

Bottom Ash Data

2026 Week 04

The following analytical report represents bottom ash composite results for week 04 of 2026 (January 18, 2026 to January 24, 2026).

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	: VA26A1922		
Amendment	: 1		
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	: 1000620652	Date Samples Received	: 27-Jan-2026 11:30
C-O-C number	: ----	Date Analysis Commenced	: 28-Jan-2026
Sampler	: ----	Issue Date	: 10-Feb-2026 11:17
Site	: Metro Van Ash Sampling Program		
Quote number	: VA25-VISI100-001		
No. of samples received	: 12		
No. of samples analysed	: 12		

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

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

Signatories

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

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Metals, Burnaby, British Columbia
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Organics, Burnaby, British Columbia
Kim Jensen	Department Manager - Metals	Organics, Burnaby, British Columbia
Robert Nguyen	Analyst	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).

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

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

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

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

Workorder Comments

Amendment (10/02/2026): This report has been amended as a result of misinterpretation of sample identification numbers (IDs). All analysis results are as per the previous report.



Analytical Results

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

					Client sample ID	BA 2604-A-1 ----	BA 2604-A-2 ----	BA 2604-A-3 ----	BA 2604-A-4 ----	BA 2604-A-5 ----
					Client sampling date / time	21-Jan-2026 12:00	21-Jan-2026 12:00	21-Jan-2026 12:00	21-Jan-2026 12:00	21-Jan-2026 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit		VA26A1922-001	VA26A1922-002	VA26A1922-003	VA26A1922-004	VA26A1922-005
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.25	%		26.2	25.1	25.5	23.8	23.7
pH (1:2 soil:water)	----	E108/VA	0.10	pH units		11.90	11.99	12.17	12.03	11.97
Metals										
Aluminum	7429-90-5	E440/VA	50	mg/kg		38600	43000	50700	41000	43100
Antimony	7440-36-0	E440/VA	0.10	mg/kg		94.9	93.7	96.7	93.3	97.0
Arsenic	7440-38-2	E440/VA	0.10	mg/kg		11.0	13.5	11.6	9.92	10.8
Barium	7440-39-3	E440/VA	0.50	mg/kg		632	573	681	688	707
Beryllium	7440-41-7	E440/VA	0.10	mg/kg		0.39	0.40	0.40	0.38	0.42
Bismuth	7440-69-9	E440/VA	0.20	mg/kg		7.89	12.3	5.79	5.04	10.7
Boron	7440-42-8	E440/VA	5.0	mg/kg		201	323	228	267	265
Cadmium	7440-43-9	E440/VA	0.020	mg/kg		5.13	6.39	15.7	5.22	6.97
Calcium	7440-70-2	E440/VA	50	mg/kg		122000	127000	122000	120000	126000
Chromium	7440-47-3	E440/VA	0.50	mg/kg		131	156	127	118	182
Cobalt	7440-48-4	E440/VA	0.10	mg/kg		121	98.7	206	101	1390
Copper	7440-50-8	E440/VA	0.50	mg/kg		7940	4820	22000	3070	2710
Iron	7439-89-6	E440/VA	50	mg/kg		71000	48400	49200	72600	79000
Lead	7439-92-1	E440/VA	0.50	mg/kg		713	266	291	621	1610
Lithium	7439-93-2	E440/VA	2.0	mg/kg		35.7	37.1	43.6	33.5	81.3
Magnesium	7439-95-4	E440/VA	20	mg/kg		12600	11500	12500	12400	12400
Manganese	7439-96-5	E440/VA	1.0	mg/kg		809	1010	1100	1130	1810
Mercury	7439-97-6	E510/VA	0.0500	mg/kg		<0.0500	<0.0500	0.0648	<0.0500	0.0557



Analytical Results

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

					Client sample ID	BA 2604-A-1	BA 2604-A-2	BA 2604-A-3	BA 2604-A-4	BA 2604-A-5
					Client sampling date / time	21-Jan-2026 12:00	21-Jan-2026 12:00	21-Jan-2026 12:00	21-Jan-2026 12:00	21-Jan-2026 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit		VA26A1922-001	VA26A1922-002	VA26A1922-003	VA26A1922-004	VA26A1922-005
						Result	Result	Result	Result	Result
Metals										
Molybdenum	7439-98-7	E440/VA	0.10	mg/kg		18.5	27.3	16.7	29.3	17.8
Nickel	7440-02-0	E440/VA	0.50	mg/kg		213	223	208	246	426
Phosphorus	7723-14-0	E440/VA	50	mg/kg		9610	11100	9450	10200	10400
Potassium	7440-09-7	E440/VA	100	mg/kg		4870	4980	4850	4720	4840
Selenium	7782-49-2	E440/VA	0.20	mg/kg		0.33	0.29	0.29	0.23	0.28
Silver	7440-22-4	E440/VA	0.10	mg/kg		5.32	5.09	>33.3	3.58	>25.9
Sodium	7440-23-5	E440/VA	50	mg/kg		16700	16800	17700	16100	15700
Strontium	7440-24-6	E440/VA	0.50	mg/kg		315	318	309	357	328
Sulfur	7704-34-9	E440/VA	1000	mg/kg		9100	9300	9100	8900	9300
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		472	238	302	136	1020
Titanium	7440-32-6	E440/VA	1.0	mg/kg		294	273	464	236	280
Tungsten	7440-33-7	E440/VA	0.50	mg/kg		7.09	9.23	5.96	6.60	7.64
Uranium	7440-61-1	E440/VA	0.050	mg/kg		1.46	1.51	1.52	1.43	1.69
Vanadium	7440-62-2	E440/VA	0.20	mg/kg		29.5	40.0	28.5	29.9	30.2
Zinc	7440-66-6	E440/VA	2.0	mg/kg		3990	5290	4030	4230	3620
Zirconium	7440-67-7	E440/VA	1.0	mg/kg		2.8	3.6	2.7	3.7	2.9
TCLP Metals										
pH, TCLP 1st preliminary	----	EPP444/VA	0.010	pH units		11.75	11.91	11.76	11.79	11.69
pH, TCLP 2nd preliminary	----	EPP444/VA	0.010	pH units		7.59	8.46	8.07	7.71	6.81
pH, TCLP extraction fluid initial	----	EPP444/VA	0.010	pH units		2.83	2.83	2.83	2.83	2.83



Analytical Results

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

					Client sample ID	BA 2604-A-1	BA 2604-A-2	BA 2604-A-3	BA 2604-A-4	BA 2604-A-5
					Client sampling date / time	21-Jan-2026 12:00	21-Jan-2026 12:00	21-Jan-2026 12:00	21-Jan-2026 12:00	21-Jan-2026 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit		VA26A1922-001	VA26A1922-002	VA26A1922-003	VA26A1922-004	VA26A1922-005
						Result	Result	Result	Result	Result
TCLP Metals										
pH, TCLP final	----	EPP444/VA	0.010	pH units		6.54	6.78	6.88	6.78	6.81
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		2.59	2.82	3.05	3.57	3.27
Cadmium, TCLP	7440-43-9	E444/VA	0.050	mg/L		0.110	0.055	0.055	0.061	<0.050
Calcium, TCLP	7440-70-2	E444/VA	10	mg/L		1650	1740	1800	1720	1760
Chromium, TCLP	7440-47-3	E444/VA	0.25	mg/L		<0.25	<0.25	<0.25	<0.25	<0.25
Cobalt, TCLP	7440-48-4	E444/VA	0.050	mg/L		1.17	1.04	0.929	0.845	1.01
Copper, TCLP	7440-50-8	E444/VA	0.050	mg/L		0.863	0.777	0.985	0.753	0.764
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		115	118	118	125	125
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		0.36	0.27	0.28	0.54	0.29
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 2604-A-1 ----	BA 2604-A-2 ----	BA 2604-A-3 ----	BA 2604-A-4 ----	BA 2604-A-5 ----
					Client sampling date / time	21-Jan-2026 12:00	21-Jan-2026 12:00	21-Jan-2026 12:00	21-Jan-2026 12:00	21-Jan-2026 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit		VA26A1922-001	VA26A1922-002	VA26A1922-003	VA26A1922-004	VA26A1922-005
						Result	Result	Result	Result	Result
TCLP Metals										
Zinc, TCLP	7440-66-6	E444/VA	0.50	mg/L		12.5	8.57	7.29	8.04	7.66
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 2604-A-6 ----	BA 2604-A-7 ----	BA 2604-A-8 ----	BA 2604-A-9 ----	BA 2604-A-10 ----
					Client sampling date / time	21-Jan-2026 12:00	21-Jan-2026 12:00	21-Jan-2026 12:00	21-Jan-2026 12:00	21-Jan-2026 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit		VA26A1922-006	VA26A1922-007	VA26A1922-008	VA26A1922-009	VA26A1922-010
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.25	%		24.2	24.0	23.0	23.4	24.9
pH (1:2 soil:water)	----	E108/VA	0.10	pH units		11.81	12.06	12.02	12.06	12.08
Metals										
Aluminum	7429-90-5	E440/VA	50	mg/kg		34800	45600	38500	46600	50400
Antimony	7440-36-0	E440/VA	0.10	mg/kg		90.8	83.8	72.9	107	87.2
Arsenic	7440-38-2	E440/VA	0.10	mg/kg		11.3	9.89	10.9	10.6	12.0
Barium	7440-39-3	E440/VA	0.50	mg/kg		716	694	774	704	581
Beryllium	7440-41-7	E440/VA	0.10	mg/kg		0.39	0.40	0.36	0.44	0.39
Bismuth	7440-69-9	E440/VA	0.20	mg/kg		35.2	62.3	6.30	11.3	4.95
Boron	7440-42-8	E440/VA	5.0	mg/kg		219	325	259	277	209
Cadmium	7440-43-9	E440/VA	0.020	mg/kg		6.39	5.55	5.68	151	5.65
Calcium	7440-70-2	E440/VA	50	mg/kg		121000	126000	131000	131000	123000



Analytical Results

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

					Client sample ID	BA 2604-A-6	BA 2604-A-7	BA 2604-A-8	BA 2604-A-9	BA 2604-A-10
					Client sampling date / time	21-Jan-2026 12:00	21-Jan-2026 12:00	21-Jan-2026 12:00	21-Jan-2026 12:00	21-Jan-2026 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit		VA26A1922-006	VA26A1922-007	VA26A1922-008	VA26A1922-009	VA26A1922-010
						Result	Result	Result	Result	Result
Metals										
Chromium	7440-47-3	E440/VA	0.50	mg/kg		215	142	185	128	159
Cobalt	7440-48-4	E440/VA	0.10	mg/kg		188	75.7	63.6	92.0	187
Copper	7440-50-8	E440/VA	0.50	mg/kg		8990	10500	4830	1750	2440
Iron	7439-89-6	E440/VA	50	mg/kg		80100	52400	60900	45800	63500
Lead	7439-92-1	E440/VA	0.50	mg/kg		274	435	322	1210	314
Lithium	7439-93-2	E440/VA	2.0	mg/kg		51.8	41.2	35.3	39.0	108
Magnesium	7439-95-4	E440/VA	20	mg/kg		12200	12700	12700	13100	12000
Manganese	7439-96-5	E440/VA	1.0	mg/kg		1560	2150	1030	811	1170
Mercury	7439-97-6	E510/VA	0.0500	mg/kg		<0.0500	<0.0500	<0.0500	<0.0500	0.123
Molybdenum	7439-98-7	E440/VA	0.10	mg/kg		36.6	20.1	24.5	26.0	16.2
Nickel	7440-02-0	E440/VA	0.50	mg/kg		406	151	258	218	236
Phosphorus	7723-14-0	E440/VA	50	mg/kg		10200	11300	11300	13400	10800
Potassium	7440-09-7	E440/VA	100	mg/kg		4780	5150	4920	5650	4770
Selenium	7782-49-2	E440/VA	0.20	mg/kg		0.25	0.27	0.34	0.29	0.34
Silver	7440-22-4	E440/VA	0.10	mg/kg		>66.2	3.34	>26.4	15.9	6.02
Sodium	7440-23-5	E440/VA	50	mg/kg		16500	17900	16600	19200	16700
Strontium	7440-24-6	E440/VA	0.50	mg/kg		316	270	351	350	380
Sulfur	7704-34-9	E440/VA	1000	mg/kg		9100	9100	9400	10200	8700
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		359	180	164	452	116
Titanium	7440-32-6	E440/VA	1.0	mg/kg		250	310	239	411	388



Analytical Results

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

					Client sample ID	BA 2604-A-6	BA 2604-A-7	BA 2604-A-8	BA 2604-A-9	BA 2604-A-10
					Client sampling date / time	21-Jan-2026 12:00	21-Jan-2026 12:00	21-Jan-2026 12:00	21-Jan-2026 12:00	21-Jan-2026 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit		VA26A1922-006	VA26A1922-007	VA26A1922-008	VA26A1922-009	VA26A1922-010
						Result	Result	Result	Result	Result
Metals										
Tungsten	7440-33-7	E440/VA	0.50	mg/kg		12.4	7.25	9.69	32.1	6.91
Uranium	7440-61-1	E440/VA	0.050	mg/kg		1.48	1.52	1.50	1.65	1.49
Vanadium	7440-62-2	E440/VA	0.20	mg/kg		33.7	51.3	31.4	32.3	33.3
Zinc	7440-66-6	E440/VA	2.0	mg/kg		3060	4310	6210	3740	7370
Zirconium	7440-67-7	E440/VA	1.0	mg/kg		2.5	2.0	2.5	3.1	4.0
TCLP Metals										
pH, TCLP 1st preliminary	----	EPP444/VA	0.010	pH units		11.67	11.70	11.57	11.68	11.69
pH, TCLP 2nd preliminary	----	EPP444/VA	0.010	pH units		7.18	4.20	3.79	5.87	5.77
pH, TCLP extraction fluid initial	----	EPP444/VA	0.010	pH units		2.83	4.94	4.94	2.83	2.83
pH, TCLP final	----	EPP444/VA	0.010	pH units		6.82	10.54	10.52	7.15	7.13
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		3.55	1.36	1.48	3.09	2.73
Cadmium, TCLP	7440-43-9	E444/VA	0.050	mg/L		0.071	<0.050	<0.050	<0.050	0.220
Calcium, TCLP	7440-70-2	E444/VA	10	mg/L		1740	695	736	1730	1730
Chromium, TCLP	7440-47-3	E444/VA	0.25	mg/L		<0.25	<0.25	<0.25	<0.25	<0.25
Cobalt, TCLP	7440-48-4	E444/VA	0.050	mg/L		1.65	<0.050	<0.050	0.725	1.00
Copper, TCLP	7440-50-8	E444/VA	0.050	mg/L		0.762	0.717	0.705	0.843	0.765
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 2604-A-6	BA 2604-A-7	BA 2604-A-8	BA 2604-A-9	BA 2604-A-10
					Client sampling date / time	21-Jan-2026 12:00	21-Jan-2026 12:00	21-Jan-2026 12:00	21-Jan-2026 12:00	21-Jan-2026 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit		VA26A1922-006	VA26A1922-007	VA26A1922-008	VA26A1922-009	VA26A1922-010
						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		120	<2.5	<2.5	115	117
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		0.44	<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		12.2	<0.50	<0.50	7.92	4.37
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 2604-A-11	BA 2604-A-12	----	----	----
					Client sampling date / time	21-Jan-2026 12:00	21-Jan-2026 12:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit		VA26A1922-011	VA26A1922-012	----	----	----
						Result	Result	----	----	----
Physical Tests										
Moisture	----	E144/VA	0.25	%		24.8	25.7	----	----	----
pH (1:2 soil:water)	----	E108/VA	0.10	pH units		12.17	12.15	----	----	----



Analytical Results

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

					Client sample ID	BA 2604-A-11	BA 2604-A-12	----	----	----
					Client sampling date / time	21-Jan-2026 12:00	21-Jan-2026 12:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A1922-011	VA26A1922-012	----	----	----	----
					Result	Result	----	----	----	----
Metals										
Aluminum	7429-90-5	E440/VA	50	mg/kg	45700	48600	----	----	----	----
Antimony	7440-36-0	E440/VA	0.10	mg/kg	83.9	85.7	----	----	----	----
Arsenic	7440-38-2	E440/VA	0.10	mg/kg	9.89	9.84	----	----	----	----
Barium	7440-39-3	E440/VA	0.50	mg/kg	736	642	----	----	----	----
Beryllium	7440-41-7	E440/VA	0.10	mg/kg	0.40	0.38	----	----	----	----
Bismuth	7440-69-9	E440/VA	0.20	mg/kg	11.5	9.97	----	----	----	----
Boron	7440-42-8	E440/VA	5.0	mg/kg	244	244	----	----	----	----
Cadmium	7440-43-9	E440/VA	0.020	mg/kg	4.18	6.09	----	----	----	----
Calcium	7440-70-2	E440/VA	50	mg/kg	124000	127000	----	----	----	----
Chromium	7440-47-3	E440/VA	0.50	mg/kg	229	141	----	----	----	----
Cobalt	7440-48-4	E440/VA	0.10	mg/kg	141	52.4	----	----	----	----
Copper	7440-50-8	E440/VA	0.50	mg/kg	6760	5030	----	----	----	----
Iron	7439-89-6	E440/VA	50	mg/kg	69300	44600	----	----	----	----
Lead	7439-92-1	E440/VA	0.50	mg/kg	304	372	----	----	----	----
Lithium	7439-93-2	E440/VA	2.0	mg/kg	59.1	41.9	----	----	----	----
Magnesium	7439-95-4	E440/VA	20	mg/kg	11800	12400	----	----	----	----
Manganese	7439-96-5	E440/VA	1.0	mg/kg	3190	940	----	----	----	----
Mercury	7439-97-6	E510/VA	0.0500	mg/kg	<0.0500	<0.0500	----	----	----	----
Molybdenum	7439-98-7	E440/VA	0.10	mg/kg	18.8	17.0	----	----	----	----
Nickel	7440-02-0	E440/VA	0.50	mg/kg	236	154	----	----	----	----
Phosphorus	7723-14-0	E440/VA	50	mg/kg	9770	11300	----	----	----	----



Analytical Results

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

					Client sample ID	BA 2604-A-11	BA 2604-A-12	----	----	----
					Client sampling date / time	21-Jan-2026 12:00	21-Jan-2026 12:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A1922-011	VA26A1922-012	----	----	----	----
					Result	Result	----	----	----	----
Metals										
Potassium	7440-09-7	E440/VA	100	mg/kg	4590	4840	----	----	----	----
Selenium	7782-49-2	E440/VA	0.20	mg/kg	0.34	0.24	----	----	----	----
Silver	7440-22-4	E440/VA	0.10	mg/kg	3.71	3.41	----	----	----	----
Sodium	7440-23-5	E440/VA	50	mg/kg	16600	17800	----	----	----	----
Strontium	7440-24-6	E440/VA	0.50	mg/kg	330	547	----	----	----	----
Sulfur	7704-34-9	E440/VA	1000	mg/kg	8600	9400	----	----	----	----
Thallium	7440-28-0	E440/VA	0.050	mg/kg	<0.050	<0.050	----	----	----	----
Tin	7440-31-5	E440/VA	2.0	mg/kg	218	123	----	----	----	----
Titanium	7440-32-6	E440/VA	1.0	mg/kg	662	374	----	----	----	----
Tungsten	7440-33-7	E440/VA	0.50	mg/kg	8.39	8.28	----	----	----	----
Uranium	7440-61-1	E440/VA	0.050	mg/kg	1.45	1.52	----	----	----	----
Vanadium	7440-62-2	E440/VA	0.20	mg/kg	35.9	31.0	----	----	----	----
Zinc	7440-66-6	E440/VA	2.0	mg/kg	2570	2500	----	----	----	----
Zirconium	7440-67-7	E440/VA	1.0	mg/kg	1.9	3.2	----	----	----	----
TCLP Metals										
pH, TCLP 1st preliminary	----	EPP444/VA	0.010	pH units	11.73	11.76	----	----	----	----
pH, TCLP 2nd preliminary	----	EPP444/VA	0.010	pH units	3.77	5.52	----	----	----	----
pH, TCLP extraction fluid initial	----	EPP444/VA	0.010	pH units	4.94	2.83	----	----	----	----
pH, TCLP final	----	EPP444/VA	0.010	pH units	10.61	7.06	----	----	----	----
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 2604-A-11 ----	BA 2604-A-12 ----	----	----	----
Client sampling date / time						21-Jan-2026 12:00	21-Jan-2026 12:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit		VA26A1922-011	VA26A1922-012	----	----	----
						Result	Result	----	----	----
TCLP Metals										
Barium, TCLP	7440-39-3	E444/VA	2.5	mg/L		<2.5	<2.5	----	----	----
Beryllium, TCLP	7440-41-7	E444/VA	0.025	mg/L		<0.025	<0.025	----	----	----
Boron, TCLP	7440-42-8	E444/VA	0.50	mg/L		1.19	3.82	----	----	----
Cadmium, TCLP	7440-43-9	E444/VA	0.050	mg/L		<0.050	0.100	----	----	----
Calcium, TCLP	7440-70-2	E444/VA	10	mg/L		738	1730	----	----	----
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	0.810	----	----	----
Copper, TCLP	7440-50-8	E444/VA	0.050	mg/L		0.854	0.767	----	----	----
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	114	----	----	----
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	6.09	----	----	----
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

Work Order	: VA26A1922	Page	: 1 of 15
Amendment	: 1		
Client	: Veolia Environmental Services Canada	Laboratory	: ALS Environmental - Vancouver
Contact	: Brian Graham	Account Manager	: Gulraj Dhanaua
Address	: 5150 Riverbend Dr. 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	: 27-Jan-2026 11:30
PO	: 1000620652	Issue Date	: 10-Feb-2026 11:16
C-O-C number	: ----		
Sampler	: ----		
Site	: Metro Van Ash Sampling Program		
Quote number	: VA25-VISI100-001		
No. of samples received	: 12		
No. of samples analysed	: 12		

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

Key

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

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

DQO: Data Quality Objective.

LOR: Limit of Reporting (detection limit).

RPD: Relative Percent Difference.

Workorder Comments

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

Summary of Outliers

Outliers : Quality Control Samples

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

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Analysis Holding Time Compliance

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

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

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

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

Matrix: **Soil/Solid**

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	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 2604-A-1	E510	21-Jan-2026	30-Jan-2026	28 days	9 days	✓	30-Jan-2026	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2604-A-10	E510	21-Jan-2026	30-Jan-2026	28 days	9 days	✓	30-Jan-2026	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2604-A-11	E510	21-Jan-2026	30-Jan-2026	28 days	9 days	✓	30-Jan-2026	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2604-A-12	E510	21-Jan-2026	30-Jan-2026	28 days	9 days	✓	30-Jan-2026	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2604-A-2	E510	21-Jan-2026	30-Jan-2026	28 days	9 days	✓	30-Jan-2026	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2604-A-3	E510	21-Jan-2026	30-Jan-2026	28 days	9 days	✓	30-Jan-2026	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2604-A-4	E510	21-Jan-2026	30-Jan-2026	28 days	9 days	✓	30-Jan-2026	28 days	0 days	✓



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2604-A-5	E510	21-Jan-2026	30-Jan-2026	28 days	9 days	✓	30-Jan-2026	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2604-A-6	E510	21-Jan-2026	30-Jan-2026	28 days	9 days	✓	30-Jan-2026	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2604-A-7	E510	21-Jan-2026	30-Jan-2026	28 days	9 days	✓	30-Jan-2026	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2604-A-8	E510	21-Jan-2026	30-Jan-2026	28 days	9 days	✓	30-Jan-2026	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2604-A-9	E510	21-Jan-2026	30-Jan-2026	28 days	9 days	✓	30-Jan-2026	28 days	0 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2604-A-1	E440	21-Jan-2026	30-Jan-2026	180 days	9 days	✓	30-Jan-2026	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2604-A-10	E440	21-Jan-2026	30-Jan-2026	180 days	9 days	✓	30-Jan-2026	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2604-A-11	E440	21-Jan-2026	30-Jan-2026	180 days	9 days	✓	30-Jan-2026	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2604-A-12	E440	21-Jan-2026	30-Jan-2026	180 days	9 days	✓	30-Jan-2026	180 days	9 days	✓



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2604-A-2	E440	21-Jan-2026	30-Jan-2026	180 days	9 days	✓	30-Jan-2026	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2604-A-3	E440	21-Jan-2026	30-Jan-2026	180 days	9 days	✓	30-Jan-2026	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2604-A-4	E440	21-Jan-2026	30-Jan-2026	180 days	9 days	✓	30-Jan-2026	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2604-A-5	E440	21-Jan-2026	30-Jan-2026	180 days	9 days	✓	30-Jan-2026	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2604-A-6	E440	21-Jan-2026	30-Jan-2026	180 days	9 days	✓	30-Jan-2026	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2604-A-7	E440	21-Jan-2026	30-Jan-2026	180 days	9 days	✓	30-Jan-2026	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2604-A-8	E440	21-Jan-2026	30-Jan-2026	180 days	9 days	✓	30-Jan-2026	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2604-A-9	E440	21-Jan-2026	30-Jan-2026	180 days	9 days	✓	30-Jan-2026	180 days	9 days	✓
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2604-A-1	E144	21-Jan-2026	----	----	----		29-Jan-2026	----	----	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2604-A-10	E144	21-Jan-2026	----	----	----		29-Jan-2026	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2604-A-11	E144	21-Jan-2026	----	----	----		29-Jan-2026	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2604-A-12	E144	21-Jan-2026	----	----	----		29-Jan-2026	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2604-A-2	E144	21-Jan-2026	----	----	----		29-Jan-2026	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2604-A-3	E144	21-Jan-2026	----	----	----		29-Jan-2026	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2604-A-4	E144	21-Jan-2026	----	----	----		29-Jan-2026	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2604-A-5	E144	21-Jan-2026	----	----	----		29-Jan-2026	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2604-A-6	E144	21-Jan-2026	----	----	----		29-Jan-2026	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2604-A-7	E144	21-Jan-2026	----	----	----		29-Jan-2026	----	----	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2604-A-8	E144	21-Jan-2026	----	----	----		29-Jan-2026	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2604-A-9	E144	21-Jan-2026	----	----	----		29-Jan-2026	----	----	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2604-A-1	E108	21-Jan-2026	30-Jan-2026	30 days	9 days	✓	30-Jan-2026	30 days	9 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2604-A-10	E108	21-Jan-2026	30-Jan-2026	30 days	9 days	✓	30-Jan-2026	30 days	9 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2604-A-11	E108	21-Jan-2026	30-Jan-2026	30 days	9 days	✓	30-Jan-2026	30 days	9 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2604-A-12	E108	21-Jan-2026	30-Jan-2026	30 days	9 days	✓	30-Jan-2026	30 days	9 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2604-A-2	E108	21-Jan-2026	30-Jan-2026	30 days	9 days	✓	30-Jan-2026	30 days	9 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2604-A-3	E108	21-Jan-2026	30-Jan-2026	30 days	9 days	✓	30-Jan-2026	30 days	9 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2604-A-4	E108	21-Jan-2026	30-Jan-2026	30 days	9 days	✓	30-Jan-2026	30 days	9 days	✓



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2604-A-5	E108	21-Jan-2026	30-Jan-2026	30 days	9 days	✓	30-Jan-2026	30 days	9 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2604-A-6	E108	21-Jan-2026	30-Jan-2026	30 days	9 days	✓	30-Jan-2026	30 days	9 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2604-A-7	E108	21-Jan-2026	30-Jan-2026	30 days	9 days	✓	30-Jan-2026	30 days	9 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2604-A-8	E108	21-Jan-2026	30-Jan-2026	30 days	9 days	✓	30-Jan-2026	30 days	9 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2604-A-9	E108	21-Jan-2026	30-Jan-2026	30 days	9 days	✓	30-Jan-2026	30 days	9 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2604-A-1	E512	28-Jan-2026	03-Feb-2026	35 days	13 days	✓	03-Feb-2026	35 days	13 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2604-A-2	E512	28-Jan-2026	03-Feb-2026	35 days	13 days	✓	03-Feb-2026	35 days	13 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2604-A-3	E512	28-Jan-2026	03-Feb-2026	35 days	13 days	✓	03-Feb-2026	35 days	13 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2604-A-4	E512	28-Jan-2026	03-Feb-2026	35 days	13 days	✓	03-Feb-2026	35 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 2604-A-5	E512	28-Jan-2026	03-Feb-2026	35 days	13 days	✓	03-Feb-2026	35 days	13 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2604-A-6	E512	28-Jan-2026	03-Feb-2026	35 days	13 days	✓	03-Feb-2026	35 days	13 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2604-A-10	E512	02-Feb-2026	03-Feb-2026	40 days	13 days	✓	03-Feb-2026	40 days	13 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2604-A-11	E512	02-Feb-2026	03-Feb-2026	40 days	13 days	✓	03-Feb-2026	40 days	13 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2604-A-12	E512	02-Feb-2026	03-Feb-2026	40 days	13 days	✓	03-Feb-2026	40 days	13 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2604-A-7	E512	02-Feb-2026	03-Feb-2026	40 days	13 days	✓	03-Feb-2026	40 days	13 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2604-A-8	E512	02-Feb-2026	03-Feb-2026	40 days	13 days	✓	03-Feb-2026	40 days	13 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2604-A-9	E512	02-Feb-2026	03-Feb-2026	40 days	13 days	✓	03-Feb-2026	40 days	13 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2604-A-1	E444	28-Jan-2026	03-Feb-2026	187 days	13 days	✓	03-Feb-2026	187 days	13 days	✓



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			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 2604-A-2	E444	28-Jan-2026	03-Feb-2026	187 days	13 days	✓	03-Feb-2026	187 days	13 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2604-A-3	E444	28-Jan-2026	03-Feb-2026	187 days	13 days	✓	03-Feb-2026	187 days	13 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2604-A-4	E444	28-Jan-2026	03-Feb-2026	187 days	13 days	✓	03-Feb-2026	187 days	13 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2604-A-5	E444	28-Jan-2026	03-Feb-2026	187 days	13 days	✓	03-Feb-2026	187 days	13 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2604-A-6	E444	28-Jan-2026	03-Feb-2026	187 days	13 days	✓	03-Feb-2026	187 days	13 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2604-A-10	E444	02-Feb-2026	03-Feb-2026	192 days	13 days	✓	03-Feb-2026	192 days	13 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2604-A-11	E444	02-Feb-2026	03-Feb-2026	192 days	13 days	✓	03-Feb-2026	192 days	13 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2604-A-12	E444	02-Feb-2026	03-Feb-2026	192 days	13 days	✓	03-Feb-2026	192 days	13 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2604-A-7	E444	02-Feb-2026	03-Feb-2026	192 days	13 days	✓	03-Feb-2026	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 2604-A-8	E444	02-Feb-2026	03-Feb-2026	192 days	13 days	✓	03-Feb-2026	192 days	13 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2604-A-9	E444	02-Feb-2026	03-Feb-2026	192 days	13 days	✓	03-Feb-2026	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 2604-A-10	EPP444	21-Jan-2026	02-Feb-2026	----	----		----	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 2604-A-11	EPP444	21-Jan-2026	02-Feb-2026	----	----		----	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 2604-A-12	EPP444	21-Jan-2026	02-Feb-2026	----	----		----	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 2604-A-7	EPP444	21-Jan-2026	02-Feb-2026	----	----		----	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 2604-A-8	EPP444	21-Jan-2026	02-Feb-2026	----	----		----	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 2604-A-9	EPP444	21-Jan-2026	02-Feb-2026	----	----		----	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 2604-A-1	EPP444	21-Jan-2026	28-Jan-2026	----	----		----	28 days	7 days	✓



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		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 2604-A-2	EPP444	21-Jan-2026	28-Jan-2026	----	----		----	28 days	7 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA 2604-A-3	EPP444	21-Jan-2026	28-Jan-2026	----	----		----	28 days	7 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA 2604-A-4	EPP444	21-Jan-2026	28-Jan-2026	----	----		----	28 days	7 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA 2604-A-5	EPP444	21-Jan-2026	28-Jan-2026	----	----		----	28 days	7 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA 2604-A-6	EPP444	21-Jan-2026	28-Jan-2026	----	----		----	28 days	7 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Soil/Solid**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Laboratory Duplicates (DUP)							
pH by Meter (1:2 Soil:Water Extraction)	E108	2435343	1	16	6.2	5.0	✔
Moisture Content by Gravimetry	E144	2435351	1	13	7.6	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2435345	1	16	6.2	5.0	✔
Metals by CRC ICPMS (TCLP)	E444	2439704	3	12	25.0	5.0	✔
Mercury in Soil/Solid by CVAAS	E510	2435344	1	16	6.2	5.0	✔
Mercury by CVAAS (TCLP)	E512	2439702	3	12	25.0	5.0	✔
Laboratory Control Samples (LCS)							
pH by Meter (1:2 Soil:Water Extraction)	E108	2435343	1	16	6.2	5.0	✔
Moisture Content by Gravimetry	E144	2435351	1	13	7.6	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2435345	2	16	12.5	10.0	✔
Mercury in Soil/Solid by CVAAS	E510	2435344	2	16	12.5	10.0	✔
Method Blanks (MB)							
Moisture Content by Gravimetry	E144	2435351	1	13	7.6	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2435345	1	16	6.2	5.0	✔
Metals by CRC ICPMS (TCLP)	E444	2439704	3	12	25.0	5.0	✔
Mercury in Soil/Solid by CVAAS	E510	2435344	1	16	6.2	5.0	✔
Mercury by CVAAS (TCLP)	E512	2439702	3	12	25.0	5.0	✔
Matrix Spikes (MS)							
Metals by CRC ICPMS (TCLP)	E444	2439704	3	12	25.0	5.0	✔
Mercury by CVAAS (TCLP)	E512	2439702	3	12	25.0	5.0	✔



Methodology References and Summaries

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

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
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.

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Work Order : VA26A1922 Amendment 1
Client : Veolia Environmental Services Canada
Project : Veolia Weekly Bottom Ash-Suite



Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
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	: VA26A1922		
Amendment	: 1		
Client	: Veolia Environmental Services Canada	Laboratory	: ALS Environmental - Vancouver
Contact	: Brian Graham	Account Manager	: Gulraj Dhanaa
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	: 27-Jan-2026 11:30
PO	: 1000620652	Date Analysis Commenced	: 28-Jan-2026
C-O-C number	: ----	Issue Date	: 10-Feb-2026 11:17
Sampler	: ----		
Site	: Metro Van Ash Sampling Program		
Quote number	: VA25-VISI100-001		
No. of samples received	: 12		
No. of samples analysed	: 12		

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

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- @ReferenceMaterial!
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

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

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Vancouver Organics, Burnaby, British Columbia
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Vancouver Metals, Burnaby, British Columbia
Kim Jensen	Department Manager - Metals	Vancouver Organics, Burnaby, British Columbia
Robert Nguyen	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

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: 2435343)											
VA26A1784-001	Anonymous	pH (1:2 soil:water)	----	E108	0.10	pH units	9.20	9.36	1.7 %	5%	---
Physical Tests(QC Lot: 2435351)											
VA26A1922-001	BA 2604-A-1	Moisture	----	E144	0.25	%	26.2	24.4	7.43 %	20%	---
Metals(QC Lot: 2435344)											
VA26A1784-001	Anonymous	Mercury	7439-97-6	E510	0.0500	mg/kg	<0.0500	<0.0500	0	Diff <2x LOR	---
Metals(QC Lot: 2435345)											
VA26A1784-001	Anonymous	Aluminum	7429-90-5	E440	50	mg/kg	25300	23700	6.72 %	40%	---
		Antimony	7440-36-0	E440	0.10	mg/kg	3.45	3.38	2.08 %	30%	---
		Arsenic	7440-38-2	E440	0.10	mg/kg	26.6	25.0	6.26 %	30%	---
		Barium	7440-39-3	E440	0.50	mg/kg	553	554	0.180 %	40%	---
		Beryllium	7440-41-7	E440	0.10	mg/kg	0.70	0.67	5.31 %	30%	---
		Bismuth	7440-69-9	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	---
		Boron	7440-42-8	E440	5.0	mg/kg	13.1	12.6	0.5	Diff <2x LOR	---
		Cadmium	7440-43-9	E440	0.020	mg/kg	0.081	0.094	0.013	Diff <2x LOR	---
		Calcium	7440-70-2	E440	50	mg/kg	80100	78500	2.01 %	30%	---
		Chromium	7440-47-3	E440	0.50	mg/kg	884	859	2.92 %	30%	---
		Cobalt	7440-48-4	E440	0.10	mg/kg	36.8	35.0	4.84 %	30%	---
		Copper	7440-50-8	E440	0.50	mg/kg	5840	6040	3.42 %	30%	---
		Iron	7439-89-6	E440	50	mg/kg	114000	107000	6.60 %	30%	---
		Lead	7439-92-1	E440	0.50	mg/kg	13.1	12.1	7.70 %	40%	---
		Lithium	7439-93-2	E440	2.0	mg/kg	17.6	17.1	2.65 %	30%	---
		Magnesium	7439-95-4	E440	20	mg/kg	37700	37100	1.46 %	30%	---
		Manganese	7439-96-5	E440	1.0	mg/kg	2310	2190	5.65 %	30%	---
		Molybdenum	7439-98-7	E440	0.10	mg/kg	3.88	3.80	2.16 %	40%	---
		Nickel	7440-02-0	E440	0.50	mg/kg	290	348	18.3 %	30%	---
		Phosphorus	7723-14-0	E440	50	mg/kg	1060	1020	3.99 %	30%	---
		Potassium	7440-09-7	E440	100	mg/kg	2530	2360	6.68 %	40%	---
		Selenium	7782-49-2	E440	0.20	mg/kg	0.58	0.63	0.05	Diff <2x LOR	---
		Silver	7440-22-4	E440	0.10	mg/kg	1.81	1.92	6.16 %	40%	---
		Sodium	7440-23-5	E440	50	mg/kg	527	493	6.69 %	40%	---
		Strontium	7440-24-6	E440	0.50	mg/kg	146	141	3.82 %	40%	---
		Sulfur	7704-34-9	E440	1000	mg/kg	1000	<1000	30	Diff <2x LOR	---
		Thallium	7440-28-0	E440	0.050	mg/kg	0.082	0.075	0.007	Diff <2x LOR	---
		Tin	7440-31-5	E440	2.0	mg/kg	9.8	10.0	0.2	Diff <2x LOR	---



Sub-Matrix: Soil

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: 2435345)											
		Titanium	7440-32-6	E440	1.0	mg/kg	1040	1010	2.96 %	40%	---
		Tungsten	7440-33-7	E440	0.50	mg/kg	7.50	7.86	4.63 %	30%	---
		Uranium	7440-61-1	E440	0.050	mg/kg	2.23	2.18	2.07 %	30%	---
		Vanadium	7440-62-2	E440	0.20	mg/kg	80.9	76.3	5.78 %	30%	---
		Zinc	7440-66-6	E440	2.0	mg/kg	1460	1510	3.37 %	30%	---
		Zirconium	7440-67-7	E440	1.0	mg/kg	7.6	8.8	14.7 %	30%	---
TCLP Metals(QC Lot: 2439274)											
VA26A1922-001	BA 2604-A-1	Mercury, TCLP	7439-97-6	E512	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	---
TCLP Metals(QC Lot: 2439275)											
VA26A1922-001	BA 2604-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	2.59	2.57	0.02	Diff <2x LOR	---
		Cadmium, TCLP	7440-43-9	E444	0.050	mg/L	0.110	0.112	0.002	Diff <2x LOR	---
		Calcium, TCLP	7440-70-2	E444	10	mg/L	1650	1720	4.40 %	30%	---
		Chromium, TCLP	7440-47-3	E444	0.25	mg/L	<0.25	<0.25	0	Diff <2x LOR	---
		Cobalt, TCLP	7440-48-4	E444	0.050	mg/L	1.17	1.18	1.20 %	30%	---
		Copper, TCLP	7440-50-8	E444	0.050	mg/L	0.863	0.876	1.50 %	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	115	114	0.455 %	30%	---
		Nickel, TCLP	7440-02-0	E444	0.25	mg/L	0.36	0.36	0.009	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	12.5	12.7	1.88 %	30%	---
		Zirconium, TCLP	7440-67-7	E444	10	mg/L	<10	<10	0	Diff <2x LOR	---
TCLP Metals(QC Lot: 2439700)											
VA26A1922-007	BA 2604-A-7	Mercury, TCLP	7439-97-6	E512	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	---
TCLP Metals(QC Lot: 2439702)											
VA26A1922-009	BA 2604-A-9	Mercury, TCLP	7439-97-6	E512	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	---
TCLP Metals(QC Lot: 2439703)											
VA26A1922-007	BA 2604-A-7	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	---



Sub-Matrix: Soil

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
TCLP Metals(QC Lot: 2439703)											
		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	1.36	1.33	0.04	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	695	687	1.18 %	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	0.717	0.691	3.74 %	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	---
TCLP Metals(QC Lot: 2439704)											
VA26A1922-009	BA 2604-A-9	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	3.09	3.07	0.02	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	1730	1660	3.89 %	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	0.725	0.729	0.517 %	30%	---
		Copper, TCLP	7440-50-8	E444	0.050	mg/L	0.843	0.844	0.0582 %	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	115	117	1.43 %	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	---



Sub-Matrix: Soil

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
TCLP Metals(QC Lot: 2439704)											
		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	7.92	7.98	0.735 %	30%	---
		Zirconium, TCLP	7440-67-7	E444	10	mg/L	<10	<10	0	Diff <2x LOR	---

Method Blank (MB) Report

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

Sub-Matrix: Soil/Solid

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests(QC Lot: 2435343)						
pH (1:2 soil:water)	----	E108	----	pH units	----	----
Physical Tests(QC Lot: 2435351)						
Moisture	----	E144	0.25	%	<0.25	----
Metals(QC Lot: 2435344)						
Mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	----
Metals(QC Lot: 2435345)						
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	----



Sub-Matrix: Soil/Solid

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals(QC Lot: 2435345)						
Lithium	7439-93-2	E440	2	mg/kg	<2.0	----
Magnesium	7439-95-4	E440	20	mg/kg	<20	----
Manganese	7439-96-5	E440	1	mg/kg	<1.0	----
Molybdenum	7439-98-7	E440	0.1	mg/kg	<0.10	----
Nickel	7440-02-0	E440	0.5	mg/kg	<0.50	----
Phosphorus	7723-14-0	E440	50	mg/kg	<50	----
Potassium	7440-09-7	E440	100	mg/kg	<100	----
Selenium	7782-49-2	E440	0.2	mg/kg	<0.20	----
Silver	7440-22-4	E440	0.1	mg/kg	<0.10	----
Sodium	7440-23-5	E440	50	mg/kg	<50	----
Strontium	7440-24-6	E440	0.5	mg/kg	<0.50	----
Sulfur	7704-34-9	E440	1000	mg/kg	<1000	----
Thallium	7440-28-0	E440	0.05	mg/kg	<0.050	----
Tin	7440-31-5	E440	2	mg/kg	<2.0	----
Titanium	7440-32-6	E440	1	mg/kg	<1.0	----
Tungsten	7440-33-7	E440	0.5	mg/kg	<0.50	----
Uranium	7440-61-1	E440	0.05	mg/kg	<0.050	----
Vanadium	7440-62-2	E440	0.2	mg/kg	<0.20	----
Zinc	7440-66-6	E440	2	mg/kg	<2.0	----
Zirconium	7440-67-7	E440	1	mg/kg	<1.0	----
TCLP Metals(QC Lot: 2439274)						
Mercury, TCLP	7439-97-6	E512	0.001	mg/L	<0.0010	----
TCLP Metals(QC Lot: 2439275)						
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	----



Sub-Matrix: Soil/Solid

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
TCLP Metals(QC Lot: 2439275)						
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(QC Lot: 2439700)						
Mercury, TCLP	7439-97-6	E512	0.001	mg/L	<0.0010	----
TCLP Metals(QC Lot: 2439702)						
Mercury, TCLP	7439-97-6	E512	0.001	mg/L	<0.0010	----
TCLP Metals(QC Lot: 2439703)						
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(QC Lot: 2439704)						
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	----



Sub-Matrix: Soil/Solid

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
TCLP Metals(QC Lot: 2439704)						
Boron, TCLP	7440-42-8	E444	0.5	mg/L	<0.50	----
Cadmium, TCLP	7440-43-9	E444	0.05	mg/L	<0.050	----
Calcium, TCLP	7440-70-2	E444	10	mg/L	<10	----
Chromium, TCLP	7440-47-3	E444	0.25	mg/L	<0.25	----
Cobalt, TCLP	7440-48-4	E444	0.05	mg/L	<0.050	----
Copper, TCLP	7440-50-8	E444	0.05	mg/L	<0.050	----
Iron, TCLP	7439-89-6	E444	5	mg/L	<5.0	----
Lead, TCLP	7439-92-1	E444	0.25	mg/L	<0.25	----
Magnesium, TCLP	7439-95-4	E444	2.5	mg/L	<2.5	----
Nickel, TCLP	7440-02-0	E444	0.25	mg/L	<0.25	----
Selenium, TCLP	7782-49-2	E444	0.1	mg/L	<0.10	----
Silver, TCLP	7440-22-4	E444	0.05	mg/L	<0.050	----
Thallium, TCLP	7440-28-0	E444	1	mg/L	<1.0	----
Uranium, TCLP	7440-61-1	E444	0.2	mg/L	<0.20	----
Vanadium, TCLP	7440-62-2	E444	0.15	mg/L	<0.15	----
Zinc, TCLP	7440-66-6	E444	0.5	mg/L	<0.50	----
Zirconium, TCLP	7440-67-7	E444	10	mg/L	<10	----

Laboratory Control Sample (LCS) Report

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

Sub-Matrix: Soil

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests(QC Lot: 2435343)									
pH (1:2 soil:water)	----	E108	----	pH units	6 pH units	101	95.0	105	----
Physical Tests(QC Lot: 2435351)									
Moisture	----	E144	0.25	%	50 %	101	90.0	110	----
Metals(QC Lot: 2435344)									
Mercury	7439-97-6	E510	0.005	mg/kg	0.1 mg/kg	97.9	80.0	120	----
Metals(QC Lot: 2435345)									
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	102	80.0	120	----
Arsenic	7440-38-2	E440	0.1	mg/kg	100 mg/kg	100	80.0	120	----
Barium	7440-39-3	E440	0.5	mg/kg	25 mg/kg	101	80.0	120	----



Sub-Matrix: Soil

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals(QC Lot: 2435345)									
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	95.9	80.0	120	----
Boron	7440-42-8	E440	5	mg/kg	100 mg/kg	94.0	80.0	120	----
Cadmium	7440-43-9	E440	0.02	mg/kg	10 mg/kg	100	80.0	120	----
Calcium	7440-70-2	E440	50	mg/kg	5000 mg/kg	97.9	80.0	120	----
Chromium	7440-47-3	E440	0.5	mg/kg	25 mg/kg	101	80.0	120	----
Cobalt	7440-48-4	E440	0.1	mg/kg	25 mg/kg	101	80.0	120	----
Copper	7440-50-8	E440	0.5	mg/kg	25 mg/kg	98.4	80.0	120	----
Iron	7439-89-6	E440	50	mg/kg	100 mg/kg	103	80.0	120	----
Lead	7439-92-1	E440	0.5	mg/kg	50 mg/kg	99.9	80.0	120	----
Lithium	7439-93-2	E440	2	mg/kg	25 mg/kg	97.1	80.0	120	----
Magnesium	7439-95-4	E440	20	mg/kg	5000 mg/kg	104	80.0	120	----
Manganese	7439-96-5	E440	1	mg/kg	25 mg/kg	101	80.0	120	----
Molybdenum	7439-98-7	E440	0.1	mg/kg	25 mg/kg	107	80.0	120	----
Nickel	7440-02-0	E440	0.5	mg/kg	50 mg/kg	99.1	80.0	120	----
Phosphorus	7723-14-0	E440	50	mg/kg	1000 mg/kg	109	80.0	120	----
Potassium	7440-09-7	E440	100	mg/kg	5000 mg/kg	101	80.0	120	----
Selenium	7782-49-2	E440	0.2	mg/kg	100 mg/kg	96.4	80.0	120	----
Silver	7440-22-4	E440	0.1	mg/kg	10 mg/kg	106	80.0	120	----
Sodium	7440-23-5	E440	50	mg/kg	5000 mg/kg	103	80.0	120	----
Strontium	7440-24-6	E440	0.5	mg/kg	25 mg/kg	111	80.0	120	----
Sulfur	7704-34-9	E440	1000	mg/kg	5000 mg/kg	95.7	80.0	120	----
Thallium	7440-28-0	E440	0.05	mg/kg	100 mg/kg	97.9	80.0	120	----
Tin	7440-31-5	E440	2	mg/kg	50 mg/kg	101	80.0	120	----
Titanium	7440-32-6	E440	1	mg/kg	25 mg/kg	98.1	80.0	120	----
Tungsten	7440-33-7	E440	0.5	mg/kg	10 mg/kg	97.3	80.0	120	----
Uranium	7440-61-1	E440	0.05	mg/kg	0.5 mg/kg	103	80.0	120	----
Vanadium	7440-62-2	E440	0.2	mg/kg	50 mg/kg	102	80.0	120	----
Zinc	7440-66-6	E440	2	mg/kg	50 mg/kg	95.8	80.0	120	----
Zirconium	7440-67-7	E440	1	mg/kg	10 mg/kg	105	80.0	120	----

Matrix Spike (MS) Report

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



Sub-Matrix: Soil

Sub-Matrix: Soil					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery (%)		Qualifie
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	
TCLP Metals(QC Lot: 2439274)										
VA26A1922-001	BA 2604-A-1	Mercury, TCLP	7439-97-6	E512	0.0028 mg/L	0.003 mg/L	92.4	50.0	140	---
TCLP Metals(QC Lot: 2439275)										
VA26A1922-001	BA 2604-A-1	Antimony, TCLP	7440-36-0	E444	5.03 mg/L	5 mg/L	101	50.0	140	---
		Arsenic, TCLP	7440-38-2	E444	4.8 mg/L	5 mg/L	95.4	50.0	140	---
		Barium, TCLP	7440-39-3	E444	12.2 mg/L	12.5 mg/L	97.6	50.0	140	---
		Beryllium, TCLP	7440-41-7	E444	0.242 mg/L	0.25 mg/L	96.8	50.0	140	---
		Boron, TCLP	7440-42-8	E444	9.16 mg/L	10 mg/L	91.6	50.0	140	---
		Cadmium, TCLP	7440-43-9	E444	0.240 mg/L	0.25 mg/L	96.1	50.0	140	---
		Calcium, TCLP	7440-70-2	E444	ND	----	ND	50.0	140	---
		Chromium, TCLP	7440-47-3	E444	1.19 mg/L	1.25 mg/L	95.0	50.0	140	---
		Cobalt, TCLP	7440-48-4	E444	ND	----	ND	50.0	140	---
		Copper, TCLP	7440-50-8	E444	2.26 mg/L	2.5 mg/L	90.3	50.0	140	---
		Iron, TCLP	7439-89-6	E444	230 mg/L	250 mg/L	92.1	50.0	140	---
		Lead, TCLP	7439-92-1	E444	9.36 mg/L	10 mg/L	93.6	50.0	140	---
		Magnesium, TCLP	7439-95-4	E444	234 mg/L	250 mg/L	93.4	50.0	140	---
		Nickel, TCLP	7440-02-0	E444	2.31 mg/L	2.5 mg/L	92.3	50.0	140	---
		Selenium, TCLP	7782-49-2	E444	4.81 mg/L	5 mg/L	96.3	50.0	140	---
		Silver, TCLP	7440-22-4	E444	0.097 mg/L	0.1 mg/L	97.3	50.0	140	---
		Thallium, TCLP	7440-28-0	E444	4.8 mg/L	5 mg/L	96.9	50.0	140	---
		Uranium, TCLP	7440-61-1	E444	4.75 mg/L	5 mg/L	95.0	50.0	150	---
		Vanadium, TCLP	7440-62-2	E444	0.72 mg/L	0.75 mg/L	96.3	50.0	140	---
		Zinc, TCLP	7440-66-6	E444	ND	----	ND	50.0	140	---
		Zirconium, TCLP	7440-67-7	E444	0.8 mg/L	1 mg/L	84.3	50.0	150	---
TCLP Metals(QC Lot: 2439700)										
VA26A1922-007	BA 2604-A-7	Mercury, TCLP	7439-97-6	E512	0.0027 mg/L	0.003 mg/L	89.6	50.0	140	---
TCLP Metals(QC Lot: 2439702)										
VA26A1922-009	BA 2604-A-9	Mercury, TCLP	7439-97-6	E512	0.0028 mg/L	0.003 mg/L	92.9	50.0	140	---
TCLP Metals(QC Lot: 2439703)										
VA26A1922-007	BA 2604-A-7	Antimony, TCLP	7440-36-0	E444	5.07 mg/L	5 mg/L	101	50.0	140	---
		Arsenic, TCLP	7440-38-2	E444	5.1 mg/L	5 mg/L	103	50.0	140	---
		Barium, TCLP	7440-39-3	E444	11.9 mg/L	12.5 mg/L	95.3	50.0	140	---
		Beryllium, TCLP	7440-41-7	E444	0.251 mg/L	0.25 mg/L	100	50.0	140	---
		Boron, TCLP	7440-42-8	E444	8.62 mg/L	10 mg/L	86.2	50.0	140	---
		Cadmium, TCLP	7440-43-9	E444	0.250 mg/L	0.25 mg/L	100	50.0	140	---
		Calcium, TCLP	7440-70-2	E444	ND	----	ND	50.0	140	---
		Chromium, TCLP	7440-47-3	E444	1.24 mg/L	1.25 mg/L	99.1	50.0	140	---
		Cobalt, TCLP	7440-48-4	E444	0.248 mg/L	0.25 mg/L	99.1	50.0	140	---



Sub-Matrix: Soil

Sub-Matrix: Soil					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery (%)		Qualifier
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	
TCLP Metals(QC Lot: 2439703)										
		Copper, TCLP	7440-50-8	E444	2.42 mg/L	2.5 mg/L	96.8	50.0	140	---
		Iron, TCLP	7439-89-6	E444	242 mg/L	250 mg/L	96.8	50.0	140	---
		Lead, TCLP	7439-92-1	E444	9.92 mg/L	10 mg/L	99.2	50.0	140	---
		Magnesium, TCLP	7439-95-4	E444	249 mg/L	250 mg/L	99.7	50.0	140	---
		Nickel, TCLP	7440-02-0	E444	2.46 mg/L	2.5 mg/L	98.2	50.0	140	---
		Selenium, TCLP	7782-49-2	E444	5.19 mg/L	5 mg/L	104	50.0	140	---
		Silver, TCLP	7440-22-4	E444	0.097 mg/L	0.1 mg/L	97.1	50.0	140	---
		Thallium, TCLP	7440-28-0	E444	4.9 mg/L	5 mg/L	98.9	50.0	140	---
		Uranium, TCLP	7440-61-1	E444	5.06 mg/L	5 mg/L	101	50.0	150	---
		Vanadium, TCLP	7440-62-2	E444	0.75 mg/L	0.75 mg/L	99.8	50.0	140	---
		Zinc, TCLP	7440-66-6	E444	9.82 mg/L	10 mg/L	98.2	50.0	140	---
		Zirconium, TCLP	7440-67-7	E444	0.7 mg/L	1 mg/L	74.8	50.0	150	---
TCLP Metals(QC Lot: 2439704)										
VA26A1922-009	BA 2604-A-9	Antimony, TCLP	7440-36-0	E444	5.20 mg/L	5 mg/L	104	50.0	140	---
		Arsenic, TCLP	7440-38-2	E444	5.1 mg/L	5 mg/L	103	50.0	140	---
		Barium, TCLP	7440-39-3	E444	12.4 mg/L	12.5 mg/L	99.4	50.0	140	---
		Beryllium, TCLP	7440-41-7	E444	0.246 mg/L	0.25 mg/L	98.4	50.0	140	---
		Boron, TCLP	7440-42-8	E444	8.29 mg/L	10 mg/L	82.9	50.0	140	---
		Cadmium, TCLP	7440-43-9	E444	0.257 mg/L	0.25 mg/L	103	50.0	140	---
		Calcium, TCLP	7440-70-2	E444	ND	----	ND	50.0	140	---
		Chromium, TCLP	7440-47-3	E444	1.25 mg/L	1.25 mg/L	99.7	50.0	140	---
		Cobalt, TCLP	7440-48-4	E444	ND	----	ND	50.0	140	---
		Copper, TCLP	7440-50-8	E444	2.41 mg/L	2.5 mg/L	96.3	50.0	140	---
		Iron, TCLP	7439-89-6	E444	251 mg/L	250 mg/L	100	50.0	140	---
		Lead, TCLP	7439-92-1	E444	9.84 mg/L	10 mg/L	98.4	50.0	140	---
		Magnesium, TCLP	7439-95-4	E444	249 mg/L	250 mg/L	99.6	50.0	140	---
		Nickel, TCLP	7440-02-0	E444	2.45 mg/L	2.5 mg/L	98.0	50.0	140	---
		Selenium, TCLP	7782-49-2	E444	5.23 mg/L	5 mg/L	105	50.0	140	---
		Silver, TCLP	7440-22-4	E444	0.100 mg/L	0.1 mg/L	100	50.0	140	---
		Thallium, TCLP	7440-28-0	E444	4.9 mg/L	5 mg/L	98.5	50.0	140	---
		Uranium, TCLP	7440-61-1	E444	4.97 mg/L	5 mg/L	99.3	50.0	150	---
		Vanadium, TCLP	7440-62-2	E444	0.74 mg/L	0.75 mg/L	98.8	50.0	140	---
		Zinc, TCLP	7440-66-6	E444	9.85 mg/L	10 mg/L	98.5	50.0	140	---
		Zirconium, TCLP	7440-67-7	E444	0.8 mg/L	1 mg/L	76.1	50.0	150	---



Reference Material (RM) Report

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



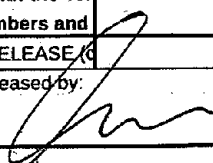
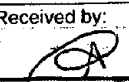
Sub-Matrix: Soil

Sub-Matrix: Soil					Reference Material (RM) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Target Concentration	Original Result	LCS	Low	High	Qualifier
Metals(QC Lot: 2435344)										
QC-MRG2-2435344001		Mercury	7439-97-6	E510	0.0675 mg/kg	0.0675 mg/kg		70.0	130	----
Metals(QC Lot: 2435345)										
QC-MRG2-2435344001		Aluminum	7429-90-5	E440	22490 mg/kg	22490 mg/kg		70.0	130	----
		Antimony	7440-36-0	E440	24.8 mg/kg	24.8 mg/kg		70.0	130	----
		Arsenic	7440-38-2	E440	21.2 mg/kg	21.2 mg/kg		70.0	130	----
		Barium	7440-39-3	E440	788 mg/kg	788 mg/kg		70.0	130	----
		Beryllium	7440-41-7	E440	1.82 mg/kg	1.82 mg/kg		70.0	130	----
		Bismuth	7440-69-9	E440	1.78 mg/kg	1.78 mg/kg		70.0	130	----
		Cadmium	7440-43-9	E440	2.15 mg/kg	2.15 mg/kg		70.0	130	----
		Calcium	7440-70-2	E440	4904 mg/kg	4904 mg/kg		70.0	130	----
		Chromium	7440-47-3	E440	56.9 mg/kg	56.9 mg/kg		70.0	130	----
		Cobalt	7440-48-4	E440	32 mg/kg	32 mg/kg		70.0	130	----
		Copper	7440-50-8	E440	969 mg/kg	969 mg/kg		70.0	130	----
		Iron	7439-89-6	E440	32740 mg/kg	32740 mg/kg		70.0	130	----
		Lead	7439-92-1	E440	919 mg/kg	919 mg/kg		70.0	130	----
		Lithium	7439-93-2	E440	47.3 mg/kg	47.3 mg/kg		70.0	130	----
		Magnesium	7439-95-4	E440	7780 mg/kg	7780 mg/kg		70.0	130	----
		Manganese	7439-96-5	E440	8639 mg/kg	8639 mg/kg		70.0	130	----
		Molybdenum	7439-98-7	E440	25.1 mg/kg	25.1 mg/kg		70.0	130	----
		Nickel	7440-02-0	E440	1004 mg/kg	1004 mg/kg		70.0	130	----
		Phosphorus	7723-14-0	E440	660 mg/kg	660 mg/kg		70.0	130	----
		Potassium	7440-09-7	E440	10820 mg/kg	10820 mg/kg		70.0	130	----
		Selenium	7782-49-2	E440	1.04 mg/kg	1.04 mg/kg		60.0	140	----



Sub-Matrix: Soil

Sub-Matrix: Soil					Reference Material (RM) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Target Concentration	Original Result	LCS	Low	High	Qualifier
Metals(QC Lot: 2435345)										
		Silver	7440-22-4	E440	8.98 mg/kg	8.98 mg/kg		70.0	130	----
		Sodium	7440-23-5	E440	1771 mg/kg	1771 mg/kg		70.0	130	----
		Strontium	7440-24-6	E440	41 mg/kg	41 mg/kg		70.0	130	----
		Sulfur	7704-34-9	E440	3935 mg/kg	3935 mg/kg		50.0	150	----
		Thallium	7440-28-0	E440	0.907 mg/kg	0.907 mg/kg		70.0	130	----
		Tin	7440-31-5	E440	3.79 mg/kg	3.79 mg/kg		40.0	160	----
		Titanium	7440-32-6	E440	2786 mg/kg	2786 mg/kg		70.0	130	----
		Tungsten	7440-33-7	E440	6.99 mg/kg	6.99 mg/kg		70.0	130	----
		Uranium	7440-61-1	E440	3.97 mg/kg	3.97 mg/kg		70.0	130	----
		Vanadium	7440-62-2	E440	66.2 mg/kg	66.2 mg/kg		70.0	130	----
		Zinc	7440-66-6	E440	828 mg/kg	828 mg/kg		70.0	130	----
		Zirconium	7440-67-7	E440	6.91 mg/kg	6.91 mg/kg		70.0	130	----

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: Darcie Grace / Ramy Ghanem																																																																																						
Address: 5150 Riverbend Drive			Email 1: Darcie.grace@veolia.com																																																																																			
Burnaby BC			Email 2: lorenzo.ilao@veolia.com																																																																																			
Phone: 604-521-1025 Fax:			Email 3: ramy.ghanem@veolia.com			Analysis Request																																																																																
			brent.kirkpatrick@metrovancover.org																																																																																			
			Sarah.Wellman@metrovancover.org																																																																																			
Invoice To Same as Report ? Veolia Water Canada			Client / Project Information			Please indicate below Filtered, Preserved or both (F, P, F/P)																																																																																
Hardcopy of Invoice with Report?			Job #: Veolia Weekly Bottom Ash - Suite			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td rowspan="4" style="writing-mode: vertical-rl; transform: rotate(180deg);">MET-TCLP-VA (all metals, Hg)</td> <td rowspan="4" style="writing-mode: vertical-rl; transform: rotate(180deg);">MOISTURE</td> <td rowspan="4" style="writing-mode: vertical-rl; transform: rotate(180deg);">Chromium 6</td> <td rowspan="4" style="writing-mode: vertical-rl; transform: rotate(180deg);">MET-CSP+FULL-VA (all metals)</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td rowspan="4" style="writing-mode: vertical-rl; transform: rotate(180deg);">Number of Containers</td> </tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>												MET-TCLP-VA (all metals, Hg)	MOISTURE	Chromium 6	MET-CSP+FULL-VA (all metals)																Number of Containers																																																	
MET-TCLP-VA (all metals, Hg)	MOISTURE	Chromium 6	MET-CSP+FULL-VA (all metals)																																Number of Containers																																																			
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 x209 Fax:			Quote #:																																																																																			
Lab Work Order # (lab use only) A1922			ALS Contact:		Sampler:																																																																																	
Sample #	Sample Identification (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type																																																																																		
	BA 2603-A-1	21 Jan 2026	12:00	Soil	X	X					X								1																																																																			
	BA 2603-A-2	21 Jan 2026	12:00	Soil	X	X					X								1																																																																			
	BA 2603-A-3	21 Jan 2026	12:00	Soil	X	X					X								1																																																																			
	BA 2603-A-4	21 Jan 2026	12:00	Soil	X	X					X								1																																																																			
	BA 2603-A-5	21 Jan 2026	12:00	Soil	X	X					X								1																																																																			
	BA 2603-A-6	21 Jan 2026	12:00	Soil	X	X					X								1																																																																			
	BA 2603-A-7	21 Jan 2026	12:00	Soil	X	X					X								1																																																																			
	BA 2603-A-8	21 Jan 2026	12:00	Soil	X	X					X								1																																																																			
	BA 2603-A-9	21 Jan 2026	12:00	Soil	X	X					X								1																																																																			
	BA 2603-A-10	21 Jan 2026	12:00	Soil	X	X					X								1																																																																			
	BA 2603-A-11	21 Jan 2026	12:00	Soil	X	X					X								1																																																																			
	BA 2603-A-12	21 Jan 2026	12:00	Soil	X	X					X								1																																																																			
water Aquatic																																																																																						
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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																																																																												
	27/01/26	06:45		Jan 27	11:30	17 °C																																																																																

Bottom Ash Sampling**Bottom Ash Worksheet**

Date sample composited (DD/MM/YYYY)	26/01/2020
Person doing the sampling	Daniel Lambert
Total Sample Weight before processing, kg	51.0 kg
Weight of Material >3/8", kg	4.7 kg
Weight of Material that cannot be processed to <3/8" (metal, wood, etc), kg	3.2 kg
Final Total weight of Processed Bottom Ash, kg	47.8 kg

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

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