

Bottom Ash Data

2025 Week 48

The following analytical report represents bottom ash composite results for week 48 of 2025 (November 23, 2025 to November 29, 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	: VA25D2184		
Client	: Veolia Environmental Services Canada	Laboratory	: ALS Environmental - Vancouver
Contact	: Brian Graham	Account Manager	: Gulraj Dhanaua
Address	: 5150 Riverbend Dr. Burnaby British Columbia Canada V3N 4V3	Address	: 8081 Lougheed Highway 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	: 02-Dec-2025 12:30
C-O-C number	: ----	Date Analysis Commenced	: 02-Dec-2025
Sampler	: ----	Issue Date	: 08-Dec-2025 08:56
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.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Kevin Duarte	Supervisor - Metals ICP Instrumentation	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).

<i>Unit</i>	<i>Description</i>
%	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.



Analytical Results

Sub-Matrix: Soil (Matrix: Soil/Solid)					Client sample ID				
					BA-2548-A-1 ----	BA-2548-A-2 ----	BA-2548-A-3 ----	BA-2548-A-4 ----	BA-2548-A-5 ----
Client sampling date / time					01-Dec-2025 12:00	01-Dec-2025 12:00	01-Dec-2025 12:00	01-Dec-2025 12:00	01-Dec-2025 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25D2184-001	VA25D2184-002	VA25D2184-003	VA25D2184-004	VA25D2184-005
					Result	Result	Result	Result	Result
Physical Tests									
Moisture	----	E144/VA	0.25	%	26.0	25.1	24.0	25.3	25.2
pH (1:2 soil:water)	----	E108/VA	0.10	pH units	11.66	11.51	11.81	11.46	11.66
Metals									
Aluminum	7429-90-5	E440/VA	50	mg/kg	37200	33100	32200	42600	61800
Antimony	7440-36-0	E440/VA	0.10	mg/kg	181	143	148	107	104
Arsenic	7440-38-2	E440/VA	0.10	mg/kg	22.6	17.3	17.8	12.5	12.6
Barium	7440-39-3	E440/VA	0.50	mg/kg	706	655	588	706	770
Beryllium	7440-41-7	E440/VA	0.10	mg/kg	0.44	0.43	0.46	0.39	0.41
Bismuth	7440-69-9	E440/VA	0.20	mg/kg	6.04	8.15	9.38	6.75	4.27
Boron	7440-42-8	E440/VA	5.0	mg/kg	351	329	173	153	239
Cadmium	7440-43-9	E440/VA	0.020	mg/kg	6.21	7.38	7.89	6.43	6.29
Calcium	7440-70-2	E440/VA	50	mg/kg	129000	132000	146000	110000	127000
Chromium	7440-47-3	E440/VA	0.50	mg/kg	169	512	254	134	176
Cobalt	7440-48-4	E440/VA	0.10	mg/kg	230	268	147	256	47.5
Copper	7440-50-8	E440/VA	0.50	mg/kg	3250	5610	5090	2410	3260
Iron	7439-89-6	E440/VA	50	mg/kg	57900	65900	74000	68500	64500
Lead	7439-92-1	E440/VA	0.50	mg/kg	1780	459	422	641	182
Lithium	7439-93-2	E440/VA	2.0	mg/kg	85.5	62.2	45.0	41.1	33.4
Magnesium	7439-95-4	E440/VA	20	mg/kg	11300	12400	12900	10900	12900
Manganese	7439-96-5	E440/VA	1.0	mg/kg	1730	1160	1100	2340	1000
Mercury	7439-97-6	E510/VA	0.0500	mg/kg	0.109	0.0935	0.113	0.0830	0.0557



Analytical Results

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

					Client sample ID	BA-2548-A-1	BA-2548-A-2	BA-2548-A-3	BA-2548-A-4	BA-2548-A-5
					Client sampling date / time	01-Dec-2025 12:00	01-Dec-2025 12:00	01-Dec-2025 12:00	01-Dec-2025 12:00	01-Dec-2025 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25D2184-001	VA25D2184-002	VA25D2184-003	VA25D2184-004	VA25D2184-005	
					Result	Result	Result	Result	Result	
Metals										
Molybdenum	7439-98-7	E440/VA	0.10	mg/kg	42.0	28.4	20.2	18.6	22.6	
Nickel	7440-02-0	E440/VA	0.50	mg/kg	430	766	286	710	208	
Phosphorus	7723-14-0	E440/VA	50	mg/kg	14300	12100	14500	9530	10100	
Potassium	7440-09-7	E440/VA	100	mg/kg	4340	3990	4310	3890	3870	
Selenium	7782-49-2	E440/VA	0.20	mg/kg	0.29	0.34	0.42	0.24	0.25	
Silver	7440-22-4	E440/VA	0.10	mg/kg	4.31	4.80	9.86	3.16	7.01	
Sodium	7440-23-5	E440/VA	50	mg/kg	13400	13300	13900	12000	15000	
Strontium	7440-24-6	E440/VA	0.50	mg/kg	364	358	340	287	310	
Sulfur	7704-34-9	E440/VA	1000	mg/kg	8400	8800	10400	7100	6900	
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	92.9	150	213	98.2	86.1	
Titanium	7440-32-6	E440/VA	1.0	mg/kg	277	332	252	424	567	
Tungsten	7440-33-7	E440/VA	0.50	mg/kg	22.3	22.3	18.7	15.0	13.0	
Uranium	7440-61-1	E440/VA	0.050	mg/kg	1.80	1.86	2.04	1.71	1.59	
Vanadium	7440-62-2	E440/VA	0.20	mg/kg	29.7	33.5	34.8	28.7	36.4	
Zinc	7440-66-6	E440/VA	2.0	mg/kg	2820	4840	5170	3570	2650	
Zirconium	7440-67-7	E440/VA	1.0	mg/kg	2.8	1.9	2.9	2.6	3.8	
TCLP Metals										
pH, TCLP 1st preliminary	----	EPP444/VA	0.010	pH units	11.81	11.78	11.76	11.80	11.71	
pH, TCLP 2nd preliminary	----	EPP444/VA	0.010	pH units	6.38	5.89	6.05	6.06	5.49	
pH, TCLP extraction fluid initial	----	EPP444/VA	0.010	pH units	2.83	2.83	2.83	2.83	2.83	



Analytical Results

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

					Client sample ID	BA-2548-A-1	BA-2548-A-2	BA-2548-A-3	BA-2548-A-4	BA-2548-A-5
					Client sampling date / time	01-Dec-2025 12:00	01-Dec-2025 12:00	01-Dec-2025 12:00	01-Dec-2025 12:00	01-Dec-2025 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25D2184-001	VA25D2184-002	VA25D2184-003	VA25D2184-004	VA25D2184-005	
					Result	Result	Result	Result	Result	
TCLP Metals										
pH, TCLP final	----	EPP444/VA	0.010	pH units	6.27	6.09	6.20	6.21	6.24	
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	1.74	1.82	2.01	2.16	1.77	
Cadmium, TCLP	7440-43-9	E444/VA	0.050	mg/L	0.096	0.066	0.143	0.061	0.064	
Calcium, TCLP	7440-70-2	E444/VA	10	mg/L	1700	1740	1880	1770	1680	
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	2.02	1.75	2.44	1.55	1.80	
Copper, TCLP	7440-50-8	E444/VA	0.050	mg/L	1.18	1.22	1.12	0.792	1.78	
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	123	131	140	129	130	
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	0.50	0.55	0.77	0.59	1.16	
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-2548-A-1 ----	BA-2548-A-2 ----	BA-2548-A-3 ----	BA-2548-A-4 ----	BA-2548-A-5 ----
					Client sampling date / time	01-Dec-2025 12:00	01-Dec-2025 12:00	01-Dec-2025 12:00	01-Dec-2025 12:00	01-Dec-2025 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25D2184-001	VA25D2184-002	VA25D2184-003	VA25D2184-004	VA25D2184-005	
					Result	Result	Result	Result	Result	
TCLP Metals										
Zinc, TCLP	7440-66-6	E444/VA	0.50	mg/L	40.0	29.0	23.7	28.6	29.2	
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-2548-A-6 ----	BA-2548-A-7 ----	BA-2548-A-8 ----	BA-2548-A-9 ----	BA-2548-A-10 ----
					Client sampling date / time	01-Dec-2025 12:00	01-Dec-2025 12:00	01-Dec-2025 12:00	01-Dec-2025 12:00	01-Dec-2025 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25D2184-006	VA25D2184-007	VA25D2184-008	VA25D2184-009	VA25D2184-010	
					Result	Result	Result	Result	Result	
Physical Tests										
Moisture	----	E144/VA	0.25	%	25.4	25.3	24.9	23.6	25.4	
pH (1:2 soil:water)	----	E108/VA	0.10	pH units	11.76	11.59	11.65	11.68	11.70	
Metals										
Aluminum	7429-90-5	E440/VA	50	mg/kg	36400	31200	37600	35400	47600	
Antimony	7440-36-0	E440/VA	0.10	mg/kg	106	134	140	180	103	
Arsenic	7440-38-2	E440/VA	0.10	mg/kg	14.6	19.0	18.0	14.8	12.5	
Barium	7440-39-3	E440/VA	0.50	mg/kg	611	670	665	698	644	
Beryllium	7440-41-7	E440/VA	0.10	mg/kg	0.43	0.42	0.43	0.45	0.42	
Bismuth	7440-69-9	E440/VA	0.20	mg/kg	12.5	6.18	10.1	5.51	4.77	
Boron	7440-42-8	E440/VA	5.0	mg/kg	240	177	207	187	175	
Cadmium	7440-43-9	E440/VA	0.020	mg/kg	5.04	7.67	5.63	4.35	4.14	
Calcium	7440-70-2	E440/VA	50	mg/kg	123000	128000	126000	126000	120000	



Analytical Results

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

					Client sample ID	BA-2548-A-6	BA-2548-A-7	BA-2548-A-8	BA-2548-A-9	BA-2548-A-10
					Client sampling date / time	01-Dec-2025 12:00	01-Dec-2025 12:00	01-Dec-2025 12:00	01-Dec-2025 12:00	01-Dec-2025 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25D2184-006	VA25D2184-007	VA25D2184-008	VA25D2184-009	VA25D2184-010	
					Result	Result	Result	Result	Result	
Metals										
Chromium	7440-47-3	E440/VA	0.50	mg/kg	423	1110	197	223	186	
Cobalt	7440-48-4	E440/VA	0.10	mg/kg	444	320	155	281	67.8	
Copper	7440-50-8	E440/VA	0.50	mg/kg	9280	7950	2030	24200	1150	
Iron	7439-89-6	E440/VA	50	mg/kg	58100	84000	60900	61900	54800	
Lead	7439-92-1	E440/VA	0.50	mg/kg	765	265	687	261	212	
Lithium	7439-93-2	E440/VA	2.0	mg/kg	53.4	46.1	57.3	40.5	31.5	
Magnesium	7439-95-4	E440/VA	20	mg/kg	11700	11800	11600	12000	10000	
Manganese	7439-96-5	E440/VA	1.0	mg/kg	888	1530	1250	894	1090	
Mercury	7439-97-6	E510/VA	0.0500	mg/kg	0.0640	0.123	0.0603	0.0610	<0.0500	
Molybdenum	7439-98-7	E440/VA	0.10	mg/kg	16.0	30.1	19.2	17.0	36.6	
Nickel	7440-02-0	E440/VA	0.50	mg/kg	373	1060	306	270	262	
Phosphorus	7723-14-0	E440/VA	50	mg/kg	11200	11000	10900	10700	9510	
Potassium	7440-09-7	E440/VA	100	mg/kg	3900	4070	4080	3830	4320	
Selenium	7782-49-2	E440/VA	0.20	mg/kg	0.26	0.32	0.27	0.37	0.25	
Silver	7440-22-4	E440/VA	0.10	mg/kg	4.26	4.72	5.53	9.14	3.78	
Sodium	7440-23-5	E440/VA	50	mg/kg	13300	12900	13500	13900	14200	
Strontium	7440-24-6	E440/VA	0.50	mg/kg	335	343	308	373	317	
Sulfur	7704-34-9	E440/VA	1000	mg/kg	7300	9100	8500	7300	7400	
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	141	114	136	75.4	64.2	
Titanium	7440-32-6	E440/VA	1.0	mg/kg	268	340	316	297	496	



Analytical Results

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

					Client sample ID	BA-2548-A-6 ----	BA-2548-A-7 ----	BA-2548-A-8 ----	BA-2548-A-9 ----	BA-2548-A-10 ----
					Client sampling date / time	01-Dec-2025 12:00	01-Dec-2025 12:00	01-Dec-2025 12:00	01-Dec-2025 12:00	01-Dec-2025 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25D2184-006	VA25D2184-007	VA25D2184-008	VA25D2184-009	VA25D2184-010	
					Result	Result	Result	Result	Result	
Metals										
Tungsten	7440-33-7	E440/VA	0.50	mg/kg	16.3	24.1	17.9	16.1	10.5	
Uranium	7440-61-1	E440/VA	0.050	mg/kg	1.59	1.83	1.96	1.62	1.81	
Vanadium	7440-62-2	E440/VA	0.20	mg/kg	31.6	37.2	37.7	33.4	34.6	
Zinc	7440-66-6	E440/VA	2.0	mg/kg	2780	3680	2940	3160	2780	
Zirconium	7440-67-7	E440/VA	1.0	mg/kg	2.4	2.0	2.3	1.9	2.7	
TCLP Metals										
pH, TCLP 1st preliminary	---	EPP444/VA	0.010	pH units	11.72	11.79	11.80	11.79	11.80	
pH, TCLP 2nd preliminary	---	EPP444/VA	0.010	pH units	5.73	6.73	7.23	6.88	7.09	
pH, TCLP extraction fluid initial	---	EPP444/VA	0.010	pH units	2.83	2.83	2.83	2.83	2.83	
pH, TCLP final	---	EPP444/VA	0.010	pH units	6.29	6.12	6.19	6.27	6.30	
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	1.75	1.73	1.80	1.90	1.85	
Cadmium, TCLP	7440-43-9	E444/VA	0.050	mg/L	0.093	0.120	0.059	0.081	0.089	
Calcium, TCLP	7440-70-2	E444/VA	10	mg/L	1730	1700	1750	1800	1810	
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	1.46	1.59	1.50	1.68	1.22	
Copper, TCLP	7440-50-8	E444/VA	0.050	mg/L	0.919	1.04	1.09	0.915	1.11	
Iron, TCLP	7439-89-6	E444/VA	5.0	mg/L	<5.0	<5.0	<5.0	<5.0	<5.0	



Analytical Results

					Client sample ID				
					BA-2548-A-6	BA-2548-A-7	BA-2548-A-8	BA-2548-A-9	BA-2548-A-10
					----	----	----	----	----
					Client sampling date / time				
					01-Dec-2025 12:00	01-Dec-2025 12:00	01-Dec-2025 12:00	01-Dec-2025 12:00	01-Dec-2025 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25D2184-006	VA25D2184-007	VA25D2184-008	VA25D2184-009	VA25D2184-010
					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	127	123	133	132	133
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	0.58	0.76	0.58	0.71	0.76
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	30.9	36.4	22.0	19.3	26.5
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

					Client sample ID				
					BA-2548-A-11	BA-2548-A-12	----	----	----
					----	----	----	----	----
					Client sampling date / time				
					01-Dec-2025 12:00	01-Dec-2025 12:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25D2184-011	VA25D2184-012	----	----	----
					Result	Result	----	----	----
Physical Tests									
Moisture	----	E144/VA	0.25	%	23.2	23.6	----	----	----
pH (1:2 soil:water)	----	E108/VA	0.10	pH units	11.80	11.76	----	----	----



Analytical Results

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

					Client sample ID	BA-2548-A-11	BA-2548-A-12	----	----	----
					Client sampling date / time	01-Dec-2025 12:00	01-Dec-2025 12:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25D2184-011	VA25D2184-012	----	----	----	
					Result	Result	----	----	----	
Metals										
Aluminum	7429-90-5	E440/VA	50	mg/kg	30600	36200	----	----	----	
Antimony	7440-36-0	E440/VA	0.10	mg/kg	133	237	----	----	----	
Arsenic	7440-38-2	E440/VA	0.10	mg/kg	17.1	14.1	----	----	----	
Barium	7440-39-3	E440/VA	0.50	mg/kg	651	662	----	----	----	
Beryllium	7440-41-7	E440/VA	0.10	mg/kg	0.38	0.40	----	----	----	
Bismuth	7440-69-9	E440/VA	0.20	mg/kg	4.62	5.38	----	----	----	
Boron	7440-42-8	E440/VA	5.0	mg/kg	193	202	----	----	----	
Cadmium	7440-43-9	E440/VA	0.020	mg/kg	4.95	5.66	----	----	----	
Calcium	7440-70-2	E440/VA	50	mg/kg	137000	123000	----	----	----	
Chromium	7440-47-3	E440/VA	0.50	mg/kg	178	548	----	----	----	
Cobalt	7440-48-4	E440/VA	0.10	mg/kg	106	68.0	----	----	----	
Copper	7440-50-8	E440/VA	0.50	mg/kg	3670	3700	----	----	----	
Iron	7439-89-6	E440/VA	50	mg/kg	83100	78100	----	----	----	
Lead	7439-92-1	E440/VA	0.50	mg/kg	397	299	----	----	----	
Lithium	7439-93-2	E440/VA	2.0	mg/kg	32.9	36.7	----	----	----	
Magnesium	7439-95-4	E440/VA	20	mg/kg	12000	11200	----	----	----	
Manganese	7439-96-5	E440/VA	1.0	mg/kg	1050	997	----	----	----	
Mercury	7439-97-6	E510/VA	0.0500	mg/kg	0.0791	0.103	----	----	----	
Molybdenum	7439-98-7	E440/VA	0.10	mg/kg	21.1	18.7	----	----	----	
Nickel	7440-02-0	E440/VA	0.50	mg/kg	247	919	----	----	----	
Phosphorus	7723-14-0	E440/VA	50	mg/kg	14800	11000	----	----	----	



Analytical Results

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

					Client sample ID	BA-2548-A-11	BA-2548-A-12	----	----	----
					Client sampling date / time	01-Dec-2025 12:00	01-Dec-2025 12:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25D2184-011	VA25D2184-012	----	----	----	
					Result	Result	----	----	----	
Metals										
Potassium	7440-09-7	E440/VA	100	mg/kg	4050	4020	----	----	----	
Selenium	7782-49-2	E440/VA	0.20	mg/kg	0.30	0.24	----	----	----	
Silver	7440-22-4	E440/VA	0.10	mg/kg	3.41	3.53	----	----	----	
Sodium	7440-23-5	E440/VA	50	mg/kg	14000	12900	----	----	----	
Strontium	7440-24-6	E440/VA	0.50	mg/kg	341	292	----	----	----	
Sulfur	7704-34-9	E440/VA	1000	mg/kg	7500	7700	----	----	----	
Thallium	7440-28-0	E440/VA	0.050	mg/kg	<0.050	0.058	----	----	----	
Tin	7440-31-5	E440/VA	2.0	mg/kg	108	1820	----	----	----	
Titanium	7440-32-6	E440/VA	1.0	mg/kg	280	297	----	----	----	
Tungsten	7440-33-7	E440/VA	0.50	mg/kg	19.4	15.7	----	----	----	
Uranium	7440-61-1	E440/VA	0.050	mg/kg	1.64	1.63	----	----	----	
Vanadium	7440-62-2	E440/VA	0.20	mg/kg	51.5	38.3	----	----	----	
Zinc	7440-66-6	E440/VA	2.0	mg/kg	2800	13700	----	----	----	
Zirconium	7440-67-7	E440/VA	1.0	mg/kg	2.3	2.7	----	----	----	
TCLP Metals										
pH, TCLP 1st preliminary	----	EPP444/VA	0.010	pH units	11.77	11.83	----	----	----	
pH, TCLP 2nd preliminary	----	EPP444/VA	0.010	pH units	6.45	7.54	----	----	----	
pH, TCLP extraction fluid initial	----	EPP444/VA	0.010	pH units	2.83	2.83	----	----	----	
pH, TCLP final	----	EPP444/VA	0.010	pH units	6.17	6.27	----	----	----	
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)

					Client sample ID	BA-2548-A-11	BA-2548-A-12	----	----	----
					Client sampling date / time	01-Dec-2025 12:00	01-Dec-2025 12:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25D2184-011	VA25D2184-012	----	----	----	
					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	1.82	1.87	----	----	----	
Cadmium, TCLP	7440-43-9	E444/VA	0.050	mg/L	0.074	0.097	----	----	----	
Calcium, TCLP	7440-70-2	E444/VA	10	mg/L	1720	1810	----	----	----	
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	2.69	3.81	----	----	----	
Copper, TCLP	7440-50-8	E444/VA	0.050	mg/L	1.44	1.23	----	----	----	
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	128	127	----	----	----	
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	0.98	1.25	----	----	----	
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	34.2	25.5	----	----	----	
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.



QUALITY CONTROL INTERPRETIVE REPORT

<p>Work Order : VA25D2184</p> <p>Client : Veolia Environmental Services Canada</p> <p>Contact : Brian Graham</p> <p>Address : 5150 Riverbend Dr. Burnaby BC Canada V3N 4V3</p> <p>Telephone : ----</p> <p>Project : Veolia Weekly Bottom Ash-Suite</p> <p>PO : 1000497676</p> <p>C-O-C number : ----</p> <p>Sampler : ----</p> <p>Site : Metro Van Ash Sampling Program</p> <p>Quote number : VA25-VIS1100-001</p> <p>No. of samples received : 12</p> <p>No. of samples analysed : 12</p>	<p>Page : 1 of 15</p> <p>Laboratory : ALS Environmental - Vancouver</p> <p>Account Manager : Gulraj Dhanaua</p> <p>Address : 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9</p> <p>Telephone : +1 604 253 4188</p> <p>Date Samples Received : 02-Dec-2025 12:30</p> <p>Issue Date : 08-Dec-2025 08:56</p>
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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		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag BA-2548-A-1	E510	01-Dec-2025	05-Dec-2025	28 days	4 days	✔	05-Dec-2025	28 days	0 days	✔	
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag BA-2548-A-10	E510	01-Dec-2025	05-Dec-2025	28 days	4 days	✔	05-Dec-2025	28 days	0 days	✔	
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag BA-2548-A-11	E510	01-Dec-2025	05-Dec-2025	28 days	4 days	✔	05-Dec-2025	28 days	0 days	✔	
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag BA-2548-A-12	E510	01-Dec-2025	05-Dec-2025	28 days	4 days	✔	05-Dec-2025	28 days	0 days	✔	
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag BA-2548-A-2	E510	01-Dec-2025	05-Dec-2025	28 days	4 days	✔	05-Dec-2025	28 days	0 days	✔	
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag BA-2548-A-3	E510	01-Dec-2025	05-Dec-2025	28 days	4 days	✔	05-Dec-2025	28 days	0 days	✔	
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag BA-2548-A-4	E510	01-Dec-2025	05-Dec-2025	28 days	4 days	✔	05-Dec-2025	28 days	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		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag BA-2548-A-5	E510	01-Dec-2025	05-Dec-2025	28 days	4 days	✔	05-Dec-2025	28 days	0 days	✔	
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag BA-2548-A-6	E510	01-Dec-2025	05-Dec-2025	28 days	4 days	✔	05-Dec-2025	28 days	0 days	✔	
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag BA-2548-A-7	E510	01-Dec-2025	05-Dec-2025	28 days	4 days	✔	05-Dec-2025	28 days	0 days	✔	
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag BA-2548-A-8	E510	01-Dec-2025	05-Dec-2025	28 days	4 days	✔	05-Dec-2025	28 days	0 days	✔	
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag BA-2548-A-9	E510	01-Dec-2025	05-Dec-2025	28 days	4 days	✔	05-Dec-2025	28 days	0 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA-2548-A-1	E440	01-Dec-2025	05-Dec-2025	180 days	4 days	✔	05-Dec-2025	180 days	4 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA-2548-A-10	E440	01-Dec-2025	05-Dec-2025	180 days	4 days	✔	05-Dec-2025	180 days	4 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA-2548-A-11	E440	01-Dec-2025	05-Dec-2025	180 days	4 days	✔	05-Dec-2025	180 days	4 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA-2548-A-12	E440	01-Dec-2025	05-Dec-2025	180 days	4 days	✔	05-Dec-2025	180 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		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA-2548-A-2	E440	01-Dec-2025	05-Dec-2025	180 days	4 days	✔	05-Dec-2025	180 days	4 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA-2548-A-3	E440	01-Dec-2025	05-Dec-2025	180 days	4 days	✔	05-Dec-2025	180 days	4 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA-2548-A-4	E440	01-Dec-2025	05-Dec-2025	180 days	4 days	✔	05-Dec-2025	180 days	4 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA-2548-A-5	E440	01-Dec-2025	05-Dec-2025	180 days	4 days	✔	05-Dec-2025	180 days	4 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA-2548-A-6	E440	01-Dec-2025	05-Dec-2025	180 days	4 days	✔	05-Dec-2025	180 days	4 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA-2548-A-7	E440	01-Dec-2025	05-Dec-2025	180 days	4 days	✔	05-Dec-2025	180 days	4 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA-2548-A-8	E440	01-Dec-2025	05-Dec-2025	180 days	4 days	✔	05-Dec-2025	180 days	4 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA-2548-A-9	E440	01-Dec-2025	05-Dec-2025	180 days	4 days	✔	05-Dec-2025	180 days	4 days	✔	
Physical Tests : Moisture Content by Gravimetry											
LDPE bag BA-2548-A-1	E144	01-Dec-2025	----	----	----		04-Dec-2025	----	----		



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 : Moisture Content by Gravimetry											
LDPE bag BA-2548-A-10	E144	01-Dec-2025	----	----	----		04-Dec-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag BA-2548-A-11	E144	01-Dec-2025	----	----	----		04-Dec-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag BA-2548-A-12	E144	01-Dec-2025	----	----	----		04-Dec-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag BA-2548-A-2	E144	01-Dec-2025	----	----	----		04-Dec-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag BA-2548-A-3	E144	01-Dec-2025	----	----	----		04-Dec-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag BA-2548-A-4	E144	01-Dec-2025	----	----	----		04-Dec-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag BA-2548-A-5	E144	01-Dec-2025	----	----	----		04-Dec-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag BA-2548-A-6	E144	01-Dec-2025	----	----	----		04-Dec-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag BA-2548-A-7	E144	01-Dec-2025	----	----	----		04-Dec-2025	----	----		



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 : Moisture Content by Gravimetry											
LDPE bag BA-2548-A-8	E144	01-Dec-2025	----	----	----		04-Dec-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag BA-2548-A-9	E144	01-Dec-2025	----	----	----		04-Dec-2025	----	----		
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA-2548-A-1	E108	01-Dec-2025	05-Dec-2025	30 days	4 days	✔	05-Dec-2025	30 days	4 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA-2548-A-10	E108	01-Dec-2025	05-Dec-2025	30 days	4 days	✔	05-Dec-2025	30 days	4 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA-2548-A-11	E108	01-Dec-2025	05-Dec-2025	30 days	4 days	✔	05-Dec-2025	30 days	4 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA-2548-A-12	E108	01-Dec-2025	05-Dec-2025	30 days	4 days	✔	05-Dec-2025	30 days	4 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA-2548-A-2	E108	01-Dec-2025	05-Dec-2025	30 days	4 days	✔	05-Dec-2025	30 days	4 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA-2548-A-3	E108	01-Dec-2025	05-Dec-2025	30 days	4 days	✔	05-Dec-2025	30 days	4 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA-2548-A-4	E108	01-Dec-2025	05-Dec-2025	30 days	4 days	✔	05-Dec-2025	30 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		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA-2548-A-5	E108	01-Dec-2025	05-Dec-2025	30 days	4 days	✔	05-Dec-2025	30 days	4 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA-2548-A-6	E108	01-Dec-2025	05-Dec-2025	30 days	4 days	✔	05-Dec-2025	30 days	4 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA-2548-A-7	E108	01-Dec-2025	05-Dec-2025	30 days	4 days	✔	05-Dec-2025	30 days	4 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA-2548-A-8	E108	01-Dec-2025	05-Dec-2025	30 days	4 days	✔	05-Dec-2025	30 days	4 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA-2548-A-9	E108	01-Dec-2025	05-Dec-2025	30 days	4 days	✔	05-Dec-2025	30 days	4 days	✔	
TCLP Metals : Mercury by CVAAS (TCLP)											
Glass vial - total (lab preserved) BA-2548-A-1	E512	02-Dec-2025	07-Dec-2025	29 days	6 days	✔	07-Dec-2025	29 days	6 days	✔	
TCLP Metals : Mercury by CVAAS (TCLP)											
Glass vial - total (lab preserved) BA-2548-A-2	E512	02-Dec-2025	07-Dec-2025	29 days	6 days	✔	07-Dec-2025	29 days	6 days	✔	
TCLP Metals : Mercury by CVAAS (TCLP)											
Glass vial - total (lab preserved) BA-2548-A-3	E512	02-Dec-2025	07-Dec-2025	29 days	6 days	✔	07-Dec-2025	29 days	6 days	✔	
TCLP Metals : Mercury by CVAAS (TCLP)											
Glass vial - total (lab preserved) BA-2548-A-4	E512	02-Dec-2025	07-Dec-2025	29 days	6 days	✔	07-Dec-2025	29 days	6 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 : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA-2548-A-5	E512	02-Dec-2025	07-Dec-2025	29 days	6 days	✔	07-Dec-2025	29 days	6 days	✔
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA-2548-A-6	E512	02-Dec-2025	07-Dec-2025	29 days	6 days	✔	07-Dec-2025	29 days	6 days	✔
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA-2548-A-10	E512	03-Dec-2025	07-Dec-2025	30 days	6 days	✔	07-Dec-2025	30 days	6 days	✔
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA-2548-A-11	E512	03-Dec-2025	07-Dec-2025	30 days	6 days	✔	07-Dec-2025	30 days	6 days	✔
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA-2548-A-12	E512	03-Dec-2025	07-Dec-2025	30 days	6 days	✔	07-Dec-2025	30 days	6 days	✔
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA-2548-A-7	E512	03-Dec-2025	07-Dec-2025	30 days	6 days	✔	07-Dec-2025	30 days	6 days	✔
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA-2548-A-8	E512	03-Dec-2025	07-Dec-2025	30 days	6 days	✔	07-Dec-2025	30 days	6 days	✔
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA-2548-A-9	E512	03-Dec-2025	07-Dec-2025	30 days	6 days	✔	07-Dec-2025	30 days	6 days	✔
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA-2548-A-1	E444	02-Dec-2025	07-Dec-2025	181 days	6 days	✔	08-Dec-2025	181 days	6 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-2548-A-2	E444	02-Dec-2025	07-Dec-2025	181 days	6 days	✔	08-Dec-2025	181 days	6 days	✔	
TCLP Metals : Metals by CRC ICPMS (TCLP)											
HDPE - total (lab preserved) BA-2548-A-3	E444	02-Dec-2025	07-Dec-2025	181 days	6 days	✔	08-Dec-2025	181 days	6 days	✔	
TCLP Metals : Metals by CRC ICPMS (TCLP)											
HDPE - total (lab preserved) BA-2548-A-4	E444	02-Dec-2025	07-Dec-2025	181 days	6 days	✔	08-Dec-2025	181 days	6 days	✔	
TCLP Metals : Metals by CRC ICPMS (TCLP)											
HDPE - total (lab preserved) BA-2548-A-5	E444	02-Dec-2025	07-Dec-2025	181 days	6 days	✔	08-Dec-2025	181 days	6 days	✔	
TCLP Metals : Metals by CRC ICPMS (TCLP)											
HDPE - total (lab preserved) BA-2548-A-6	E444	02-Dec-2025	07-Dec-2025	181 days	6 days	✔	08-Dec-2025	181 days	6 days	✔	
TCLP Metals : Metals by CRC ICPMS (TCLP)											
HDPE - total (lab preserved) BA-2548-A-10	E444	03-Dec-2025	07-Dec-2025	182 days	6 days	✔	08-Dec-2025	182 days	6 days	✔	
TCLP Metals : Metals by CRC ICPMS (TCLP)											
HDPE - total (lab preserved) BA-2548-A-11	E444	03-Dec-2025	07-Dec-2025	182 days	6 days	✔	08-Dec-2025	182 days	6 days	✔	
TCLP Metals : Metals by CRC ICPMS (TCLP)											
HDPE - total (lab preserved) BA-2548-A-12	E444	03-Dec-2025	07-Dec-2025	182 days	6 days	✔	08-Dec-2025	182 days	6 days	✔	
TCLP Metals : Metals by CRC ICPMS (TCLP)											
HDPE - total (lab preserved) BA-2548-A-7	E444	03-Dec-2025	07-Dec-2025	182 days	6 days	✔	08-Dec-2025	182 days	6 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-2548-A-8	E444	03-Dec-2025	07-Dec-2025	182 days	6 days	✔	08-Dec-2025	182 days	6 days	✔
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA-2548-A-9	E444	03-Dec-2025	07-Dec-2025	182 days	6 days	✔	08-Dec-2025	182 days	6 days	✔
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA-2548-A-1	EPP444	01-Dec-2025	02-Dec-2025	----	----		----	28 days	1 days	✔
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA-2548-A-2	EPP444	01-Dec-2025	02-Dec-2025	----	----		----	28 days	1 days	✔
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA-2548-A-3	EPP444	01-Dec-2025	02-Dec-2025	----	----		----	28 days	1 days	✔
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA-2548-A-4	EPP444	01-Dec-2025	02-Dec-2025	----	----		----	28 days	1 days	✔
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA-2548-A-5	EPP444	01-Dec-2025	02-Dec-2025	----	----		----	28 days	1 days	✔
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA-2548-A-6	EPP444	01-Dec-2025	02-Dec-2025	----	----		----	28 days	1 days	✔
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA-2548-A-10	EPP444	01-Dec-2025	03-Dec-2025	----	----		----	28 days	2 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 : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA-2548-A-11	EPP444	01-Dec-2025	03-Dec-2025	----	----		----	28 days	2 days	✔
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA-2548-A-12	EPP444	01-Dec-2025	03-Dec-2025	----	----		----	28 days	2 days	✔
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA-2548-A-7	EPP444	01-Dec-2025	03-Dec-2025	----	----		----	28 days	2 days	✔
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA-2548-A-8	EPP444	01-Dec-2025	03-Dec-2025	----	----		----	28 days	2 days	✔
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA-2548-A-9	EPP444	01-Dec-2025	03-Dec-2025	----	----		----	28 days	2 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	Method	QC Lot #	Count		Frequency (%)		
			QC	Regular	Actual	Expected	Evaluation
Analytical Methods							
Laboratory Duplicates (DUP)							
pH by Meter (1:2 Soil:Water Extraction)	E108	2369558	1	20	5.0	5.0	✔
Moisture Content by Gravimetry	E144	2369560	1	19	5.2	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2369556	1	20	5.0	5.0	✔
Metals by CRC ICPMS (TCLP)	E444	2374182	1	12	8.3	5.0	✔
Mercury in Soil/Solid by CVAAS	E510	2369557	1	15	6.6	5.0	✔
Mercury by CVAAS (TCLP)	E512	2374183	1	12	8.3	5.0	✔
Laboratory Control Samples (LCS)							
pH by Meter (1:2 Soil:Water Extraction)	E108	2369558	1	20	5.0	5.0	✔
Moisture Content by Gravimetry	E144	2369560	1	19	5.2	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2369556	2	20	10.0	10.0	✔
Mercury in Soil/Solid by CVAAS	E510	2369557	2	15	13.3	10.0	✔
Method Blanks (MB)							
Moisture Content by Gravimetry	E144	2369560	1	19	5.2	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2369556	1	20	5.0	5.0	✔
Metals by CRC ICPMS (TCLP)	E444	2374182	1	12	8.3	5.0	✔
Mercury in Soil/Solid by CVAAS	E510	2369557	1	15	6.6	5.0	✔
Mercury by CVAAS (TCLP)	E512	2374183	1	12	8.3	5.0	✔
Matrix Spikes (MS)							
Metals by CRC ICPMS (TCLP)	E444	2374182	1	12	8.3	5.0	✔
Mercury by CVAAS (TCLP)	E512	2374183	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 ALS Environmental - Vancouver	Soil/Solid	BC Lab Manual	pH is determined by potentiometric measurement with a pH electrode at ambient laboratory temperature (normally $20 \pm 5^{\circ}\text{C}$), and is carried out in accordance with procedures described in the BC Lab Manual (prescriptive method). The procedure involves mixing the dried (at $<60^{\circ}\text{C}$) 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 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 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 HNO_3 and HCl . Dependent on sample matrix, some metals may be only partially recovered, including Al, Ba, Be, Cr, Sr, Ti, Tl, V, W, and Zr. Silicate minerals are not solubilized. Volatile forms of sulfur (including sulfide) may not be captured, as they may be lost during sampling, storage, or digestion. This method does not adequately recover elemental sulfur, and is unsuitable for assessment of elemental sulfur standards or guidelines. Analysis is by Collision/Reaction Cell ICPMS.
Metals by CRC ICPMS (TCLP)	E444 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 ALS Environmental - Vancouver	Soil/Solid	EPA 200.2/1631 Appendix (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO_3 and HCl , followed by CVAAS analysis.
Mercury by CVAAS (TCLP)	E512 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 ALS Environmental - Vancouver	Soil/Solid	BC WLAP METHOD: PH, ELECTROMETRIC, SOIL	The procedure involves mixing the dried (at $<60^{\circ}\text{C}$) and sieved (No. 10 / 2mm) sample with deionized/distilled water at a 1:2 ratio of sediment to water.



<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Digestion for Metals and Mercury	EP440 ALS Environmental - Vancouver	Soil/Solid	EPA 200.2 (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO ₃ and HCl. This method is intended to liberate metals that may be environmentally available.
TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)	EPP444 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.

QUALITY CONTROL REPORT

Work Order	: VA25D2184	Page	: 1 of 11
Client	: Veolia Environmental Services Canada	Laboratory	: ALS Environmental - Vancouver
Contact	: Brian Graham	Account Manager	: Gulraj Dhanaua
Address	: 5150 Riverbend Dr. Burnaby BC Canada V3N 4V3	Address	: 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9
Telephone	: ----	Telephone	: +1 604 253 4188
Project	: Veolia Weekly Bottom Ash-Suite	Date Samples Received	: 02-Dec-2025 12:30
PO	: 1000497676	Date Analysis Commenced	: 02-Dec-2025
C-O-C number	: ----	Issue Date	: 08-Dec-2025 08:55
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
- Reference Material (RM) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

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

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Kevin Duarte	Supervisor - Metals ICP Instrumentation	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/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: 2369558)											
KS2504647-001	Anonymous	pH (1:2 soil:water)	----	E108	0.10	pH units	8.23	8.22	0.1%	5%	----
Physical Tests (QC Lot: 2369560)											
KS2504647-001	Anonymous	Moisture	----	E144	0.25	%	25.7	25.6	0.216%	20%	----
Metals (QC Lot: 2369556)											
KS2504647-001	Anonymous	Aluminum	7429-90-5	E440	50	mg/kg	20000	20700	3.61%	40%	----
		Antimony	7440-36-0	E440	0.10	mg/kg	0.39	0.44	0.06	Diff <2x LOR	----
		Arsenic	7440-38-2	E440	0.10	mg/kg	6.05	7.00	14.5%	30%	----
		Barium	7440-39-3	E440	0.50	mg/kg	174	187	7.08%	40%	----
		Beryllium	7440-41-7	E440	0.10	mg/kg	0.68	0.72	6.07%	30%	----
		Bismuth	7440-69-9	E440	0.20	mg/kg	0.26	0.27	0.01	Diff <2x LOR	----
		Boron	7440-42-8	E440	5.0	mg/kg	<5.0	<5.0	0	Diff <2x LOR	----
		Cadmium	7440-43-9	E440	0.020	mg/kg	0.370	0.350	5.74%	30%	----
		Calcium	7440-70-2	E440	50	mg/kg	31400	32500	3.23%	30%	----
		Chromium	7440-47-3	E440	0.50	mg/kg	42.1	42.4	0.786%	30%	----
		Cobalt	7440-48-4	E440	0.10	mg/kg	12.7	13.5	6.48%	30%	----
		Copper	7440-50-8	E440	0.50	mg/kg	36.0	37.4	3.84%	30%	----
		Iron	7439-89-6	E440	50	mg/kg	28700	30600	6.31%	30%	----
		Lead	7439-92-1	E440	0.50	mg/kg	13.2	12.0	9.63%	40%	----
		Lithium	7439-93-2	E440	2.0	mg/kg	23.6	22.9	3.03%	30%	----
		Magnesium	7439-95-4	E440	20	mg/kg	10800	11400	4.69%	30%	----
		Manganese	7439-96-5	E440	1.0	mg/kg	438	456	3.90%	30%	----
		Molybdenum	7439-98-7	E440	0.10	mg/kg	1.69	1.64	2.85%	40%	----
		Nickel	7440-02-0	E440	0.50	mg/kg	38.5	41.0	6.31%	30%	----
		Phosphorus	7723-14-0	E440	50	mg/kg	718	715	0.316%	30%	----
		Potassium	7440-09-7	E440	100	mg/kg	3900	4000	2.47%	40%	----
		Selenium	7782-49-2	E440	0.20	mg/kg	0.59	0.57	0.02	Diff <2x LOR	----
		Silver	7440-22-4	E440	0.10	mg/kg	0.19	0.18	0.007	Diff <2x LOR	----
		Sodium	7440-23-5	E440	50	mg/kg	343	365	6.27%	40%	----
		Strontium	7440-24-6	E440	0.50	mg/kg	130	133	2.62%	40%	----
		Sulfur	7704-34-9	E440	1000	mg/kg	<1000	<1000	0	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
Metals (QC Lot: 2369556) - continued											
KS2504647-001	Anonymous	Thallium	7440-28-0	E440	0.050	mg/kg	0.204	0.202	0.002	Diff <2x LOR	----
		Tin	7440-31-5	E440	2.0	mg/kg	<2.0	<2.0	0	Diff <2x LOR	----
		Titanium	7440-32-6	E440	1.0	mg/kg	883	949	7.27%	40%	----
		Tungsten	7440-33-7	E440	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----
		Uranium	7440-61-1	E440	0.050	mg/kg	1.83	1.98	7.81%	30%	----
		Vanadium	7440-62-2	E440	0.20	mg/kg	55.6	59.6	6.90%	30%	----
		Zinc	7440-66-6	E440	2.0	mg/kg	77.1	81.7	5.76%	30%	----
		Zirconium	7440-67-7	E440	1.0	mg/kg	4.5	5.0	0.5	Diff <2x LOR	----
Metals (QC Lot: 2369557)											
KS2504901-001	Anonymous	Mercury	7439-97-6	E510	0.0500	mg/kg	<0.0500	<0.0500	0	Diff <2x LOR	----
TCLP Metals (QC Lot: 2374182)											
VA25D2184-001	BA-2548-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	1.74	1.70	0.04	Diff <2x LOR	----
		Cadmium, TCLP	7440-43-9	E444	0.050	mg/L	0.096	0.092	0.004	Diff <2x LOR	----
		Calcium, TCLP	7440-70-2	E444	10	mg/L	1700	1660	2.42%	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	2.02	1.99	1.59%	30%	----
		Copper, TCLP	7440-50-8	E444	0.050	mg/L	1.18	1.16	1.40%	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	123	120	2.57%	30%	----
		Nickel, TCLP	7440-02-0	E444	0.25	mg/L	0.50	0.50	0.00008	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	40.0	40.2	0.461%	30%	----		
Zirconium, TCLP	7440-67-7	E444	10	mg/L	<10	<10	0	Diff <2x LOR	----		
TCLP Metals (QC Lot: 2374183)											
VA25D2184-001	BA-2548-A-1	Mercury, TCLP	7439-97-6	E512	0.0010	mg/L	<0.0010	<0.0010	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 (QCLot: 2369560)						
Moisture	---	E144	0.25	%	<0.25	---
Metals (QCLot: 2369556)						
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	---



Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 2369556) - continued						
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	----
Zinc	7440-66-6	E440	2	mg/kg	<2.0	----
Zirconium	7440-67-7	E440	1	mg/kg	<1.0	----
Metals (QCLot: 2369557)						
Mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	----
TCLP Metals (QCLot: 2374182)						
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	----
TCLP Metals (QCLot: 2374183)						
Mercury, TCLP	7439-97-6	E512	0.001	mg/L	<0.0010	----



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/Solid

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 2369558)									
pH (1:2 soil:water)	---	E108	---	pH units	6 pH units	100	95.0	105	---
Physical Tests (QCLot: 2369560)									
Moisture	---	E144	0.25	%	50 %	100	90.0	110	---
Metals (QCLot: 2369556)									
Aluminum	7429-90-5	E440	50	mg/kg	200 mg/kg	103	80.0	120	---
Antimony	7440-36-0	E440	0.1	mg/kg	100 mg/kg	102	80.0	120	---
Arsenic	7440-38-2	E440	0.1	mg/kg	100 mg/kg	105	80.0	120	---
Barium	7440-39-3	E440	0.5	mg/kg	25 mg/kg	105	80.0	120	---
Beryllium	7440-41-7	E440	0.1	mg/kg	10 mg/kg	109	80.0	120	---
Bismuth	7440-69-9	E440	0.2	mg/kg	100 mg/kg	98.5	80.0	120	---
Boron	7440-42-8	E440	5	mg/kg	100 mg/kg	104	80.0	120	---
Cadmium	7440-43-9	E440	0.02	mg/kg	10 mg/kg	100	80.0	120	---
Calcium	7440-70-2	E440	50	mg/kg	5000 mg/kg	106	80.0	120	---
Chromium	7440-47-3	E440	0.5	mg/kg	25 mg/kg	105	80.0	120	---
Cobalt	7440-48-4	E440	0.1	mg/kg	25 mg/kg	104	80.0	120	---
Copper	7440-50-8	E440	0.5	mg/kg	25 mg/kg	101	80.0	120	---
Iron	7439-89-6	E440	50	mg/kg	100 mg/kg	108	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	113	80.0	120	---
Magnesium	7439-95-4	E440	20	mg/kg	5000 mg/kg	106	80.0	120	---
Manganese	7439-96-5	E440	1	mg/kg	25 mg/kg	105	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	102	80.0	120	---
Phosphorus	7723-14-0	E440	50	mg/kg	1000 mg/kg	109	80.0	120	---
Potassium	7440-09-7	E440	100	mg/kg	5000 mg/kg	106	80.0	120	---
Selenium	7782-49-2	E440	0.2	mg/kg	100 mg/kg	100	80.0	120	---
Silver	7440-22-4	E440	0.1	mg/kg	10 mg/kg	94.8	80.0	120	---
Sodium	7440-23-5	E440	50	mg/kg	5000 mg/kg	107	80.0	120	---
Strontium	7440-24-6	E440	0.5	mg/kg	25 mg/kg	104	80.0	120	---
Sulfur	7704-34-9	E440	1000	mg/kg	5000 mg/kg	105	80.0	120	---
Thallium	7440-28-0	E440	0.05	mg/kg	100 mg/kg	99.9	80.0	120	---
Tin	7440-31-5	E440	2	mg/kg	50 mg/kg	102	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
Metals (QCLot: 2369556) - continued									
Titanium	7440-32-6	E440	1	mg/kg	25 mg/kg	106	80.0	120	----
Tungsten	7440-33-7	E440	0.5	mg/kg	10 mg/kg	103	80.0	120	----
Uranium	7440-61-1	E440	0.05	mg/kg	0.5 mg/kg	106	80.0	120	----
Vanadium	7440-62-2	E440	0.2	mg/kg	50 mg/kg	107	80.0	120	----
Zinc	7440-66-6	E440	2	mg/kg	50 mg/kg	103	80.0	120	----
Zirconium	7440-67-7	E440	1	mg/kg	10 mg/kg	101	80.0	120	----
Metals (QCLot: 2369557)									
Mercury	7439-97-6	E510	0.005	mg/kg	0.1 mg/kg	90.3	80.0	120	----



Matrix Spike (MS) Report

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

Sub-Matrix: 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
TCLP Metals (QCLot: 2374182)										
VA25D2184-001	BA-2548-A-1	Antimony, TCLP	7440-36-0	E444	4.23 mg/L	5 mg/L	84.6	50.0	140	----
		Arsenic, TCLP	7440-38-2	E444	4.1 mg/L	5 mg/L	82.4	50.0	140	----
		Barium, TCLP	7440-39-3	E444	11.3 mg/L	12.5 mg/L	90.3	50.0	140	----
		Beryllium, TCLP	7440-41-7	E444	0.218 mg/L	0.25 mg/L	87.3	50.0	140	----
		Boron, TCLP	7440-42-8	E444	8.34 mg/L	10 mg/L	83.4	50.0	140	----
		Cadmium, TCLP	7440-43-9	E444	0.207 mg/L	0.25 mg/L	82.8	50.0	140	----
		Calcium, TCLP	7440-70-2	E444	ND mg/L	----	ND	50.0	140	----
		Chromium, TCLP	7440-47-3	E444	1.02 mg/L	1.25 mg/L	81.3	50.0	140	----
		Cobalt, TCLP	7440-48-4	E444	ND mg/L	----	ND	50.0	140	----
		Copper, TCLP	7440-50-8	E444	1.98 mg/L	2.5 mg/L	79.1	50.0	140	----
		Iron, TCLP	7439-89-6	E444	203 mg/L	250 mg/L	81.2	50.0	140	----
		Lead, TCLP	7439-92-1	E444	7.98 mg/L	10 mg/L	79.8	50.0	140	----
		Magnesium, TCLP	7439-95-4	E444	213 mg/L	250 mg/L	85.2	50.0	140	----
		Nickel, TCLP	7440-02-0	E444	2.03 mg/L	2.5 mg/L	81.2	50.0	140	----
		Selenium, TCLP	7782-49-2	E444	4.10 mg/L	5 mg/L	82.0	50.0	140	----
		Silver, TCLP	7440-22-4	E444	0.080 mg/L	0.1 mg/L	79.6	50.0	140	----
		Thallium, TCLP	7440-28-0	E444	4.1 mg/L	5 mg/L	81.8	50.0	140	----
		Uranium, TCLP	7440-61-1	E444	4.02 mg/L	5 mg/L	80.4	50.0	150	----
		Vanadium, TCLP	7440-62-2	E444	0.63 mg/L	0.75 mg/L	84.3	50.0	140	----
		Zinc, TCLP	7440-66-6	E444	ND mg/L	----	ND	50.0	140	----
		Zirconium, TCLP	7440-67-7	E444	0.7 mg/L	1 mg/L	68.5	50.0	150	----
TCLP Metals (QCLot: 2374183)										
VA25D2184-001	BA-2548-A-1	Mercury, TCLP	7439-97-6	E512	0.0031 mg/L	0.003 mg/L	103	50.0	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:

Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Metals (QCLot: 2369556)									
QC-2369556-003	MRCA-21	Aluminum	7429-90-5	E440	22500 mg/kg	110	70.0	130	----
QC-2369556-003	MRCA-21	Antimony	7440-36-0	E440	24.8 mg/kg	104	70.0	130	----
QC-2369556-003	MRCA-21	Arsenic	7440-38-2	E440	21.2 mg/kg	104	70.0	130	----
QC-2369556-003	MRCA-21	Barium	7440-39-3	E440	788 mg/kg	103	70.0	130	----
QC-2369556-003	MRCA-21	Beryllium	7440-41-7	E440	1.82 mg/kg	118	70.0	130	----
QC-2369556-003	MRCA-21	Bismuth	7440-69-9	E440	1.78 mg/kg	103	70.0	130	----
QC-2369556-003	MRCA-21	Cadmium	7440-43-9	E440	2.15 mg/kg	104	70.0	130	----
QC-2369556-003	MRCA-21	Calcium	7440-70-2	E440	4900 mg/kg	111	70.0	130	----
QC-2369556-003	MRCA-21	Chromium	7440-47-3	E440	56.9 mg/kg	107	70.0	130	----
QC-2369556-003	MRCA-21	Cobalt	7440-48-4	E440	32 mg/kg	107	70.0	130	----
QC-2369556-003	MRCA-21	Copper	7440-50-8	E440	969 mg/kg	102	70.0	130	----
QC-2369556-003	MRCA-21	Iron	7439-89-6	E440	32700 mg/kg	110	70.0	130	----
QC-2369556-003	MRCA-21	Lead	7439-92-1	E440	919 mg/kg	101	70.0	130	----
QC-2369556-003	MRCA-21	Lithium	7439-93-2	E440	47.3 mg/kg	120	70.0	130	----
QC-2369556-003	MRCA-21	Magnesium	7439-95-4	E440	7780 mg/kg	107	70.0	130	----
QC-2369556-003	MRCA-21	Manganese	7439-96-5	E440	8640 mg/kg	105	70.0	130	----
QC-2369556-003	MRCA-21	Molybdenum	7439-98-7	E440	25.1 mg/kg	98.8	70.0	130	----
QC-2369556-003	MRCA-21	Nickel	7440-02-0	E440	1000 mg/kg	106	70.0	130	----
QC-2369556-003	MRCA-21	Phosphorus	7723-14-0	E440	660 mg/kg	107	70.0	130	----
QC-2369556-003	MRCA-21	Potassium	7440-09-7	E440	10800 mg/kg	104	70.0	130	----
QC-2369556-003	MRCA-21	Selenium	7782-49-2	E440	1.04 mg/kg	93.4	60.0	140	----
QC-2369556-003	MRCA-21	Silver	7440-22-4	E440	8.98 mg/kg	96.5	70.0	130	----
QC-2369556-003	MRCA-21	Sodium	7440-23-5	E440	1770 mg/kg	119	70.0	130	----
QC-2369556-003	MRCA-21	Strontium	7440-24-6	E440	41 mg/kg	103	70.0	130	----
QC-2369556-003	MRCA-21	Sulfur	7704-34-9	E440	3940 mg/kg	101	50.0	150	----
QC-2369556-003	MRCA-21	Thallium	7440-28-0	E440	0.907 mg/kg	105	70.0	130	----
QC-2369556-003	MRCA-21	Tin	7440-31-5	E440	3.79 mg/kg	105	40.0	160	----
QC-2369556-003	MRCA-21	Titanium	7440-32-6	E440	2790 mg/kg	113	70.0	130	----
QC-2369556-003	MRCA-21	Tungsten	7440-33-7	E440	6.99 mg/kg	118	70.0	130	----
QC-2369556-003	MRCA-21	Uranium	7440-61-1	E440	3.97 mg/kg	103	70.0	130	----
QC-2369556-003	MRCA-21	Vanadium	7440-62-2	E440	66.2 mg/kg	108	70.0	130	----
QC-2369556-003	MRCA-21	Zinc	7440-66-6	E440	828 mg/kg	106	70.0	130	----
QC-2369556-003	MRCA-21	Zirconium	7440-67-7	E440	6.91 mg/kg	102	70.0	130	----

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 Work Order : VA25D2184
 Client : Veolia Environmental Services Canada
 Project : Veolia Weekly Bottom Ash-Suite



Sub-Matrix:

Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Metals (QCLot: 2369557)									
QC-2369557-003	MRCA-21	Mercury	7439-97-6	E510	0.068 mg/kg	89.3	70.0	130	----

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 Burnaby BC	Email 1: Darcie.grace@veolia.com	
Phone: 604-521-1025 Fax:	Email 2: lorenzo.ilao@veolia.com	
	Email 3: karen.thomquist@veolia.com	
	brent.kirkpatrick@metrovancover.org	
	Sarah.Wellman@metrovancover.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) D		ALS Contact:	Sampler:																		
Sample #	Sample Identification (This description will appear on the report)	Date (dd-mm-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 2548-A-1	01/12/2025	12:00	Soil	X	X		X													1
	BA 2548-A-2	01/12/2025	12:00	Soil	X	X		X													1
	BA 2548-A-3	01/12/2025	12:00	Soil	X	X		X													1
	BA 2548-A-4	01/12/2025	12:00	Soil	X	X		X													1
	BA 2548-A-5	01/12/2025	12:00	Soil	X	X		X													1
	BA 2548-A-6	01/12/2025	12:00	Soil	X	X		X													1
	BA 2548-A-7	01/12/2025	12:00	Soil	X	X		X													1
	BA 2548-A-8	01/12/2025	12:00	Soil	X	X		X													1
	BA 2548-A-9	01/12/2025	12:00	Soil	X	X		X													1
	BA 2548-A-10	01/12/2025	12:00	Soil	X	X		X													1
	BA 2548-A-11	01/12/2025	12:00	Soil	X	X		X													1
	BA 2548-A-12	01/12/2025	12:00	Soil	X	X		X													1

Environmental Division
Vancouver
Work Order Reference
VA25D2184



Telephone: +1 604 253 4188

water Aquatic																				
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SHIPMENT RECEPTION (lab use only)					SHIPMENT VERIFICATION (lab use only)					
Released by: <i>[Signature]</i>	Date: 02/12/25	Time: 06:30	Received by:	Date:	Time:	Temperature: 16 °C	Verified by: <i>[Signature]</i>	Date: 2/12	Time: 12:30	Observations: Yes / No ? If Yes add SIF

EMS OPERATIONAL PROCEDURE No. BA2

Bottom Ash Sampling

Bottom Ash Worksheet

Date sample composited (DD/MM/YYYY)	DEC 01 / 25
Person doing the sampling	E. VEE
Total Sample Weight before processing, kg	72.7 lbs
Weight of Material > 3/8", kg	23.5 lbs
Weight of Material that cannot be processed to < 3/8" (metal, wood, etc), kg	10.25 lbs
Final Total weight of Processed Bottom Ash, kg	49.2 lbs

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"