

Bottom Ash Data

2025 Week 29

The following analytical report represents bottom ash composite results for week 29 of 2025 (July 13, 2025 to July 19, 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	: VA25B8053		
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	: 23-Jul-2025 11:10
C-O-C number	: ----	Date Analysis Commenced	: 28-Jul-2025
Sampler	: ----	Issue Date	: 31-Jul-2025 22:14
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>
Janice Leung		Organics, Burnaby, British Columbia
Robert Nguyen		Metals, Burnaby, British Columbia
Russell Zhang		Metals, Burnaby, British Columbia



General Comments

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

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

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

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

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

<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 2529-A-1 ----	BA 2529-A-2 ----	BA 2529-A-3 ----	BA 2529-A-4 ----	BA 2529-A-5 ----
					Client sampling date / time	16-Jul-2025 09:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B8053-001	VA25B8053-002	VA25B8053-003	VA25B8053-004	VA25B8053-005	
					Result	Result	Result	Result	Result	
Physical Tests										
Moisture	----	E144/VA	0.25	%	20.6	19.4	21.5	19.4	19.8	
pH (1:2 soil:water)	----	E108/VA	0.10	pH units	10.80	11.00	10.89	10.96	10.92	
Metals										
Aluminum	7429-90-5	E440/VA	50	mg/kg	41500	53700	37500	38200	46800	
Antimony	7440-36-0	E440/VA	0.10	mg/kg	110	105	109	109	112	
Arsenic	7440-38-2	E440/VA	0.10	mg/kg	21.6	19.4	21.6	20.8	19.9	
Barium	7440-39-3	E440/VA	0.50	mg/kg	631	621	585	621	665	
Beryllium	7440-41-7	E440/VA	0.10	mg/kg	0.36	0.42	0.41	0.40	0.38	
Bismuth	7440-69-9	E440/VA	0.20	mg/kg	8.89	6.46	8.79	11.2	8.13	
Boron	7440-42-8	E440/VA	5.0	mg/kg	159	220	174	248	157	
Cadmium	7440-43-9	E440/VA	0.020	mg/kg	9.31	6.42	7.64	7.31	7.75	
Calcium	7440-70-2	E440/VA	50	mg/kg	153000	155000	140000	148000	143000	
Chromium	7440-47-3	E440/VA	0.50	mg/kg	178	152	133	186	140	
Cobalt	7440-48-4	E440/VA	0.10	mg/kg	31.2	139	31.9	45.8	71.2	
Copper	7440-50-8	E440/VA	0.50	mg/kg	2550	1750	1680	1280	1160	
Iron	7439-89-6	E440/VA	50	mg/kg	57600	51300	37100	40900	49500	
Lead	7439-92-1	E440/VA	0.50	mg/kg	309	235	294	1200	245	
Lithium	7439-93-2	E440/VA	2.0	mg/kg	24.7	28.2	24.1	35.2	39.4	
Magnesium	7439-95-4	E440/VA	20	mg/kg	12600	12300	12200	12100	12100	
Manganese	7439-96-5	E440/VA	1.0	mg/kg	891	865	963	1020	966	
Mercury	7439-97-6	E510/VA	0.0500	mg/kg	0.0540	<0.0500	<0.0500	<0.0500	<0.0500	



Analytical Results

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

					Client sample ID	BA 2529-A-1	BA 2529-A-2	BA 2529-A-3	BA 2529-A-4	BA 2529-A-5
					Client sampling date / time	16-Jul-2025 09:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B8053-001	VA25B8053-002	VA25B8053-003	VA25B8053-004	VA25B8053-005	
					Result	Result	Result	Result	Result	
Metals										
Molybdenum	7439-98-7	E440/VA	0.10	mg/kg	17.0	14.4	13.2	13.5	13.2	
Nickel	7440-02-0	E440/VA	0.50	mg/kg	198	96.5	144	149	173	
Phosphorus	7723-14-0	E440/VA	50	mg/kg	10600	13900	9880	12300	11600	
Potassium	7440-09-7	E440/VA	100	mg/kg	5860	6090	5710	6400	6160	
Selenium	7782-49-2	E440/VA	0.20	mg/kg	0.40	0.42	0.36	0.39	0.41	
Silver	7440-22-4	E440/VA	0.10	mg/kg	5.73	3.67	7.93	16.1	4.26	
Sodium	7440-23-5	E440/VA	50	mg/kg	16100	17900	16500	17900	17200	
Strontium	7440-24-6	E440/VA	0.50	mg/kg	337	374	367	437	350	
Sulfur	7704-34-9	E440/VA	1000	mg/kg	12400	10300	11600	11600	11800	
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	119	94.8	93.9	124	95.0	
Titanium	7440-32-6	E440/VA	1.0	mg/kg	416	540	296	447	469	
Tungsten	7440-33-7	E440/VA	0.50	mg/kg	20.7	9.59	11.9	20.5	9.41	
Uranium	7440-61-1	E440/VA	0.050	mg/kg	1.80	1.87	2.00	1.82	1.87	
Vanadium	7440-62-2	E440/VA	0.20	mg/kg	45.5	41.9	36.6	47.8	45.2	
Zinc	7440-66-6	E440/VA	2.0	mg/kg	6100	3490	4000	4390	3640	
Zirconium	7440-67-7	E440/VA	1.0	mg/kg	2.0	4.3	2.8	2.0	2.6	
TCLP Metals										
pH, TCLP 1st preliminary	----	EPP444/VA	0.010	pH units	11.59	11.63	11.62	11.62	11.65	
pH, TCLP 2nd preliminary	----	EPP444/VA	0.010	pH units	2.71	2.78	2.86	2.70	3.11	
pH, TCLP extraction fluid initial	----	EPP444/VA	0.010	pH units	4.92	4.92	4.92	4.92	4.92	



Analytical Results

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

					Client sample ID	BA 2529-A-1	BA 2529-A-2	BA 2529-A-3	BA 2529-A-4	BA 2529-A-5
					Client sampling date / time	16-Jul-2025 09:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B8053-001	VA25B8053-002	VA25B8053-003	VA25B8053-004	VA25B8053-005	
					Result	Result	Result	Result	Result	
TCLP Metals										
pH, TCLP final	----	EPP444/VA	0.010	pH units	10.11	10.34	10.25	10.48	10.54	
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	0.73	0.80	0.71	0.74	0.69	
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	873	885	809	829	808	
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	0.817	0.827	0.830	0.888	0.949	
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	<2.5	<2.5	<2.5	<2.5	<2.5	
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

Sub-Matrix: Soil (Matrix: Soil/Solid)					Client sample ID	BA 2529-A-1 ----	BA 2529-A-2 ----	BA 2529-A-3 ----	BA 2529-A-4 ----	BA 2529-A-5 ----
					Client sampling date / time	16-Jul-2025 09:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B8053-001	VA25B8053-002	VA25B8053-003	VA25B8053-004	VA25B8053-005	
					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	<0.50
Zirconium, TCLP	7440-67-7	E444/VA	10	mg/L	<10	<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 2529-A-6 ----	BA 2529-A-7 ----	BA 2529-A-8 ----	BA 2529-A-9 ----	BA 2529-A-10 ----
					Client sampling date / time	16-Jul-2025 09:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B8053-006	VA25B8053-007	VA25B8053-008	VA25B8053-009	VA25B8053-010	
					Result	Result	Result	Result	Result	
Physical Tests										
Moisture	----	E144/VA	0.25	%	20.1	21.1	18.2	21.0	20.3	
pH (1:2 soil:water)	----	E108/VA	0.10	pH units	11.02	10.97	11.00	10.83	10.83	
Metals										
Aluminum	7429-90-5	E440/VA	50	mg/kg	40000	43400	51200	51500	40500	
Antimony	7440-36-0	E440/VA	0.10	mg/kg	110	114	123	107	101	
Arsenic	7440-38-2	E440/VA	0.10	mg/kg	18.5	20.7	24.3	20.5	20.7	
Barium	7440-39-3	E440/VA	0.50	mg/kg	710	692	530	550	580	
Beryllium	7440-41-7	E440/VA	0.10	mg/kg	0.39	0.43	0.33	0.40	0.44	
Bismuth	7440-69-9	E440/VA	0.20	mg/kg	21.3	25.2	9.24	6.96	7.38	
Boron	7440-42-8	E440/VA	5.0	mg/kg	298	243	216	190	165	
Cadmium	7440-43-9	E440/VA	0.020	mg/kg	6.52	8.96	6.65	6.74	6.77	
Calcium	7440-70-2	E440/VA	50	mg/kg	141000	155000	141000	149000	145000	



Analytical Results

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

					Client sample ID	BA 2529-A-6	BA 2529-A-7	BA 2529-A-8	BA 2529-A-9	BA 2529-A-10
					Client sampling date / time	16-Jul-2025 09:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B8053-006	VA25B8053-007	VA25B8053-008	VA25B8053-009	VA25B8053-010	
					Result	Result	Result	Result	Result	
Metals										
Chromium	7440-47-3	E440/VA	0.50	mg/kg	177	168	205	139	356	
Cobalt	7440-48-4	E440/VA	0.10	mg/kg	109	226	63.3	334	46.6	
Copper	7440-50-8	E440/VA	0.50	mg/kg	1840	1490	2750	1900	2630	
Iron	7439-89-6	E440/VA	50	mg/kg	55700	41600	70500	42900	55400	
Lead	7439-92-1	E440/VA	0.50	mg/kg	199	298	285	200	773	
Lithium	7439-93-2	E440/VA	2.0	mg/kg	45.3	32.0	26.2	50.9	28.2	
Magnesium	7439-95-4	E440/VA	20	mg/kg	11600	13200	10800	11200	12800	
Manganese	7439-96-5	E440/VA	1.0	mg/kg	730	797	755	909	791	
Mercury	7439-97-6	E510/VA	0.0500	mg/kg	<0.0500	<0.0500	<0.0500	<0.0500	0.355	
Molybdenum	7439-98-7	E440/VA	0.10	mg/kg	20.7	16.6	19.7	18.9	18.4	
Nickel	7440-02-0	E440/VA	0.50	mg/kg	156	231	297	186	279	
Phosphorus	7723-14-0	E440/VA	50	mg/kg	10800	11400	10100	11500	10800	
Potassium	7440-09-7	E440/VA	100	mg/kg	5710	6080	5570	6120	6340	
Selenium	7782-49-2	E440/VA	0.20	mg/kg	0.39	0.41	0.35	0.45	0.36	
Silver	7440-22-4	E440/VA	0.10	mg/kg	18.1	5.25	6.56	3.96	5.77	
Sodium	7440-23-5	E440/VA	50	mg/kg	16900	17700	15400	17000	18200	
Strontium	7440-24-6	E440/VA	0.50	mg/kg	339	404	416	396	425	
Sulfur	7704-34-9	E440/VA	1000	mg/kg	10300	12100	10900	11000	11300	
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	124	109	101	90.4	84.9	
Titanium	7440-32-6	E440/VA	1.0	mg/kg	490	412	686	461	382	



Analytical Results

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

					Client sample ID	BA 2529-A-6	BA 2529-A-7	BA 2529-A-8	BA 2529-A-9	BA 2529-A-10
					Client sampling date / time	16-Jul-2025 09:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B8053-006	VA25B8053-007	VA25B8053-008	VA25B8053-009	VA25B8053-010	
					Result	Result	Result	Result	Result	
Metals										
Tungsten	7440-33-7	E440/VA	0.50	mg/kg	16.5	13.5	13.5	10.9	15.2	
Uranium	7440-61-1	E440/VA	0.050	mg/kg	1.74	1.94	1.77	1.97	1.83	
Vanadium	7440-62-2	E440/VA	0.20	mg/kg	41.9	46.0	38.7	49.4	47.4	
Zinc	7440-66-6	E440/VA	2.0	mg/kg	3050	7540	3040	6160	3380	
Zirconium	7440-67-7	E440/VA	1.0	mg/kg	1.8	2.1	3.3	3.5	3.3	
TCLP Metals										
pH, TCLP 1st preliminary	---	EPP444/VA	0.010	pH units	11.64	11.60	11.62	11.62	11.62	
pH, TCLP 2nd preliminary	---	EPP444/VA	0.010	pH units	3.18	2.78	2.71	3.01	2.88	
pH, TCLP extraction fluid initial	---	EPP444/VA	0.010	pH units	4.92	4.92	4.92	4.92	4.92	
pH, TCLP final	---	EPP444/VA	0.010	pH units	10.44	10.53	10.30	10.31	10.43	
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	0.70	0.72	0.77	0.75	0.73	
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	880	830	839	874	855	
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	0.886	0.850	0.856	0.774	0.854	
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 2529-A-6 ----	BA 2529-A-7 ----	BA 2529-A-8 ----	BA 2529-A-9 ----	BA 2529-A-10 ----
Client sampling date / time					16-Jul-2025 09:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B8053-006	VA25B8053-007	VA25B8053-008	VA25B8053-009	VA25B8053-010
					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	<2.5	<2.5	<2.5	2.7	<2.5
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 2529-A-11 ----	BA 2529-A-12 ----	----	----	----
Client sampling date / time					16-Jul-2025 09:00	16-Jul-2025 09:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B8053-011	VA25B8053-012	----	----	----
					Result	Result	----	----	----
Physical Tests									
Moisture	----	E144/VA	0.25	%	20.0	20.3	----	----	----
pH (1:2 soil:water)	----	E108/VA	0.10	pH units	10.79	10.96	----	----	----



Analytical Results

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

					Client sample ID	BA 2529-A-11	BA 2529-A-12	----	----	----
					Client sampling date / time	16-Jul-2025 09:00	16-Jul-2025 09:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B8053-011	VA25B8053-012	----	----	----	
					Result	Result	----	----	----	
Metals										
Aluminum	7429-90-5	E440/VA	50	mg/kg	43800	42700	----	----	----	
Antimony	7440-36-0	E440/VA	0.10	mg/kg	110	110	----	----	----	
Arsenic	7440-38-2	E440/VA	0.10	mg/kg	17.5	19.4	----	----	----	
Barium	7440-39-3	E440/VA	0.50	mg/kg	977	643	----	----	----	
Beryllium	7440-41-7	E440/VA	0.10	mg/kg	0.42	0.38	----	----	----	
Bismuth	7440-69-9	E440/VA	0.20	mg/kg	6.76	6.60	----	----	----	
Boron	7440-42-8	E440/VA	5.0	mg/kg	240	181	----	----	----	
Cadmium	7440-43-9	E440/VA	0.020	mg/kg	7.62	6.29	----	----	----	
Calcium	7440-70-2	E440/VA	50	mg/kg	142000	142000	----	----	----	
Chromium	7440-47-3	E440/VA	0.50	mg/kg	136	184	----	----	----	
Cobalt	7440-48-4	E440/VA	0.10	mg/kg	29.0	29.1	----	----	----	
Copper	7440-50-8	E440/VA	0.50	mg/kg	4680	2790	----	----	----	
Iron	7439-89-6	E440/VA	50	mg/kg	57000	59500	----	----	----	
Lead	7439-92-1	E440/VA	0.50	mg/kg	257	214	----	----	----	
Lithium	7439-93-2	E440/VA	2.0	mg/kg	27.1	25.5	----	----	----	
Magnesium	7439-95-4	E440/VA	20	mg/kg	12600	11400	----	----	----	
Manganese	7439-96-5	E440/VA	1.0	mg/kg	740	910	----	----	----	
Mercury	7439-97-6	E510/VA	0.0500	mg/kg	<0.0500	0.0845	----	----	----	
Molybdenum	7439-98-7	E440/VA	0.10	mg/kg	20.4	15.9	----	----	----	
Nickel	7440-02-0	E440/VA	0.50	mg/kg	118	131	----	----	----	
Phosphorus	7723-14-0	E440/VA	50	mg/kg	10800	11400	----	----	----	



Analytical Results

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

					Client sample ID	BA 2529-A-11	BA 2529-A-12	----	----	----
					Client sampling date / time	16-Jul-2025 09:00	16-Jul-2025 09:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B8053-011	VA25B8053-012	----	----	----	
					Result	Result	----	----	----	
Metals										
Potassium	7440-09-7	E440/VA	100	mg/kg	5900	5320	----	----	----	
Selenium	7782-49-2	E440/VA	0.20	mg/kg	0.45	0.44	----	----	----	
Silver	7440-22-4	E440/VA	0.10	mg/kg	4.28	5.62	----	----	----	
Sodium	7440-23-5	E440/VA	50	mg/kg	16800	17500	----	----	----	
Strontium	7440-24-6	E440/VA	0.50	mg/kg	342	368	----	----	----	
Sulfur	7704-34-9	E440/VA	1000	mg/kg	10100	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	94.4	109	----	----	----	
Titanium	7440-32-6	E440/VA	1.0	mg/kg	648	608	----	----	----	
Tungsten	7440-33-7	E440/VA	0.50	mg/kg	15.5	10.4	----	----	----	
Uranium	7440-61-1	E440/VA	0.050	mg/kg	1.83	1.81	----	----	----	
Vanadium	7440-62-2	E440/VA	0.20	mg/kg	43.3	39.3	----	----	----	
Zinc	7440-66-6	E440/VA	2.0	mg/kg	3650	4690	----	----	----	
Zirconium	7440-67-7	E440/VA	1.0	mg/kg	2.0	2.2	----	----	----	
TCLP Metals										
pH, TCLP 1st preliminary	----	EPP444/VA	0.010	pH units	11.64	11.64	----	----	----	
pH, TCLP 2nd preliminary	----	EPP444/VA	0.010	pH units	3.01	3.46	----	----	----	
pH, TCLP extraction fluid initial	----	EPP444/VA	0.010	pH units	4.92	4.92	----	----	----	
pH, TCLP final	----	EPP444/VA	0.010	pH units	10.34	10.33	----	----	----	
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 2529-A-11	BA 2529-A-12	----	----	----
					Client sampling date / time	16-Jul-2025 09:00	16-Jul-2025 09:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B8053-011	VA25B8053-012	----	----	----	
					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	0.72	0.75	----	----	----	
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	835	894	----	----	----	
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	0.824	0.890	----	----	----	
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	<2.5	<2.5	----	----	----	
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 : VA25B8053</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 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 : 23-Jul-2025 11:10</p> <p>Issue Date : 31-Jul-2025 22:12</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	VA25B8053-001	BA 2529-A-1	Boron	7440-42-8	E440	67.8 % DUP-H	30%	Duplicate RPD does not meet the DQO for this test.
Metals	VA25B8053-001	BA 2529-A-1	Cobalt	7440-48-4	E440	93.2 % DUP-H	30%	Duplicate RPD does not meet the DQO for this test.
Metals	VA25B8053-001	BA 2529-A-1	Lead	7439-92-1	E440	70.8 % DUP-H	40%	Duplicate RPD does not meet the DQO for this test.
Metals	VA25B8053-001	BA 2529-A-1	Lithium	7439-93-2	E440	49.4 % DUP-H	30%	Duplicate RPD does not meet the DQO for this test.
Metals	VA25B8053-001	BA 2529-A-1	Nickel	7440-02-0	E440	53.2 % DUP-H	30%	Duplicate RPD does not meet the DQO for this test.
Metals	VA25B8053-001	BA 2529-A-1	Titanium	7440-32-6	E440	42.6 % DUP-H	40%	Duplicate RPD does not meet the DQO for this test.
Metals	VA25B8053-001	BA 2529-A-1	Tungsten	7440-33-7	E440	67.4 % DUP-H	30%	Duplicate RPD does not meet the DQO for this test.
Metals	VA25B8053-001	BA 2529-A-1	Zinc	7440-66-6	E440	59.1 % DUP-H	30%	Duplicate RPD does not meet the DQO for this test.

Result Qualifiers

Qualifier	Description
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.



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 2529-A-1	E510	16-Jul-2025	30-Jul-2025	28 days	14 days	✔	30-Jul-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2529-A-10	E510	16-Jul-2025	30-Jul-2025	28 days	14 days	✔	30-Jul-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2529-A-11	E510	16-Jul-2025	30-Jul-2025	28 days	14 days	✔	30-Jul-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2529-A-12	E510	16-Jul-2025	30-Jul-2025	28 days	14 days	✔	30-Jul-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2529-A-2	E510	16-Jul-2025	30-Jul-2025	28 days	14 days	✔	30-Jul-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2529-A-3	E510	16-Jul-2025	30-Jul-2025	28 days	14 days	✔	30-Jul-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2529-A-4	E510	16-Jul-2025	30-Jul-2025	28 days	14 days	✔	30-Jul-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 2529-A-5	E510	16-Jul-2025	30-Jul-2025	28 days	14 days	✔	30-Jul-2025	28 days	0 days	✔	
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag BA 2529-A-6	E510	16-Jul-2025	30-Jul-2025	28 days	14 days	✔	30-Jul-2025	28 days	0 days	✔	
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag BA 2529-A-7	E510	16-Jul-2025	30-Jul-2025	28 days	14 days	✔	30-Jul-2025	28 days	0 days	✔	
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag BA 2529-A-8	E510	16-Jul-2025	30-Jul-2025	28 days	14 days	✔	30-Jul-2025	28 days	0 days	✔	
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag BA 2529-A-9	E510	16-Jul-2025	30-Jul-2025	28 days	14 days	✔	30-Jul-2025	28 days	0 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA 2529-A-1	E440	16-Jul-2025	30-Jul-2025	180 days	14 days	✔	30-Jul-2025	180 days	14 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA 2529-A-10	E440	16-Jul-2025	30-Jul-2025	180 days	14 days	✔	30-Jul-2025	180 days	14 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA 2529-A-11	E440	16-Jul-2025	30-Jul-2025	180 days	14 days	✔	30-Jul-2025	180 days	14 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA 2529-A-12	E440	16-Jul-2025	30-Jul-2025	180 days	14 days	✔	30-Jul-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 2529-A-2	E440	16-Jul-2025	30-Jul-2025	180 days	14 days	✔	30-Jul-2025	180 days	14 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA 2529-A-3	E440	16-Jul-2025	30-Jul-2025	180 days	14 days	✔	30-Jul-2025	180 days	14 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA 2529-A-4	E440	16-Jul-2025	30-Jul-2025	180 days	14 days	✔	30-Jul-2025	180 days	14 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA 2529-A-5	E440	16-Jul-2025	30-Jul-2025	180 days	14 days	✔	30-Jul-2025	180 days	14 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA 2529-A-6	E440	16-Jul-2025	30-Jul-2025	180 days	14 days	✔	30-Jul-2025	180 days	14 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA 2529-A-7	E440	16-Jul-2025	30-Jul-2025	180 days	14 days	✔	30-Jul-2025	180 days	14 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA 2529-A-8	E440	16-Jul-2025	30-Jul-2025	180 days	14 days	✔	30-Jul-2025	180 days	14 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA 2529-A-9	E440	16-Jul-2025	30-Jul-2025	180 days	14 days	✔	30-Jul-2025	180 days	14 days	✔	
Physical Tests : Moisture Content by Gravimetry											
LDPE bag BA 2529-A-1	E144	16-Jul-2025	----	----	----		28-Jul-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 2529-A-10	E144	16-Jul-2025	----	----	----		28-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag BA 2529-A-11	E144	16-Jul-2025	----	----	----		28-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag BA 2529-A-12	E144	16-Jul-2025	----	----	----		28-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag BA 2529-A-2	E144	16-Jul-2025	----	----	----		28-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag BA 2529-A-3	E144	16-Jul-2025	----	----	----		28-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag BA 2529-A-4	E144	16-Jul-2025	----	----	----		28-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag BA 2529-A-5	E144	16-Jul-2025	----	----	----		28-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag BA 2529-A-6	E144	16-Jul-2025	----	----	----		28-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag BA 2529-A-7	E144	16-Jul-2025	----	----	----		28-Jul-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 2529-A-8	E144	16-Jul-2025	----	----	----		28-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag BA 2529-A-9	E144	16-Jul-2025	----	----	----		28-Jul-2025	----	----		
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA 2529-A-1	E108	16-Jul-2025	30-Jul-2025	30 days	14 days	✔	30-Jul-2025	30 days	14 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA 2529-A-10	E108	16-Jul-2025	30-Jul-2025	30 days	14 days	✔	30-Jul-2025	30 days	14 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA 2529-A-11	E108	16-Jul-2025	30-Jul-2025	30 days	14 days	✔	30-Jul-2025	30 days	14 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA 2529-A-12	E108	16-Jul-2025	30-Jul-2025	30 days	14 days	✔	30-Jul-2025	30 days	14 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA 2529-A-2	E108	16-Jul-2025	30-Jul-2025	30 days	14 days	✔	30-Jul-2025	30 days	14 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA 2529-A-3	E108	16-Jul-2025	30-Jul-2025	30 days	14 days	✔	30-Jul-2025	30 days	14 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA 2529-A-4	E108	16-Jul-2025	30-Jul-2025	30 days	14 days	✔	30-Jul-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 2529-A-5	E108	16-Jul-2025	30-Jul-2025	30 days	14 days	✔	30-Jul-2025	30 days	14 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA 2529-A-6	E108	16-Jul-2025	30-Jul-2025	30 days	14 days	✔	30-Jul-2025	30 days	14 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA 2529-A-7	E108	16-Jul-2025	30-Jul-2025	30 days	14 days	✔	30-Jul-2025	30 days	14 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA 2529-A-8	E108	16-Jul-2025	30-Jul-2025	30 days	14 days	✔	30-Jul-2025	30 days	14 days	✔	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)											
LDPE bag BA 2529-A-9	E108	16-Jul-2025	30-Jul-2025	30 days	14 days	✔	30-Jul-2025	30 days	14 days	✔	
TCLP Metals : Mercury by CVAAS (TCLP)											
Glass vial - total (lab preserved) BA 2529-A-1	E512	28-Jul-2025	29-Jul-2025	40 days	13 days	✔	29-Jul-2025	40 days	13 days	✔	
TCLP Metals : Mercury by CVAAS (TCLP)											
Glass vial - total (lab preserved) BA 2529-A-10	E512	28-Jul-2025	29-Jul-2025	40 days	13 days	✔	29-Jul-2025	40 days	13 days	✔	
TCLP Metals : Mercury by CVAAS (TCLP)											
Glass vial - total (lab preserved) BA 2529-A-11	E512	28-Jul-2025	29-Jul-2025	40 days	13 days	✔	29-Jul-2025	40 days	13 days	✔	
TCLP Metals : Mercury by CVAAS (TCLP)											
Glass vial - total (lab preserved) BA 2529-A-12	E512	28-Jul-2025	29-Jul-2025	40 days	13 days	✔	29-Jul-2025	40 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 2529-A-2	E512	28-Jul-2025	29-Jul-2025	40 days	13 days	✓	29-Jul-2025	40 days	13 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2529-A-3	E512	28-Jul-2025	29-Jul-2025	40 days	13 days	✓	29-Jul-2025	40 days	13 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2529-A-4	E512	28-Jul-2025	29-Jul-2025	40 days	13 days	✓	29-Jul-2025	40 days	13 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2529-A-5	E512	28-Jul-2025	29-Jul-2025	40 days	13 days	✓	29-Jul-2025	40 days	13 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2529-A-6	E512	28-Jul-2025	29-Jul-2025	40 days	13 days	✓	29-Jul-2025	40 days	13 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2529-A-7	E512	28-Jul-2025	29-Jul-2025	40 days	13 days	✓	29-Jul-2025	40 days	13 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2529-A-8	E512	28-Jul-2025	29-Jul-2025	40 days	13 days	✓	29-Jul-2025	40 days	13 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2529-A-9	E512	28-Jul-2025	29-Jul-2025	40 days	13 days	✓	29-Jul-2025	40 days	13 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2529-A-1	E444	28-Jul-2025	29-Jul-2025	192 days	13 days	✓	30-Jul-2025	192 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 2529-A-10	E444	28-Jul-2025	29-Jul-2025	192 days	13 days	✔	30-Jul-2025	192 days	13 days	✔	
TCLP Metals : Metals by CRC ICPMS (TCLP)											
HDPE - total (lab preserved) BA 2529-A-11	E444	28-Jul-2025	29-Jul-2025	192 days	13 days	✔	30-Jul-2025	192 days	13 days	✔	
TCLP Metals : Metals by CRC ICPMS (TCLP)											
HDPE - total (lab preserved) BA 2529-A-12	E444	28-Jul-2025	29-Jul-2025	192 days	13 days	✔	30-Jul-2025	192 days	13 days	✔	
TCLP Metals : Metals by CRC ICPMS (TCLP)											
HDPE - total (lab preserved) BA 2529-A-2	E444	28-Jul-2025	29-Jul-2025	192 days	13 days	✔	30-Jul-2025	192 days	13 days	✔	
TCLP Metals : Metals by CRC ICPMS (TCLP)											
HDPE - total (lab preserved) BA 2529-A-3	E444	28-Jul-2025	29-Jul-2025	192 days	13 days	✔	30-Jul-2025	192 days	13 days	✔	
TCLP Metals : Metals by CRC ICPMS (TCLP)											
HDPE - total (lab preserved) BA 2529-A-4	E444	28-Jul-2025	29-Jul-2025	192 days	13 days	✔	30-Jul-2025	192 days	13 days	✔	
TCLP Metals : Metals by CRC ICPMS (TCLP)											
HDPE - total (lab preserved) BA 2529-A-5	E444	28-Jul-2025	29-Jul-2025	192 days	13 days	✔	30-Jul-2025	192 days	13 days	✔	
TCLP Metals : Metals by CRC ICPMS (TCLP)											
HDPE - total (lab preserved) BA 2529-A-6	E444	28-Jul-2025	29-Jul-2025	192 days	13 days	✔	30-Jul-2025	192 days	13 days	✔	
TCLP Metals : Metals by CRC ICPMS (TCLP)											
HDPE - total (lab preserved) BA 2529-A-7	E444	28-Jul-2025	29-Jul-2025	192 days	13 days	✔	30-Jul-2025	192 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 2529-A-8	E444	28-Jul-2025	29-Jul-2025	192 days	13 days	✔	30-Jul-2025	192 days	13 days	✔	
TCLP Metals : Metals by CRC ICPMS (TCLP)											
HDPE - total (lab preserved) BA 2529-A-9	E444	28-Jul-2025	29-Jul-2025	192 days	13 days	✔	30-Jul-2025	192 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 2529-A-1	EPP444	16-Jul-2025	28-Jul-2025	----	----		----	28 days	12 days	✔	
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)											
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA 2529-A-10	EPP444	16-Jul-2025	28-Jul-2025	----	----		----	28 days	12 days	✔	
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)											
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA 2529-A-11	EPP444	16-Jul-2025	28-Jul-2025	----	----		----	28 days	12 days	✔	
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)											
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA 2529-A-12	EPP444	16-Jul-2025	28-Jul-2025	----	----		----	28 days	12 days	✔	
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)											
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA 2529-A-2	EPP444	16-Jul-2025	28-Jul-2025	----	----		----	28 days	12 days	✔	
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)											
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA 2529-A-3	EPP444	16-Jul-2025	28-Jul-2025	----	----		----	28 days	12 days	✔	
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)											
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA 2529-A-4	EPP444	16-Jul-2025	28-Jul-2025	----	----		----	28 days	12 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 2529-A-5	EPP444	16-Jul-2025	28-Jul-2025	----	----		----	28 days	12 days	✔
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA 2529-A-6	EPP444	16-Jul-2025	28-Jul-2025	----	----		----	28 days	12 days	✔
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA 2529-A-7	EPP444	16-Jul-2025	28-Jul-2025	----	----		----	28 days	12 days	✔
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA 2529-A-8	EPP444	16-Jul-2025	28-Jul-2025	----	----		----	28 days	12 days	✔
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA 2529-A-9	EPP444	16-Jul-2025	28-Jul-2025	----	----		----	28 days	12 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	2131085	1	12	8.3	5.0	✔
Moisture Content by Gravimetry	E144	2131086	1	12	8.3	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2131083	1	12	8.3	5.0	✔
Metals by CRC ICPMS (TCLP)	E444	2132895	1	12	8.3	5.0	✔
Mercury in Soil/Solid by CVAAS	E510	2131084	1	12	8.3	5.0	✔
Mercury by CVAAS (TCLP)	E512	2132894	1	12	8.3	5.0	✔
Laboratory Control Samples (LCS)							
pH by Meter (1:2 Soil:Water Extraction)	E108	2131085	1	12	8.3	5.0	✔
Moisture Content by Gravimetry	E144	2131086	1	12	8.3	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2131083	2	12	16.6	10.0	✔
Mercury in Soil/Solid by CVAAS	E510	2131084	2	12	16.6	10.0	✔
Method Blanks (MB)							
Moisture Content by Gravimetry	E144	2131086	1	12	8.3	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2131083	1	12	8.3	5.0	✔
Metals by CRC ICPMS (TCLP)	E444	2132895	1	12	8.3	5.0	✔
Mercury in Soil/Solid by CVAAS	E510	2131084	1	12	8.3	5.0	✔
Mercury by CVAAS (TCLP)	E512	2132894	1	12	8.3	5.0	✔
Matrix Spikes (MS)							
Metals by CRC ICPMS (TCLP)	E444	2132895	1	12	8.3	5.0	✔
Mercury by CVAAS (TCLP)	E512	2132894	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, 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	: VA25B8053	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	: 23-Jul-2025 11:10
PO	: 1000497676	Date Analysis Commenced	: 28-Jul-2025
C-O-C number	: ----	Issue Date	: 31-Jul-2025 22:12
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>
Janice Leung	Supervisor - Organics Instrumentation	Vancouver Organics, Burnaby, British Columbia
Robert Nguyen	Analyst	Vancouver Metals, Burnaby, British Columbia
Russell Zhang	Analyst	Vancouver Metals, Burnaby, British Columbia



General Comments

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

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

= Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

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



Laboratory Duplicate (DUP) Report

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

Sub-Matrix: 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: 2131085)											
VA25B8053-001	BA 2529-A-1	pH (1:2 soil:water)	----	E108	0.10	pH units	10.80	10.81	0.1%	5%	----
Physical Tests (QC Lot: 2131086)											
VA25B8053-001	BA 2529-A-1	Moisture	----	E144	0.25	%	20.6	20.5	0.488%	20%	----
Metals (QC Lot: 2131083)											
VA25B8053-001	BA 2529-A-1	Aluminum	7429-90-5	E440	50	mg/kg	41500	39400	5.24%	40%	----
		Antimony	7440-36-0	E440	0.10	mg/kg	110	117	6.41%	30%	----
		Arsenic	7440-38-2	E440	0.10	mg/kg	21.6	21.6	0.314%	30%	----
		Barium	7440-39-3	E440	0.50	mg/kg	631	629	0.327%	40%	----
		Beryllium	7440-41-7	E440	0.10	mg/kg	0.36	0.39	0.03	Diff <2x LOR	----
		Bismuth	7440-69-9	E440	0.20	mg/kg	8.89	8.24	7.58%	30%	----
		Boron	7440-42-8	E440	5.0	mg/kg	159	322	67.8%	30%	DUP-H
		Cadmium	7440-43-9	E440	0.020	mg/kg	9.31	9.44	1.42%	30%	----
		Calcium	7440-70-2	E440	50	mg/kg	153000	153000	0.334%	30%	----
		Chromium	7440-47-3	E440	0.50	mg/kg	178	177	0.516%	30%	----
		Cobalt	7440-48-4	E440	0.10	mg/kg	31.2	85.5	93.2%	30%	DUP-H
		Copper	7440-50-8	E440	0.50	mg/kg	2550	2630	3.04%	30%	----
		Iron	7439-89-6	E440	50	mg/kg	57600	56600	1.70%	30%	----
		Lead	7439-92-1	E440	0.50	mg/kg	309	648	70.8%	40%	DUP-H
		Lithium	7439-93-2	E440	2.0	mg/kg	24.7	40.9	49.4%	30%	DUP-H
		Magnesium	7439-95-4	E440	20	mg/kg	12600	12900	2.66%	30%	----
		Manganese	7439-96-5	E440	1.0	mg/kg	891	790	12.1%	30%	----
		Molybdenum	7439-98-7	E440	0.10	mg/kg	17.0	13.8	20.7%	40%	----
		Nickel	7440-02-0	E440	0.50	mg/kg	198	114	53.2%	30%	DUP-H
		Phosphorus	7723-14-0	E440	50	mg/kg	10600	11800	10.0%	30%	----
		Potassium	7440-09-7	E440	100	mg/kg	5860	5840	0.356%	40%	----
		Selenium	7782-49-2	E440	0.20	mg/kg	0.40	0.43	0.03	Diff <2x LOR	----
		Silver	7440-22-4	E440	0.10	mg/kg	5.73	5.13	10.9%	40%	----
		Sodium	7440-23-5	E440	50	mg/kg	16100	17200	6.93%	40%	----
		Strontium	7440-24-6	E440	0.50	mg/kg	337	366	8.20%	40%	----
		Sulfur	7704-34-9	E440	1000	mg/kg	12400	11600	7.34%	30%	----



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: 2131083) - continued											
VA25B8053-001	BA 2529-A-1	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	119	98.6	18.9%	40%	----
		Titanium	7440-32-6	E440	1.0	mg/kg	416	270	42.6%	40%	DUP-H
		Tungsten	7440-33-7	E440	0.50	mg/kg	20.7	10.3	67.4%	30%	DUP-H
		Uranium	7440-61-1	E440	0.050	mg/kg	1.80	1.94	7.49%	30%	----
		Vanadium	7440-62-2	E440	0.20	mg/kg	45.5	45.9	0.887%	30%	----
		Zinc	7440-66-6	E440	2.0	mg/kg	6100	3320	59.1%	30%	DUP-H
		Zirconium	7440-67-7	E440	1.0	mg/kg	2.0	2.2	0.2	Diff <2x LOR	----
Metals (QC Lot: 2131084)											
VA25B8053-001	BA 2529-A-1	Mercury	7439-97-6	E510	0.0500	mg/kg	0.0540	<0.0500	0.0040	Diff <2x LOR	----
TCLP Metals (QC Lot: 2132894)											
VA25B8053-001	BA 2529-A-1	Mercury, TCLP	7439-97-6	E512	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
TCLP Metals (QC Lot: 2132895)											
VA25B8053-001	BA 2529-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	0.73	0.73	0.0001	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	873	856	1.97%	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	0.817	0.855	4.52%	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	<2.5	<2.5	0	Diff <2x LOR	----
		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	----



Qualifiers

<i>Qualifier</i>	<i>Description</i>
DUP-H	<i>Duplicate results outside ALS DQO, due to sample heterogeneity.</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: 2131086)						
Moisture	---	E144	0.25	%	<0.25	---
Metals (QCLot: 2131083)						
Aluminum	7429-90-5	E440	50	mg/kg	<50	---
Antimony	7440-36-0	E440	0.1	mg/kg	<0.10	---
Arsenic	7440-38-2	E440	0.1	mg/kg	<0.10	---
Barium	7440-39-3	E440	0.5	mg/kg	<0.50	---
Beryllium	7440-41-7	E440	0.1	mg/kg	<0.10	---
Bismuth	7440-69-9	E440	0.2	mg/kg	<0.20	---
Boron	7440-42-8	E440	5	mg/kg	<5.0	---
Cadmium	7440-43-9	E440	0.02	mg/kg	<0.020	---
Calcium	7440-70-2	E440	50	mg/kg	<50	---
Chromium	7440-47-3	E440	0.5	mg/kg	<0.50	---
Cobalt	7440-48-4	E440	0.1	mg/kg	<0.10	---
Copper	7440-50-8	E440	0.5	mg/kg	<0.50	---
Iron	7439-89-6	E440	50	mg/kg	<50	---
Lead	7439-92-1	E440	0.5	mg/kg	<0.50	---
Lithium	7439-93-2	E440	2	mg/kg	<2.0	---
Magnesium	7439-95-4	E440	20	mg/kg	<20	---
Manganese	7439-96-5	E440	1	mg/kg	<1.0	---
Molybdenum	7439-98-7	E440	0.1	mg/kg	<0.10	---
Nickel	7440-02-0	E440	0.5	mg/kg	<0.50	---
Phosphorus	7723-14-0	E440	50	mg/kg	<50	---
Potassium	7440-09-7	E440	100	mg/kg	<100	---
Selenium	7782-49-2	E440	0.2	mg/kg	<0.20	---
Silver	7440-22-4	E440	0.1	mg/kg	<0.10	---
Sodium	7440-23-5	E440	50	mg/kg	<50	---
Strontium	7440-24-6	E440	0.5	mg/kg	<0.50	---
Sulfur	7704-34-9	E440	1000	mg/kg	<1000	---
Thallium	7440-28-0	E440	0.05	mg/kg	<0.050	---
Tin	7440-31-5	E440	2	mg/kg	<2.0	---
Titanium	7440-32-6	E440	1	mg/kg	<1.0	---
Tungsten	7440-33-7	E440	0.5	mg/kg	<0.50	---



Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 2131083) - continued						
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: 2131084)						
Mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	----
TCLP Metals (QCLot: 2132894)						
Mercury, TCLP	7439-97-6	E512	0.001	mg/L	<0.0010	----
TCLP Metals (QCLot: 2132895)						
Antimony, TCLP	7440-36-0	E444	0.1	mg/L	<0.10	----
Arsenic, TCLP	7440-38-2	E444	1	mg/L	<1.0	----
Barium, TCLP	7440-39-3	E444	2.5	mg/L	<2.5	----
Beryllium, TCLP	7440-41-7	E444	0.025	mg/L	<0.025	----
Boron, TCLP	7440-42-8	E444	0.5	mg/L	<0.50	----
Cadmium, TCLP	7440-43-9	E444	0.05	mg/L	<0.050	----
Calcium, TCLP	7440-70-2	E444	10	mg/L	<10	----
Chromium, TCLP	7440-47-3	E444	0.25	mg/L	<0.25	----
Cobalt, TCLP	7440-48-4	E444	0.05	mg/L	<0.050	----
Copper, TCLP	7440-50-8	E444	0.05	mg/L	<0.050	----
Iron, TCLP	7439-89-6	E444	5	mg/L	<5.0	----
Lead, TCLP	7439-92-1	E444	0.25	mg/L	<0.25	----
Magnesium, TCLP	7439-95-4	E444	2.5	mg/L	<2.5	----
Nickel, TCLP	7440-02-0	E444	0.25	mg/L	<0.25	----
Selenium, TCLP	7782-49-2	E444	0.1	mg/L	<0.10	----
Silver, TCLP	7440-22-4	E444	0.05	mg/L	<0.050	----
Thallium, TCLP	7440-28-0	E444	1	mg/L	<1.0	----
Uranium, TCLP	7440-61-1	E444	0.2	mg/L	<0.20	----
Vanadium, TCLP	7440-62-2	E444	0.15	mg/L	<0.15	----
Zinc, TCLP	7440-66-6	E444	0.5	mg/L	<0.50	----
Zirconium, TCLP	7440-67-7	E444	10	mg/L	<10	----



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Soil/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: 2131085)									
pH (1:2 soil:water)	---	E108	---	pH units	6 pH units	99.3	95.0	105	---
Physical Tests (QCLot: 2131086)									
Moisture	---	E144	0.25	%	50 %	99.1	90.0	110	---
Metals (QCLot: 2131083)									
Aluminum	7429-90-5	E440	50	mg/kg	200 mg/kg	104	80.0	120	---
Antimony	7440-36-0	E440	0.1	mg/kg	100 mg/kg	104	80.0	120	---
Arsenic	7440-38-2	E440	0.1	mg/kg	100 mg/kg	109	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	102	80.0	120	---
Bismuth	7440-69-9	E440	0.2	mg/kg	100 mg/kg	93.9	80.0	120	---
Boron	7440-42-8	E440	5	mg/kg	100 mg/kg	98.9	80.0	120	---
Cadmium	7440-43-9	E440	0.02	mg/kg	10 mg/kg	102	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	102	80.0	120	---
Copper	7440-50-8	E440	0.5	mg/kg	25 mg/kg	102	80.0	120	---
Iron	7439-89-6	E440	50	mg/kg	100 mg/kg	107	80.0	120	---
Lead	7439-92-1	E440	0.5	mg/kg	50 mg/kg	100	80.0	120	---
Lithium	7439-93-2	E440	2	mg/kg	25 mg/kg	108	80.0	120	---
Magnesium	7439-95-4	E440	20	mg/kg	5000 mg/kg	103	80.0	120	---
Manganese	7439-96-5	E440	1	mg/kg	25 mg/kg	104	80.0	120	---
Molybdenum	7439-98-7	E440	0.1	mg/kg	25 mg/kg	103	80.0	120	---
Nickel	7440-02-0	E440	0.5	mg/kg	50 mg/kg	103	80.0	120	---
Phosphorus	7723-14-0	E440	50	mg/kg	1000 mg/kg	108	80.0	120	---
Potassium	7440-09-7	E440	100	mg/kg	5000 mg/kg	104	80.0	120	---
Selenium	7782-49-2	E440	0.2	mg/kg	100 mg/kg	103	80.0	120	---
Silver	7440-22-4	E440	0.1	mg/kg	10 mg/kg	95.4	80.0	120	---
Sodium	7440-23-5	E440	50	mg/kg	5000 mg/kg	104	80.0	120	---
Strontium	7440-24-6	E440	0.5	mg/kg	25 mg/kg	101	80.0	120	---
Sulfur	7704-34-9	E440	1000	mg/kg	5000 mg/kg	101	80.0	120	---
Thallium	7440-28-0	E440	0.05	mg/kg	100 mg/kg	102	80.0	120	---
Tin	7440-31-5	E440	2	mg/kg	50 mg/kg	101	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: 2131083) - continued									
Titanium	7440-32-6	E440	1	mg/kg	25 mg/kg	102	80.0	120	----
Tungsten	7440-33-7	E440	0.5	mg/kg	10 mg/kg	102	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	108	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	98.9	80.0	120	----
Metals (QCLot: 2131084)									
Mercury	7439-97-6	E510	0.005	mg/kg	0.1 mg/kg	99.9	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: 2132894)										
VA25B8053-001	BA 2529-A-1	Mercury, TCLP	7439-97-6	E512	0.0036 mg/L	0.003 mg/L	119	50.0	140	----
TCLP Metals (QCLot: 2132895)										
VA25B8053-001	BA 2529-A-1	Antimony, TCLP	7440-36-0	E444	4.72 mg/L	5 mg/L	94.5	50.0	140	----
		Arsenic, TCLP	7440-38-2	E444	5.0 mg/L	5 mg/L	99.8	50.0	140	----
		Barium, TCLP	7440-39-3	E444	12.3 mg/L	12.5 mg/L	98.4	50.0	140	----
		Beryllium, TCLP	7440-41-7	E444	0.256 mg/L	0.25 mg/L	102	50.0	140	----
		Boron, TCLP	7440-42-8	E444	9.91 mg/L	10 mg/L	99.1	50.0	140	----
		Cadmium, TCLP	7440-43-9	E444	0.230 mg/L	0.25 mg/L	92.2	50.0	140	----
		Calcium, TCLP	7440-70-2	E444	ND mg/L	----	ND	50.0	140	----
		Chromium, TCLP	7440-47-3	E444	1.20 mg/L	1.25 mg/L	95.6	50.0	140	----
		Cobalt, TCLP	7440-48-4	E444	0.244 mg/L	0.25 mg/L	97.8	50.0	140	----
		Copper, TCLP	7440-50-8	E444	2.31 mg/L	2.5 mg/L	92.3	50.0	140	----
		Iron, TCLP	7439-89-6	E444	237 mg/L	250 mg/L	94.8	50.0	140	----
		Lead, TCLP	7439-92-1	E444	9.22 mg/L	10 mg/L	92.2	50.0	140	----
		Magnesium, TCLP	7439-95-4	E444	247 mg/L	250 mg/L	99.0	50.0	140	----
		Nickel, TCLP	7440-02-0	E444	2.37 mg/L	2.5 mg/L	94.9	50.0	140	----
		Selenium, TCLP	7782-49-2	E444	5.09 mg/L	5 mg/L	102	50.0	140	----
		Silver, TCLP	7440-22-4	E444	0.077 mg/L	0.1 mg/L	77.3	50.0	140	----
		Thallium, TCLP	7440-28-0	E444	4.6 mg/L	5 mg/L	92.4	50.0	140	----
		Uranium, TCLP	7440-61-1	E444	4.74 mg/L	5 mg/L	94.7	50.0	150	----
		Vanadium, TCLP	7440-62-2	E444	0.72 mg/L	0.75 mg/L	96.6	50.0	140	----
		Zinc, TCLP	7440-66-6	E444	9.72 mg/L	10 mg/L	97.2	50.0	140	----
		Zirconium, TCLP	7440-67-7	E444	0.8 mg/L	1 mg/L	85.9	50.0	150	----



Reference Material (RM) Report

A Reference Material (RM) is a homogenous material with known and well-established analyte concentrations. RMs are processed in an identical manner to test samples, and are used to monitor and control the accuracy and precision of a test method for a typical sample matrix. RM results are expressed as percent recovery of the target analyte concentration. RM targets may be certified target concentrations provided by the RM supplier, or may be ALS long-term mean values (for empirical test methods).

Sub-Matrix:

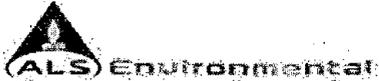
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Metals (QCLot: 2131083)									
QC-2131083-003	MRCA-21	Aluminum	7429-90-5	E440	22500 mg/kg	105	70.0	130	----
QC-2131083-003	MRCA-21	Antimony	7440-36-0	E440	24.8 mg/kg	99.3	70.0	130	----
QC-2131083-003	MRCA-21	Arsenic	7440-38-2	E440	21.2 mg/kg	98.3	70.0	130	----
QC-2131083-003	MRCA-21	Barium	7440-39-3	E440	788 mg/kg	98.8	70.0	130	----
QC-2131083-003	MRCA-21	Beryllium	7440-41-7	E440	1.82 mg/kg	106	70.0	130	----
QC-2131083-003	MRCA-21	Bismuth	7440-69-9	E440	1.78 mg/kg	85.4	70.0	130	----
QC-2131083-003	MRCA-21	Cadmium	7440-43-9	E440	2.15 mg/kg	97.8	70.0	130	----
QC-2131083-003	MRCA-21	Calcium	7440-70-2	E440	4900 mg/kg	106	70.0	130	----
QC-2131083-003	MRCA-21	Chromium	7440-47-3	E440	56.9 mg/kg	103	70.0	130	----
QC-2131083-003	MRCA-21	Cobalt	7440-48-4	E440	32 mg/kg	98.7	70.0	130	----
QC-2131083-003	MRCA-21	Copper	7440-50-8	E440	969 mg/kg	100.0	70.0	130	----
QC-2131083-003	MRCA-21	Iron	7439-89-6	E440	32700 mg/kg	104	70.0	130	----
QC-2131083-003	MRCA-21	Lead	7439-92-1	E440	919 mg/kg	93.5	70.0	130	----
QC-2131083-003	MRCA-21	Lithium	7439-93-2	E440	47.3 mg/kg	107	70.0	130	----
QC-2131083-003	MRCA-21	Magnesium	7439-95-4	E440	7780 mg/kg	99.1	70.0	130	----
QC-2131083-003	MRCA-21	Manganese	7439-96-5	E440	8640 mg/kg	96.6	70.0	130	----
QC-2131083-003	MRCA-21	Molybdenum	7439-98-7	E440	25.1 mg/kg	97.9	70.0	130	----
QC-2131083-003	MRCA-21	Nickel	7440-02-0	E440	1000 mg/kg	101	70.0	130	----
QC-2131083-003	MRCA-21	Phosphorus	7723-14-0	E440	660 mg/kg	111	70.0	130	----
QC-2131083-003	MRCA-21	Potassium	7440-09-7	E440	10800 mg/kg	98.7	70.0	130	----
QC-2131083-003	MRCA-21	Selenium	7782-49-2	E440	1.04 mg/kg	89.2	60.0	140	----
QC-2131083-003	MRCA-21	Silver	7440-22-4	E440	8.98 mg/kg	96.4	70.0	130	----
QC-2131083-003	MRCA-21	Sodium	7440-23-5	E440	1770 mg/kg	109	70.0	130	----
QC-2131083-003	MRCA-21	Strontium	7440-24-6	E440	41 mg/kg	98.9	70.0	130	----
QC-2131083-003	MRCA-21	Sulfur	7704-34-9	E440	3940 mg/kg	90.8	50.0	150	----
QC-2131083-003	MRCA-21	Thallium	7440-28-0	E440	0.907 mg/kg	96.6	70.0	130	----
QC-2131083-003	MRCA-21	Tin	7440-31-5	E440	3.79 mg/kg	98.2	40.0	160	----
QC-2131083-003	MRCA-21	Titanium	7440-32-6	E440	2790 mg/kg	103	70.0	130	----
QC-2131083-003	MRCA-21	Tungsten	7440-33-7	E440	6.99 mg/kg	118	70.0	130	----
QC-2131083-003	MRCA-21	Uranium	7440-61-1	E440	3.97 mg/kg	94.8	70.0	130	----
QC-2131083-003	MRCA-21	Vanadium	7440-62-2	E440	66.2 mg/kg	101	70.0	130	----
QC-2131083-003	MRCA-21	Zinc	7440-66-6	E440	828 mg/kg	101	70.0	130	----
QC-2131083-003	MRCA-21	Zirconium	7440-67-7	E440	6.91 mg/kg	92.0	70.0	130	----

Page : 12 of 12
 Work Order : VA25B8053
 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: 2131084)									
QC-2131084-003	MRCA-21	Mercury	7439-97-6	E510	0.068 mg/kg	99.0	70.0	130	----



Chain of Custody / Analytical Request Form
 Canada Toll Free: 1 800 668 9878
 www.alsglobal.com

Environmental Division
 Vancouver
 Work Order Reference
VA25B8053

DOC #: _____
 Page 1 of 1



Telephone: 1 800 200 4100

Report To	Report Format / Distribution
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.lao@veolia.com
	Email 3: karen.thornquist@veolia.com
	brent.kirkpatrick@metrovancover.org
	Sarah.Welman@metrovancover.org

Analysis subject to availability)

Request

Invoice To Same as Report? Veolia Water Canada	Client / Project Information
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 #:

Please indicate below Filtered, Preserved or both (F, P, F/P)										Number of Containers
MET-TCLP-VA (all metals; Hg)	MOISTURE	Chrome 6	MET-CSR+FULL-VA (all metals)							
X	X		X							1
X	X		X							1
X	X		X							1
X	X		X							1
X	X		X							1
X	X		X							1
X	X		X							1
X	X		X							1
X	X		X							1
X	X		X							1
X	X		X							1
X	X		X							1
X	X		X							1

Lab Work Order # (lab use only)	ALS Contact:	Sampler:
---	---------------------	-----------------

Sample #	Sample Identification (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type
BA 2529-A-1		16 Jul 2025	9:00	Soil
BA 2529-A-2		16 Jul 2025	9:00	Soil
BA 2529-A-3		16 Jul 2025	9:00	Soil
BA 2529-A-4		16 Jul 2025	9:00	Soil
BA 2529-A-5		16 Jul 2025	9:00	Soil
BA 2529-A-6		16 Jul 2025	9:00	Soil
BA 2529-A-7		16 Jul 2025	9:00	Soil
BA 2529-A-8		16 Jul 2025	9:00	Soil
BA 2529-A-9		16 Jul 2025	9:00	Soil
BA 2529-A-10		16 Jul 2025	9:00	Soil
BA 2529-A-11		16 Jul 2025	9:00	Soil
BA 2529-A-12		16 Jul 2025	9:00	Soil

water Aquatic

may delay as with the Terms and numbers and

SHIPMENT-RECEPTION (lab use only)			SHIPMENT-VERIFICATION (lab use only)							
Released by: <i>[Signature]</i>	Date (dd-mm-yy): 22/07/2025	Time (hh-mm): 02:25	Received by: CW	Date: July 22	Time: 11:10	Temperature: 22 °C	Verified by:	Date:	Time:	Observations: Yes / No? If Yes add SIF

COC rec'd July 23