metals** | | | | | | | | | | |
| **pH, TCLP final** | ---- | EPP444/VA | 0.010 | pH units | | 6.53 | 6.73 | 6.61 | 6.45 | 6.60 |
| **Antimony, TCLP** | 7440-36-0 | E444/VA | 1.00 | mg/L | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 |
| **Arsenic, TCLP** | 7440-38-2 | E444/VA | 1.0 | mg/L | | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| **Barium, TCLP** | 7440-39-3 | E444/VA | 2.5 | mg/L | | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| **Beryllium, TCLP** | 7440-41-7 | E444/VA | 0.025 | mg/L | | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| **Boron, TCLP** | 7440-42-8 | E444/VA | 0.50 | mg/L | | 1.70 | 1.72 | 1.65 | 1.63 | 1.74 |
| **Cadmium, TCLP** | 7440-43-9 | E444/VA | 0.050 | mg/L | | 0.064 | 0.059 | 0.089 | 0.075 | 0.092 |
| **Calcium, TCLP** | 7440-70-2 | E444/VA | 10 | mg/L | | 1910 | 1880 | 1810 | 1760 | 1820 |
| **Chromium, TCLP** | 7440-47-3 | E444/VA | 0.25 | mg/L | | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 |
| **Cobalt, TCLP** | 7440-48-4 | E444/VA | 0.050 | mg/L | | 1.43 | 0.792 | 0.630 | 1.70 | 1.13 |
| **Copper, TCLP** | 7440-50-8 | E444/VA | 0.050 | mg/L | | 1.22 | 1.11 | 1.01 | 1.32 | 1.21 |
| **Iron, TCLP** | 7439-89-6 | E444/VA | 5.0 | mg/L | | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| **Lead, TCLP** | 7439-92-1 | E444/VA | 0.25 | mg/L | | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 |
| **Magnesium, TCLP** | 7439-95-4 | E444/VA | 2.5 | mg/L | | 130 | 122 | 128 | 123 | 131 |
| **Mercury, TCLP** | 7439-97-6 | E512/VA | 0.0010 | mg/L | | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| **Nickel, TCLP** | 7440-02-0 | E444/VA | 0.25 | mg/L | | 0.40 | 0.32 | 0.48 | 0.43 | 0.38 |
| **Selenium, TCLP** | 7782-49-2 | E444/VA | 0.10 | mg/L | | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| **Silver, TCLP** | 7440-22-4 | E444/VA | 0.050 | mg/L | | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| **Thallium, TCLP** | 7440-28-0 | E444/VA | 1.0 | mg/L | | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| **Uranium, TCLP** | 7440-61-1 | E444/VA | 0.20 | mg/L | | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| **Vanadium, TCLP** | 7440-62-2 | E444/VA | 0.15 | mg/L | | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 |

## Analytical Results

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

| | | | | | Client sample ID | BA 2552-A-1 ---- | BA 2552-A-2 ---- | BA 2552-A-3 ---- | BA 2552-A-4 ---- | BA 2552-A-5 ---- |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Client sampling date / time | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 |
| Analyte | CAS Number | Method/Lab | LOR | Unit | | VA25D4356-001 | VA25D4356-002 | VA25D4356-003 | VA25D4356-004 | VA25D4356-005 |
| | | | | | | Result | Result | Result | Result | Result |
| **TCLP Metals** | | | | | | | | | | |
| **Zinc, TCLP** | 7440-66-6 | E444/VA | 0.50 | mg/L | | 24.1 | 10.8 | 17.6 | 39.1 | 22.2 |
| **Zirconium, TCLP** | 7440-67-7 | E444/VA | 10 | mg/L | | <10 | <10 | <10 | <10 | <10 |

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

## Analytical Results

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

| | | | | | Client sample ID | BA 2552-A-6 ---- | BA 2552-A-7 ---- | BA 2552-A-8 ---- | BA 2552-A-9 ---- | BA 2552-A-10 ---- |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Client sampling date / time | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 |
| Analyte | CAS Number | Method/Lab | LOR | Unit | | VA25D4356-006 | VA25D4356-007 | VA25D4356-008 | VA25D4356-009 | VA25D4356-010 |
| | | | | | | Result | Result | Result | Result | Result |
| **Physical Tests** | | | | | | | | | | |
| **Moisture** | ---- | E144/VA | 0.25 | % | | 28.5 | 28.8 | 28.7 | 28.3 | 26.8 |
| **pH (1:2 soil:water)** | ---- | E108/VA | 0.10 | pH units | | 10.46 | 10.65 | 10.64 | 10.27 | 10.35 |
| **Metals** | | | | | | | | | | |
| **Aluminum** | 7429-90-5 | E440/VA | 50 | mg/kg | | 36500 | 43800 | 51100 | 41700 | 39700 |
| **Antimony** | 7440-36-0 | E440/VA | 0.10 | mg/kg | | 95.5 | 80.3 | 111 | 97.4 | 86.2 |
| **Arsenic** | 7440-38-2 | E440/VA | 0.10 | mg/kg | | 12.0 | 12.6 | 11.8 | 13.0 | 11.4 |
| **Barium** | 7440-39-3 | E440/VA | 0.50 | mg/kg | | 476 | 662 | 654 | 640 | 674 |
| **Beryllium** | 7440-41-7 | E440/VA | 0.10 | mg/kg | | 0.44 | 0.39 | 0.43 | 0.45 | 0.43 |
| **Bismuth** | 7440-69-9 | E440/VA | 0.20 | mg/kg | | 6.80 | 11.6 | 7.02 | 5.73 | 7.63 |
| **Boron** | 7440-42-8 | E440/VA | 5.0 | mg/kg | | 146 | 205 | 180 | 165 | 141 |
| **Cadmium** | 7440-43-9 | E440/VA | 0.020 | mg/kg | | 5.43 | 4.48 | 4.98 | 4.62 | 5.43 |
| **Calcium** | 7440-70-2 | E440/VA | 50 | mg/kg | | 136000 | 129000 | 135000 | 143000 | 146000 |

## Analytical Results

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

| Analyte | CAS Number | Method/Lab | LOR | Unit | Client sample ID | BA 2552-A-6 ---- | BA 2552-A-7 ---- | BA 2552-A-8 ---- | BA 2552-A-9 ---- | BA 2552-A-10 ---- |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Client sampling date / time | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 |
| | | | | | | VA25D4356-006 | VA25D4356-007 | VA25D4356-008 | VA25D4356-009 | VA25D4356-010 |
| | | | | | | Result | Result | Result | Result | Result |
| **Metals** | | | | | | | | | | |
| **Chromium** | 7440-47-3 | E440/VA | 0.50 | mg/kg | | 1930 | 349 | 149 | 161 | 261 |
| **Cobalt** | 7440-48-4 | E440/VA | 0.10 | mg/kg | | 124 | 572 | 141 | 45.9 | 249 |
| **Copper** | 7440-50-8 | E440/VA | 0.50 | mg/kg | | 5080 | 24300 | 10200 | 1730 | 6090 |
| **Iron** | 7439-89-6 | E440/VA | 50 | mg/kg | | 72800 | 70900 | 52300 | 60600 | 67000 |
| **Lead** | 7439-92-1 | E440/VA | 0.50 | mg/kg | | 340 | 863 | 227 | 207 | 395 |
| **Lithium** | 7439-93-2 | E440/VA | 2.0 | mg/kg | | 33.7 | 35.2 | 42.3 | 32.4 | 47.5 |
| **Magnesium** | 7439-95-4 | E440/VA | 20 | mg/kg | | 12200 | 12500 | 12600 | 12600 | 13100 |
| **Manganese** | 7439-96-5 | E440/VA | 1.0 | mg/kg | | 1310 | 1370 | 1120 | 841 | 1410 |
| **Mercury** | 7439-97-6 | E510/VA | 0.0500 | mg/kg | | <0.0500 | <0.0500 | <0.0500 | <0.0500 | <0.0500 |
| **Molybdenum** | 7439-98-7 | E440/VA | 0.10 | mg/kg | | 207 | 54.4 | 49.2 | 89.0 | 75.3 |
| **Nickel** | 7440-02-0 | E440/VA | 0.50 | mg/kg | | 1060 | 286 | 220 | 191 | 536 |
| **Phosphorus** | 7723-14-0 | E440/VA | 50 | mg/kg | | 10500 | 8950 | 12100 | 12200 | 10700 |
| **Potassium** | 7440-09-7 | E440/VA | 100 | mg/kg | | 5580 | 5110 | 6140 | 6600 | 6050 |
| **Selenium** | 7782-49-2 | E440/VA | 0.20 | mg/kg | | 0.35 | 0.24 | 0.34 | 0.27 | 0.28 |
| **Silver** | 7440-22-4 | E440/VA | 0.10 | mg/kg | | 8.32 | >152 | 20.9 | 3.06 | 6.99 |
| **Sodium** | 7440-23-5 | E440/VA | 50 | mg/kg | | 16400 | 16100 | 18500 | 19200 | 17000 |
| **Strontium** | 7440-24-6 | E440/VA | 0.50 | mg/kg | | 356 | 318 | 386 | 351 | 742 |
| **Sulfur** | 7704-34-9 | E440/VA | 1000 | mg/kg | | 10100 | 8600 | 9700 | 9800 | 10900 |
| **Thallium** | 7440-28-0 | E440/VA | 0.050 | mg/kg | | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| **Tin** | 7440-31-5 | E440/VA | 2.0 | mg/kg | | 149 | 293 | 118 | 90.1 | 181 |
| **Titanium** | 7440-32-6 | E440/VA | 1.0 | mg/kg | | 360 | 398 | 346 | 302 | 273 |

## Analytical Results

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

| Analyte | CAS Number | Method/Lab | LOR | Unit | Client sample ID | BA 2552-A-6 ---- | BA 2552-A-7 ---- | BA 2552-A-8 ---- | BA 2552-A-9 ---- | BA 2552-A-10 ---- |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Client sampling date / time | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 |
| | | | | | | VA25D4356-006 | VA25D4356-007 | VA25D4356-008 | VA25D4356-009 | VA25D4356-010 |
| | | | | | | Result | Result | Result | Result | Result |
| **Metals** | | | | | | | | | | |
| **Tungsten** | 7440-33-7 | E440/VA | 0.50 | mg/kg | | 10.1 | 10.3 | 10.1 | 9.15 | 12.0 |
| **Uranium** | 7440-61-1 | E440/VA | 0.050 | mg/kg | | 1.52 | 1.32 | 1.54 | 1.54 | 1.45 |
| **Vanadium** | 7440-62-2 | E440/VA | 0.20 | mg/kg | | 51.4 | 53.1 | 39.8 | 42.8 | 65.2 |
| **Zinc** | 7440-66-6 | E440/VA | 2.0 | mg/kg | | 3830 | 2440 | 4610 | 2780 | 3860 |
| **Zirconium** | 7440-67-7 | E440/VA | 1.0 | mg/kg | | 3.2 | 3.2 | 3.9 | 2.9 | 1.9 |
| **TCLP Metals** | | | | | | | | | | |
| **pH, TCLP 1st preliminary** | ---- | EPP444/VA | 0.010 | pH units | | 11.73 | 11.74 | 11.71 | 11.59 | 11.67 |
| **pH, TCLP 2nd preliminary** | ---- | EPP444/VA | 0.010 | pH units | | 8.65 | 8.51 | 8.38 | 8.45 | 7.17 |
| **pH, TCLP extraction fluid initial** | ---- | EPP444/VA | 0.010 | pH units | | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 |
| **pH, TCLP final** | ---- | EPP444/VA | 0.010 | pH units | | 6.44 | 6.59 | 6.53 | 6.65 | 6.53 |
| **Antimony, TCLP** | 7440-36-0 | E444/VA | 1.00 | mg/L | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 |
| **Arsenic, TCLP** | 7440-38-2 | E444/VA | 1.0 | mg/L | | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| **Barium, TCLP** | 7440-39-3 | E444/VA | 2.5 | mg/L | | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| **Beryllium, TCLP** | 7440-41-7 | E444/VA | 0.025 | mg/L | | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| **Boron, TCLP** | 7440-42-8 | E444/VA | 0.50 | mg/L | | 1.73 | 1.75 | 1.73 | 1.73 | 1.79 |
| **Cadmium, TCLP** | 7440-43-9 | E444/VA | 0.050 | mg/L | | 0.098 | 0.087 | 1.28 | 0.065 | 0.068 |
| **Calcium, TCLP** | 7440-70-2 | E444/VA | 10 | mg/L | | 1830 | 1840 | 1860 | 1890 | 1820 |
| **Chromium, TCLP** | 7440-47-3 | E444/VA | 0.25 | mg/L | | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 |
| **Cobalt, TCLP** | 7440-48-4 | E444/VA | 0.050 | mg/L | | 1.48 | 1.14 | 6.90 | 1.14 | 1.08 |
| **Copper, TCLP** | 7440-50-8 | E444/VA | 0.050 | mg/L | | 1.39 | 1.19 | 1.25 | 0.953 | 1.48 |
| **Iron, TCLP** | 7439-89-6 | E444/VA | 5.0 | mg/L | | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |

## Analytical Results

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

| Analyte | CAS Number | Method/Lab | LOR | Unit | Client sample ID | BA 2552-A-6 ---- | BA 2552-A-7 ---- | BA 2552-A-8 ---- | BA 2552-A-9 ---- | BA 2552-A-10 ---- |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Client sampling date / time | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 |
| | | | | | | VA25D4356-006 | VA25D4356-007 | VA25D4356-008 | VA25D4356-009 | VA25D4356-010 |
| | | | | | | Result | Result | Result | Result | Result |
| **TCLP Metals** | | | | | | | | | | |
| **Lead, TCLP** | 7439-92-1 | E444/VA | 0.25 | mg/L | | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 |
| **Magnesium, TCLP** | 7439-95-4 | E444/VA | 2.5 | mg/L | | 125 | 128 | 127 | 125 | 127 |
| **Mercury, TCLP** | 7439-97-6 | E512/VA | 0.0010 | mg/L | | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| **Nickel, TCLP** | 7440-02-0 | E444/VA | 0.25 | mg/L | | 0.41 | 0.34 | 0.37 | 0.35 | 0.32 |
| **Selenium, TCLP** | 7782-49-2 | E444/VA | 0.10 | mg/L | | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| **Silver, TCLP** | 7440-22-4 | E444/VA | 0.050 | mg/L | | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| **Thallium, TCLP** | 7440-28-0 | E444/VA | 1.0 | mg/L | | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| **Uranium, TCLP** | 7440-61-1 | E444/VA | 0.20 | mg/L | | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| **Vanadium, TCLP** | 7440-62-2 | E444/VA | 0.15 | mg/L | | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 |
| **Zinc, TCLP** | 7440-66-6 | E444/VA | 0.50 | mg/L | | 27.1 | 20.7 | 25.5 | 16.2 | 24.4 |
| **Zirconium, TCLP** | 7440-67-7 | E444/VA | 10 | mg/L | | <10 | <10 | <10 | <10 | <10 |

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

## Analytical Results

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

| Analyte | CAS Number | Method/Lab | LOR | Unit | Client sample ID | BA 2552-A-11 ---- | BA 2552-A-12 ---- | ---- | ---- | ---- |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Client sampling date / time | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 | ---- | ---- | ---- |
| | | | | | | VA25D4356-011 | VA25D4356-012 | ---- | ---- | ---- |
| | | | | | | Result | Result | ---- | ---- | ---- |
| **Physical Tests** | | | | | | | | | | |
| **Moisture** | ---- | E144/VA | 0.25 | % | | 28.7 | 29.3 | ---- | ---- | ---- |
| **pH (1:2 soil:water)** | ---- | E108/VA | 0.10 | pH units | | 10.28 | 10.37 | ---- | ---- | ---- |

## Analytical Results

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

| Analyte | CAS Number | Method/Lab | LOR | Unit | Client sample ID | BA 2552-A-11 ---- | BA 2552-A-12 ---- | ---- | ---- | ---- |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Client sampling date / time | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 | ---- | ---- | ---- |
| | | | | | | VA25D4356-011 | VA25D4356-012 | ---- | ---- | ---- |
| | | | | | | Result | Result | ---- | ---- | ---- |
| **Metals** | | | | | | | | | | |
| **Aluminum** | 7429-90-5 | E440/VA | 50 | mg/kg | | 56000 | 60900 | ---- | ---- | ---- |
| **Antimony** | 7440-36-0 | E440/VA | 0.10 | mg/kg | | 87.9 | 95.3 | ---- | ---- | ---- |
| **Arsenic** | 7440-38-2 | E440/VA | 0.10 | mg/kg | | 11.3 | 10.1 | ---- | ---- | ---- |
| **Barium** | 7440-39-3 | E440/VA | 0.50 | mg/kg | | 670 | 673 | ---- | ---- | ---- |
| **Beryllium** | 7440-41-7 | E440/VA | 0.10 | mg/kg | | 0.51 | 0.87 | ---- | ---- | ---- |
| **Bismuth** | 7440-69-9 | E440/VA | 0.20 | mg/kg | | 5.25 | 7.06 | ---- | ---- | ---- |
| **Boron** | 7440-42-8 | E440/VA | 5.0 | mg/kg | | 156 | 140 | ---- | ---- | ---- |
| **Cadmium** | 7440-43-9 | E440/VA | 0.020 | mg/kg | | 4.84 | 5.61 | ---- | ---- | ---- |
| **Calcium** | 7440-70-2 | E440/VA | 50 | mg/kg | | 138000 | 138000 | ---- | ---- | ---- |
| **Chromium** | 7440-47-3 | E440/VA | 0.50 | mg/kg | | 144 | 163 | ---- | ---- | ---- |
| **Cobalt** | 7440-48-4 | E440/VA | 0.10 | mg/kg | | 310 | 430 | ---- | ---- | ---- |
| **Copper** | 7440-50-8 | E440/VA | 0.50 | mg/kg | | 6070 | 1370 | ---- | ---- | ---- |
| **Iron** | 7439-89-6 | E440/VA | 50 | mg/kg | | 50000 | 40900 | ---- | ---- | ---- |
| **Lead** | 7439-92-1 | E440/VA | 0.50 | mg/kg | | 174 | 273 | ---- | ---- | ---- |
| **Lithium** | 7439-93-2 | E440/VA | 2.0 | mg/kg | | 44.1 | 56.1 | ---- | ---- | ---- |
| **Magnesium** | 7439-95-4 | E440/VA | 20 | mg/kg | | 12000 | 13500 | ---- | ---- | ---- |
| **Manganese** | 7439-96-5 | E440/VA | 1.0 | mg/kg | | 889 | 993 | ---- | ---- | ---- |
| **Mercury** | 7439-97-6 | E510/VA | 0.0500 | mg/kg | | <0.0500 | <0.0500 | ---- | ---- | ---- |
| **Molybdenum** | 7439-98-7 | E440/VA | 0.10 | mg/kg | | 76.0 | 263 | ---- | ---- | ---- |
| **Nickel** | 7440-02-0 | E440/VA | 0.50 | mg/kg | | 359 | 149 | ---- | ---- | ---- |
| **Phosphorus** | 7723-14-0 | E440/VA | 50 | mg/kg | | 9710 | 9920 | ---- | ---- | ---- |

## Analytical Results

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

| Analyte | CAS Number | Method/Lab | LOR | Unit | Client sample ID | BA 2552-A-11 ---- | BA 2552-A-12 ---- | ---- | ---- | ---- |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Client sampling date / time | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 | ---- | ---- | ---- |
| | | | | | | VA25D4356-011 | VA25D4356-012 | ---- | ---- | ---- |
| | | | | | | Result | Result | ---- | ---- | ---- |
| **Metals** | | | | | | | | | | |
| **Potassium** | 7440-09-7 | E440/VA | 100 | mg/kg | | 5930 | 6730 | ---- | ---- | ---- |
| **Selenium** | 7782-49-2 | E440/VA | 0.20 | mg/kg | | 0.29 | 0.27 | ---- | ---- | ---- |
| **Silver** | 7440-22-4 | E440/VA | 0.10 | mg/kg | | 14.3 | 6.87 | ---- | ---- | ---- |
| **Sodium** | 7440-23-5 | E440/VA | 50 | mg/kg | | 17200 | 18400 | ---- | ---- | ---- |
| **Strontium** | 7440-24-6 | E440/VA | 0.50 | mg/kg | | 320 | 362 | ---- | ---- | ---- |
| **Sulfur** | 7704-34-9 | E440/VA | 1000 | mg/kg | | 9500 | 11100 | ---- | ---- | ---- |
| **Thallium** | 7440-28-0 | E440/VA | 0.050 | mg/kg | | <0.050 | <0.050 | ---- | ---- | ---- |
| **Tin** | 7440-31-5 | E440/VA | 2.0 | mg/kg | | 161 | 97.5 | ---- | ---- | ---- |
| **Titanium** | 7440-32-6 | E440/VA | 1.0 | mg/kg | | 600 | 609 | ---- | ---- | ---- |
| **Tungsten** | 7440-33-7 | E440/VA | 0.50 | mg/kg | | 13.6 | 7.51 | ---- | ---- | ---- |
| **Uranium** | 7440-61-1 | E440/VA | 0.050 | mg/kg | | 1.60 | 1.69 | ---- | ---- | ---- |
| **Vanadium** | 7440-62-2 | E440/VA | 0.20 | mg/kg | | 41.2 | 56.8 | ---- | ---- | ---- |
| **Zinc** | 7440-66-6 | E440/VA | 2.0 | mg/kg | | 3340 | 2210 | ---- | ---- | ---- |
| **Zirconium** | 7440-67-7 | E440/VA | 1.0 | mg/kg | | 3.1 | 3.7 | ---- | ---- | ---- |
| **TCLP Metals** | | | | | | | | | | |
| **pH, TCLP 1st preliminary** | ---- | EPP444/VA | 0.010 | pH units | | 11.64 | 11.57 | ---- | ---- | ---- |
| **pH, TCLP 2nd preliminary** | ---- | EPP444/VA | 0.010 | pH units | | 7.21 | 7.78 | ---- | ---- | ---- |
| **pH, TCLP extraction fluid initial** | ---- | EPP444/VA | 0.010 | pH units | | 2.89 | 2.89 | ---- | ---- | ---- |
| **pH, TCLP final** | ---- | EPP444/VA | 0.010 | pH units | | 6.52 | 6.61 | ---- | ---- | ---- |
| **Antimony, TCLP** | 7440-36-0 | E444/VA | 1.00 | mg/L | | <1.00 | <1.00 | ---- | ---- | ---- |
| **Arsenic, TCLP** | 7440-38-2 | E444/VA | 1.0 | mg/L | | <1.0 | <1.0 | ---- | ---- | ---- |

## Analytical Results

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

| Analyte | CAS Number | Method/Lab | LOR | Unit | Client sample ID | BA 2552-A-11 ---- | BA 2552-A-12 ---- | ---- | ---- | ---- |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Client sampling date / time | 29-Dec-2025 12:00 | 29-Dec-2025 12:00 | ---- | ---- | ---- |
| | | | | | | VA25D4356-011 | VA25D4356-012 | ---- | ---- | ---- |
| | | | | | | Result | Result | ---- | ---- | ---- |
| **TCLP Metals** | | | | | | | | | | |
| **Barium, TCLP** | 7440-39-3 | E444/VA | 2.5 | mg/L | | <2.5 | <2.5 | ---- | ---- | ---- |
| **Beryllium, TCLP** | 7440-41-7 | E444/VA | 0.025 | mg/L | | <0.025 | <0.025 | ---- | ---- | ---- |
| **Boron, TCLP** | 7440-42-8 | E444/VA | 0.50 | mg/L | | 1.74 | 1.72 | ---- | ---- | ---- |
| **Cadmium, TCLP** | 7440-43-9 | E444/VA | 0.050 | mg/L | | 0.087 | 0.069 | ---- | ---- | ---- |
| **Calcium, TCLP** | 7440-70-2 | E444/VA | 10 | mg/L | | 1820 | 1790 | ---- | ---- | ---- |
| **Chromium, TCLP** | 7440-47-3 | E444/VA | 0.25 | mg/L | | <0.25 | <0.25 | ---- | ---- | ---- |
| **Cobalt, TCLP** | 7440-48-4 | E444/VA | 0.050 | mg/L | | 1.36 | 0.923 | ---- | ---- | ---- |
| **Copper, TCLP** | 7440-50-8 | E444/VA | 0.050 | mg/L | | 1.13 | 1.01 | ---- | ---- | ---- |
| **Iron, TCLP** | 7439-89-6 | E444/VA | 5.0 | mg/L | | <5.0 | <5.0 | ---- | ---- | ---- |
| **Lead, TCLP** | 7439-92-1 | E444/VA | 0.25 | mg/L | | <0.25 | <0.25 | ---- | ---- | ---- |
| **Magnesium, TCLP** | 7439-95-4 | E444/VA | 2.5 | mg/L | | 123 | 124 | ---- | ---- | ---- |
| **Mercury, TCLP** | 7439-97-6 | E512/VA | 0.0010 | mg/L | | <0.0010 | <0.0010 | ---- | ---- | ---- |
| **Nickel, TCLP** | 7440-02-0 | E444/VA | 0.25 | mg/L | | 0.44 | 0.27 | ---- | ---- | ---- |
| **Selenium, TCLP** | 7782-49-2 | E444/VA | 0.10 | mg/L | | <0.10 | <0.10 | ---- | ---- | ---- |
| **Silver, TCLP** | 7440-22-4 | E444/VA | 0.050 | mg/L | | <0.050 | <0.050 | ---- | ---- | ---- |
| **Thallium, TCLP** | 7440-28-0 | E444/VA | 1.0 | mg/L | | <1.0 | <1.0 | ---- | ---- | ---- |
| **Uranium, TCLP** | 7440-61-1 | E444/VA | 0.20 | mg/L | | <0.20 | <0.20 | ---- | ---- | ---- |
| **Vanadium, TCLP** | 7440-62-2 | E444/VA | 0.15 | mg/L | | <0.15 | <0.15 | ---- | ---- | ---- |
| **Zinc, TCLP** | 7440-66-6 | E444/VA | 0.50 | mg/L | | 22.3 | 12.6 | ---- | ---- | ---- |
| **Zirconium, TCLP** | 7440-67-7 | E444/VA | 10 | mg/L | | <10 | <10 | ---- | ---- | ---- |

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

ALS Canada Ltd.

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# QUALITY CONTROL INTERPRETIVE REPORT

| | | | |
|---|---|---|---|
| **Work Order** | : **VA25D4356** | Page | : 1 of 15 |
| **Amendment** | : 1 | | |
| Client | : **Veolia Environmental Services Canada** | Laboratory | : ALS Environmental - Vancouver |
| Contact | : Brian Graham | Account Manager | : Gulraj Dhanaua |
| Address | : 5150 Riverbend Dr.<br>Burnaby BC Canada V3N 4V3 | Address | : 8081 Lougheed Highway<br>Burnaby, British Columbia Canada V5A 1W9 |
| Telephone | : ---- | Telephone | : +1 604 253 4188 |
| Project | : Veolia Weekly Bottom Ash-Suite | Date Samples Received | : 31-Dec-2025 10:10 |
| PO | : 1000497676 | Issue Date | : 30-Jan-2026 11:03 |
| C-O-C number | : ---- | | |
| Sampler | : ---- | | |
| Site | : Metro Van Ash Sampling Program | | |
| Quote number | : VA25-VISI100-001 | | |
| No. of samples received | : 12 | | |
| No. of samples analysed | : 12 | | |

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

**Key**

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

## *Workorder Comments*

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

## *Summary of Outliers*

### *Outliers : Quality Control Samples*

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

### *Outliers: Reference Material (RM) Samples*

- No Reference Material (RM) Sample outliers occur.

## Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

## Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

## Analysis Holding Time Compliance

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

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

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

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

Matrix: **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 |
| **Metals : Mercury in Soil/Solid by CVAAS** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-1 | E510 | 29-Dec-2025 | 06-Jan-2026 | 28 days | 8 days | ✓ | 06-Jan-2026 | 28 days | 1 days | ✓ |
| **Metals : Mercury in Soil/Solid by CVAAS** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-10 | E510 | 29-Dec-2025 | 06-Jan-2026 | 28 days | 8 days | ✓ | 06-Jan-2026 | 28 days | 1 days | ✓ |
| **Metals : Mercury in Soil/Solid by CVAAS** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-11 | E510 | 29-Dec-2025 | 06-Jan-2026 | 28 days | 8 days | ✓ | 06-Jan-2026 | 28 days | 1 days | ✓ |
| **Metals : Mercury in Soil/Solid by CVAAS** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-12 | E510 | 29-Dec-2025 | 06-Jan-2026 | 28 days | 8 days | ✓ | 06-Jan-2026 | 28 days | 1 days | ✓ |
| **Metals : Mercury in Soil/Solid by CVAAS** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-2 | E510 | 29-Dec-2025 | 06-Jan-2026 | 28 days | 8 days | ✓ | 06-Jan-2026 | 28 days | 1 days | ✓ |
| **Metals : Mercury in Soil/Solid by CVAAS** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-3 | E510 | 29-Dec-2025 | 06-Jan-2026 | 28 days | 8 days | ✓ | 06-Jan-2026 | 28 days | 1 days | ✓ |
| **Metals : Mercury in Soil/Solid by CVAAS** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-4 | E510 | 29-Dec-2025 | 06-Jan-2026 | 28 days | 8 days | ✓ | 06-Jan-2026 | 28 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 |
| **Metals : Mercury in Soil/Solid by CVAAS** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-5 | E510 | 29-Dec-2025 | 06-Jan-2026 | 28 days | 8 days | ✓ | 06-Jan-2026 | 28 days | 1 days | ✓ |
| **Metals : Mercury in Soil/Solid by CVAAS** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-6 | E510 | 29-Dec-2025 | 06-Jan-2026 | 28 days | 8 days | ✓ | 06-Jan-2026 | 28 days | 1 days | ✓ |
| **Metals : Mercury in Soil/Solid by CVAAS** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-7 | E510 | 29-Dec-2025 | 06-Jan-2026 | 28 days | 8 days | ✓ | 06-Jan-2026 | 28 days | 1 days | ✓ |
| **Metals : Mercury in Soil/Solid by CVAAS** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-8 | E510 | 29-Dec-2025 | 06-Jan-2026 | 28 days | 8 days | ✓ | 06-Jan-2026 | 28 days | 1 days | ✓ |
| **Metals : Mercury in Soil/Solid by CVAAS** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-9 | E510 | 29-Dec-2025 | 06-Jan-2026 | 28 days | 8 days | ✓ | 06-Jan-2026 | 28 days | 1 days | ✓ |
| **Metals : Metals in Soil/Solid by CRC ICPMS** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-1 | E440 | 29-Dec-2025 | 06-Jan-2026 | 180 days | 8 days | ✓ | 06-Jan-2026 | 180 days | 8 days | ✓ |
| **Metals : Metals in Soil/Solid by CRC ICPMS** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-10 | E440 | 29-Dec-2025 | 06-Jan-2026 | 180 days | 8 days | ✓ | 06-Jan-2026 | 180 days | 8 days | ✓ |
| **Metals : Metals in Soil/Solid by CRC ICPMS** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-11 | E440 | 29-Dec-2025 | 06-Jan-2026 | 180 days | 8 days | ✓ | 06-Jan-2026 | 180 days | 8 days | ✓ |
| **Metals : Metals in Soil/Solid by CRC ICPMS** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-12 | E440 | 29-Dec-2025 | 06-Jan-2026 | 180 days | 8 days | ✓ | 06-Jan-2026 | 180 days | 8 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 |
| **Metals : Metals in Soil/Solid by CRC ICPMS** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-2 | E440 | 29-Dec-2025 | 06-Jan-2026 | 180 days | 8 days | ✓ | 06-Jan-2026 | 180 days | 8 days | ✓ |
| **Metals : Metals in Soil/Solid by CRC ICPMS** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-3 | E440 | 29-Dec-2025 | 06-Jan-2026 | 180 days | 8 days | ✓ | 06-Jan-2026 | 180 days | 8 days | ✓ |
| **Metals : Metals in Soil/Solid by CRC ICPMS** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-4 | E440 | 29-Dec-2025 | 06-Jan-2026 | 180 days | 8 days | ✓ | 06-Jan-2026 | 180 days | 8 days | ✓ |
| **Metals : Metals in Soil/Solid by CRC ICPMS** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-5 | E440 | 29-Dec-2025 | 06-Jan-2026 | 180 days | 8 days | ✓ | 06-Jan-2026 | 180 days | 8 days | ✓ |
| **Metals : Metals in Soil/Solid by CRC ICPMS** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-6 | E440 | 29-Dec-2025 | 06-Jan-2026 | 180 days | 8 days | ✓ | 06-Jan-2026 | 180 days | 8 days | ✓ |
| **Metals : Metals in Soil/Solid by CRC ICPMS** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-7 | E440 | 29-Dec-2025 | 06-Jan-2026 | 180 days | 8 days | ✓ | 06-Jan-2026 | 180 days | 8 days | ✓ |
| **Metals : Metals in Soil/Solid by CRC ICPMS** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-8 | E440 | 29-Dec-2025 | 06-Jan-2026 | 180 days | 8 days | ✓ | 06-Jan-2026 | 180 days | 8 days | ✓ |
| **Metals : Metals in Soil/Solid by CRC ICPMS** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-9 | E440 | 29-Dec-2025 | 06-Jan-2026 | 180 days | 8 days | ✓ | 06-Jan-2026 | 180 days | 8 days | ✓ |
| **Physical Tests : Moisture Content by Gravimetry** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-1 | E144 | 29-Dec-2025 | ---- | ---- | ---- | | 03-Jan-2026 | ---- | ---- | |

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** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-10 | E144 | 29-Dec-2025 | ---- | ---- | ---- | | 03-Jan-2026 | ---- | ---- | |
| **Physical Tests : Moisture Content by Gravimetry** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-11 | E144 | 29-Dec-2025 | ---- | ---- | ---- | | 03-Jan-2026 | ---- | ---- | |
| **Physical Tests : Moisture Content by Gravimetry** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-12 | E144 | 29-Dec-2025 | ---- | ---- | ---- | | 03-Jan-2026 | ---- | ---- | |
| **Physical Tests : Moisture Content by Gravimetry** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-2 | E144 | 29-Dec-2025 | ---- | ---- | ---- | | 03-Jan-2026 | ---- | ---- | |
| **Physical Tests : Moisture Content by Gravimetry** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-3 | E144 | 29-Dec-2025 | ---- | ---- | ---- | | 03-Jan-2026 | ---- | ---- | |
| **Physical Tests : Moisture Content by Gravimetry** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-4 | E144 | 29-Dec-2025 | ---- | ---- | ---- | | 03-Jan-2026 | ---- | ---- | |
| **Physical Tests : Moisture Content by Gravimetry** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-5 | E144 | 29-Dec-2025 | ---- | ---- | ---- | | 03-Jan-2026 | ---- | ---- | |
| **Physical Tests : Moisture Content by Gravimetry** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-6 | E144 | 29-Dec-2025 | ---- | ---- | ---- | | 03-Jan-2026 | ---- | ---- | |
| **Physical Tests : Moisture Content by Gravimetry** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-7 | E144 | 29-Dec-2025 | ---- | ---- | ---- | | 03-Jan-2026 | ---- | ---- | |

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** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-8 | E144 | 29-Dec-2025 | ---- | ---- | ---- | | 03-Jan-2026 | ---- | ---- | |
| **Physical Tests : Moisture Content by Gravimetry** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-9 | E144 | 29-Dec-2025 | ---- | ---- | ---- | | 03-Jan-2026 | ---- | ---- | |
| **Physical Tests : pH by Meter (1:2 Soil:Water Extraction)** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-1 | E108 | 29-Dec-2025 | 06-Jan-2026 | 30 days | 8 days | ✓ | 06-Jan-2026 | 30 days | 8 days | ✓ |
| **Physical Tests : pH by Meter (1:2 Soil:Water Extraction)** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-10 | E108 | 29-Dec-2025 | 06-Jan-2026 | 30 days | 8 days | ✓ | 06-Jan-2026 | 30 days | 8 days | ✓ |
| **Physical Tests : pH by Meter (1:2 Soil:Water Extraction)** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-11 | E108 | 29-Dec-2025 | 06-Jan-2026 | 30 days | 8 days | ✓ | 06-Jan-2026 | 30 days | 8 days | ✓ |
| **Physical Tests : pH by Meter (1:2 Soil:Water Extraction)** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-12 | E108 | 29-Dec-2025 | 06-Jan-2026 | 30 days | 8 days | ✓ | 06-Jan-2026 | 30 days | 8 days | ✓ |
| **Physical Tests : pH by Meter (1:2 Soil:Water Extraction)** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-2 | E108 | 29-Dec-2025 | 06-Jan-2026 | 30 days | 8 days | ✓ | 06-Jan-2026 | 30 days | 8 days | ✓ |
| **Physical Tests : pH by Meter (1:2 Soil:Water Extraction)** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-3 | E108 | 29-Dec-2025 | 06-Jan-2026 | 30 days | 8 days | ✓ | 06-Jan-2026 | 30 days | 8 days | ✓ |
| **Physical Tests : pH by Meter (1:2 Soil:Water Extraction)** | | | | | | | | | | |
| **LDPE bag** BA 2552-A-4 | E108 | 29-Dec-2025 | 06-Jan-2026 | 30 days | 8 days | ✓ | 06-Jan-2026 | 30 days | 8 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 | | Eval | Analysis Date | Holding Times | | Eval |
| | | | | Rec | Actual | | | Rec | Actual | |
| **Physical Tests : pH by Meter (1:2 Soil:Water Extraction)** | | | | | | | | | | |
| **LDPE bag** | | | | | | | | | | |
| BA 2552-A-5 | E108 | 29-Dec-2025 | 06-Jan-2026 | 30 days | 8 days | ✓ | 06-Jan-2026 | 30 days | 8 days | ✓ |
| **Physical Tests : pH by Meter (1:2 Soil:Water Extraction)** | | | | | | | | | | |
| **LDPE bag** | | | | | | | | | | |
| BA 2552-A-6 | E108 | 29-Dec-2025 | 06-Jan-2026 | 30 days | 8 days | ✓ | 06-Jan-2026 | 30 days | 8 days | ✓ |
| **Physical Tests : pH by Meter (1:2 Soil:Water Extraction)** | | | | | | | | | | |
| **LDPE bag** | | | | | | | | | | |
| BA 2552-A-7 | E108 | 29-Dec-2025 | 06-Jan-2026 | 30 days | 8 days | ✓ | 06-Jan-2026 | 30 days | 8 days | ✓ |
| **Physical Tests : pH by Meter (1:2 Soil:Water Extraction)** | | | | | | | | | | |
| **LDPE bag** | | | | | | | | | | |
| BA 2552-A-8 | E108 | 29-Dec-2025 | 06-Jan-2026 | 30 days | 8 days | ✓ | 06-Jan-2026 | 30 days | 8 days | ✓ |
| **Physical Tests : pH by Meter (1:2 Soil:Water Extraction)** | | | | | | | | | | |
| **LDPE bag** | | | | | | | | | | |
| BA 2552-A-9 | E108 | 29-Dec-2025 | 06-Jan-2026 | 30 days | 8 days | ✓ | 06-Jan-2026 | 30 days | 8 days | ✓ |
| **TCLP Metals : Mercury by CVAAS (TCLP)** | | | | | | | | | | |
| **Glass vial - total (lab preserved)** | | | | | | | | | | |
| BA 2552-A-1 | E512 | 05-Jan-2026 | 07-Jan-2026 | 35 days | 9 days | ✓ | 07-Jan-2026 | 35 days | 9 days | ✓ |
| **TCLP Metals : Mercury by CVAAS (TCLP)** | | | | | | | | | | |
| **Glass vial - total (lab preserved)** | | | | | | | | | | |
| BA 2552-A-10 | E512 | 05-Jan-2026 | 07-Jan-2026 | 35 days | 9 days | ✓ | 07-Jan-2026 | 35 days | 9 days | ✓ |
| **TCLP Metals : Mercury by CVAAS (TCLP)** | | | | | | | | | | |
| **Glass vial - total (lab preserved)** | | | | | | | | | | |
| BA 2552-A-11 | E512 | 05-Jan-2026 | 07-Jan-2026 | 35 days | 9 days | ✓ | 07-Jan-2026 | 35 days | 9 days | ✓ |
| **TCLP Metals : Mercury by CVAAS (TCLP)** | | | | | | | | | | |
| **Glass vial - total (lab preserved)** | | | | | | | | | | |
| BA 2552-A-12 | E512 | 05-Jan-2026 | 07-Jan-2026 | 35 days | 9 days | ✓ | 07-Jan-2026 | 35 days | 9 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* |
| **TCLP Metals : Mercury by CVAAS (TCLP)** | | | | | | | | | | |
| **Glass vial - total (lab preserved)** BA 2552-A-2 | E512 | 05-Jan-2026 | 07-Jan-2026 | 35 days | 9 days | ✓ | 07-Jan-2026 | 35 days | 9 days | ✓ |
| **TCLP Metals : Mercury by CVAAS (TCLP)** | | | | | | | | | | |
| **Glass vial - total (lab preserved)** BA 2552-A-3 | E512 | 05-Jan-2026 | 07-Jan-2026 | 35 days | 9 days | ✓ | 07-Jan-2026 | 35 days | 9 days | ✓ |
| **TCLP Metals : Mercury by CVAAS (TCLP)** | | | | | | | | | | |
| **Glass vial - total (lab preserved)** BA 2552-A-4 | E512 | 05-Jan-2026 | 07-Jan-2026 | 35 days | 9 days | ✓ | 07-Jan-2026 | 35 days | 9 days | ✓ |
| **TCLP Metals : Mercury by CVAAS (TCLP)** | | | | | | | | | | |
| **Glass vial - total (lab preserved)** BA 2552-A-5 | E512 | 05-Jan-2026 | 07-Jan-2026 | 35 days | 9 days | ✓ | 07-Jan-2026 | 35 days | 9 days | ✓ |
| **TCLP Metals : Mercury by CVAAS (TCLP)** | | | | | | | | | | |
| **Glass vial - total (lab preserved)** BA 2552-A-6 | E512 | 05-Jan-2026 | 07-Jan-2026 | 35 days | 9 days | ✓ | 07-Jan-2026 | 35 days | 9 days | ✓ |
| **TCLP Metals : Mercury by CVAAS (TCLP)** | | | | | | | | | | |
| **Glass vial - total (lab preserved)** BA 2552-A-7 | E512 | 05-Jan-2026 | 07-Jan-2026 | 35 days | 9 days | ✓ | 07-Jan-2026 | 35 days | 9 days | ✓ |
| **TCLP Metals : Mercury by CVAAS (TCLP)** | | | | | | | | | | |
| **Glass vial - total (lab preserved)** BA 2552-A-8 | E512 | 05-Jan-2026 | 07-Jan-2026 | 35 days | 9 days | ✓ | 07-Jan-2026 | 35 days | 9 days | ✓ |
| **TCLP Metals : Mercury by CVAAS (TCLP)** | | | | | | | | | | |
| **Glass vial - total (lab preserved)** BA 2552-A-9 | E512 | 05-Jan-2026 | 07-Jan-2026 | 35 days | 9 days | ✓ | 07-Jan-2026 | 35 days | 9 days | ✓ |
| **TCLP Metals : Metals by CRC ICPMS (TCLP)** | | | | | | | | | | |
| **HDPE - total (lab preserved)** BA 2552-A-1 | E444 | 05-Jan-2026 | 07-Jan-2026 | 187 days | 9 days | ✓ | 08-Jan-2026 | 187 days | 9 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* | | *Eval* | *Analysis Date* | *Holding Times* | | *Eval* |
| | | | | *Rec* | *Actual* | | | *Rec* | *Actual* | |
| **TCLP Metals : Metals by CRC ICPMS (TCLP)** | | | | | | | | | | |
| **HDPE - total (lab preserved)** BA 2552-A-10 | E444 | 05-Jan-2026 | 07-Jan-2026 | 187 days | 9 days | ✓ | 08-Jan-2026 | 187 days | 9 days | ✓ |
| **TCLP Metals : Metals by CRC ICPMS (TCLP)** | | | | | | | | | | |
| **HDPE - total (lab preserved)** BA 2552-A-11 | E444 | 05-Jan-2026 | 07-Jan-2026 | 187 days | 9 days | ✓ | 08-Jan-2026 | 187 days | 9 days | ✓ |
| **TCLP Metals : Metals by CRC ICPMS (TCLP)** | | | | | | | | | | |
| **HDPE - total (lab preserved)** BA 2552-A-12 | E444 | 05-Jan-2026 | 07-Jan-2026 | 187 days | 9 days | ✓ | 08-Jan-2026 | 187 days | 9 days | ✓ |
| **TCLP Metals : Metals by CRC ICPMS (TCLP)** | | | | | | | | | | |
| **HDPE - total (lab preserved)** BA 2552-A-2 | E444 | 05-Jan-2026 | 07-Jan-2026 | 187 days | 9 days | ✓ | 08-Jan-2026 | 187 days | 9 days | ✓ |
| **TCLP Metals : Metals by CRC ICPMS (TCLP)** | | | | | | | | | | |
| **HDPE - total (lab preserved)** BA 2552-A-3 | E444 | 05-Jan-2026 | 07-Jan-2026 | 187 days | 9 days | ✓ | 08-Jan-2026 | 187 days | 9 days | ✓ |
| **TCLP Metals : Metals by CRC ICPMS (TCLP)** | | | | | | | | | | |
| **HDPE - total (lab preserved)** BA 2552-A-4 | E444 | 05-Jan-2026 | 07-Jan-2026 | 187 days | 9 days | ✓ | 08-Jan-2026 | 187 days | 9 days | ✓ |
| **TCLP Metals : Metals by CRC ICPMS (TCLP)** | | | | | | | | | | |
| **HDPE - total (lab preserved)** BA 2552-A-5 | E444 | 05-Jan-2026 | 07-Jan-2026 | 187 days | 9 days | ✓ | 08-Jan-2026 | 187 days | 9 days | ✓ |
| **TCLP Metals : Metals by CRC ICPMS (TCLP)** | | | | | | | | | | |
| **HDPE - total (lab preserved)** BA 2552-A-6 | E444 | 05-Jan-2026 | 07-Jan-2026 | 187 days | 9 days | ✓ | 08-Jan-2026 | 187 days | 9 days | ✓ |
| **TCLP Metals : Metals by CRC ICPMS (TCLP)** | | | | | | | | | | |
| **HDPE - total (lab preserved)** BA 2552-A-7 | E444 | 05-Jan-2026 | 07-Jan-2026 | 187 days | 9 days | ✓ | 08-Jan-2026 | 187 days | 9 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* |
| **TCLP Metals : Metals by CRC ICPMS (TCLP)** | | | | | | | | | | |
| **HDPE - total (lab preserved)** BA 2552-A-8 | E444 | 05-Jan-2026 | 07-Jan-2026 | 187 days | 9 days | ✓ | 08-Jan-2026 | 187 days | 9 days | ✓ |
| **TCLP Metals : Metals by CRC ICPMS (TCLP)** | | | | | | | | | | |
| **HDPE - total (lab preserved)** BA 2552-A-9 | E444 | 05-Jan-2026 | 07-Jan-2026 | 187 days | 9 days | ✓ | 08-Jan-2026 | 187 days | 9 days | ✓ |
| **TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)** | | | | | | | | | | |
| **Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)** BA 2552-A-1 | EPP444 | 29-Dec-2025 | 05-Jan-2026 | ---- | ---- | | ---- | 28 days | 7 days | ✓ |
| **TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)** | | | | | | | | | | |
| **Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)** BA 2552-A-10 | EPP444 | 29-Dec-2025 | 05-Jan-2026 | ---- | ---- | | ---- | 28 days | 7 days | ✓ |
| **TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)** | | | | | | | | | | |
| **Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)** BA 2552-A-11 | EPP444 | 29-Dec-2025 | 05-Jan-2026 | ---- | ---- | | ---- | 28 days | 7 days | ✓ |
| **TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)** | | | | | | | | | | |
| **Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)** BA 2552-A-12 | EPP444 | 29-Dec-2025 | 05-Jan-2026 | ---- | ---- | | ---- | 28 days | 7 days | ✓ |
| **TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)** | | | | | | | | | | |
| **Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)** BA 2552-A-2 | EPP444 | 29-Dec-2025 | 05-Jan-2026 | ---- | ---- | | ---- | 28 days | 7 days | ✓ |
| **TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)** | | | | | | | | | | |
| **Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)** BA 2552-A-3 | EPP444 | 29-Dec-2025 | 05-Jan-2026 | ---- | ---- | | ---- | 28 days | 7 days | ✓ |
| **TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)** | | | | | | | | | | |
| **Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)** BA 2552-A-4 | EPP444 | 29-Dec-2025 | 05-Jan-2026 | ---- | ---- | | ---- | 28 days | 7 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 |
| **TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)** | | | | | | | | | | |
| **Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)** | | | | | | | | | | |
| BA 2552-A-5 | EPP444 | 29-Dec-2025 | 05-Jan-2026 | ---- | ---- | | ---- | 28 days | 7 days | ✓ |
| **TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)** | | | | | | | | | | |
| **Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)** | | | | | | | | | | |
| BA 2552-A-6 | EPP444 | 29-Dec-2025 | 05-Jan-2026 | ---- | ---- | | ---- | 28 days | 7 days | ✓ |
| **TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)** | | | | | | | | | | |
| **Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)** | | | | | | | | | | |
| BA 2552-A-7 | EPP444 | 29-Dec-2025 | 05-Jan-2026 | ---- | ---- | | ---- | 28 days | 7 days | ✓ |
| **TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)** | | | | | | | | | | |
| **Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)** | | | | | | | | | | |
| BA 2552-A-8 | EPP444 | 29-Dec-2025 | 05-Jan-2026 | ---- | ---- | | ---- | 28 days | 7 days | ✓ |
| **TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)** | | | | | | | | | | |
| **Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)** | | | | | | | | | | |
| BA 2552-A-9 | EPP444 | 29-Dec-2025 | 05-Jan-2026 | ---- | ---- | | ---- | 28 days | 7 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: **Soil/Solid**

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

| Quality Control Sample Type | | | Count | | Frequency (%) | | |
|---|---|---|---|---|---|---|---|
| *Analytical Methods* | *Method* | *QC Lot #* | *QC* | *Regular* | *Actual* | *Expected* | *Evaluation* |
| **Laboratory Duplicates (DUP)** | | | | | | | |
| pH by Meter (1:2 Soil:Water Extraction) | E108 | 2405173 | 1 | 19 | 5.2 | 5.0 | ✓ |
| Moisture Content by Gravimetry | E144 | 2405176 | 1 | 12 | 8.3 | 5.0 | ✓ |
| Metals in Soil/Solid by CRC ICPMS | E440 | 2405175 | 1 | 18 | 5.5 | 5.0 | ✓ |
| Metals by CRC ICPMS (TCLP) | E444 | 2408356 | 1 | 12 | 8.3 | 5.0 | ✓ |
| Mercury in Soil/Solid by CVAAS | E510 | 2405174 | 1 | 18 | 5.5 | 5.0 | ✓ |
| Mercury by CVAAS (TCLP) | E512 | 2408355 | 1 | 12 | 8.3 | 5.0 | ✓ |
| **Laboratory Control Samples (LCS)** | | | | | | | |
| pH by Meter (1:2 Soil:Water Extraction) | E108 | 2405173 | 1 | 19 | 5.2 | 5.0 | ✓ |
| Moisture Content by Gravimetry | E144 | 2405176 | 1 | 12 | 8.3 | 5.0 | ✓ |
| Metals in Soil/Solid by CRC ICPMS | E440 | 2405175 | 2 | 18 | 11.1 | 10.0 | ✓ |
| Mercury in Soil/Solid by CVAAS | E510 | 2405174 | 2 | 18 | 11.1 | 10.0 | ✓ |
| **Method Blanks (MB)** | | | | | | | |
| Moisture Content by Gravimetry | E144 | 2405176 | 1 | 12 | 8.3 | 5.0 | ✓ |
| Metals in Soil/Solid by CRC ICPMS | E440 | 2405175 | 1 | 18 | 5.5 | 5.0 | ✓ |
| Metals by CRC ICPMS (TCLP) | E444 | 2408356 | 1 | 12 | 8.3 | 5.0 | ✓ |
| Mercury in Soil/Solid by CVAAS | E510 | 2405174 | 1 | 18 | 5.5 | 5.0 | ✓ |
| Mercury by CVAAS (TCLP) | E512 | 2408355 | 1 | 12 | 8.3 | 5.0 | ✓ |
| **Matrix Spikes (MS)** | | | | | | | |
| Metals by CRC ICPMS (TCLP) | E444 | 2408356 | 1 | 12 | 8.3 | 5.0 | ✓ |
| Mercury by CVAAS (TCLP) | E512 | 2408355 | 1 | 12 | 8.3 | 5.0 | ✓ |

## Methodology References and Summaries

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

| Analytical Methods | Method / Lab | Matrix | Method Reference | Method Descriptions |
|---|---|---|---|---|
| pH by Meter (1:2 Soil:Water Extraction) | E108<br>ALS Environmental - Vancouver | Soil/Solid | BC Lab Manual | pH is determined by potentiometric measurement with a pH electrode at ambient laboratory temperature (normally 20 ± 5°C), and is carried out in accordance with procedures described in the BC Lab Manual (prescriptive method). The procedure involves mixing the dried (at <60 ºC) and sieved (10mesh/2mm) sample with ultra pure water at a 1:2 ratio of sediment to water. The pH is then measured by a standard pH probe. |
| Moisture Content by Gravimetry | E144<br>ALS Environmental - Vancouver | 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. |
| Metals in Soil/Solid by CRC ICPMS | E440<br>ALS Environmental - Vancouver | Soil/Solid | EPA 6020B (mod) | This method is intended to liberate metals that may be environmentally available. Samples are dried, then sieved through a 2 mm sieve, and digested with HNO3 and HCl.<br><br>Dependent on sample matrix, some metals may be only partially recovered, including Al, Ba, Be, Cr, Sr, Ti, Tl, V, W, and Zr. Silicate minerals are not solubilized. Volatile forms of sulfur (including sulfide) may not be captured, as they may be lost during sampling, storage, or digestion. This method does not adequately recover elemental sulfur, and is unsuitable for assessment of elemental sulfur standards or guidelines.<br><br>Analysis is by Collision/Reaction Cell ICPMS. |
| Metals by CRC ICPMS (TCLP) | E444<br>ALS Environmental - Vancouver | Soil/Solid | EPA 1311/6020B (mod) | An extract produced by the Toxicity Characteristic Leachate Procedure (TCLP) as per EPA 1311 is analyzed by Collision/Reaction Cell ICPMS. |
| Mercury in Soil/Solid by CVAAS | E510<br>ALS Environmental - Vancouver | Soil/Solid | EPA 200.2/1631 Appendix (mod) | Samples are dried, then sieved through a 2 mm sieve, and digested with HNO3 and HCl, followed by CVAAS analysis. |
| Mercury by CVAAS (TCLP) | E512<br>ALS Environmental - Vancouver | Soil/Solid | EPA 1311/245.1 (mod) | An extract produced by the Toxicity Characteristic Leachate Procedure (TCLP) as per EPA 1311 is analyzed by CVAAS. |

| Preparation Methods | Method / Lab | Matrix | Method Reference | Method Descriptions |
|---|---|---|---|---|
| Leach 1:2 Soil:Water for pH/EC | EP108<br>ALS Environmental - Vancouver | Soil/Solid | BC WLAP METHOD: PH, ELECTROMETRIC, SOIL | The procedure involves mixing the dried (at <60°C) and sieved (No. 10 / 2mm) sample with deionized/distilled water at a 1:2 ratio of sediment to water. |

| Preparation Methods | Method / Lab | Matrix | Method Reference | Method Descriptions |
|---|---|---|---|---|
| Digestion for Metals and Mercury | EP440<br><br>ALS Environmental - Vancouver | Soil/Solid | EPA 200.2 (mod) | Samples are dried, then sieved through a 2 mm sieve, and digested with HNO3 and HCl. This method is intended to liberate metals that may be environmentally available. |
| TCLP Leachate Preparation (Metals, Inorganics, and SVOCs) | EPP444<br><br>ALS Environmental - Vancouver | Soil/Solid | EPA 1311 | Preparation of a Toxicity Characteristic Leaching Procedure (TCLP) solid sample involves particle size reduction, homogenization, then determination of appropriate extraction fluid. A measured portion of fresh subsample is placed in an extraction bottle with the appropriate extraction fluid then tumbled in a rotary extractor for 18+/- 2 hours at 23 +/- 2 C. The liquid leachate is filtered to separate from solids then bottled and prepared for analytical tests. |

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# QUALITY CONTROL REPORT

| | | | |
|---|---|---|---|
| **Work Order** | : **VA25D4356** | | |
| **Amendment** | : **1** | | |
| Client | : Veolia Environmental Services Canada | Laboratory | : ALS Environmental - Vancouver |
| Contact | : Brian Graham | Account Manager | : Gulraj Dhanaua |
| Address | : 5150 Riverbend Dr.<br>Burnaby BC Canada V3N 4V3 | Address | : 8081 Lougheed Highway<br>Burnaby British Columbia Canada V5A 1W9 |
| Telephone | : ---- | Telephone | : +1 604 253 4188 |
| Project | : Veolia Weekly Bottom Ash-Suite | Date Samples Received | : 31-Dec-2025 10:10 |
| PO | : 1000497676 | Date Analysis Commenced | : 03-Jan-2026 |
| C-O-C number | : ---- | Issue Date | : 30-Jan-2026 11:03 |
| Sampler | : ---- | | |
| Site | : Metro Van Ash Sampling Program | | |
| Quote number | : VA25-VISI100-001 | | |
| No. of samples received | : 12 | | |
| No. of samples analysed | : 12 | | |

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

This 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
- @ReferenceMaterial!
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

## *Signatories*

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

| *Signatories* | *Position* | *Laboratory Department* |
|---|---|---|
| Dan Gebert | Supervisor - Metals Mercury & Speciation | Vancouver Metals, Burnaby, British Columbia |
| Ophelia Chiu | Department Manager - Organics | Vancouver Organics, Burnaby, British Columbia |

## General Comments

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

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

## Workorder Comments

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

## Laboratory Duplicate (DUP) Report

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

**Sub-Matrix:** **Soil**

| Laboratory sample ID | Client sample ID | Analyte | CAS Number | Method | Laboratory Duplicate (DUP) Report | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | LOR | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| **Physical Tests(QC Lot: 2405173)** | | | | | | | | | | | |
| VA25D4316-001 | Anonymous | pH (1:2 soil:water) | ---- | E108 | 0.10 | pH units | 8.39 | 8.38 | 0.1 % | 5% | --- |
| **Physical Tests(QC Lot: 2405176)** | | | | | | | | | | | |
| VA25D4356-001 | BA 2552-A-1 | Moisture | ---- | E144 | 0.25 | % | 29.8 | 30.2 | 1.38 % | 20% | --- |
| **Metals(QC Lot: 2405174)** | | | | | | | | | | | |
| VA25D4316-001 | Anonymous | Mercury | 7439-97-6 | E510 | 0.0500 | mg/kg | 0.927 | 0.809 | 13.6 % | 40% | --- |
| **Metals(QC Lot: 2405175)** | | | | | | | | | | | |
| VA25D4316-001 | Anonymous | Aluminum | 7429-90-5 | E440 | 50 | mg/kg | 21000 | 19900 | 5.60 % | 40% | --- |
| | | Antimony | 7440-36-0 | E440 | 0.10 | mg/kg | 10.1 | 12.4 | 20.0 % | 30% | --- |
| | | Arsenic | 7440-38-2 | E440 | 0.10 | mg/kg | 19.1 | 20.9 | 8.53 % | 30% | --- |
| | | Barium | 7440-39-3 | E440 | 0.50 | mg/kg | 1390 | 1310 | 5.44 % | 40% | --- |
| | | Beryllium | 7440-41-7 | E440 | 0.10 | mg/kg | 0.49 | 0.47 | 0.02 | Diff <2x LOR | --- |
| | | Bismuth | 7440-69-9 | E440 | 0.20 | mg/kg | 5.51 | 4.71 | 15.7 % | 30% | --- |
| | | Boron | 7440-42-8 | E440 | 5.0 | mg/kg | 14.5 | 14.2 | 0.3 | Diff <2x LOR | --- |
| | | Cadmium | 7440-43-9 | E440 | 0.020 | mg/kg | 0.778 | 0.798 | 2.51 % | 30% | --- |
| | | Calcium | 7440-70-2 | E440 | 50 | mg/kg | 13600 | 13200 | 3.49 % | 30% | --- |
| | | Chromium | 7440-47-3 | E440 | 0.50 | mg/kg | 60.7 | 56.3 | 7.48 % | 30% | --- |
| | | Cobalt | 7440-48-4 | E440 | 0.10 | mg/kg | 13.4 | 11.8 | 12.6 % | 30% | --- |
| | | Copper | 7440-50-8 | E440 | 0.50 | mg/kg | 124 | 155 | 21.7 % | 30% | --- |
| | | Iron | 7439-89-6 | E440 | 50 | mg/kg | 24400 | 23400 | 4.23 % | 30% | --- |
| | | Lead | 7439-92-1 | E440 | 0.50 | mg/kg | 100 | 92.6 | 7.73 % | 40% | --- |
| | | Lithium | 7439-93-2 | E440 | 2.0 | mg/kg | 11.8 | 11.2 | 0.6 | Diff <2x LOR | --- |
| | | Magnesium | 7439-95-4 | E440 | 20 | mg/kg | 6310 | 6320 | 0.0149 % | 30% | --- |
| | | Manganese | 7439-96-5 | E440 | 1.0 | mg/kg | 483 | 468 | 3.09 % | 30% | --- |
| | | Molybdenum | 7439-98-7 | E440 | 0.10 | mg/kg | 43.8 | 31.6 | 32.2 % | 40% | --- |
| | | Nickel | 7440-02-0 | E440 | 0.50 | mg/kg | 104 | 93.4 | 10.3 % | 30% | --- |
| | | Phosphorus | 7723-14-0 | E440 | 50 | mg/kg | 1040 | 1010 | 2.43 % | 30% | --- |
| | | Potassium | 7440-09-7 | E440 | 100 | mg/kg | 2070 | 1970 | 4.53 % | 40% | --- |
| | | Selenium | 7782-49-2 | E440 | 0.20 | mg/kg | 7.53 | 7.67 | 1.92 % | 30% | --- |
| | | Silver | 7440-22-4 | E440 | 0.10 | mg/kg | 1.54 | 1.42 | 7.88 % | 40% | --- |
| | | Sodium | 7440-23-5 | E440 | 50 | mg/kg | 1730 | 1690 | 2.57 % | 40% | --- |
| | | Strontium | 7440-24-6 | E440 | 0.50 | mg/kg | 113 | 106 | 6.60 % | 40% | --- |
| | | Sulfur | 7704-34-9 | E440 | 1000 | mg/kg | 3200 | 3100 | 100 | Diff <2x LOR | --- |
| | | Thallium | 7440-28-0 | E440 | 0.050 | mg/kg | 0.206 | 0.172 | 0.034 | Diff <2x LOR | --- |
| | | Tin | 7440-31-5 | E440 | 2.0 | mg/kg | 4.7 | 4.3 | 0.4 | Diff <2x LOR | --- |

**Sub-Matrix: Soil**

| Laboratory sample ID | Client sample ID | Analyte | CAS Number | Method | Laboratory Duplicate (DUP) Report | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | LOR | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| **Metals(QC Lot: 2405175)** | | | | | | | | | | | |
| | | Titanium | 7440-32-6 | E440 | 1.0 | mg/kg | 904 | 875 | 3.26 % | 40% | --- |
| | | Tungsten | 7440-33-7 | E440 | 0.50 | mg/kg | 2.21 | 2.42 | 0.20 | Diff <2x LOR | --- |
| | | Uranium | 7440-61-1 | E440 | 0.050 | mg/kg | 1.38 | 1.06 | 25.9 % | 30% | --- |
| | | Vanadium | 7440-62-2 | E440 | 0.20 | mg/kg | 119 | 103 | 14.7 % | 30% | --- |
| | | Zinc | 7440-66-6 | E440 | 2.0 | mg/kg | 333 | 317 | 5.18 % | 30% | --- |
| | | Zirconium | 7440-67-7 | E440 | 1.0 | mg/kg | 12.2 | 11.6 | 5.61 % | 30% | --- |
| **TCLP Metals(QC Lot: 2408355)** | | | | | | | | | | | |
| VA25D4356-001 | BA 2552-A-1 | Mercury, TCLP | 7439-97-6 | E512 | 0.0010 | mg/L | <0.0010 | <0.0010 | 0 | Diff <2x LOR | --- |
| **TCLP Metals(QC Lot: 2408356)** | | | | | | | | | | | |
| VA25D4356-001 | BA 2552-A-1 | Antimony, TCLP | 7440-36-0 | E444 | 1.00 | mg/L | <1.00 | <1.00 | 0 | Diff <2x LOR | --- |
| | | Arsenic, TCLP | 7440-38-2 | E444 | 1.0 | mg/L | <1.0 | <1.0 | 0 | Diff <2x LOR | --- |
| | | Barium, TCLP | 7440-39-3 | E444 | 2.5 | mg/L | <2.5 | <2.5 | 0 | Diff <2x LOR | --- |
| | | Beryllium, TCLP | 7440-41-7 | E444 | 0.025 | mg/L | <0.025 | <0.025 | 0 | Diff <2x LOR | --- |
| | | Boron, TCLP | 7440-42-8 | E444 | 0.50 | mg/L | 1.70 | 1.65 | 0.05 | Diff <2x LOR | --- |
| | | Cadmium, TCLP | 7440-43-9 | E444 | 0.050 | mg/L | 0.064 | 0.062 | 0.002 | Diff <2x LOR | --- |
| | | Calcium, TCLP | 7440-70-2 | E444 | 10 | mg/L | 1910 | 1800 | 5.43 % | 30% | --- |
| | | Chromium, TCLP | 7440-47-3 | E444 | 0.25 | mg/L | <0.25 | <0.25 | 0 | Diff <2x LOR | --- |
| | | Cobalt, TCLP | 7440-48-4 | E444 | 0.050 | mg/L | 1.43 | 1.42 | 1.29 % | 30% | --- |
| | | Copper, TCLP | 7440-50-8 | E444 | 0.050 | mg/L | 1.22 | 1.20 | 1.46 % | 30% | --- |
| | | Iron, TCLP | 7439-89-6 | E444 | 5.0 | mg/L | <5.0 | <5.0 | 0 | Diff <2x LOR | --- |
| | | Lead, TCLP | 7439-92-1 | E444 | 0.25 | mg/L | <0.25 | <0.25 | 0 | Diff <2x LOR | --- |
| | | Magnesium, TCLP | 7439-95-4 | E444 | 2.5 | mg/L | 130 | 124 | 4.82 % | 30% | --- |
| | | Nickel, TCLP | 7440-02-0 | E444 | 0.25 | mg/L | 0.40 | 0.39 | 0.02 | Diff <2x LOR | --- |
| | | Selenium, TCLP | 7782-49-2 | E444 | 0.10 | mg/L | <0.10 | <0.10 | 0 | Diff <2x LOR | --- |
| | | Silver, TCLP | 7440-22-4 | E444 | 0.050 | mg/L | <0.050 | <0.050 | 0 | Diff <2x LOR | --- |
| | | Thallium, TCLP | 7440-28-0 | E444 | 1.0 | mg/L | <1.0 | <1.0 | 0 | Diff <2x LOR | --- |
| | | Uranium, TCLP | 7440-61-1 | E444 | 0.20 | mg/L | <0.20 | <0.20 | 0 | Diff <2x LOR | --- |
| | | Vanadium, TCLP | 7440-62-2 | E444 | 0.15 | mg/L | <0.15 | <0.15 | 0 | Diff <2x LOR | --- |
| | | Zinc, TCLP | 7440-66-6 | E444 | 0.50 | mg/L | 24.1 | 23.6 | 2.22 % | 30% | --- |
| | | Zirconium, TCLP | 7440-67-7 | E444 | 10 | mg/L | <10 | <10 | 0 | Diff <2x LOR | --- |

## *Method Blank (MB) Report*

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

**Sub-Matrix: Soil/Solid**

| Analyte | CAS Number | Method | LOR | Unit | Result | Qualifier |
|---|---|---|---|---|---|---|
| **Physical Tests(QC Lot: 2405173)** | | | | | | |
| pH (1:2 soil:water) | ---- | E108 | ---- | pH units | ---- | ---- |
| **Physical Tests(QC Lot: 2405176)** | | | | | | |
| Moisture | ---- | E144 | 0.25 | % | <0.25 | ---- |
| **Metals(QC Lot: 2405174)** | | | | | | |
| Mercury | 7439-97-6 | E510 | 0.005 | mg/kg | <0.0050 | ---- |
| **Metals(QC Lot: 2405175)** | | | | | | |
| Aluminum | 7429-90-5 | E440 | 50 | mg/kg | <50 | ---- |
| Antimony | 7440-36-0 | E440 | 0.1 | mg/kg | <0.10 | ---- |
| Arsenic | 7440-38-2 | E440 | 0.1 | mg/kg | <0.10 | ---- |
| Barium | 7440-39-3 | E440 | 0.5 | mg/kg | <0.50 | ---- |
| Beryllium | 7440-41-7 | E440 | 0.1 | mg/kg | <0.10 | ---- |
| Bismuth | 7440-69-9 | E440 | 0.2 | mg/kg | <0.20 | ---- |
| Boron | 7440-42-8 | E440 | 5 | mg/kg | <5.0 | ---- |
| Cadmium | 7440-43-9 | E440 | 0.02 | mg/kg | <0.020 | ---- |
| Calcium | 7440-70-2 | E440 | 50 | mg/kg | <50 | ---- |
| Chromium | 7440-47-3 | E440 | 0.5 | mg/kg | <0.50 | ---- |
| Cobalt | 7440-48-4 | E440 | 0.1 | mg/kg | <0.10 | ---- |
| Copper | 7440-50-8 | E440 | 0.5 | mg/kg | <0.50 | ---- |
| Iron | 7439-89-6 | E440 | 50 | mg/kg | <50 | ---- |
| Lead | 7439-92-1 | E440 | 0.5 | mg/kg | <0.50 | ---- |
| Lithium | 7439-93-2 | E440 | 2 | mg/kg | <2.0 | ---- |
| Magnesium | 7439-95-4 | E440 | 20 | mg/kg | <20 | ---- |
| Manganese | 7439-96-5 | E440 | 1 | mg/kg | <1.0 | ---- |
| Molybdenum | 7439-98-7 | E440 | 0.1 | mg/kg | <0.10 | ---- |
| Nickel | 7440-02-0 | E440 | 0.5 | mg/kg | <0.50 | ---- |
| Phosphorus | 7723-14-0 | E440 | 50 | mg/kg | <50 | ---- |
| Potassium | 7440-09-7 | E440 | 100 | mg/kg | <100 | ---- |
| Selenium | 7782-49-2 | E440 | 0.2 | mg/kg | <0.20 | ---- |
| Silver | 7440-22-4 | E440 | 0.1 | mg/kg | <0.10 | ---- |
| Sodium | 7440-23-5 | E440 | 50 | mg/kg | <50 | ---- |
| Strontium | 7440-24-6 | E440 | 0.5 | mg/kg | <0.50 | ---- |
| Sulfur | 7704-34-9 | E440 | 1000 | mg/kg | <1000 | ---- |
| Thallium | 7440-28-0 | E440 | 0.05 | mg/kg | <0.050 | ---- |
| Tin | 7440-31-5 | E440 | 2 | mg/kg | <2.0 | ---- |
| Titanium | 7440-32-6 | E440 | 1 | mg/kg | <1.0 | ---- |
| Tungsten | 7440-33-7 | E440 | 0.5 | mg/kg | <0.50 | ---- |
| Uranium | 7440-61-1 | E440 | 0.05 | mg/kg | <0.050 | ---- |
| Vanadium | 7440-62-2 | E440 | 0.2 | mg/kg | <0.20 | ---- |

**Sub-Matrix: Soil/Solid**

| Analyte | CAS Number | Method | LOR | Unit | Result | Qualifier |
|---|---|---|---|---|---|---|
| **Metals(QC Lot: 2405175)** | | | | | | |
| Zinc | 7440-66-6 | E440 | 2 | mg/kg | <2.0 | ---- |
| Zirconium | 7440-67-7 | E440 | 1 | mg/kg | <1.0 | ---- |
| **TCLP Metals(QC Lot: 2408355)** | | | | | | |
| Mercury, TCLP | 7439-97-6 | E512 | 0.001 | mg/L | <0.0010 | ---- |
| **TCLP Metals(QC Lot: 2408356)** | | | | | | |
| Antimony, TCLP | 7440-36-0 | E444 | 0.1 | mg/L | <0.10 | ---- |
| Arsenic, TCLP | 7440-38-2 | E444 | 1 | mg/L | <1.0 | ---- |
| Barium, TCLP | 7440-39-3 | E444 | 2.5 | mg/L | <2.5 | ---- |
| Beryllium, TCLP | 7440-41-7 | E444 | 0.025 | mg/L | <0.025 | ---- |
| Boron, TCLP | 7440-42-8 | E444 | 0.5 | mg/L | <0.50 | ---- |
| Cadmium, TCLP | 7440-43-9 | E444 | 0.05 | mg/L | <0.050 | ---- |
| Calcium, TCLP | 7440-70-2 | E444 | 10 | mg/L | <10 | ---- |
| Chromium, TCLP | 7440-47-3 | E444 | 0.25 | mg/L | <0.25 | ---- |
| Cobalt, TCLP | 7440-48-4 | E444 | 0.05 | mg/L | <0.050 | ---- |
| Copper, TCLP | 7440-50-8 | E444 | 0.05 | mg/L | <0.050 | ---- |
| Iron, TCLP | 7439-89-6 | E444 | 5 | mg/L | <5.0 | ---- |
| Lead, TCLP | 7439-92-1 | E444 | 0.25 | mg/L | <0.25 | ---- |
| Magnesium, TCLP | 7439-95-4 | E444 | 2.5 | mg/L | <2.5 | ---- |
| Nickel, TCLP | 7440-02-0 | E444 | 0.25 | mg/L | <0.25 | ---- |
| Selenium, TCLP | 7782-49-2 | E444 | 0.1 | mg/L | <0.10 | ---- |
| Silver, TCLP | 7440-22-4 | E444 | 0.05 | mg/L | <0.050 | ---- |
| Thallium, TCLP | 7440-28-0 | E444 | 1 | mg/L | <1.0 | ---- |
| Uranium, TCLP | 7440-61-1 | E444 | 0.2 | mg/L | <0.20 | ---- |
| Vanadium, TCLP | 7440-62-2 | E444 | 0.15 | mg/L | <0.15 | ---- |
| Zinc, TCLP | 7440-66-6 | E444 | 0.5 | mg/L | <0.50 | ---- |
| Zirconium, TCLP | 7440-67-7 | E444 | 10 | mg/L | <10 | ---- |

## *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: Soil**

| | | | | | Laboratory Control Sample (LCS) Report | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Spike | Recovery (%) | Recovery Limits (%) | | |
| Analyte | CAS Number | Method | LOR | Unit | Target Concentration | LCS | Low | High | Qualifier |
| **Physical Tests(QC Lot: 2405173)** | | | | | | | | | |
| pH (1:2 soil:water) | ---- | E108 | ---- | pH units | 6 pH units | 101 | 95.0 | 105 | ---- |
| **Physical Tests(QC Lot: 2405176)** | | | | | | | | | |
| Moisture | ---- | E144 | 0.25 | % | 50 % | 101 | 90.0 | 110 | ---- |
| **Metals(QC Lot: 2405174)** | | | | | | | | | |
| Mercury | 7439-97-6 | E510 | 0.005 | mg/kg | 0.1 mg/kg | 114 | 80.0 | 120 | ---- |
| **Metals(QC Lot: 2405175)** | | | | | | | | | |
| Aluminum | 7429-90-5 | E440 | 50 | mg/kg | 200 mg/kg | 98.9 | 80.0 | 120 | ---- |
| Antimony | 7440-36-0 | E440 | 0.1 | mg/kg | 100 mg/kg | 99.6 | 80.0 | 120 | ---- |
| Arsenic | 7440-38-2 | E440 | 0.1 | mg/kg | 100 mg/kg | 101 | 80.0 | 120 | ---- |
| Barium | 7440-39-3 | E440 | 0.5 | mg/kg | 25 mg/kg | 99.5 | 80.0 | 120 | ---- |
| Beryllium | 7440-41-7 | E440 | 0.1 | mg/kg | 10 mg/kg | 104 | 80.0 | 120 | ---- |
| Bismuth | 7440-69-9 | E440 | 0.2 | mg/kg | 100 mg/kg | 97.9 | 80.0 | 120 | ---- |
| Boron | 7440-42-8 | E440 | 5 | mg/kg | 100 mg/kg | 98.9 | 80.0 | 120 | ---- |
| Cadmium | 7440-43-9 | E440 | 0.02 | mg/kg | 10 mg/kg | 101 | 80.0 | 120 | ---- |
| Calcium | 7440-70-2 | E440 | 50 | mg/kg | 5000 mg/kg | 99.1 | 80.0 | 120 | ---- |
| Chromium | 7440-47-3 | E440 | 0.5 | mg/kg | 25 mg/kg | 99.2 | 80.0 | 120 | ---- |
| Cobalt | 7440-48-4 | E440 | 0.1 | mg/kg | 25 mg/kg | 97.9 | 80.0 | 120 | ---- |
| Copper | 7440-50-8 | E440 | 0.5 | mg/kg | 25 mg/kg | 96.7 | 80.0 | 120 | ---- |
| Iron | 7439-89-6 | E440 | 50 | mg/kg | 100 mg/kg | 99.6 | 80.0 | 120 | ---- |
| Lead | 7439-92-1 | E440 | 0.5 | mg/kg | 50 mg/kg | 103 | 80.0 | 120 | ---- |
| Lithium | 7439-93-2 | E440 | 2 | mg/kg | 25 mg/kg | 104 | 80.0 | 120 | ---- |
| Magnesium | 7439-95-4 | E440 | 20 | mg/kg | 5000 mg/kg | 103 | 80.0 | 120 | ---- |
| Manganese | 7439-96-5 | E440 | 1 | mg/kg | 25 mg/kg | 97.9 | 80.0 | 120 | ---- |
| Molybdenum | 7439-98-7 | E440 | 0.1 | mg/kg | 25 mg/kg | 101 | 80.0 | 120 | ---- |
| Nickel | 7440-02-0 | E440 | 0.5 | mg/kg | 50 mg/kg | 97.0 | 80.0 | 120 | ---- |
| Phosphorus | 7723-14-0 | E440 | 50 | mg/kg | 1000 mg/kg | 102 | 80.0 | 120 | ---- |
| Potassium | 7440-09-7 | E440 | 100 | mg/kg | 5000 mg/kg | 104 | 80.0 | 120 | ---- |
| Selenium | 7782-49-2 | E440 | 0.2 | mg/kg | 100 mg/kg | 98.9 | 80.0 | 120 | ---- |
| Silver | 7440-22-4 | E440 | 0.1 | mg/kg | 10 mg/kg | 98.3 | 80.0 | 120 | ---- |
| Sodium | 7440-23-5 | E440 | 50 | mg/kg | 5000 mg/kg | 100 | 80.0 | 120 | ---- |
| Strontium | 7440-24-6 | E440 | 0.5 | mg/kg | 25 mg/kg | 101 | 80.0 | 120 | ---- |
| Sulfur | 7704-34-9 | E440 | 1000 | mg/kg | 5000 mg/kg | 89.1 | 80.0 | 120 | ---- |
| Thallium | 7440-28-0 | E440 | 0.05 | mg/kg | 100 mg/kg | 99.8 | 80.0 | 120 | ---- |
| Tin | 7440-31-5 | E440 | 2 | mg/kg | 50 mg/kg | 99.6 | 80.0 | 120 | ---- |
| Titanium | 7440-32-6 | E440 | 1 | mg/kg | 25 mg/kg | 93.0 | 80.0 | 120 | ---- |
| Tungsten | 7440-33-7 | E440 | 0.5 | mg/kg | 10 mg/kg | 101 | 80.0 | 120 | ---- |
| Uranium | 7440-61-1 | E440 | 0.05 | mg/kg | 0.5 mg/kg | 105 | 80.0 | 120 | ---- |

**Sub-Matrix: Soil**

| | | | | | Laboratory Control Sample (LCS) Report | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Spike | Recovery (%) | Recovery Limits (%) | | |
| Analyte | CAS Number | Method | LOR | Unit | Target Concentration | LCS | Low | High | Qualifier |
| **Metals(QC Lot: 2405175)** | | | | | | | | | |
| Vanadium | 7440-62-2 | E440 | 0.2 | mg/kg | 50 mg/kg | 101 | 80.0 | 120 | ---- |
| Zinc | 7440-66-6 | E440 | 2 | mg/kg | 50 mg/kg | 95.8 | 80.0 | 120 | ---- |
| Zirconium | 7440-67-7 | E440 | 1 | mg/kg | 10 mg/kg | 103 | 80.0 | 120 | ---- |

## Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for

**Sub-Matrix: Soil**

| | | | | | Matrix Spike (MS) Report | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Spike | | Recovery (%) | Recovery (%) | | Qualifier |
| Laboratory sample ID | Client sample ID | Analyte | CAS Number | Method | Concentration | Target | MS | Low | High | |
| **TCLP Metals(QC Lot: 2408355)** | | | | | | | | | | |
| VA25D4356-001 | BA 2552-A-1 | Mercury, TCLP | 7439-97-6 | E512 | 0.0029 mg/L | 0.003 mg/L | 95.4 | 50.0 | 140 | --- |
| **TCLP Metals(QC Lot: 2408356)** | | | | | | | | | | |
| VA25D4356-001 | BA 2552-A-1 | Antimony, TCLP | 7440-36-0 | E444 | 5.62 mg/L | 5 mg/L | 112 | 50.0 | 140 | --- |
| | | Arsenic, TCLP | 7440-38-2 | E444 | 5.2 mg/L | 5 mg/L | 105 | 50.0 | 140 | --- |
| | | Barium, TCLP | 7440-39-3 | E444 | 13.5 mg/L | 12.5 mg/L | 108 | 50.0 | 140 | --- |
| | | Beryllium, TCLP | 7440-41-7 | E444 | 0.244 mg/L | 0.25 mg/L | 97.6 | 50.0 | 140 | --- |
| | | Boron, TCLP | 7440-42-8 | E444 | 9.37 mg/L | 10 mg/L | 93.7 | 50.0 | 140 | --- |
| | | Cadmium, TCLP | 7440-43-9 | E444 | 0.258 mg/L | 0.25 mg/L | 103 | 50.0 | 140 | --- |
| | | Calcium, TCLP | 7440-70-2 | E444 | ND | ---- | ND | 50.0 | 140 | --- |
| | | Chromium, TCLP | 7440-47-3 | E444 | 1.28 mg/L | 1.25 mg/L | 102 | 50.0 | 140 | --- |
| | | Cobalt, TCLP | 7440-48-4 | E444 | ND | ---- | ND | 50.0 | 140 | --- |
| | | Copper, TCLP | 7440-50-8 | E444 | 2.46 mg/L | 2.5 mg/L | 98.6 | 50.0 | 140 | --- |
| | | Iron, TCLP | 7439-89-6 | E444 | 248 mg/L | 250 mg/L | 99.1 | 50.0 | 140 | --- |
| | | Lead, TCLP | 7439-92-1 | E444 | 10.2 mg/L | 10 mg/L | 102 | 50.0 | 140 | --- |
| | | Magnesium, TCLP | 7439-95-4 | E444 | 241 mg/L | 250 mg/L | 96.6 | 50.0 | 140 | --- |
| | | Nickel, TCLP | 7440-02-0 | E444 | 2.55 mg/L | 2.5 mg/L | 102 | 50.0 | 140 | --- |
| | | Selenium, TCLP | 7782-49-2 | E444 | 5.20 mg/L | 5 mg/L | 104 | 50.0 | 140 | --- |
| | | Silver, TCLP | 7440-22-4 | E444 | 0.105 mg/L | 0.1 mg/L | 105 | 50.0 | 140 | --- |
| | | Thallium, TCLP | 7440-28-0 | E444 | 5.2 mg/L | 5 mg/L | 104 | 50.0 | 140 | --- |
| | | Uranium, TCLP | 7440-61-1 | E444 | 5.18 mg/L | 5 mg/L | 104 | 50.0 | 150 | --- |
| | | Vanadium, TCLP | 7440-62-2 | E444 | 0.78 mg/L | 0.75 mg/L | 103 | 50.0 | 140 | --- |
| | | Zinc, TCLP | 7440-66-6 | E444 | ND | ---- | ND | 50.0 | 140 | --- |
| | | Zirconium, TCLP | 7440-67-7 | E444 | 0.9 mg/L | 1 mg/L | 89.6 | 50.0 | 150 | --- |

## 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: Soil**

| | | | | | Reference Material (RM) Report | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Spike | | Recovery (%) | Recovery Limits (%) | | |
| Laboratory sample ID | Client sample ID | Analyte | CAS Number | Method | Target Concentration | Original Result | LCS | Low | High | Qualifier |
| **Metals(QC Lot: 2405174)** | | | | | | | | | | |
| QC-MRG2-2405174001 | | Mercury | 7439-97-6 | E510 | 0.0675 mg/kg | 0.0675 mg/kg | | 70.0 | 130 | ---- |
| **Metals(QC Lot: 2405175)** | | | | | | | | | | |
| QC-MRG2-2405174001 | | Aluminum | 7429-90-5 | E440 | 22490 mg/kg | 22490 mg/kg | | 70.0 | 130 | ---- |
| | | Antimony | 7440-36-0 | E440 | 24.8 mg/kg | 24.8 mg/kg | | 70.0 | 130 | ---- |
| | | Arsenic | 7440-38-2 | E440 | 21.2 mg/kg | 21.2 mg/kg | | 70.0 | 130 | ---- |
| | | Barium | 7440-39-3 | E440 | 788 mg/kg | 788 mg/kg | | 70.0 | 130 | ---- |
| | | Beryllium | 7440-41-7 | E440 | 1.82 mg/kg | 1.82 mg/kg | | 70.0 | 130 | ---- |
| | | Bismuth | 7440-69-9 | E440 | 1.78 mg/kg | 1.78 mg/kg | | 70.0 | 130 | ---- |
| | | Cadmium | 7440-43-9 | E440 | 2.15 mg/kg | 2.15 mg/kg | | 70.0 | 130 | ---- |
| | | Calcium | 7440-70-2 | E440 | 4904 mg/kg | 4904 mg/kg | | 70.0 | 130 | ---- |
| | | Chromium | 7440-47-3 | E440 | 56.9 mg/kg | 56.9 mg/kg | | 70.0 | 130 | ---- |
| | | Cobalt | 7440-48-4 | E440 | 32 mg/kg | 32 mg/kg | | 70.0 | 130 | ---- |
| | | Copper | 7440-50-8 | E440 | 969 mg/kg | 969 mg/kg | | 70.0 | 130 | ---- |
| | | Iron | 7439-89-6 | E440 | 32740 mg/kg | 32740 mg/kg | | 70.0 | 130 | ---- |
| | | Lead | 7439-92-1 | E440 | 919 mg/kg | 919 mg/kg | | 70.0 | 130 | ---- |
| | | Lithium | 7439-93-2 | E440 | 47.3 mg/kg | 47.3 mg/kg | | 70.0 | 130 | ---- |
| | | Magnesium | 7439-95-4 | E440 | 7780 mg/kg | 7780 mg/kg | | 70.0 | 130 | ---- |
| | | Manganese | 7439-96-5 | E440 | 8639 mg/kg | 8639 mg/kg | | 70.0 | 130 | ---- |
| | | Molybdenum | 7439-98-7 | E440 | 25.1 mg/kg | 25.1 mg/kg | | 70.0 | 130 | ---- |
| | | Nickel | 7440-02-0 | E440 | 1004 mg/kg | 1004 mg/kg | | 70.0 | 130 | ---- |
| | | Phosphorus | 7723-14-0 | E440 | 660 mg/kg | 660 mg/kg | | 70.0 | 130 | ---- |
| | | Potassium | 7440-09-7 | E440 | 10820 mg/kg | 10820 mg/kg | | 70.0 | 130 | ---- |
| | | Selenium | 7782-49-2 | E440 | 1.04 mg/kg | 1.04 mg/kg | | 60.0 | 140 | ---- |

**Sub-Matrix: Soil**

| | | | | | Reference Material (RM) Report | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Spike | | Recovery (%) | Recovery Limits (%) | | |
| Laboratory sample ID | Client sample ID | Analyte | CAS Number | Method | Target Concentration | Original Result | LCS | Low | High | Qualifier |
| **Metals(QC Lot: 2405175)** | | | | | | | | | | |
| | | Silver | 7440-22-4 | E440 | 8.98 mg/kg | 8.98 mg/kg | | 70.0 | 130 | ---- |
| | | Sodium | 7440-23-5 | E440 | 1771 mg/kg | 1771 mg/kg | | 70.0 | 130 | ---- |
| | | Strontium | 7440-24-6 | E440 | 41 mg/kg | 41 mg/kg | | 70.0 | 130 | ---- |
| | | Sulfur | 7704-34-9 | E440 | 3935 mg/kg | 3935 mg/kg | | 50.0 | 150 | ---- |
| | | Thallium | 7440-28-0 | E440 | 0.907 mg/kg | 0.907 mg/kg | | 70.0 | 130 | ---- |
| | | Tin | 7440-31-5 | E440 | 3.79 mg/kg | 3.79 mg/kg | | 40.0 | 160 | ---- |
| | | Titanium | 7440-32-6 | E440 | 2786 mg/kg | 2786 mg/kg | | 70.0 | 130 | ---- |
| | | Tungsten | 7440-33-7 | E440 | 6.99 mg/kg | 6.99 mg/kg | | 70.0 | 130 | ---- |
| | | Uranium | 7440-61-1 | E440 | 3.97 mg/kg | 3.97 mg/kg | | 70.0 | 130 | ---- |
| | | Vanadium | 7440-62-2 | E440 | 66.2 mg/kg | 66.2 mg/kg | | 70.0 | 130 | ---- |
| | | Zinc | 7440-66-6 | E440 | 828 mg/kg | 828 mg/kg | | 70.0 | 130 | ---- |
| | | Zirconium | 7440-67-7 | E440 | 6.91 mg/kg | 6.91 mg/kg | | 70.0 | 130 | ---- |

ALS Environmental

# Chain of Custody / Analytical Request Form

**Canada Toll Free: 1 800 668 9878**

www.alsglobal.com

COC # _____

Page 1 of 1

| **Report To** | | **Report Format / Distribution** | | **Service Requested** (Rush for routine analysis subject to availability) |
|---|---|---|---|---|
| Company: | Veolia Canada / Burnaby Waste To Energy Facility | "Veolia Email Distribution List" please | | |
| Contact: | Brian Graham / Darcie Grace | | | |
| Address: | 5150 Riverbend Drive | Email 1: | Darcie.grace@veolia.com | |
| | Burnaby BC | Email 2: | lorenzo.ilao@veolia.com | |
| Phone: | 604-521-1025 Fax: | Email 3: | karen.thornquist@veolia.com | **Analysis Request** |
| | | | brent.kirkpatrick@metrovancouver.org | |
| | | | Sarah.Wellman@metrovancouver.org | |

| **Invoice To** | Same as Report ? Veolia Water Canada | **Client / Project Information** | | Please indicate below Filtered, Preserved or both (F, P, F/P) |
|---|---|---|---|---|
| Hardcopy of Invoice with Report? | | Job #: | Veolia Weekly Bottom Ash - Suite | |
| Company: | Veolia Water Canada / Burnaby Waste To Energy | PO / AFE: | PO# | |
| Contact: | Danny George, Purchaser/Darcie Grace, SHE Manager | LSD: | (includes 2:1 pH) | |
| Address: | 5150 Riverbend Drive, Burnaby BC V3N 4V3 | | | |
| Phone: | 604 521 1025 Fax: | Quote #: | | |

Lab Work Order # (lab use only): D4356

ALS Contact: | Sampler:

| Sample # | Sample Identification (This description will appear on the report) | Date (dd-mmm-yy) | Time (hh:mm) | Sample Type | MET-TCLP-VA (all metals, Hg) | MOISTURE | | Chrome 6 | | MET-CSR+FULL-VA (all metals) | | | | | | Number of Containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BA 2552-A-1 | 29 Dec 2025 | 12:00 | Soil | X | X | | | | X | | | | | | 1 |
| | BA 2552-A-2 | 29 Dec 2025 | 12:00 | Soil | X | X | | | | X | | | | | | 1 |
| | BA 2552-A-3 | 29 Dec 2025 | 12:00 | Soil | X | X | | | | X | | | | | | 1 |
| | BA 2552-A-4 | 29 Dec 2025 | 12:00 | Soil | X | X | | | | X | | | | | | 1 |
| | BA 2552-A-5 | 29 Dec 2025 | 12:00 | Soil | X | X | | | | X | | | | | | 1 |
| | BA 2552-A-6 | 29 Dec 2025 | 12:00 | Soil | X | X | | | | X | | | | | | 1 |
| | BA 2552-A-7 | 29 Dec 2025 | 12:00 | Soil | X | X | | | | X | | | | | | 1 |
| | BA 2552-A-8 | 29 Dec 2025 | 12:00 | Soil | X | X | | | | X | | | | | | 1 |
| | BA 2552-A-9 | 29 Dec 2025 | 12:00 | Soil | X | X | | | | X | | | | | | 1 |
| | BA 2552-A-10 | 29 Dec 2025 | 12:00 | Soil | X | X | | | | X | | | | | | 1 |
| | BA 2552-A-11 | 29 Dec 2025 | 12:00 | Soil | X | X | | | | X | | | | | | 1 |
| | BA 2552-A-12 | 29 Dec 2025 | 12:00 | Soil | X | X | | | | X | | | | | | 1 |

Environmental Division
Vancouver
Work Order Reference
VA25D4356

Telephone : +1 604 253 4188

**water Aquatic**

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**numbers and**

| T RELEASE (c | SHIPMENT RECEPTION (lab use only) | | | | | SHIPMENT VERIFICATION (lab use only) | | | |
|---|---|---|---|---|---|---|---|---|---|
| Released by: | Date (dd-mmm-yy) | Time (hh-mm) | Received by: | Date: | Time: | Temperature: | Verified by: | Date: | Time: | Observations: Yes / No ? If Yes add SIF |
| | 30/12/25 | 10:20 | | | | 18 °C | SB | 31/12/25 | 09:10AM | |

GENF 20.00 Front

# Bottom Ash Worksheet

| | |
|---|---|
| Date sample composited (DD/MM/YYYY) | 09/12/2025 |
| Person doing the sampling | Noah T |
| Total Sample Weight before processing, kg | 120.35 |
| Weight of Material >3/8", kg | 37.4 |
| Weight of Material that cannot be processed to <3/8" (metal, wood, etc), kg | 5 |
| Final Total weight of Processed Bottom Ash, kg | 78.05 |

DATE
Load #
Load time
H2O Total
Acid Total
Trailer #

Finish

Start

Time
# Tank level
H2O SP
Acid SP

Finished loading trailer

Started loading trailer
All flyash loading parameters are normal
All flyash loading parameters are normal
All flyash loading parameters are normal
All flyash loading parameters are normal
All flyash loading parameters are normal

Time

**Return this form with the filled Weekly Bottom Ash Composite Sample containers**

**Fill twelve bags with approximately 2000g of mixed bottom ash and label each with "Bottom Ash" and the week the ash composite is from, i.e. "June 9-15, 2019"**