Bottom Ash Data

2025 Week 22

The following analytical report represents bottom ash composite results for week 22 of 2025 (May 25, 2025 to May 31, 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	:	**VA25B2870**			
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	:	(includes 2:1 pH)	Date Samples Received	:	02-Jun-2025 10:10
C-O-C number	:	----	Date Analysis Commenced	:	04-Jun-2025
Sampler	:	----	Issue Date	:	09-Jun-2025 09:21
Site	:	Metro Van Ash Sampling Program			
Quote number	:	VA25-VISI100-001			
No. of samples received	:	12			
No. of samples analysed	:	12			

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

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

Signatories

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

Signatories	*Position*	*Laboratory Department*
Janice Leung	Supervisor - Organics Instrumentation	Organics, Burnaby, British Columbia
Kim Jensen	Department Manager - Metals	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.

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BA 2522-A-1	BA 2522-A-2	BA 2522-A-3	BA 2522-A-4	BA 2522-A-5
					Client sampling date / time	28-May-2025 09:00	28-May-2025 09:00	28-May-2025 09:00	28-May-2025 09:00	28-May-2025 09:00
						VA25B2870-001	VA25B2870-002	VA25B2870-003	VA25B2870-004	VA25B2870-005
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.25	%		24.0	23.7	22.8	22.6	22.8
pH (1:2 soil:water)	----	E108/VA	0.10	pH units		10.21	10.26	10.26	10.24	10.37
Metals										
Aluminum	7429-90-5	E440/VA	50	mg/kg		44900	44600	61200	41400	42000
Antimony	7440-36-0	E440/VA	0.10	mg/kg		123	126	110	138	108
Arsenic	7440-38-2	E440/VA	0.10	mg/kg		19.2	20.5	13.1	12.7	13.7
Barium	7440-39-3	E440/VA	0.50	mg/kg		639	654	591	591	528
Beryllium	7440-41-7	E440/VA	0.10	mg/kg		0.39	0.38	0.37	0.62	0.32
Bismuth	7440-69-9	E440/VA	0.20	mg/kg		6.95	8.37	8.06	6.95	6.73
Boron	7440-42-8	E440/VA	5.0	mg/kg		134	194	152	179	217
Cadmium	7440-43-9	E440/VA	0.020	mg/kg		5.92	6.47	6.14	15.8	5.93
Calcium	7440-70-2	E440/VA	50	mg/kg		137000	144000	137000	145000	142000
Chromium	7440-47-3	E440/VA	0.50	mg/kg		181	157	119	180	145
Cobalt	7440-48-4	E440/VA	0.10	mg/kg		85.7	343	180	190	109
Copper	7440-50-8	E440/VA	0.50	mg/kg		6890	1200	2900	2330	2310
Iron	7439-89-6	E440/VA	50	mg/kg		68000	52000	41200	44100	60500
Lead	7439-92-1	E440/VA	0.50	mg/kg		524	607	254	268	222
Lithium	7439-93-2	E440/VA	2.0	mg/kg		32.2	32.4	29.8	27.7	26.2
Magnesium	7439-95-4	E440/VA	20	mg/kg		13200	12600	13800	12800	11600
Manganese	7439-96-5	E440/VA	1.0	mg/kg		931	711	1250	821	704
Mercury	7439-97-6	E510/VA	0.0500	mg/kg		0.0602	0.0520	<0.0500	<0.0500	<0.0500

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BA 2522-A-1	BA 2522-A-2	BA 2522-A-3	BA 2522-A-4	BA 2522-A-5
					Client sampling date / time	28-May-2025 09:00	28-May-2025 09:00	28-May-2025 09:00	28-May-2025 09:00	28-May-2025 09:00
						VA25B2870-001	VA25B2870-002	VA25B2870-003	VA25B2870-004	VA25B2870-005
						Result	Result	Result	Result	Result
Metals										
Molybdenum	7439-98-7	E440/VA	0.10	mg/kg		26.4	18.6	15.6	15.5	19.3
Nickel	7440-02-0	E440/VA	0.50	mg/kg		293	186	237	111	150
Phosphorus	7723-14-0	E440/VA	50	mg/kg		13600	14500	14700	13000	13200
Potassium	7440-09-7	E440/VA	100	mg/kg		6190	6360	5590	5920	5020
Selenium	7782-49-2	E440/VA	0.20	mg/kg		0.47	0.49	0.41	0.43	0.70
Silver	7440-22-4	E440/VA	0.10	mg/kg		7.97	5.79	10.2	4.57	3.78
Sodium	7440-23-5	E440/VA	50	mg/kg		18000	19300	16000	16800	15600
Strontium	7440-24-6	E440/VA	0.50	mg/kg		269	306	263	294	260
Sulfur	7704-34-9	E440/VA	1000	mg/kg		11300	11600	9800	11000	10600
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		106	117	128	123	145
Titanium	7440-32-6	E440/VA	1.0	mg/kg		257	275	336	295	256
Tungsten	7440-33-7	E440/VA	0.50	mg/kg		7.54	11.0	8.02	8.22	9.80
Uranium	7440-61-1	E440/VA	0.050	mg/kg		4.19	2.29	2.19	2.28	2.07
Vanadium	7440-62-2	E440/VA	0.20	mg/kg		46.8	36.8	38.1	44.9	32.6
Zinc	7440-66-6	E440/VA	2.0	mg/kg		3950	4050	6080	3290	7970
Zirconium	7440-67-7	E440/VA	1.0	mg/kg		2.5	2.5	3.0	2.4	2.8
TCLP Metals										
pH, TCLP 1st preliminary	----	EPP444/VA	0.010	pH units		11.51	11.52	11.49	11.46	11.60
pH, TCLP 2nd preliminary	----	EPP444/VA	0.010	pH units		2.89	2.40	2.79	2.31	3.12
pH, TCLP extraction fluid initial	----	EPP444/VA	0.010	pH units		4.94	4.94	4.94	4.94	4.94

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BA 2522-A-1	BA 2522-A-2	BA 2522-A-3	BA 2522-A-4	BA 2522-A-5
					Client sampling date / time	28-May-2025 09:00	28-May-2025 09:00	28-May-2025 09:00	28-May-2025 09:00	28-May-2025 09:00
						VA25B2870-001	VA25B2870-002	VA25B2870-003	VA25B2870-004	VA25B2870-005
						Result	Result	Result	Result	Result
TCLP Metals										
pH, TCLP final	----	EPP444/VA	0.010	pH units		10.13	10.24	10.11	9.67	9.74
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	0.71	0.71	0.88	0.83
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		803	874	854	954	949
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		0.879	0.866	0.892	0.835	0.831
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	9.1	5.2
Mercury, TCLP	7439-97-6	E512/VA	0.0010	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Nickel, TCLP	7440-02-0	E444/VA	0.25	mg/L		<0.25	<0.25	<0.25	<0.25	<0.25
Selenium, TCLP	7782-49-2	E444/VA	0.10	mg/L		<0.10	<0.10	<0.10	<0.10	<0.10
Silver, TCLP	7440-22-4	E444/VA	0.050	mg/L		<0.050	<0.050	<0.050	<0.050	<0.050
Thallium, TCLP	7440-28-0	E444/VA	1.0	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Uranium, TCLP	7440-61-1	E444/VA	0.20	mg/L		<0.20	<0.20	<0.20	<0.20	<0.20
Vanadium, TCLP	7440-62-2	E444/VA	0.15	mg/L		<0.15	<0.15	<0.15	<0.15	<0.15

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BA 2522-A-1	BA 2522-A-2	BA 2522-A-3	BA 2522-A-4	BA 2522-A-5
					Client sampling date / time	28-May-2025 09:00	28-May-2025 09:00	28-May-2025 09:00	28-May-2025 09:00	28-May-2025 09:00
						VA25B2870-001	VA25B2870-002	VA25B2870-003	VA25B2870-004	VA25B2870-005
						Result	Result	Result	Result	Result
TCLP Metals										
Zinc, TCLP	7440-66-6	E444/VA	0.50	mg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Zirconium, TCLP	7440-67-7	E444/VA	10	mg/L		<10	<10	<10	<10	<10

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

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BA 2522-A-6	BA 2522-A-7	BA 2522-A-8	BA 2522-A-9	BA 2522-A-10
					Client sampling date / time	28-May-2025 09:00	28-May-2025 09:00	28-May-2025 09:00	28-May-2025 09:00	28-May-2025 09:00
						VA25B2870-006	VA25B2870-007	VA25B2870-008	VA25B2870-009	VA25B2870-010
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.25	%		23.6	23.9	21.9	23.0	23.0
pH (1:2 soil:water)	----	E108/VA	0.10	pH units		10.28	10.34	10.27	10.39	10.40
Metals										
Aluminum	7429-90-5	E440/VA	50	mg/kg		65400	78800	45600	52700	34200
Antimony	7440-36-0	E440/VA	0.10	mg/kg		132	115	100	128	113
Arsenic	7440-38-2	E440/VA	0.10	mg/kg		14.5	13.0	12.7	13.6	15.6
Barium	7440-39-3	E440/VA	0.50	mg/kg		663	671	557	676	589
Beryllium	7440-41-7	E440/VA	0.10	mg/kg		0.38	0.39	0.52	0.42	0.36
Bismuth	7440-69-9	E440/VA	0.20	mg/kg		7.42	6.85	10.1	8.37	17.4
Boron	7440-42-8	E440/VA	5.0	mg/kg		150	199	144	180	184
Cadmium	7440-43-9	E440/VA	0.020	mg/kg		6.72	7.06	6.72	5.82	5.84
Calcium	7440-70-2	E440/VA	50	mg/kg		141000	134000	134000	148000	133000

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BA 2522-A-6	BA 2522-A-7	BA 2522-A-8	BA 2522-A-9	BA 2522-A-10
					Client sampling date / time	28-May-2025 09:00	28-May-2025 09:00	28-May-2025 09:00	28-May-2025 09:00	28-May-2025 09:00
						VA25B2870-006	VA25B2870-007	VA25B2870-008	VA25B2870-009	VA25B2870-010
						Result	Result	Result	Result	Result
Metals										
Chromium	7440-47-3	E440/VA	0.50	mg/kg		174	134	125	149	238
Cobalt	7440-48-4	E440/VA	0.10	mg/kg		41.1	104	285	70.0	204
Copper	7440-50-8	E440/VA	0.50	mg/kg		2040	1100	1080	2650	2920
Iron	7439-89-6	E440/VA	50	mg/kg		65200	56900	46800	49900	68000
Lead	7439-92-1	E440/VA	0.50	mg/kg		279	426	297	334	275
Lithium	7439-93-2	E440/VA	2.0	mg/kg		29.3	32.8	29.1	28.9	33.8
Magnesium	7439-95-4	E440/VA	20	mg/kg		13000	11200	12400	12600	11400
Manganese	7439-96-5	E440/VA	1.0	mg/kg		741	1100	750	1040	1070
Mercury	7439-97-6	E510/VA	0.0500	mg/kg		<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
Molybdenum	7439-98-7	E440/VA	0.10	mg/kg		33.2	16.2	15.4	19.7	28.4
Nickel	7440-02-0	E440/VA	0.50	mg/kg		251	143	110	131	1420
Phosphorus	7723-14-0	E440/VA	50	mg/kg		13300	14800	12600	12900	12500
Potassium	7440-09-7	E440/VA	100	mg/kg		6010	5540	6190	6080	5810
Selenium	7782-49-2	E440/VA	0.20	mg/kg		0.35	0.43	0.43	0.43	0.40
Silver	7440-22-4	E440/VA	0.10	mg/kg		4.61	3.85	4.37	10.4	3.56
Sodium	7440-23-5	E440/VA	50	mg/kg		16800	16300	16600	16900	17400
Strontium	7440-24-6	E440/VA	0.50	mg/kg		286	269	275	328	311
Sulfur	7704-34-9	E440/VA	1000	mg/kg		10600	11300	11300	12100	10200
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		321	86.7	85.3	93.5	112
Titanium	7440-32-6	E440/VA	1.0	mg/kg		382	573	205	310	233

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BA 2522-A-6	BA 2522-A-7	BA 2522-A-8	BA 2522-A-9	BA 2522-A-10
					Client sampling date / time	28-May-2025 09:00	28-May-2025 09:00	28-May-2025 09:00	28-May-2025 09:00	28-May-2025 09:00
						VA25B2870-006	VA25B2870-007	VA25B2870-008	VA25B2870-009	VA25B2870-010
						Result	Result	Result	Result	Result
Metals										
Tungsten	7440-33-7	E440/VA	0.50	mg/kg		17.0	10.2	7.13	9.86	8.50
Uranium	7440-61-1	E440/VA	0.050	mg/kg		2.16	2.34	2.35	2.34	2.82
Vanadium	7440-62-2	E440/VA	0.20	mg/kg		39.7	40.8	36.7	38.8	39.4
Zinc	7440-66-6	E440/VA	2.0	mg/kg		4300	4300	2920	3760	3180
Zirconium	7440-67-7	E440/VA	1.0	mg/kg		3.7	4.0	3.8	2.6	2.6
TCLP Metals										
pH, TCLP 1st preliminary	----	EPP444/VA	0.010	pH units		11.57	11.53	11.46	11.53	11.47
pH, TCLP 2nd preliminary	----	EPP444/VA	0.010	pH units		3.03	2.12	2.63	2.76	2.39
pH, TCLP extraction fluid initial	----	EPP444/VA	0.010	pH units		4.94	4.94	4.94	4.94	4.94
pH, TCLP final	----	EPP444/VA	0.010	pH units		9.92	10.03	9.75	10.00	9.78
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		0.80	0.75	0.83	0.78	0.83
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		974	929	983	918	954
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		0.872	0.821	0.798	0.860	0.830
Iron, TCLP	7439-89-6	E444/VA	5.0	mg/L		<5.0	<5.0	<5.0	<5.0	<5.0

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BA 2522-A-6	BA 2522-A-7	BA 2522-A-8	BA 2522-A-9	BA 2522-A-10
					Client sampling date / time	28-May-2025 09:00	28-May-2025 09:00	28-May-2025 09:00	28-May-2025 09:00	28-May-2025 09:00
						VA25B2870-006	VA25B2870-007	VA25B2870-008	VA25B2870-009	VA25B2870-010
						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		5.8	4.6	10.6	5.6	8.4
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)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BA 2522-A-11	BA 2522-A-12	----	----	----
					Client sampling date / time	28-May-2025 09:00	28-May-2025 09:00	----	----	----
						VA25B2870-011	VA25B2870-012	----	----	----
						Result	Result	----	----	----
Physical Tests										
Moisture	----	E144/VA	0.25	%		22.5	24.0	----	----	----
pH (1:2 soil:water)	----	E108/VA	0.10	pH units		10.44	10.48	----	----	----

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BA 2522-A-11	BA 2522-A-12	----	----	----
					Client sampling date / time	28-May-2025 09:00	28-May-2025 09:00	----	----	----
						VA25B2870-011	VA25B2870-012	----	----	----
						Result	Result	----	----	----
Metals										
Aluminum	7429-90-5	E440/VA	50	mg/kg		44600	36700	----	----	----
Antimony	7440-36-0	E440/VA	0.10	mg/kg		107	117	----	----	----
Arsenic	7440-38-2	E440/VA	0.10	mg/kg		12.2	15.5	----	----	----
Barium	7440-39-3	E440/VA	0.50	mg/kg		575	544	----	----	----
Beryllium	7440-41-7	E440/VA	0.10	mg/kg		0.36	0.39	----	----	----
Bismuth	7440-69-9	E440/VA	0.20	mg/kg		7.37	7.34	----	----	----
Boron	7440-42-8	E440/VA	5.0	mg/kg		183	136	----	----	----
Cadmium	7440-43-9	E440/VA	0.020	mg/kg		5.45	6.22	----	----	----
Calcium	7440-70-2	E440/VA	50	mg/kg		144000	136000	----	----	----
Chromium	7440-47-3	E440/VA	0.50	mg/kg		135	447	----	----	----
Cobalt	7440-48-4	E440/VA	0.10	mg/kg		32.4	503	----	----	----
Copper	7440-50-8	E440/VA	0.50	mg/kg		1200	1380	----	----	----
Iron	7439-89-6	E440/VA	50	mg/kg		53000	60100	----	----	----
Lead	7439-92-1	E440/VA	0.50	mg/kg		257	777	----	----	----
Lithium	7439-93-2	E440/VA	2.0	mg/kg		26.5	43.7	----	----	----
Magnesium	7439-95-4	E440/VA	20	mg/kg		11700	10700	----	----	----
Manganese	7439-96-5	E440/VA	1.0	mg/kg		756	807	----	----	----
Mercury	7439-97-6	E510/VA	0.0500	mg/kg		<0.0500	<0.0500	----	----	----
Molybdenum	7439-98-7	E440/VA	0.10	mg/kg		18.4	23.3	----	----	----
Nickel	7440-02-0	E440/VA	0.50	mg/kg		119	402	----	----	----
Phosphorus	7723-14-0	E440/VA	50	mg/kg		13300	12900	----	----	----

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BA 2522-A-11	BA 2522-A-12	----	----	----
					Client sampling date / time	28-May-2025 09:00	28-May-2025 09:00	----	----	----
						VA25B2870-011	VA25B2870-012	----	----	----
						Result	Result	----	----	----
Metals										
Potassium	7440-09-7	E440/VA	100	mg/kg		5370	5880	----	----	----
Selenium	7782-49-2	E440/VA	0.20	mg/kg		0.40	0.48	----	----	----
Silver	7440-22-4	E440/VA	0.10	mg/kg		3.98	22.2	----	----	----
Sodium	7440-23-5	E440/VA	50	mg/kg		16600	16700	----	----	----
Strontium	7440-24-6	E440/VA	0.50	mg/kg		299	308	----	----	----
Sulfur	7704-34-9	E440/VA	1000	mg/kg		10500	11300	----	----	----
Thallium	7440-28-0	E440/VA	0.050	mg/kg		<0.050	<0.050	----	----	----
Tin	7440-31-5	E440/VA	2.0	mg/kg		103	168	----	----	----
Titanium	7440-32-6	E440/VA	1.0	mg/kg		298	260	----	----	----
Tungsten	7440-33-7	E440/VA	0.50	mg/kg		8.31	9.65	----	----	----
Uranium	7440-61-1	E440/VA	0.050	mg/kg		2.02	2.30	----	----	----
Vanadium	7440-62-2	E440/VA	0.20	mg/kg		31.9	33.4	----	----	----
Zinc	7440-66-6	E440/VA	2.0	mg/kg		3130	3160	----	----	----
Zirconium	7440-67-7	E440/VA	1.0	mg/kg		1.8	2.7	----	----	----
TCLP Metals										
pH, TCLP 1st preliminary	----	EPP444/VA	0.010	pH units		11.51	11.53	----	----	----
pH, TCLP 2nd preliminary	----	EPP444/VA	0.010	pH units		2.99	3.15	----	----	----
pH, TCLP extraction fluid initial	----	EPP444/VA	0.010	pH units		4.94	4.94	----	----	----
pH, TCLP final	----	EPP444/VA	0.010	pH units		9.95	10.07	----	----	----
Antimony, TCLP	7440-36-0	E444/VA	1.00	mg/L		<1.00	<1.00	----	----	----
Arsenic, TCLP	7440-38-2	E444/VA	1.0	mg/L		<1.0	<1.0	----	----	----

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BA 2522-A-11	BA 2522-A-12	----	----	----
					Client sampling date / time	28-May-2025 09:00	28-May-2025 09:00	----	----	----
						VA25B2870-011	VA25B2870-012	----	----	----
						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		0.79	0.78	----	----	----
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		956	958	----	----	----
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		0.854	0.841	----	----	----
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		6.3	4.8	----	----	----
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.

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QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **VA25B2870**	Page	: 1 of 16
Client	: **Veolia Environmental Services Canada**	Laboratory	: ALS Environmental - Vancouver
Contact	: Brian Graham	Account Manager	: Gulraj Dhanaua
Address	: 5150 Riverbend Dr. Burnaby BC Canada V3N 4V3	Address	: 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9
Telephone	: ----	Telephone	: +1 604 253 4188
Project	: Veolia Weekly Bottom Ash-Suite	Date Samples Received	: 02-Jun-2025 10:10
PO	: (includes 2:1 pH)	Issue Date	: 09-Jun-2025 09:20
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 Matrix Spike outliers occur.
- Laboratory Control Sample (LCS) 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
Laboratory Control Sample (LCS) Recoveries								
Metals	QC-MRG2-2034653 002	----	Phosphorus	7723-14-0	E440	122 % MES	80.0-120%	Recovery greater than upper control limit

Result Qualifiers

Qualifier	*Description*
MES	*Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).*

Analysis Holding Time Compliance

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

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

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

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

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2522-A-1	E510	28-May-2025	06-Jun-2025	28 days	9 days	✓	07-Jun-2025	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2522-A-10	E510	28-May-2025	06-Jun-2025	28 days	9 days	✓	07-Jun-2025	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2522-A-11	E510	28-May-2025	06-Jun-2025	28 days	9 days	✓	07-Jun-2025	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2522-A-12	E510	28-May-2025	06-Jun-2025	28 days	9 days	✓	07-Jun-2025	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2522-A-2	E510	28-May-2025	06-Jun-2025	28 days	9 days	✓	07-Jun-2025	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2522-A-3	E510	28-May-2025	06-Jun-2025	28 days	9 days	✓	07-Jun-2025	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2522-A-4	E510	28-May-2025	06-Jun-2025	28 days	9 days	✓	07-Jun-2025	28 days	1 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2522-A-5	E510	28-May-2025	06-Jun-2025	28 days	9 days	✓	07-Jun-2025	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2522-A-6	E510	28-May-2025	06-Jun-2025	28 days	9 days	✓	07-Jun-2025	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2522-A-7	E510	28-May-2025	06-Jun-2025	28 days	9 days	✓	07-Jun-2025	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2522-A-8	E510	28-May-2025	06-Jun-2025	28 days	9 days	✓	07-Jun-2025	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2522-A-9	E510	28-May-2025	06-Jun-2025	28 days	9 days	✓	07-Jun-2025	28 days	1 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2522-A-1	E440	28-May-2025	06-Jun-2025	180 days	9 days	✓	07-Jun-2025	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2522-A-10	E440	28-May-2025	06-Jun-2025	180 days	9 days	✓	07-Jun-2025	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2522-A-11	E440	28-May-2025	06-Jun-2025	180 days	9 days	✓	07-Jun-2025	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2522-A-12	E440	28-May-2025	06-Jun-2025	180 days	9 days	✓	07-Jun-2025	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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2522-A-2	E440	28-May-2025	06-Jun-2025	180 days	9 days	✓	07-Jun-2025	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2522-A-3	E440	28-May-2025	06-Jun-2025	180 days	9 days	✓	07-Jun-2025	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2522-A-4	E440	28-May-2025	06-Jun-2025	180 days	9 days	✓	07-Jun-2025	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2522-A-5	E440	28-May-2025	06-Jun-2025	180 days	9 days	✓	07-Jun-2025	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2522-A-6	E440	28-May-2025	06-Jun-2025	180 days	9 days	✓	07-Jun-2025	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2522-A-7	E440	28-May-2025	06-Jun-2025	180 days	9 days	✓	07-Jun-2025	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2522-A-8	E440	28-May-2025	06-Jun-2025	180 days	9 days	✓	07-Jun-2025	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2522-A-9	E440	28-May-2025	06-Jun-2025	180 days	9 days	✓	07-Jun-2025	180 days	9 days	✓
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2522-A-1	E144	28-May-2025	----	----	----		05-Jun-2025	----	----	

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2522-A-10	E144	28-May-2025	----	----	----		05-Jun-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2522-A-11	E144	28-May-2025	----	----	----		05-Jun-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2522-A-12	E144	28-May-2025	----	----	----		05-Jun-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2522-A-2	E144	28-May-2025	----	----	----		05-Jun-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2522-A-3	E144	28-May-2025	----	----	----		05-Jun-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2522-A-4	E144	28-May-2025	----	----	----		05-Jun-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2522-A-5	E144	28-May-2025	----	----	----		05-Jun-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2522-A-6	E144	28-May-2025	----	----	----		05-Jun-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2522-A-7	E144	28-May-2025	----	----	----		05-Jun-2025	----	----	

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2522-A-8	E144	28-May-2025	----	----	----		05-Jun-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2522-A-9	E144	28-May-2025	----	----	----		05-Jun-2025	----	----	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2522-A-1	E108	28-May-2025	06-Jun-2025	30 days	9 days	✓	07-Jun-2025	30 days	9 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2522-A-10	E108	28-May-2025	06-Jun-2025	30 days	9 days	✓	07-Jun-2025	30 days	9 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2522-A-11	E108	28-May-2025	06-Jun-2025	30 days	9 days	✓	07-Jun-2025	30 days	9 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2522-A-12	E108	28-May-2025	06-Jun-2025	30 days	9 days	✓	07-Jun-2025	30 days	9 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2522-A-2	E108	28-May-2025	06-Jun-2025	30 days	9 days	✓	07-Jun-2025	30 days	9 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2522-A-3	E108	28-May-2025	06-Jun-2025	30 days	9 days	✓	07-Jun-2025	30 days	9 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2522-A-4	E108	28-May-2025	06-Jun-2025	30 days	9 days	✓	07-Jun-2025	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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2522-A-5	E108	28-May-2025	06-Jun-2025	30 days	9 days	✓	07-Jun-2025	30 days	9 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2522-A-6	E108	28-May-2025	06-Jun-2025	30 days	9 days	✓	07-Jun-2025	30 days	9 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2522-A-7	E108	28-May-2025	06-Jun-2025	30 days	9 days	✓	07-Jun-2025	30 days	9 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2522-A-8	E108	28-May-2025	06-Jun-2025	30 days	9 days	✓	07-Jun-2025	30 days	9 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2522-A-9	E108	28-May-2025	06-Jun-2025	30 days	9 days	✓	07-Jun-2025	30 days	9 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2522-A-1	E512	04-Jun-2025	06-Jun-2025	35 days	9 days	✓	06-Jun-2025	35 days	9 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2522-A-10	E512	04-Jun-2025	06-Jun-2025	35 days	9 days	✓	06-Jun-2025	35 days	9 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2522-A-11	E512	04-Jun-2025	06-Jun-2025	35 days	9 days	✓	06-Jun-2025	35 days	9 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2522-A-12	E512	04-Jun-2025	06-Jun-2025	35 days	9 days	✓	06-Jun-2025	35 days	9 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2522-A-2	E512	04-Jun-2025	06-Jun-2025	35 days	9 days	✓	06-Jun-2025	35 days	9 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2522-A-3	E512	04-Jun-2025	06-Jun-2025	35 days	9 days	✓	06-Jun-2025	35 days	9 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2522-A-4	E512	04-Jun-2025	06-Jun-2025	35 days	9 days	✓	06-Jun-2025	35 days	9 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2522-A-5	E512	04-Jun-2025	06-Jun-2025	35 days	9 days	✓	06-Jun-2025	35 days	9 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2522-A-6	E512	04-Jun-2025	06-Jun-2025	35 days	9 days	✓	06-Jun-2025	35 days	9 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2522-A-7	E512	04-Jun-2025	06-Jun-2025	35 days	9 days	✓	06-Jun-2025	35 days	9 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2522-A-8	E512	04-Jun-2025	06-Jun-2025	35 days	9 days	✓	06-Jun-2025	35 days	9 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2522-A-9	E512	04-Jun-2025	06-Jun-2025	35 days	9 days	✓	06-Jun-2025	35 days	9 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2522-A-1	E444	04-Jun-2025	05-Jun-2025	187 days	8 days	✓	07-Jun-2025	187 days	8 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2522-A-10	E444	04-Jun-2025	05-Jun-2025	187 days	8 days	✓	07-Jun-2025	187 days	8 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2522-A-11	E444	04-Jun-2025	05-Jun-2025	187 days	8 days	✓	07-Jun-2025	187 days	8 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2522-A-12	E444	04-Jun-2025	05-Jun-2025	187 days	8 days	✓	07-Jun-2025	187 days	8 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2522-A-2	E444	04-Jun-2025	05-Jun-2025	187 days	8 days	✓	07-Jun-2025	187 days	8 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2522-A-3	E444	04-Jun-2025	05-Jun-2025	187 days	8 days	✓	07-Jun-2025	187 days	8 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2522-A-4	E444	04-Jun-2025	05-Jun-2025	187 days	8 days	✓	07-Jun-2025	187 days	8 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2522-A-5	E444	04-Jun-2025	05-Jun-2025	187 days	8 days	✓	07-Jun-2025	187 days	8 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2522-A-6	E444	04-Jun-2025	05-Jun-2025	187 days	8 days	✓	07-Jun-2025	187 days	8 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2522-A-7	E444	04-Jun-2025	05-Jun-2025	187 days	8 days	✓	07-Jun-2025	187 days	8 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved)										
BA 2522-A-8	E444	04-Jun-2025	05-Jun-2025	187 days	8 days	✓	07-Jun-2025	187 days	8 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved)										
BA 2522-A-9	E444	04-Jun-2025	05-Jun-2025	187 days	8 days	✓	07-Jun-2025	187 days	8 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)										
BA 2522-A-1	EPP444	28-May-2025	04-Jun-2025	----	----		----	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 2522-A-10	EPP444	28-May-2025	04-Jun-2025	----	----		----	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 2522-A-11	EPP444	28-May-2025	04-Jun-2025	----	----		----	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 2522-A-12	EPP444	28-May-2025	04-Jun-2025	----	----		----	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 2522-A-2	EPP444	28-May-2025	04-Jun-2025	----	----		----	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 2522-A-3	EPP444	28-May-2025	04-Jun-2025	----	----		----	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 2522-A-4	EPP444	28-May-2025	04-Jun-2025	----	----		----	28 days	7 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)										
BA 2522-A-5	EPP444	28-May-2025	04-Jun-2025	----	----		----	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 2522-A-6	EPP444	28-May-2025	04-Jun-2025	----	----		----	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 2522-A-7	EPP444	28-May-2025	04-Jun-2025	----	----		----	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 2522-A-8	EPP444	28-May-2025	04-Jun-2025	----	----		----	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 2522-A-9	EPP444	28-May-2025	04-Jun-2025	----	----		----	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	2034657	1	14	7.1	5.0	✓
Moisture Content by Gravimetry	E144	2034658	1	12	8.3	5.0	✓
Metals in Soil/Solid by CRC ICPMS	E440	2034653	1	18	5.5	5.0	✓
Metals by CRC ICPMS (TCLP)	E444	2035396	1	12	8.3	5.0	✓
Mercury in Soil/Solid by CVAAS	E510	2034654	1	14	7.1	5.0	✓
Mercury by CVAAS (TCLP)	E512	2035395	1	12	8.3	5.0	✓
Laboratory Control Samples (LCS)							
pH by Meter (1:2 Soil:Water Extraction)	E108	2034657	1	14	7.1	5.0	✓
Moisture Content by Gravimetry	E144	2034658	1	12	8.3	5.0	✓
Metals in Soil/Solid by CRC ICPMS	E440	2034653	2	18	11.1	10.0	✓
Mercury in Soil/Solid by CVAAS	E510	2034654	2	14	14.2	10.0	✓
Method Blanks (MB)							
Moisture Content by Gravimetry	E144	2034658	1	12	8.3	5.0	✓
Metals in Soil/Solid by CRC ICPMS	E440	2034653	1	18	5.5	5.0	✓
Metals by CRC ICPMS (TCLP)	E444	2035396	1	12	8.3	5.0	✓
Mercury in Soil/Solid by CVAAS	E510	2034654	1	14	7.1	5.0	✓
Mercury by CVAAS (TCLP)	E512	2035395	1	12	8.3	5.0	✓
Matrix Spikes (MS)							
Metals by CRC ICPMS (TCLP)	E444	2035396	1	12	8.3	5.0	✓
Mercury by CVAAS (TCLP)	E512	2035395	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 ± 5°C), and is carried out in accordance with procedures described in the BC Lab Manual (prescriptive method). The procedure involves mixing the dried (at <60 ºC) and sieved (10mesh/2mm) sample with ultra pure water at a 1:2 ratio of sediment to water. The pH is then measured by a standard pH probe.
Moisture Content by Gravimetry	E144 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 HNO3 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 HNO3 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°C) and sieved (No. 10 / 2mm) sample with deionized/distilled water at a 1:2 ratio of sediment to water.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Digestion for Metals and Mercury	EP440 ALS Environmental - Vancouver	Soil/Solid	EPA 200.2 (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO3 and HCl. This method is intended to liberate metals that may be environmentally available.
TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)	EPP444 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	: **VA25B2870**	Page	: 1 of 11
Client	: Veolia Environmental Services Canada	Laboratory	: ALS Environmental - Vancouver
Contact	: Brian Graham	Account Manager	: Gulraj Dhanaua
Address	: 5150 Riverbend Dr. Burnaby BC Canada V3N 4V3	Address	: 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9
Telephone	: ----	Telephone	: +1 604 253 4188
Project	: Veolia Weekly Bottom Ash-Suite	Date Samples Received	: 02-Jun-2025 10:10
PO	: (includes 2:1 pH)	Date Analysis Commenced	: 04-Jun-2025
C-O-C number	: ----	Issue Date	: 09-Jun-2025 09:20
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.

Signatories	*Position*	*Laboratory Department*
Janice Leung	Supervisor - Organics Instrumentation	Vancouver Organics, Burnaby, British Columbia
Kim Jensen	Department Manager - Metals	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: 2034657)											
VA25B2532-003	Anonymous	pH (1:2 soil:water)	----	E108	0.10	pH units	6.93	7.08	2.1%	5%	----
Physical Tests (QC Lot: 2034658)											
VA25B2870-001	BA 2522-A-1	Moisture	----	E144	0.25	%	24.0	24.1	0.169%	20%	----
Metals (QC Lot: 2034653)											
VA25B2532-003	Anonymous	Aluminum	7429-90-5	E440	50	mg/kg	33900	33100	2.26%	40%	----
		Antimony	7440-36-0	E440	0.10	mg/kg	0.61	0.58	0.03	Diff <2x LOR	----
		Arsenic	7440-38-2	E440	0.10	mg/kg	8.42	7.84	7.03%	30%	----
		Barium	7440-39-3	E440	0.50	mg/kg	173	163	5.84%	40%	----
		Beryllium	7440-41-7	E440	0.10	mg/kg	0.56	0.55	0.01	Diff <2x LOR	----
		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	<5.0	<5.0	0	Diff <2x LOR	----
		Cadmium	7440-43-9	E440	0.020	mg/kg	0.067	0.067	0.0002	Diff <2x LOR	----
		Calcium	7440-70-2	E440	50	mg/kg	9200	9000	2.18%	30%	----
		Chromium	7440-47-3	E440	0.50	mg/kg	64.3	63.9	0.657%	30%	----
		Cobalt	7440-48-4	E440	0.10	mg/kg	18.2	16.3	10.7%	30%	----
		Copper	7440-50-8	E440	0.50	mg/kg	55.1	52.4	4.99%	30%	----
		Iron	7439-89-6	E440	50	mg/kg	39800	37800	5.14%	30%	----
		Lead	7439-92-1	E440	0.50	mg/kg	6.24	5.83	6.86%	40%	----
		Lithium	7439-93-2	E440	2.0	mg/kg	20.0	19.4	3.59%	30%	----
		Magnesium	7439-95-4	E440	20	mg/kg	13200	12700	3.14%	30%	----
		Manganese	7439-96-5	E440	1.0	mg/kg	798	737	7.92%	30%	----
		Molybdenum	7439-98-7	E440	0.10	mg/kg	0.52	0.45	0.07	Diff <2x LOR	----
		Nickel	7440-02-0	E440	0.50	mg/kg	52.7	51.1	3.02%	30%	----
		Phosphorus	7723-14-0	E440	50	mg/kg	748	729	2.57%	30%	----
		Potassium	7440-09-7	E440	100	mg/kg	2010	2070	2.96%	40%	----
		Selenium	7782-49-2	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	----
		Silver	7440-22-4	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Sodium	7440-23-5	E440	50	mg/kg	570	597	4.54%	40%	----
		Strontium	7440-24-6	E440	0.50	mg/kg	76.7	74.8	2.44%	40%	----
		Sulfur	7704-34-9	E440	1000	mg/kg	<1000	<1000	0	Diff <2x LOR	----

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Metals (QC Lot: 2034653) - continued											
VA25B2532-003	Anonymous	Thallium	7440-28-0	E440	0.050	mg/kg	0.126	0.123	0.003	Diff <2x LOR	----
		Tin	7440-31-5	E440	2.0	mg/kg	<2.0	<2.0	0	Diff <2x LOR	----
		Titanium	7440-32-6	E440	1.0	mg/kg	1880	1880	0.0920%	40%	----
		Tungsten	7440-33-7	E440	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----
		Uranium	7440-61-1	E440	0.050	mg/kg	0.642	0.650	1.31%	30%	----
		Vanadium	7440-62-2	E440	0.20	mg/kg	103	99.3	3.93%	30%	----
		Zinc	7440-66-6	E440	2.0	mg/kg	83.0	80.2	3.42%	30%	----
		Zirconium	7440-67-7	E440	1.0	mg/kg	8.9	7.8	13.3%	30%	----
Metals (QC Lot: 2034654)											
VA25B2532-003	Anonymous	Mercury	7439-97-6	E510	0.0500	mg/kg	0.0517	<0.0500	0.0017	Diff <2x LOR	----
TCLP Metals (QC Lot: 2035395)											
VA25B2870-001	BA 2522-A-1	Mercury, TCLP	7439-97-6	E512	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
TCLP Metals (QC Lot: 2035396)											
VA25B2870-001	BA 2522-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	0.70	0.69	0.010	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	803	800	0.396%	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	0.879	0.859	2.30%	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	----

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: 2034658)						
Moisture	----	E144	0.25	%	<0.25	----
Metals (QCLot: 2034653)						
Aluminum	7429-90-5	E440	50	mg/kg	<50	----
Antimony	7440-36-0	E440	0.1	mg/kg	<0.10	----
Arsenic	7440-38-2	E440	0.1	mg/kg	<0.10	----
Barium	7440-39-3	E440	0.5	mg/kg	<0.50	----
Beryllium	7440-41-7	E440	0.1	mg/kg	<0.10	----
Bismuth	7440-69-9	E440	0.2	mg/kg	<0.20	----
Boron	7440-42-8	E440	5	mg/kg	<5.0	----
Cadmium	7440-43-9	E440	0.02	mg/kg	<0.020	----
Calcium	7440-70-2	E440	50	mg/kg	<50	----
Chromium	7440-47-3	E440	0.5	mg/kg	<0.50	----
Cobalt	7440-48-4	E440	0.1	mg/kg	<0.10	----
Copper	7440-50-8	E440	0.5	mg/kg	<0.50	----
Iron	7439-89-6	E440	50	mg/kg	<50	----
Lead	7439-92-1	E440	0.5	mg/kg	<0.50	----
Lithium	7439-93-2	E440	2	mg/kg	<2.0	----
Magnesium	7439-95-4	E440	20	mg/kg	<20	----
Manganese	7439-96-5	E440	1	mg/kg	<1.0	----
Molybdenum	7439-98-7	E440	0.1	mg/kg	<0.10	----
Nickel	7440-02-0	E440	0.5	mg/kg	<0.50	----
Phosphorus	7723-14-0	E440	50	mg/kg	<50	----
Potassium	7440-09-7	E440	100	mg/kg	<100	----
Selenium	7782-49-2	E440	0.2	mg/kg	<0.20	----
Silver	7440-22-4	E440	0.1	mg/kg	<0.10	----
Sodium	7440-23-5	E440	50	mg/kg	<50	----
Strontium	7440-24-6	E440	0.5	mg/kg	<0.50	----
Sulfur	7704-34-9	E440	1000	mg/kg	<1000	----
Thallium	7440-28-0	E440	0.05	mg/kg	<0.050	----
Tin	7440-31-5	E440	2	mg/kg	<2.0	----
Titanium	7440-32-6	E440	1	mg/kg	<1.0	----

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 2034653) - continued						
Tungsten	7440-33-7	E440	0.5	mg/kg	<0.50	----
Uranium	7440-61-1	E440	0.05	mg/kg	<0.050	----
Vanadium	7440-62-2	E440	0.2	mg/kg	<0.20	----
Zinc	7440-66-6	E440	2	mg/kg	<2.0	----
Zirconium	7440-67-7	E440	1	mg/kg	<1.0	----
Metals (QCLot: 2034654)						
Mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	----
TCLP Metals (QCLot: 2035395)						
Mercury, TCLP	7439-97-6	E512	0.001	mg/L	<0.0010	----
TCLP Metals (QCLot: 2035396)						
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: 2034657)									
pH (1:2 soil:water)	----	E108	----	pH units	6 pH units	99.5	95.0	105	----
Physical Tests (QCLot: 2034658)									
Moisture	----	E144	0.25	%	50 %	100	90.0	110	----
Metals (QCLot: 2034653)									
Aluminum	7429-90-5	E440	50	mg/kg	200 mg/kg	118	80.0	120	----
Antimony	7440-36-0	E440	0.1	mg/kg	100 mg/kg	114	80.0	120	----
Arsenic	7440-38-2	E440	0.1	mg/kg	100 mg/kg	116	80.0	120	----
Barium	7440-39-3	E440	0.5	mg/kg	25 mg/kg	112	80.0	120	----
Beryllium	7440-41-7	E440	0.1	mg/kg	10 mg/kg	114	80.0	120	----
Bismuth	7440-69-9	E440	0.2	mg/kg	100 mg/kg	104	80.0	120	----
Boron	7440-42-8	E440	5	mg/kg	100 mg/kg	107	80.0	120	----
Cadmium	7440-43-9	E440	0.02	mg/kg	10 mg/kg	109	80.0	120	----
Calcium	7440-70-2	E440	50	mg/kg	5000 mg/kg	112	80.0	120	----
Chromium	7440-47-3	E440	0.5	mg/kg	25 mg/kg	110	80.0	120	----
Cobalt	7440-48-4	E440	0.1	mg/kg	25 mg/kg	108	80.0	120	----
Copper	7440-50-8	E440	0.5	mg/kg	25 mg/kg	109	80.0	120	----
Iron	7439-89-6	E440	50	mg/kg	100 mg/kg	110	80.0	120	----
Lead	7439-92-1	E440	0.5	mg/kg	50 mg/kg	106	80.0	120	----
Lithium	7439-93-2	E440	2	mg/kg	25 mg/kg	118	80.0	120	----
Magnesium	7439-95-4	E440	20	mg/kg	5000 mg/kg	118	80.0	120	----
Manganese	7439-96-5	E440	1	mg/kg	25 mg/kg	110	80.0	120	----
Molybdenum	7439-98-7	E440	0.1	mg/kg	25 mg/kg	112	80.0	120	----
Nickel	7440-02-0	E440	0.5	mg/kg	50 mg/kg	109	80.0	120	----
Phosphorus	7723-14-0	E440	50	mg/kg	1000 mg/kg	# 122	80.0	120	MES
Potassium	7440-09-7	E440	100	mg/kg	5000 mg/kg	112	80.0	120	----
Selenium	7782-49-2	E440	0.2	mg/kg	100 mg/kg	106	80.0	120	----
Silver	7440-22-4	E440	0.1	mg/kg	10 mg/kg	104	80.0	120	----
Sodium	7440-23-5	E440	50	mg/kg	5000 mg/kg	113	80.0	120	----
Strontium	7440-24-6	E440	0.5	mg/kg	25 mg/kg	114	80.0	120	----
Sulfur	7704-34-9	E440	1000	mg/kg	5000 mg/kg	110	80.0	120	----
Thallium	7440-28-0	E440	0.05	mg/kg	100 mg/kg	109	80.0	120	----
Tin	7440-31-5	E440	2	mg/kg	50 mg/kg	107	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: 2034653) - continued									
Titanium	7440-32-6	E440	1	mg/kg	25 mg/kg	106	80.0	120	----
Tungsten	7440-33-7	E440	0.5	mg/kg	10 mg/kg	107	80.0	120	----
Uranium	7440-61-1	E440	0.05	mg/kg	0.5 mg/kg	113	80.0	120	----
Vanadium	7440-62-2	E440	0.2	mg/kg	50 mg/kg	113	80.0	120	----
Zinc	7440-66-6	E440	2	mg/kg	50 mg/kg	113	80.0	120	----
Zirconium	7440-67-7	E440	1	mg/kg	10 mg/kg	108	80.0	120	----
Metals (QCLot: 2034654)									
Mercury	7439-97-6	E510	0.005	mg/kg	0.1 mg/kg	103	80.0	120	----

Qualifiers

Qualifier	Description
MES	*Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).*

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: 2035395)										
VA25B2870-001	BA 2522-A-1	Mercury, TCLP	7439-97-6	E512	0.0029 mg/L	0.003 mg/L	96.0	50.0	140	----
TCLP Metals (QCLot: 2035396)										
VA25B2870-001	BA 2522-A-1	Antimony, TCLP	7440-36-0	E444	4.95 mg/L	5 mg/L	98.9	50.0	140	----
		Arsenic, TCLP	7440-38-2	E444	5.0 mg/L	5 mg/L	100	50.0	140	----
		Barium, TCLP	7440-39-3	E444	12.7 mg/L	12.5 mg/L	102	50.0	140	----
		Beryllium, TCLP	7440-41-7	E444	0.246 mg/L	0.25 mg/L	98.6	50.0	140	----
		Boron, TCLP	7440-42-8	E444	8.80 mg/L	10 mg/L	88.0	50.0	140	----
		Cadmium, TCLP	7440-43-9	E444	0.234 mg/L	0.25 mg/L	93.6	50.0	140	----
		Calcium, TCLP	7440-70-2	E444	ND mg/L	----	ND	50.0	140	----
		Chromium, TCLP	7440-47-3	E444	1.21 mg/L	1.25 mg/L	96.7	50.0	140	----
		Cobalt, TCLP	7440-48-4	E444	0.237 mg/L	0.25 mg/L	94.8	50.0	140	----
		Copper, TCLP	7440-50-8	E444	2.34 mg/L	2.5 mg/L	93.7	50.0	140	----
		Iron, TCLP	7439-89-6	E444	233 mg/L	250 mg/L	93.0	50.0	140	----
		Lead, TCLP	7439-92-1	E444	8.81 mg/L	10 mg/L	88.1	50.0	140	----
		Magnesium, TCLP	7439-95-4	E444	258 mg/L	250 mg/L	103	50.0	140	----
		Nickel, TCLP	7440-02-0	E444	2.37 mg/L	2.5 mg/L	94.8	50.0	140	----
		Selenium, TCLP	7782-49-2	E444	4.73 mg/L	5 mg/L	94.5	50.0	140	----
		Silver, TCLP	7440-22-4	E444	0.076 mg/L	0.1 mg/L	76.4	50.0	140	----
		Thallium, TCLP	7440-28-0	E444	4.6 mg/L	5 mg/L	91.2	50.0	140	----
		Uranium, TCLP	7440-61-1	E444	4.59 mg/L	5 mg/L	91.8	50.0	150	----
		Vanadium, TCLP	7440-62-2	E444	0.73 mg/L	0.75 mg/L	97.8	50.0	140	----
		Zinc, TCLP	7440-66-6	E444	9.79 mg/L	10 mg/L	97.9	50.0	140	----
		Zirconium, TCLP	7440-67-7	E444	0.8 mg/L	1 mg/L	79.4	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:

					Reference Material (RM) Report				
					RM Target	Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Concentration	RM	Low	High	Qualifier
Metals (QCLot: 2034653)									
QC-2034653-003	MRCA-21	Aluminum	7429-90-5	E440	22500 mg/kg	110	70.0	130	----
QC-2034653-003	MRCA-21	Antimony	7440-36-0	E440	24.8 mg/kg	105	70.0	130	----
QC-2034653-003	MRCA-21	Arsenic	7440-38-2	E440	21.2 mg/kg	98.7	70.0	130	----
QC-2034653-003	MRCA-21	Barium	7440-39-3	E440	788 mg/kg	102	70.0	130	----
QC-2034653-003	MRCA-21	Beryllium	7440-41-7	E440	1.82 mg/kg	111	70.0	130	----
QC-2034653-003	MRCA-21	Bismuth	7440-69-9	E440	1.78 mg/kg	93.4	70.0	130	----
QC-2034653-003	MRCA-21	Cadmium	7440-43-9	E440	2.15 mg/kg	97.7	70.0	130	----
QC-2034653-003	MRCA-21	Calcium	7440-70-2	E440	4900 mg/kg	110	70.0	130	----
QC-2034653-003	MRCA-21	Chromium	7440-47-3	E440	56.9 mg/kg	99.6	70.0	130	----
QC-2034653-003	MRCA-21	Cobalt	7440-48-4	E440	32 mg/kg	98.4	70.0	130	----
QC-2034653-003	MRCA-21	Copper	7440-50-8	E440	969 mg/kg	103	70.0	130	----
QC-2034653-003	MRCA-21	Iron	7439-89-6	E440	32700 mg/kg	101	70.0	130	----
QC-2034653-003	MRCA-21	Lead	7439-92-1	E440	919 mg/kg	94.3	70.0	130	----
QC-2034653-003	MRCA-21	Lithium	7439-93-2	E440	47.3 mg/kg	114	70.0	130	----
QC-2034653-003	MRCA-21	Magnesium	7439-95-4	E440	7780 mg/kg	104	70.0	130	----
QC-2034653-003	MRCA-21	Manganese	7439-96-5	E440	8640 mg/kg	99.5	70.0	130	----
QC-2034653-003	MRCA-21	Molybdenum	7439-98-7	E440	25.1 mg/kg	98.6	70.0	130	----
QC-2034653-003	MRCA-21	Nickel	7440-02-0	E440	1000 mg/kg	99.6	70.0	130	----
QC-2034653-003	MRCA-21	Phosphorus	7723-14-0	E440	660 mg/kg	112	70.0	130	----
QC-2034653-003	MRCA-21	Potassium	7440-09-7	E440	10800 mg/kg	103	70.0	130	----
QC-2034653-003	MRCA-21	Selenium	7782-49-2	E440	1.04 mg/kg	102	60.0	140	----
QC-2034653-003	MRCA-21	Silver	7440-22-4	E440	8.98 mg/kg	100	70.0	130	----
QC-2034653-003	MRCA-21	Sodium	7440-23-5	E440	1770 mg/kg	116	70.0	130	----
QC-2034653-003	MRCA-21	Strontium	7440-24-6	E440	41 mg/kg	104	70.0	130	----
QC-2034653-003	MRCA-21	Sulfur	7704-34-9	E440	3940 mg/kg	91.6	50.0	150	----
QC-2034653-003	MRCA-21	Thallium	7440-28-0	E440	0.907 mg/kg	100.0	70.0	130	----
QC-2034653-003	MRCA-21	Tin	7440-31-5	E440	3.79 mg/kg	98.8	40.0	160	----
QC-2034653-003	MRCA-21	Titanium	7440-32-6	E440	2790 mg/kg	103	70.0	130	----
QC-2034653-003	MRCA-21	Tungsten	7440-33-7	E440	6.99 mg/kg	112	70.0	130	----
QC-2034653-003	MRCA-21	Uranium	7440-61-1	E440	3.97 mg/kg	110	70.0	130	----
QC-2034653-003	MRCA-21	Vanadium	7440-62-2	E440	66.2 mg/kg	100	70.0	130	----
QC-2034653-003	MRCA-21	Zinc	7440-66-6	E440	828 mg/kg	102	70.0	130	----
QC-2034653-003	MRCA-21	Zirconium	7440-67-7	E440	6.91 mg/kg	102	70.0	130	----

Sub-Matrix:

					Reference Material (RM) Report				
					RM Target	Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Concentration	RM	Low	High	Qualifier
Metals (QCLot: 2034654)									
QC-2034654-003	MRCA-21	Mercury	7439-97-6	E510	0.068 mg/kg	101	70.0	130	----

ALS Environmental

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Report To		**Report Format / Distribution**		**Service Requested** (Rush for routine analysis subject to availability)
Company:	Veolia Canada / Burnaby Waste To Energy Facility	"Veolia Email Distribution List" please		
Contact:	Brian Graham / Darcie Grace			
Address:	5150 Riverbend Drive	Email 1:	Darcie.grace@veolia.com	
	Burnaby BC	Email 2:	lorenzo.ilao@veolia.com	
Phone:	604-521-1025 Fax:	Email 3:	karen.thornquist@veolia.com	**Analysis Request**
			brent.kirkpatrick@metrovancouver.org	
			Sarah.Wellman@metrovancouver.org	
Invoice To	Same as Report ? Veolia Water Canada	**Client / Project Information**		Please indicate below Filtered, Preserved or both (F, P, F/P)
Hardcopy of Invoice with Report?		Job #:	Veolia Weekly Bottom Ash - Suite	
Company:	Veolia Water Canada / Burnaby Waste To Energy	PO / AFE:	PO#	
Contact:	Danny George, Purchaser/Darcie Grace, SHE Manager	LSD:	(includes 2:1 pH)	
Address:	5150 Riverbend Drive, Burnaby BC V3N 4V3			
Phone:	604 521 1025 Fax:	Quote #:		
Lab Work Order # (lab use only)		**ALS Contact:**	**Sampler:**	

Sample #	Sample Identification (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	MET-TCLP-VA (all metals, Hg)	MOISTURE		Chrome 6		MET-CSR+FULL-VA (all metals)						Number of Containers
	BA 2522-A-1	28-May-25	9:00	Soil	X	X				X						1
	BA 2522-A-2	28-May-25	9:00	Soil	X	X				X						1
	BA 2522-A-3	28-May-25	9:00	Soil	X	X				X						1
	BA 2522-A-4	28-May-25	9:00	Soil	X	X				X						1
	BA 2522-A-5	28-May-25	9:00	Soil	X	X				X						1
	BA 2522-A-6	28-May-25	9:00	Soil	X	X				X						1
	BA 2522-A-7	28-May-25	9:00	Soil	X	X				X						1
	BA 2522-A-8	28-May-25	9:00	Soil	X	X				X						1
	BA 2522-A-9	28-May-25	9:00	Soil	X	X				X						1
	BA 2522-A-10	28-May-25	9:00	Soil	X	X				X						1
	BA 2522-A-11	28-May-25	9:00	Soil	X	X				X						1
	BA 2522-A-12	28-May-25	9:00	Soil	X	X				X						1
water Aquatic																

Environmental Division
Vancouver
Work Order Reference
VA25B2870

Telephone : +1 604 253 4188

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numbers and

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NT RELEASE (c

SHIPMENT RECEPTION (lab use only)							SHIPMENT VERIFICATION (lab use only)			
Released by:	Date (dd-mmm-yy)	Time (hh-mm)	Received by:	Date:	Time:	Temperature:	Verified by:	Date:	Time:	Observations: Yes / No ? If Yes add SIF
	02/06	10 10	AS			°C				