

Bottom Ash Data

2025 Week 23

The following analytical report represents bottom ash composite results for week 23 of 2025 (June 1, 2025 to June 7, 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	: VA25B3952		
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	: ----	Date Samples Received	: 11-Jun-2025 12:45
C-O-C number	: ----	Date Analysis Commenced	: 14-Jun-2025
Sampler	: ----	Issue Date	: 18-Jun-2025 22:09
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>
Robert Nguyen		Metals, Burnaby, British Columbia
Robin Weeks		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 2523-A-1	BA 2523-A-2	BA 2523-A-3	BA 2523-A-4	BA 2523-A-5
Client sampling date / time					04-Jun-2025 09:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B3952-001	VA25B3952-002	VA25B3952-003	VA25B3952-004	VA25B3952-005
					Result	Result	Result	Result	Result
Physical Tests									
Moisture	----	E144/VA	0.25	%	21.7	22.8	20.1	21.3	21.8
pH (1:2 soil:water)	----	E108/VA	0.10	pH units	10.16	10.22	10.36	10.26	10.19
Metals									
Aluminum	7429-90-5	E440/VA	50	mg/kg	48600	59700	36900	53100	39400
Antimony	7440-36-0	E440/VA	0.10	mg/kg	102	86.1	95.3	93.1	166
Arsenic	7440-38-2	E440/VA	0.10	mg/kg	24.2	16.8	19.5	17.6	25.8
Barium	7440-39-3	E440/VA	0.50	mg/kg	538	732	576	600	654
Beryllium	7440-41-7	E440/VA	0.10	mg/kg	0.42	0.37	0.33	0.36	0.36
Bismuth	7440-69-9	E440/VA	0.20	mg/kg	8.02	9.36	7.42	7.75	9.91
Boron	7440-42-8	E440/VA	5.0	mg/kg	208	141	186	198	168
Cadmium	7440-43-9	E440/VA	0.020	mg/kg	5.59	5.46	5.97	7.32	6.00
Calcium	7440-70-2	E440/VA	50	mg/kg	135000	118000	125000	122000	137000
Chromium	7440-47-3	E440/VA	0.50	mg/kg	148	219	171	204	160
Cobalt	7440-48-4	E440/VA	0.10	mg/kg	205	56.6	46.8	54.6	92.8
Copper	7440-50-8	E440/VA	0.50	mg/kg	1080	1000	2280	5490	5150
Iron	7439-89-6	E440/VA	50	mg/kg	37300	50900	58100	62400	56900
Lead	7439-92-1	E440/VA	0.50	mg/kg	288	1180	310	364	1160
Lithium	7439-93-2	E440/VA	2.0	mg/kg	41.9	26.0	28.0	28.1	29.1
Magnesium	7439-95-4	E440/VA	20	mg/kg	11600	11600	11700	11400	12300
Manganese	7439-96-5	E440/VA	1.0	mg/kg	742	2040	740	768	753
Mercury	7439-97-6	E510/VA	0.0500	mg/kg	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500



Analytical Results

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

					Client sample ID	BA 2523-A-1	BA 2523-A-2	BA 2523-A-3	BA 2523-A-4	BA 2523-A-5
					Client sampling date / time	04-Jun-2025 09:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B3952-001	VA25B3952-002	VA25B3952-003	VA25B3952-004	VA25B3952-005	
					Result	Result	Result	Result	Result	
Metals										
Molybdenum	7439-98-7	E440/VA	0.10	mg/kg	22.3	17.0	27.4	16.9	17.6	
Nickel	7440-02-0	E440/VA	0.50	mg/kg	235	229	156	161	182	
Phosphorus	7723-14-0	E440/VA	50	mg/kg	13600	9990	11500	11300	13500	
Potassium	7440-09-7	E440/VA	100	mg/kg	5970	5820	5810	5380	5680	
Selenium	7782-49-2	E440/VA	0.20	mg/kg	0.34	0.35	0.36	0.35	0.43	
Silver	7440-22-4	E440/VA	0.10	mg/kg	4.42	4.69	4.31	5.21	5.96	
Sodium	7440-23-5	E440/VA	50	mg/kg	16300	15800	15600	17200	16100	
Strontium	7440-24-6	E440/VA	0.50	mg/kg	296	293	272	770	292	
Sulfur	7704-34-9	E440/VA	1000	mg/kg	10700	10000	10200	9900	11200	
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	308	77.0	89.5	91.2	134	
Titanium	7440-32-6	E440/VA	1.0	mg/kg	269	639	217	315	246	
Tungsten	7440-33-7	E440/VA	0.50	mg/kg	11.2	7.72	8.70	8.24	10.4	
Uranium	7440-61-1	E440/VA	0.050	mg/kg	2.57	2.18	2.05	2.42	2.01	
Vanadium	7440-62-2	E440/VA	0.20	mg/kg	36.2	42.7	38.1	45.8	39.9	
Zinc	7440-66-6	E440/VA	2.0	mg/kg	2710	4330	3540	3720	3160	
Zirconium	7440-67-7	E440/VA	1.0	mg/kg	6.2	3.3	3.3	3.5	2.3	
TCLP Metals										
pH, TCLP 1st preliminary	----	EPP444/VA	0.010	pH units	11.26	11.24	11.25	11.27	11.20	
pH, TCLP 2nd preliminary	----	EPP444/VA	0.010	pH units	2.67	2.97	2.81	2.96	2.89	
pH, TCLP extraction fluid initial	----	EPP444/VA	0.010	pH units	4.90	4.90	4.90	4.90	4.90	



Analytical Results

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

					Client sample ID	BA 2523-A-1	BA 2523-A-2	BA 2523-A-3	BA 2523-A-4	BA 2523-A-5
					Client sampling date / time	04-Jun-2025 09:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B3952-001	VA25B3952-002	VA25B3952-003	VA25B3952-004	VA25B3952-005	
					Result	Result	Result	Result	Result	
TCLP Metals										
pH, TCLP final	----	EPP444/VA	0.010	pH units	7.26	8.72	9.22	9.06	9.15	
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	1.00	1.04	0.87	1.07	0.91	
Cadmium, TCLP	7440-43-9	E444/VA	0.050	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	
Calcium, TCLP	7440-70-2	E444/VA	10	mg/L	998	980	834	1020	843	
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	<0.050	<0.050	<0.050	<0.050	<0.050	
Copper, TCLP	7440-50-8	E444/VA	0.050	mg/L	0.740	0.695	0.782	0.722	0.725	
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	25.8	28.7	9.6	26.5	14.6	
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	<0.25	<0.25	<0.25	<0.25	<0.25	
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

					Client sample ID				
					BA 2523-A-1	BA 2523-A-2	BA 2523-A-3	BA 2523-A-4	BA 2523-A-5
					Client sampling date / time				
					04-Jun-2025 09:00	04-Jun-2025 09:00	04-Jun-2025 09:00	04-Jun-2025 09:00	04-Jun-2025 09:00
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B3952-001	VA25B3952-002	VA25B3952-003	VA25B3952-004	VA25B3952-005
					Result	Result	Result	Result	Result
TCLP Metals									
Zinc, TCLP	7440-66-6	E444/VA	0.50	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50
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 2523-A-6	BA 2523-A-7	BA 2523-A-8	BA 2523-A-9	BA 2523-A-10
					Client sampling date / time				
					04-Jun-2025 09:00	04-Jun-2025 09:00	04-Jun-2025 09:00	04-Jun-2025 09:00	04-Jun-2025 09:00
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B3952-006	VA25B3952-007	VA25B3952-008	VA25B3952-009	VA25B3952-010
					Result	Result	Result	Result	Result
Physical Tests									
Moisture	----	E144/VA	0.25	%	22.8	22.4	23.2	22.2	23.3
pH (1:2 soil:water)	----	E108/VA	0.10	pH units	10.25	10.22	10.14	10.33	10.27
Metals									
Aluminum	7429-90-5	E440/VA	50	mg/kg	37900	45200	41200	46800	30100
Antimony	7440-36-0	E440/VA	0.10	mg/kg	103	99.8	101	111	93.2
Arsenic	7440-38-2	E440/VA	0.10	mg/kg	15.7	20.1	17.9	26.0	18.3
Barium	7440-39-3	E440/VA	0.50	mg/kg	696	591	748	485	522
Beryllium	7440-41-7	E440/VA	0.10	mg/kg	0.40	0.33	0.36	0.37	0.31
Bismuth	7440-69-9	E440/VA	0.20	mg/kg	7.68	7.77	7.90	20.9	6.90
Boron	7440-42-8	E440/VA	5.0	mg/kg	164	238	184	155	198
Cadmium	7440-43-9	E440/VA	0.020	mg/kg	5.62	23.8	6.41	6.96	7.43
Calcium	7440-70-2	E440/VA	50	mg/kg	133000	128000	120000	133000	130000



Analytical Results

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

					Client sample ID	BA 2523-A-6	BA 2523-A-7	BA 2523-A-8	BA 2523-A-9	BA 2523-A-10
					Client sampling date / time	04-Jun-2025 09:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B3952-006	VA25B3952-007	VA25B3952-008	VA25B3952-009	VA25B3952-010	
					Result	Result	Result	Result	Result	
Metals										
Chromium	7440-47-3	E440/VA	0.50	mg/kg	122	151	132	174	156	
Cobalt	7440-48-4	E440/VA	0.10	mg/kg	54.4	560	29.2	183	52.2	
Copper	7440-50-8	E440/VA	0.50	mg/kg	1140	3310	5170	1470	10200	
Iron	7439-89-6	E440/VA	50	mg/kg	38900	70400	65000	48200	46200	
Lead	7439-92-1	E440/VA	0.50	mg/kg	255	284	438	390	303	
Lithium	7439-93-2	E440/VA	2.0	mg/kg	26.8	102	22.8	28.1	23.8	
Magnesium	7439-95-4	E440/VA	20	mg/kg	13400	13600	11900	13200	12000	
Manganese	7439-96-5	E440/VA	1.0	mg/kg	565	926	614	1900	719	
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	18.2	17.3	16.1	19.0	19.6	
Nickel	7440-02-0	E440/VA	0.50	mg/kg	148	503	178	177	163	
Phosphorus	7723-14-0	E440/VA	50	mg/kg	9780	10900	10400	13300	13300	
Potassium	7440-09-7	E440/VA	100	mg/kg	5650	5540	5430	6110	5420	
Selenium	7782-49-2	E440/VA	0.20	mg/kg	0.28	0.40	0.38	0.39	0.48	
Silver	7440-22-4	E440/VA	0.10	mg/kg	4.06	4.85	3.40	5.07	4.53	
Sodium	7440-23-5	E440/VA	50	mg/kg	16100	15500	16400	17400	16300	
Strontium	7440-24-6	E440/VA	0.50	mg/kg	275	258	246	254	296	
Sulfur	7704-34-9	E440/VA	1000	mg/kg	8600	11900	10200	12700	13300	
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	83.0	128	116	94.1	94.7	
Titanium	7440-32-6	E440/VA	1.0	mg/kg	348	313	354	328	236	



Analytical Results

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

					Client sample ID	BA 2523-A-6	BA 2523-A-7	BA 2523-A-8	BA 2523-A-9	BA 2523-A-10
					Client sampling date / time	04-Jun-2025 09:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B3952-006	VA25B3952-007	VA25B3952-008	VA25B3952-009	VA25B3952-010	
					Result	Result	Result	Result	Result	
Metals										
Tungsten	7440-33-7	E440/VA	0.50	mg/kg	10.7	8.88	9.30	10.7	11.5	
Uranium	7440-61-1	E440/VA	0.050	mg/kg	2.00	1.85	1.78	2.60	1.90	
Vanadium	7440-62-2	E440/VA	0.20	mg/kg	32.9	35.1	33.6	42.1	38.1	
Zinc	7440-66-6	E440/VA	2.0	mg/kg	3420	5270	3000	3350	2860	
Zirconium	7440-67-7	E440/VA	1.0	mg/kg	2.2	3.0	2.7	4.8	2.7	
TCLP Metals										
pH, TCLP 1st preliminary	---	EPP444/VA	0.010	pH units	11.18	11.19	11.20	11.21	11.21	
pH, TCLP 2nd preliminary	---	EPP444/VA	0.010	pH units	2.88	2.79	2.77	3.06	3.05	
pH, TCLP extraction fluid initial	---	EPP444/VA	0.010	pH units	4.90	4.90	4.90	4.90	4.90	
pH, TCLP final	---	EPP444/VA	0.010	pH units	9.10	8.78	9.14	9.18	8.87	
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	0.92	1.16	0.91	0.90	1.11	
Cadmium, TCLP	7440-43-9	E444/VA	0.050	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	
Calcium, TCLP	7440-70-2	E444/VA	10	mg/L	848	1060	863	853	1030	
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	<0.050	<0.050	<0.050	<0.050	<0.050	
Copper, TCLP	7440-50-8	E444/VA	0.050	mg/L	0.686	0.685	0.742	0.725	0.730	
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)

					Client sample ID	BA 2523-A-6	BA 2523-A-7	BA 2523-A-8	BA 2523-A-9	BA 2523-A-10
					Client sampling date / time	04-Jun-2025 09:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B3952-006	VA25B3952-007	VA25B3952-008	VA25B3952-009	VA25B3952-010	
					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	13.8	28.6	13.3	13.7	30.2	
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	<0.25	<0.25	<0.25	<0.25	<0.25	
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	<0.50	<0.50	<0.50	<0.50	<0.50	
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 2523-A-11	BA 2523-A-12	----	----	----
					Client sampling date / time	04-Jun-2025 09:00	04-Jun-2025 09:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B3952-011	VA25B3952-012	----	----	----	
					Result	Result	----	----	----	
Physical Tests										
Moisture	----	E144/VA	0.25	%	22.3	22.9	----	----	----	
pH (1:2 soil:water)	----	E108/VA	0.10	pH units	10.24	10.38	----	----	----	



Analytical Results

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

					Client sample ID	BA 2523-A-11	BA 2523-A-12	----	----	----
					Client sampling date / time	04-Jun-2025 09:00	04-Jun-2025 09:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B3952-011	VA25B3952-012	----	----	----	
					Result	Result	----	----	----	
Metals										
Aluminum	7429-90-5	E440/VA	50	mg/kg	39200	53300	----	----	----	
Antimony	7440-36-0	E440/VA	0.10	mg/kg	94.5	118	----	----	----	
Arsenic	7440-38-2	E440/VA	0.10	mg/kg	21.6	16.8	----	----	----	
Barium	7440-39-3	E440/VA	0.50	mg/kg	709	640	----	----	----	
Beryllium	7440-41-7	E440/VA	0.10	mg/kg	0.35	0.34	----	----	----	
Bismuth	7440-69-9	E440/VA	0.20	mg/kg	8.94	7.54	----	----	----	
Boron	7440-42-8	E440/VA	5.0	mg/kg	152	193	----	----	----	
Cadmium	7440-43-9	E440/VA	0.020	mg/kg	365	6.18	----	----	----	
Calcium	7440-70-2	E440/VA	50	mg/kg	135000	124000	----	----	----	
Chromium	7440-47-3	E440/VA	0.50	mg/kg	253	302	----	----	----	
Cobalt	7440-48-4	E440/VA	0.10	mg/kg	518	53.0	----	----	----	
Copper	7440-50-8	E440/VA	0.50	mg/kg	2000	2220	----	----	----	
Iron	7439-89-6	E440/VA	50	mg/kg	63700	47800	----	----	----	
Lead	7439-92-1	E440/VA	0.50	mg/kg	644	478	----	----	----	
Lithium	7439-93-2	E440/VA	2.0	mg/kg	44.9	41.0	----	----	----	
Magnesium	7439-95-4	E440/VA	20	mg/kg	13000	12300	----	----	----	
Manganese	7439-96-5	E440/VA	1.0	mg/kg	1260	874	----	----	----	
Mercury	7439-97-6	E510/VA	0.0500	mg/kg	<0.0500	0.0601	----	----	----	
Molybdenum	7439-98-7	E440/VA	0.10	mg/kg	24.3	26.9	----	----	----	
Nickel	7440-02-0	E440/VA	0.50	mg/kg	260	394	----	----	----	
Phosphorus	7723-14-0	E440/VA	50	mg/kg	11400	11000	----	----	----	



Analytical Results

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

					Client sample ID	BA 2523-A-11	BA 2523-A-12	----	----	----
					Client sampling date / time	04-Jun-2025 09:00	04-Jun-2025 09:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B3952-011	VA25B3952-012	----	----	----	
					Result	Result	----	----	----	
Metals										
Potassium	7440-09-7	E440/VA	100	mg/kg	5540	6190	----	----	----	
Selenium	7782-49-2	E440/VA	0.20	mg/kg	0.47	0.33	----	----	----	
Silver	7440-22-4	E440/VA	0.10	mg/kg	12.5	3.52	----	----	----	
Sodium	7440-23-5	E440/VA	50	mg/kg	16300	17100	----	----	----	
Strontium	7440-24-6	E440/VA	0.50	mg/kg	275	262	----	----	----	
Sulfur	7704-34-9	E440/VA	1000	mg/kg	10400	10500	----	----	----	
Thallium	7440-28-0	E440/VA	0.050	mg/kg	<0.050	<0.050	----	----	----	
Tin	7440-31-5	E440/VA	2.0	mg/kg	107	91.2	----	----	----	
Titanium	7440-32-6	E440/VA	1.0	mg/kg	254	438	----	----	----	
Tungsten	7440-33-7	E440/VA	0.50	mg/kg	8.58	7.52	----	----	----	
Uranium	7440-61-1	E440/VA	0.050	mg/kg	2.47	2.10	----	----	----	
Vanadium	7440-62-2	E440/VA	0.20	mg/kg	40.2	37.7	----	----	----	
Zinc	7440-66-6	E440/VA	2.0	mg/kg	4020	4310	----	----	----	
Zirconium	7440-67-7	E440/VA	1.0	mg/kg	3.1	4.4	----	----	----	
TCLP Metals										
pH, TCLP 1st preliminary	----	EPP444/VA	0.010	pH units	11.22	11.28	----	----	----	
pH, TCLP 2nd preliminary	----	EPP444/VA	0.010	pH units	3.05	2.94	----	----	----	
pH, TCLP extraction fluid initial	----	EPP444/VA	0.010	pH units	4.90	4.90	----	----	----	
pH, TCLP final	----	EPP444/VA	0.010	pH units	9.15	9.20	----	----	----	
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 2523-A-11	BA 2523-A-12	----	----	----
					Client sampling date / time	04-Jun-2025 09:00	04-Jun-2025 09:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B3952-011	VA25B3952-012	----	----	----	
					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	0.92	0.88	----	----	----	
Cadmium, TCLP	7440-43-9	E444/VA	0.050	mg/L	<0.050	<0.050	----	----	----	
Calcium, TCLP	7440-70-2	E444/VA	10	mg/L	867	848	----	----	----	
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	<0.050	<0.050	----	----	----	
Copper, TCLP	7440-50-8	E444/VA	0.050	mg/L	0.760	0.765	----	----	----	
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	13.4	11.6	----	----	----	
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	<0.25	<0.25	----	----	----	
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	<0.50	<0.50	----	----	----	
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 : VA25B3952</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 : ----</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 16</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 : 11-Jun-2025 12:45</p> <p>Issue Date : 18-Jun-2025 22:09</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 Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- Duplicate outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: Soil/Solid

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Duplicate (DUP) RPDs								
Metals	VA25B3952-001	BA 2523-A-1	Cobalt	7440-48-4	E440	115 % ^{DUP-H}	30%	Duplicate RPD does not meet the DQO for this test.
Metals	VA25B3952-001	BA 2523-A-1	Lithium	7439-93-2	E440	40.5 % ^{DUP-H}	30%	Duplicate RPD does not meet the DQO for this test.
Metals	VA25B3952-001	BA 2523-A-1	Manganese	7439-96-5	E440	49.7 % ^{DUP-H}	30%	Duplicate RPD does not meet the DQO for this test.
Metals	VA25B3952-001	BA 2523-A-1	Nickel	7440-02-0	E440	47.4 % ^{DUP-H}	30%	Duplicate RPD does not meet the DQO for this test.
Metals	VA25B3952-001	BA 2523-A-1	Tin	7440-31-5	E440	102 % ^{DUP-H}	40%	Duplicate RPD does not meet the DQO for this test.
Metals	VA25B3952-001	BA 2523-A-1	Zirconium	7440-67-7	E440	3.8 % ^{DUP-H, J}	Diff <2x LOR	Low Level DUP DQO exceeded (difference > 2 LOR).

Result Qualifiers

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



Analysis Holding Time Compliance

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

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

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

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

Matrix: **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 2523-A-1	E510	04-Jun-2025	18-Jun-2025	28 days	14 days	✔	18-Jun-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2523-A-10	E510	04-Jun-2025	18-Jun-2025	28 days	14 days	✔	18-Jun-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2523-A-11	E510	04-Jun-2025	18-Jun-2025	28 days	14 days	✔	18-Jun-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2523-A-12	E510	04-Jun-2025	18-Jun-2025	28 days	14 days	✔	18-Jun-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2523-A-2	E510	04-Jun-2025	18-Jun-2025	28 days	14 days	✔	18-Jun-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2523-A-3	E510	04-Jun-2025	18-Jun-2025	28 days	14 days	✔	18-Jun-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2523-A-4	E510	04-Jun-2025	18-Jun-2025	28 days	14 days	✔	18-Jun-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 2523-A-5	E510	04-Jun-2025	18-Jun-2025	28 days	14 days	✓	18-Jun-2025	28 days	0 days	✓	
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag BA 2523-A-6	E510	04-Jun-2025	18-Jun-2025	28 days	14 days	✓	18-Jun-2025	28 days	0 days	✓	
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag BA 2523-A-7	E510	04-Jun-2025	18-Jun-2025	28 days	14 days	✓	18-Jun-2025	28 days	0 days	✓	
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag BA 2523-A-8	E510	04-Jun-2025	18-Jun-2025	28 days	14 days	✓	18-Jun-2025	28 days	0 days	✓	
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag BA 2523-A-9	E510	04-Jun-2025	18-Jun-2025	28 days	14 days	✓	18-Jun-2025	28 days	0 days	✓	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA 2523-A-1	E440	04-Jun-2025	18-Jun-2025	180 days	14 days	✓	18-Jun-2025	180 days	14 days	✓	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA 2523-A-10	E440	04-Jun-2025	18-Jun-2025	180 days	14 days	✓	18-Jun-2025	180 days	14 days	✓	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA 2523-A-11	E440	04-Jun-2025	18-Jun-2025	180 days	14 days	✓	18-Jun-2025	180 days	14 days	✓	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA 2523-A-12	E440	04-Jun-2025	18-Jun-2025	180 days	14 days	✓	18-Jun-2025	180 days	14 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 2523-A-2	E440	04-Jun-2025	18-Jun-2025	180 days	14 days	✓	18-Jun-2025	180 days	14 days	✓	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA 2523-A-3	E440	04-Jun-2025	18-Jun-2025	180 days	14 days	✓	18-Jun-2025	180 days	14 days	✓	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA 2523-A-4	E440	04-Jun-2025	18-Jun-2025	180 days	14 days	✓	18-Jun-2025	180 days	14 days	✓	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA 2523-A-5	E440	04-Jun-2025	18-Jun-2025	180 days	14 days	✓	18-Jun-2025	180 days	14 days	✓	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA 2523-A-6	E440	04-Jun-2025	18-Jun-2025	180 days	14 days	✓	18-Jun-2025	180 days	14 days	✓	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA 2523-A-7	E440	04-Jun-2025	18-Jun-2025	180 days	14 days	✓	18-Jun-2025	180 days	14 days	✓	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA 2523-A-8	E440	04-Jun-2025	18-Jun-2025	180 days	14 days	✓	18-Jun-2025	180 days	14 days	✓	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA 2523-A-9	E440	04-Jun-2025	18-Jun-2025	180 days	14 days	✓	18-Jun-2025	180 days	14 days	✓	
Physical Tests : Moisture Content by Gravimetry											
LDPE bag BA 2523-A-1	E144	04-Jun-2025	----	----	----		17-Jun-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 2523-A-10	E144	04-Jun-2025	----	----	----		17-Jun-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2523-A-11	E144	04-Jun-2025	----	----	----		17-Jun-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2523-A-12	E144	04-Jun-2025	----	----	----		17-Jun-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2523-A-2	E144	04-Jun-2025	----	----	----		17-Jun-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2523-A-3	E144	04-Jun-2025	----	----	----		17-Jun-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2523-A-4	E144	04-Jun-2025	----	----	----		17-Jun-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2523-A-5	E144	04-Jun-2025	----	----	----		17-Jun-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2523-A-6	E144	04-Jun-2025	----	----	----		17-Jun-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2523-A-7	E144	04-Jun-2025	----	----	----		17-Jun-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 2523-A-8	E144	04-Jun-2025	----	----	----		17-Jun-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag BA 2523-A-9	E144	04-Jun-2025	----	----	----		17-Jun-2025	----	----		
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA 2523-A-1	E108	04-Jun-2025	18-Jun-2025	30 days	14 days	✔	18-Jun-2025	30 days	14 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA 2523-A-10	E108	04-Jun-2025	18-Jun-2025	30 days	14 days	✔	18-Jun-2025	30 days	14 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA 2523-A-11	E108	04-Jun-2025	18-Jun-2025	30 days	14 days	✔	18-Jun-2025	30 days	14 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA 2523-A-12	E108	04-Jun-2025	18-Jun-2025	30 days	14 days	✔	18-Jun-2025	30 days	14 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA 2523-A-2	E108	04-Jun-2025	18-Jun-2025	30 days	14 days	✔	18-Jun-2025	30 days	14 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA 2523-A-3	E108	04-Jun-2025	18-Jun-2025	30 days	14 days	✔	18-Jun-2025	30 days	14 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA 2523-A-4	E108	04-Jun-2025	18-Jun-2025	30 days	14 days	✔	18-Jun-2025	30 days	14 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 2523-A-5	E108	04-Jun-2025	18-Jun-2025	30 days	14 days	✔	18-Jun-2025	30 days	14 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA 2523-A-6	E108	04-Jun-2025	18-Jun-2025	30 days	14 days	✔	18-Jun-2025	30 days	14 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA 2523-A-7	E108	04-Jun-2025	18-Jun-2025	30 days	14 days	✔	18-Jun-2025	30 days	14 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA 2523-A-8	E108	04-Jun-2025	18-Jun-2025	30 days	14 days	✔	18-Jun-2025	30 days	14 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA 2523-A-9	E108	04-Jun-2025	18-Jun-2025	30 days	14 days	✔	18-Jun-2025	30 days	14 days	✔	
TCLP Metals : Mercury by CVAAS (TCLP)											
Glass vial - total (lab preserved) BA 2523-A-1	E512	14-Jun-2025	17-Jun-2025	38 days	13 days	✔	17-Jun-2025	38 days	13 days	✔	
TCLP Metals : Mercury by CVAAS (TCLP)											
Glass vial - total (lab preserved) BA 2523-A-10	E512	14-Jun-2025	17-Jun-2025	38 days	13 days	✔	17-Jun-2025	38 days	13 days	✔	
TCLP Metals : Mercury by CVAAS (TCLP)											
Glass vial - total (lab preserved) BA 2523-A-11	E512	14-Jun-2025	17-Jun-2025	38 days	13 days	✔	17-Jun-2025	38 days	13 days	✔	
TCLP Metals : Mercury by CVAAS (TCLP)											
Glass vial - total (lab preserved) BA 2523-A-12	E512	14-Jun-2025	17-Jun-2025	38 days	13 days	✔	17-Jun-2025	38 days	13 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 2523-A-2	E512	14-Jun-2025	17-Jun-2025	38 days	13 days	✓	17-Jun-2025	38 days	13 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2523-A-3	E512	14-Jun-2025	17-Jun-2025	38 days	13 days	✓	17-Jun-2025	38 days	13 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2523-A-4	E512	14-Jun-2025	17-Jun-2025	38 days	13 days	✓	17-Jun-2025	38 days	13 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2523-A-5	E512	14-Jun-2025	17-Jun-2025	38 days	13 days	✓	17-Jun-2025	38 days	13 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2523-A-6	E512	14-Jun-2025	17-Jun-2025	38 days	13 days	✓	17-Jun-2025	38 days	13 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2523-A-7	E512	14-Jun-2025	17-Jun-2025	38 days	13 days	✓	17-Jun-2025	38 days	13 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2523-A-8	E512	14-Jun-2025	17-Jun-2025	38 days	13 days	✓	17-Jun-2025	38 days	13 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2523-A-9	E512	14-Jun-2025	17-Jun-2025	38 days	13 days	✓	17-Jun-2025	38 days	13 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2523-A-1	E444	14-Jun-2025	17-Jun-2025	190 days	13 days	✓	18-Jun-2025	190 days	13 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 2523-A-10	E444	14-Jun-2025	17-Jun-2025	190 days	13 days	✔	18-Jun-2025	190 days	13 days	✔	
TCLP Metals : Metals by CRC ICPMS (TCLP)											
HDPE - total (lab preserved) BA 2523-A-11	E444	14-Jun-2025	17-Jun-2025	190 days	13 days	✔	18-Jun-2025	190 days	13 days	✔	
TCLP Metals : Metals by CRC ICPMS (TCLP)											
HDPE - total (lab preserved) BA 2523-A-12	E444	14-Jun-2025	17-Jun-2025	190 days	13 days	✔	18-Jun-2025	190 days	13 days	✔	
TCLP Metals : Metals by CRC ICPMS (TCLP)											
HDPE - total (lab preserved) BA 2523-A-2	E444	14-Jun-2025	17-Jun-2025	190 days	13 days	✔	18-Jun-2025	190 days	13 days	✔	
TCLP Metals : Metals by CRC ICPMS (TCLP)											
HDPE - total (lab preserved) BA 2523-A-3	E444	14-Jun-2025	17-Jun-2025	190 days	13 days	✔	18-Jun-2025	190 days	13 days	✔	
TCLP Metals : Metals by CRC ICPMS (TCLP)											
HDPE - total (lab preserved) BA 2523-A-4	E444	14-Jun-2025	17-Jun-2025	190 days	13 days	✔	18-Jun-2025	190 days	13 days	✔	
TCLP Metals : Metals by CRC ICPMS (TCLP)											
HDPE - total (lab preserved) BA 2523-A-5	E444	14-Jun-2025	17-Jun-2025	190 days	13 days	✔	18-Jun-2025	190 days	13 days	✔	
TCLP Metals : Metals by CRC ICPMS (TCLP)											
HDPE - total (lab preserved) BA 2523-A-6	E444	14-Jun-2025	17-Jun-2025	190 days	13 days	✔	18-Jun-2025	190 days	13 days	✔	
TCLP Metals : Metals by CRC ICPMS (TCLP)											
HDPE - total (lab preserved) BA 2523-A-7	E444	14-Jun-2025	17-Jun-2025	190 days	13 days	✔	18-Jun-2025	190 days	13 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 2523-A-8	E444	14-Jun-2025	17-Jun-2025	190 days	13 days	✓	18-Jun-2025	190 days	13 days	✓	
TCLP Metals : Metals by CRC ICPMS (TCLP)											
HDPE - total (lab preserved) BA 2523-A-9	E444	14-Jun-2025	17-Jun-2025	190 days	13 days	✓	18-Jun-2025	190 days	13 days	✓	
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)											
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA 2523-A-1	EPP444	04-Jun-2025	14-Jun-2025	----	----		----	28 days	10 days	✓	
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)											
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA 2523-A-10	EPP444	04-Jun-2025	14-Jun-2025	----	----		----	28 days	10 days	✓	
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)											
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA 2523-A-11	EPP444	04-Jun-2025	14-Jun-2025	----	----		----	28 days	10 days	✓	
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)											
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA 2523-A-12	EPP444	04-Jun-2025	14-Jun-2025	----	----		----	28 days	10 days	✓	
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)											
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA 2523-A-2	EPP444	04-Jun-2025	14-Jun-2025	----	----		----	28 days	10 days	✓	
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)											
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA 2523-A-3	EPP444	04-Jun-2025	14-Jun-2025	----	----		----	28 days	10 days	✓	
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)											
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA 2523-A-4	EPP444	04-Jun-2025	14-Jun-2025	----	----		----	28 days	10 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 2523-A-5	EPP444	04-Jun-2025	14-Jun-2025	----	----		----	28 days	10 days	✔
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA 2523-A-6	EPP444	04-Jun-2025	14-Jun-2025	----	----		----	28 days	10 days	✔
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA 2523-A-7	EPP444	04-Jun-2025	14-Jun-2025	----	----		----	28 days	10 days	✔
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA 2523-A-8	EPP444	04-Jun-2025	14-Jun-2025	----	----		----	28 days	10 days	✔
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA 2523-A-9	EPP444	04-Jun-2025	14-Jun-2025	----	----		----	28 days	10 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	2058015	1	16	6.2	5.0	✔
Moisture Content by Gravimetry	E144	2058016	1	14	7.1	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2058014	1	16	6.2	5.0	✔
Metals by CRC ICPMS (TCLP)	E444	2056770	1	12	8.3	5.0	✔
Mercury in Soil/Solid by CVAAS	E510	2058013	1	16	6.2	5.0	✔
Mercury by CVAAS (TCLP)	E512	2056771	1	12	8.3	5.0	✔
Laboratory Control Samples (LCS)							
pH by Meter (1:2 Soil:Water Extraction)	E108	2058015	1	16	6.2	5.0	✔
Moisture Content by Gravimetry	E144	2058016	1	14	7.1	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2058014	2	16	12.5	10.0	✔
Mercury in Soil/Solid by CVAAS	E510	2058013	2	16	12.5	10.0	✔
Method Blanks (MB)							
Moisture Content by Gravimetry	E144	2058016	1	14	7.1	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2058014	1	16	6.2	5.0	✔
Metals by CRC ICPMS (TCLP)	E444	2056770	1	12	8.3	5.0	✔
Mercury in Soil/Solid by CVAAS	E510	2058013	1	16	6.2	5.0	✔
Mercury by CVAAS (TCLP)	E512	2056771	1	12	8.3	5.0	✔
Matrix Spikes (MS)							
Metals by CRC ICPMS (TCLP)	E444	2056770	1	12	8.3	5.0	✔
Mercury by CVAAS (TCLP)	E512	2056771	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	: VA25B3952	Page	: 1 of 12
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	: 11-Jun-2025 12:45
PO	: ----	Date Analysis Commenced	: 14-Jun-2025
C-O-C number	: ----	Issue Date	: 18-Jun-2025 22:09
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>
Robert Nguyen	Analyst	Vancouver Metals, Burnaby, British Columbia
Robin Weeks	Team Leader - Metals	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: 2058015)											
VA25B3952-001	BA 2523-A-1	pH (1:2 soil:water)	----	E108	0.10	pH units	10.16	10.32	1.6%	5%	----
Physical Tests (QC Lot: 2058016)											
VA25B3916-005	Anonymous	Moisture	----	E144	0.25	%	12.2	12.2	0.398%	20%	----
Metals (QC Lot: 2058013)											
VA25B3952-001	BA 2523-A-1	Mercury	7439-97-6	E510	0.0500	mg/kg	<0.0500	<0.0500	0	Diff <2x LOR	----
Metals (QC Lot: 2058014)											
VA25B3952-001	BA 2523-A-1	Aluminum	7429-90-5	E440	50	mg/kg	48600	45800	5.82%	40%	----
		Antimony	7440-36-0	E440	0.10	mg/kg	102	99.4	2.50%	30%	----
		Arsenic	7440-38-2	E440	0.10	mg/kg	24.2	18.1	28.6%	30%	----
		Barium	7440-39-3	E440	0.50	mg/kg	538	779	36.6%	40%	----
		Beryllium	7440-41-7	E440	0.10	mg/kg	0.42	0.38	0.03	Diff <2x LOR	----
		Bismuth	7440-69-9	E440	0.20	mg/kg	8.02	7.98	0.570%	30%	----
		Boron	7440-42-8	E440	5.0	mg/kg	208	218	4.66%	30%	----
		Cadmium	7440-43-9	E440	0.020	mg/kg	5.59	5.30	5.39%	30%	----
		Calcium	7440-70-2	E440	50	mg/kg	135000	127000	5.83%	30%	----
		Chromium	7440-47-3	E440	0.50	mg/kg	148	156	5.60%	30%	----
		Cobalt	7440-48-4	E440	0.10	mg/kg	205	55.6	115%	30%	DUP-H
		Copper	7440-50-8	E440	0.50	mg/kg	1080	1150	6.20%	30%	----
		Iron	7439-89-6	E440	50	mg/kg	37300	44600	18.0%	30%	----
		Lead	7439-92-1	E440	0.50	mg/kg	288	361	22.4%	40%	----
		Lithium	7439-93-2	E440	2.0	mg/kg	41.9	27.8	40.5%	30%	DUP-H
		Magnesium	7439-95-4	E440	20	mg/kg	11600	11400	2.36%	30%	----
		Manganese	7439-96-5	E440	1.0	mg/kg	742	1230	49.7%	30%	DUP-H
		Molybdenum	7439-98-7	E440	0.10	mg/kg	22.3	21.5	3.80%	40%	----
		Nickel	7440-02-0	E440	0.50	mg/kg	235	145	47.4%	30%	DUP-H
		Phosphorus	7723-14-0	E440	50	mg/kg	13600	12000	11.9%	30%	----
		Potassium	7440-09-7	E440	100	mg/kg	5970	5580	6.77%	40%	----
		Selenium	7782-49-2	E440	0.20	mg/kg	0.34	0.48	0.14	Diff <2x LOR	----
		Silver	7440-22-4	E440	0.10	mg/kg	4.42	3.73	16.9%	40%	----
		Sodium	7440-23-5	E440	50	mg/kg	16300	16000	2.10%	40%	----



Sub-Matrix: Soil/Solid					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Metals (QC Lot: 2058014) - continued											
VA25B3952-001	BA 2523-A-1	Strontium	7440-24-6	E440	0.50	mg/kg	296	293	0.893%	40%	----
		Sulfur	7704-34-9	E440	1000	mg/kg	10700	11400	6.45%	30%	----
		Thallium	7440-28-0	E440	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Tin	7440-31-5	E440	2.0	mg/kg	308	100	102%	40%	DUP-H
		Titanium	7440-32-6	E440	1.0	mg/kg	269	388	36.3%	40%	----
		Tungsten	7440-33-7	E440	0.50	mg/kg	11.2	8.29	29.7%	30%	----
		Uranium	7440-61-1	E440	0.050	mg/kg	2.57	2.12	19.3%	30%	----
		Vanadium	7440-62-2	E440	0.20	mg/kg	36.2	37.7	3.91%	30%	----
		Zinc	7440-66-6	E440	2.0	mg/kg	2710	2690	0.761%	30%	----
		Zirconium	7440-67-7	E440	1.0	mg/kg	6.2	# 2.4	3.8	Diff <2x LOR	DUP-H,J
TCLP Metals (QC Lot: 2056770)											
VA25B3952-001	BA 2523-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	1.00	0.95	0.05	Diff <2x LOR	----
		Cadmium, TCLP	7440-43-9	E444	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Calcium, TCLP	7440-70-2	E444	10	mg/L	998	958	4.04%	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	<0.050	<0.050	0	Diff <2x LOR	----
		Copper, TCLP	7440-50-8	E444	0.050	mg/L	0.740	0.688	7.22%	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	25.8	24.6	4.86%	30%	----
		Nickel, TCLP	7440-02-0	E444	0.25	mg/L	<0.25	<0.25	0	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	<0.50	<0.50	0	Diff <2x LOR	----		
Zirconium, TCLP	7440-67-7	E444	10	mg/L	<10	<10	0	Diff <2x LOR	----		
TCLP Metals (QC Lot: 2056771)											
VA25B3952-001	BA 2523-A-1	Mercury, TCLP	7439-97-6	E512	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----



Qualifiers

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



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: 2058016)						
Moisture	---	E144	0.25	%	<0.25	---
Metals (QCLot: 2058013)						
Mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	---
Metals (QCLot: 2058014)						
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	---



Sub-Matrix: Soil/Solid

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 2058014) - continued						
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	----
Zinc	7440-66-6	E440	2	mg/kg	<2.0	----
Zirconium	7440-67-7	E440	1	mg/kg	<1.0	----
TCLP Metals (QCLot: 2056770)						
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: 2056771)						
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: 2058015)									
pH (1:2 soil:water)	---	E108	---	pH units	6 pH units	101	95.0	105	---
Physical Tests (QCLot: 2058016)									
Moisture	---	E144	0.25	%	50 %	100	90.0	110	---
Metals (QCLot: 2058013)									
Mercury	7439-97-6	E510	0.005	mg/kg	0.1 mg/kg	97.3	80.0	120	---
Metals (QCLot: 2058014)									
Aluminum	7429-90-5	E440	50	mg/kg	200 mg/kg	109	80.0	120	---
Antimony	7440-36-0	E440	0.1	mg/kg	100 mg/kg	107	80.0	120	---
Arsenic	7440-38-2	E440	0.1	mg/kg	100 mg/kg	112	80.0	120	---
Barium	7440-39-3	E440	0.5	mg/kg	25 mg/kg	110	80.0	120	---
Beryllium	7440-41-7	E440	0.1	mg/kg	10 mg/kg	100	80.0	120	---
Bismuth	7440-69-9	E440	0.2	mg/kg	100 mg/kg	102	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	104	80.0	120	---
Calcium	7440-70-2	E440	50	mg/kg	5000 mg/kg	105	80.0	120	---
Chromium	7440-47-3	E440	0.5	mg/kg	25 mg/kg	106	80.0	120	---
Cobalt	7440-48-4	E440	0.1	mg/kg	25 mg/kg	103	80.0	120	---
Copper	7440-50-8	E440	0.5	mg/kg	25 mg/kg	104	80.0	120	---
Iron	7439-89-6	E440	50	mg/kg	100 mg/kg	106	80.0	120	---
Lead	7439-92-1	E440	0.5	mg/kg	50 mg/kg	105	80.0	120	---
Lithium	7439-93-2	E440	2	mg/kg	25 mg/kg	105	80.0	120	---
Magnesium	7439-95-4	E440	20	mg/kg	5000 mg/kg	109	80.0	120	---
Manganese	7439-96-5	E440	1	mg/kg	25 mg/kg	104	80.0	120	---
Molybdenum	7439-98-7	E440	0.1	mg/kg	25 mg/kg	108	80.0	120	---
Nickel	7440-02-0	E440	0.5	mg/kg	50 mg/kg	105	80.0	120	---
Phosphorus	7723-14-0	E440	50	mg/kg	1000 mg/kg	106	80.0	120	---
Potassium	7440-09-7	E440	100	mg/kg	5000 mg/kg	111	80.0	120	---
Selenium	7782-49-2	E440	0.2	mg/kg	100 mg/kg	110	80.0	120	---
Silver	7440-22-4	E440	0.1	mg/kg	10 mg/kg	102	80.0	120	---
Sodium	7440-23-5	E440	50	mg/kg	5000 mg/kg	109	80.0	120	---
Strontium	7440-24-6	E440	0.5	mg/kg	25 mg/kg	109	80.0	120	---
Sulfur	7704-34-9	E440	1000	mg/kg	5000 mg/kg	104	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: 2058014) - continued									
Thallium	7440-28-0	E440	0.05	mg/kg	100 mg/kg	103	80.0	120	----
Tin	7440-31-5	E440	2	mg/kg	50 mg/kg	104	80.0	120	----
Titanium	7440-32-6	E440	1	mg/kg	25 mg/kg	104	80.0	120	----
Tungsten	7440-33-7	E440	0.5	mg/kg	10 mg/kg	106	80.0	120	----
Uranium	7440-61-1	E440	0.05	mg/kg	0.5 mg/kg	104	80.0	120	----
Vanadium	7440-62-2	E440	0.2	mg/kg	50 mg/kg	105	80.0	120	----
Zinc	7440-66-6	E440	2	mg/kg	50 mg/kg	104	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 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: 2056770)										
VA25B3952-001	BA 2523-A-1	Antimony, TCLP	7440-36-0	E444	4.83 mg/L	5 mg/L	96.6	50.0	140	----
		Arsenic, TCLP	7440-38-2	E444	5.0 mg/L	5 mg/L	99.6	50.0	140	----
		Barium, TCLP	7440-39-3	E444	11.4 mg/L	12.5 mg/L	91.0	50.0	140	----
		Beryllium, TCLP	7440-41-7	E444	0.227 mg/L	0.25 mg/L	90.7	50.0	140	----
		Boron, TCLP	7440-42-8	E444	8.64 mg/L	10 mg/L	86.4	50.0	140	----
		Cadmium, TCLP	7440-43-9	E444	0.231 mg/L	0.25 mg/L	92.3	50.0	140	----
		Calcium, TCLP	7440-70-2	E444	ND mg/L	----	ND	50.0	140	----
		Chromium, TCLP	7440-47-3	E444	1.16 mg/L	1.25 mg/L	93.0	50.0	140	----
		Cobalt, TCLP	7440-48-4	E444	0.233 mg/L	0.25 mg/L	93.3	50.0	140	----
		Copper, TCLP	7440-50-8	E444	2.30 mg/L	2.5 mg/L	92.1	50.0	140	----
		Iron, TCLP	7439-89-6	E444	228 mg/L	250 mg/L	91.4	50.0	140	----
		Lead, TCLP	7439-92-1	E444	8.92 mg/L	10 mg/L	89.2	50.0	140	----
		Magnesium, TCLP	7439-95-4	E444	253 mg/L	250 mg/L	101	50.0	140	----
		Nickel, TCLP	7440-02-0	E444	2.34 mg/L	2.5 mg/L	93.7	50.0	140	----
		Selenium, TCLP	7782-49-2	E444	4.82 mg/L	5 mg/L	96.5	50.0	140	----
		Silver, TCLP	7440-22-4	E444	0.072 mg/L	0.1 mg/L	71.9	50.0	140	----
		Thallium, TCLP	7440-28-0	E444	4.5 mg/L	5 mg/L	90.6	50.0	140	----
		Uranium, TCLP	7440-61-1	E444	4.72 mg/L	5 mg/L	94.5	50.0	150	----
		Vanadium, TCLP	7440-62-2	E444	0.72 mg/L	0.75 mg/L	95.4	50.0	140	----
		Zinc, TCLP	7440-66-6	E444	9.24 mg/L	10 mg/L	92.4	50.0	140	----
		Zirconium, TCLP	7440-67-7	E444	0.8 mg/L	1 mg/L	75.2	50.0	150	----
TCLP Metals (QCLot: 2056771)										
VA25B3952-001	BA 2523-A-1	Mercury, TCLP	7439-97-6	E512	0.0028 mg/L	0.003 mg/L	92.0	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: 2058013)									
QC-2058013-003	MRCA-21	Mercury	7439-97-6	E510	0.068 mg/kg	95.9	70.0	130	----
Metals (QCLot: 2058014)									
QC-2058014-003	MRCA-21	Aluminum	7429-90-5	E440	22500 mg/kg	106	70.0	130	----
QC-2058014-003	MRCA-21	Antimony	7440-36-0	E440	24.8 mg/kg	98.2	70.0	130	----
QC-2058014-003	MRCA-21	Arsenic	7440-38-2	E440	21.2 mg/kg	104	70.0	130	----
QC-2058014-003	MRCA-21	Barium	7440-39-3	E440	788 mg/kg	106	70.0	130	----
QC-2058014-003	MRCA-21	Beryllium	7440-41-7	E440	1.82 mg/kg	105	70.0	130	----
QC-2058014-003	MRCA-21	Bismuth	7440-69-9	E440	1.78 mg/kg	102	70.0	130	----
QC-2058014-003	MRCA-21	Cadmium	7440-43-9	E440	2.15 mg/kg	100	70.0	130	----
QC-2058014-003	MRCA-21	Calcium	7440-70-2	E440	4900 mg/kg	106	70.0	130	----
QC-2058014-003	MRCA-21	Chromium	7440-47-3	E440	56.9 mg/kg	101	70.0	130	----
QC-2058014-003	MRCA-21	Cobalt	7440-48-4	E440	32 mg/kg	100	70.0	130	----
QC-2058014-003	MRCA-21	Copper	7440-50-8	E440	969 mg/kg	102	70.0	130	----
QC-2058014-003	MRCA-21	Iron	7439-89-6	E440	32700 mg/kg	102	70.0	130	----
QC-2058014-003	MRCA-21	Lead	7439-92-1	E440	919 mg/kg	97.0	70.0	130	----
QC-2058014-003	MRCA-21	Lithium	7439-93-2	E440	47.3 mg/kg	114	70.0	130	----
QC-2058014-003	MRCA-21	Magnesium	7439-95-4	E440	7780 mg/kg	103	70.0	130	----
QC-2058014-003	MRCA-21	Manganese	7439-96-5	E440	8640 mg/kg	98.2	70.0	130	----
QC-2058014-003	MRCA-21	Molybdenum	7439-98-7	E440	25.1 mg/kg	102	70.0	130	----
QC-2058014-003	MRCA-21	Nickel	7440-02-0	E440	1000 mg/kg	103	70.0	130	----
QC-2058014-003	MRCA-21	Phosphorus	7723-14-0	E440	660 mg/kg	105	70.0	130	----
QC-2058014-003	MRCA-21	Potassium	7440-09-7	E440	10800 mg/kg	108	70.0	130	----
QC-2058014-003	MRCA-21	Selenium	7782-49-2	E440	1.04 mg/kg	102	60.0	140	----
QC-2058014-003	MRCA-21	Silver	7440-22-4	E440	8.98 mg/kg	102	70.0	130	----
QC-2058014-003	MRCA-21	Sodium	7440-23-5	E440	1770 mg/kg	106	70.0	130	----
QC-2058014-003	MRCA-21	Strontium	7440-24-6	E440	41 mg/kg	100	70.0	130	----
QC-2058014-003	MRCA-21	Sulfur	7704-34-9	E440	3940 mg/kg	95.4	50.0	150	----
QC-2058014-003	MRCA-21	Thallium	7440-28-0	E440	0.907 mg/kg	103	70.0	130	----
QC-2058014-003	MRCA-21	Tin	7440-31-5	E440	3.79 mg/kg	98.9	40.0	160	----
QC-2058014-003	MRCA-21	Titanium	7440-32-6	E440	2790 mg/kg	106	70.0	130	----
QC-2058014-003	MRCA-21	Tungsten	7440-33-7	E440	6.99 mg/kg	113	70.0	130	----
QC-2058014-003	MRCA-21	Uranium	7440-61-1	E440	3.97 mg/kg	106	70.0	130	----
QC-2058014-003	MRCA-21	Vanadium	7440-62-2	E440	66.2 mg/kg	101	70.0	130	----

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 Work Order : VA25B3952
 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: 2058014) - continued									
QC-2058014-003	MRCA-21	Zinc	7440-66-6	E440	828 mg/kg	103	70.0	130	----
QC-2058014-003	MRCA-21	Zirconium	7440-67-7	E440	6.91 mg/kg	104	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 Email 2: lorenzo.ilao@veolia.com	
Phone: 604-521-1025 Fax:	Email 3: karen.thornquist@veolia.com brent.kirkpatrick@metrovancover.org Sarah.Wellman@metrovancover.org	Analysis Request

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) B3952	ALS Contact:	Sampler:
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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 2523-A-1		04-Jun-25	9:00	Soil	X	X		X							1
BA 2523-A-2		04-Jun-25	9:00	Soil	X	X		X							1
BA 2523-A-3		04-Jun-25	9:00	Soil	X	X		X							1
BA 2523-A-4		04-Jun-25	9:00	Soil	X	X		X							1
BA 2523-A-5		04-Jun-25	9:00	Soil	X	X		X							1
BA 2523-A-6		04-Jun-25	9:00	Soil	X	X		X							1
BA 2523-A-7		04-Jun-25	9:00	Soil	X	X		X							1
BA 2523-A-8		04-Jun-25	9:00	Soil	X	X		X							1
BA 2523-A-9		04-Jun-25	9:00	Soil	X	X		X							1
BA 2523-A-10		04-Jun-25	9:00	Soil	X	X		X							1
BA 2523-A-11		04-Jun-25	9:00	Soil	X	X		X							1
BA 2523-A-12		04-Jun-25	9:00	Soil	X	X		X							1
water Aquatic BA 2523-A-13															

Environmental Division
 Vancouver
 Work Order Reference
VA25B3952

Telephone : + 1 604 253 4186

IT RELEASE (C)	SHIPMENT RECEPTION (lab use only)				SHIPMENT VERIFICATION (lab use only)					
Released by:	Date (dd-mm-yy)	Time (hh-mm)	Received by:	Date:	Time:	Temperature:	Verified by:	Date:	Time:	Observations: Yes / No ? If Yes add SIF
						21 °C	AM	06/11	12:45	

Bottom Ash Worksheet

Date sample composited (DD/MM/YYYY)	09 09/06/2025
Person doing the sampling	AYMAN T
Total Sample Weight before processing, kg	83.9 kg
Weight of Material >3/8", kg	16.7 16.7 kg
Weight of Material that cannot be processed to <3/8" (metal, wood, etc), kg	N/A N/A
Final Total weight of Processed Bottom Ash, kg	47.2 kg

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

Completely fill twelve (12) 500ml sample containers and label each with "Bottom Ash" and the week the ash composite is from, i.e. "June 9-15, 2019"