

Bottom Ash Data

2025 Week 08

The following analytical report represents bottom ash composite results for week 08 of 2025 (February 16, 2025 to February 22, 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	: VA25A3999		
Client	: Reworld Renewable Burnaby, ULC	Laboratory	: ALS Environmental - Vancouver
Contact	: Nicole Victor	Account Manager	: Gulraj Dhanaua
Address	: 5150 Riverbend Drive Burnaby British Columbia Canada V3N 4V3	Address	: 8081 Lougheed Highway Burnaby BC Canada V5A 1W9
Telephone	: ----	Telephone	: +1 604 253 4188
Project	: ----	Date Samples Received	: 25-Feb-2025 10:50
PO	: Includes 2:1 pH	Date Analysis Commenced	: 25-Feb-2025
C-O-C number	: ----	Issue Date	: 03-Mar-2025 20:22
Sampler	: ----		
Site	: ----		
Quote number	: Covanta Burnaby Standing Offer 2024		
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>
Maya Urquhart	Lab Analyst	Metals, Burnaby, British Columbia
Rebecca Sit	Supervisor - Organics Extractions	Organics, Burnaby, British Columbia
Robin Weeks	Team Leader - 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)

Sub-Matrix: Soil (Matrix: Soil/Solid)					Client sample ID	BA2508-A-1	BA2508-A-2	BA2508-A-3	BA2508-A-4	BA2508-A-5
Client sampling date / time					19-Feb-2025 09:00	19-Feb-2025 09:00	19-Feb-2025 09:00	19-Feb-2025 09:00	19-Feb-2025 09:00	
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25A3999-001	VA25A3999-002	VA25A3999-003	VA25A3999-004	VA25A3999-005	
					Result	Result	Result	Result	Result	
Physical Tests										
Moisture	----	E144/VA	0.25	%	23.4	22.7	22.2	21.8	22.1	
pH (1:2 soil:water)	----	E108/VA	0.10	pH units	12.1	11.9	12.0	12.1	12.1	
Metals										
Aluminum	7429-90-5	E440/VA	50	mg/kg	32200	29200	48400	40600	51500	
Antimony	7440-36-0	E440/VA	0.10	mg/kg	76.8	106	97.9	103	81.3	
Arsenic	7440-38-2	E440/VA	0.10	mg/kg	9.73	15.2	11.5	15.0	10.9	
Barium	7440-39-3	E440/VA	0.50	mg/kg	648	558	659	633	588	
Beryllium	7440-41-7	E440/VA	0.10	mg/kg	0.39	0.36	0.39	0.35	0.39	
Bismuth	7440-69-9	E440/VA	0.20	mg/kg	5.88	18.6	6.37	6.37	5.97	
Boron	7440-42-8	E440/VA	5.0	mg/kg	206	174	223	262	183	
Cadmium	7440-43-9	E440/VA	0.020	mg/kg	5.56	43.6	6.95	9.17	7.48	
Calcium	7440-70-2	E440/VA	50	mg/kg	129000	133000	144000	139000	126000	
Chromium	7440-47-3	E440/VA	0.50	mg/kg	201	190	171	241	160	
Cobalt	7440-48-4	E440/VA	0.10	mg/kg	60.0	110	45.4	88.1	86.0	
Copper	7440-50-8	E440/VA	0.50	mg/kg	1330	8770	1770	13800	1550	
Iron	7439-89-6	E440/VA	50	mg/kg	54900	78700	68800	72000	56400	
Lead	7439-92-1	E440/VA	0.50	mg/kg	327	2530	433	984	341	
Lithium	7439-93-2	E440/VA	2.0	mg/kg	32.9	36.3	32.7	30.2	33.7	
Magnesium	7439-95-4	E440/VA	20	mg/kg	11700	11200	12700	13400	10900	
Manganese	7439-96-5	E440/VA	1.0	mg/kg	758	896	1830	1100	1220	
Mercury	7439-97-6	E510/VA	0.0500	mg/kg	<0.0500	<0.0500	<0.0500	<0.0500	0.0558	



Analytical Results

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

Sub-Matrix: Soil (Matrix: Soil/Solid)					Client sample ID	BA2508-A-1	BA2508-A-2	BA2508-A-3	BA2508-A-4	BA2508-A-5
Client sampling date / time					19-Feb-2025 09:00	19-Feb-2025 09:00	19-Feb-2025 09:00	19-Feb-2025 09:00	19-Feb-2025 09:00	
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25A3999-001	VA25A3999-002	VA25A3999-003	VA25A3999-004	VA25A3999-005	
					Result	Result	Result	Result	Result	
Metals										
Molybdenum	7439-98-7	E440/VA	0.10	mg/kg	29.3	44.8	38.2	55.2	32.2	
Nickel	7440-02-0	E440/VA	0.50	mg/kg	201	332	179	428	363	
Phosphorus	7723-14-0	E440/VA	50	mg/kg	8720	11200	11800	10600	10500	
Potassium	7440-09-7	E440/VA	100	mg/kg	4910	4960	5460	5180	4870	
Selenium	7782-49-2	E440/VA	0.20	mg/kg	0.32	0.35	0.40	0.30	0.31	
Silver	7440-22-4	E440/VA	0.10	mg/kg	6.97	6.68	5.69	4.52	5.10	
Sodium	7440-23-5	E440/VA	50	mg/kg	17900	18200	20700	19300	18400	
Strontium	7440-24-6	E440/VA	0.50	mg/kg	290	309	360	319	283	
Sulfur	7704-34-9	E440/VA	1000	mg/kg	9100	10500	11600	10000	10100	
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	129	212	300	120	95.3	
Titanium	7440-32-6	E440/VA	1.0	mg/kg	228	227	361	355	512	
Tungsten	7440-33-7	E440/VA	0.50	mg/kg	18.9	19.4	22.8	12.5	20.0	
Uranium	7440-61-1	E440/VA	0.050	mg/kg	1.73	1.69	1.79	1.60	1.45	
Vanadium	7440-62-2	E440/VA	0.20	mg/kg	29.1	31.9	35.3	49.4	32.7	
Zinc	7440-66-6	E440/VA	2.0	mg/kg	3100	6320	3290	12000	3510	
Zirconium	7440-67-7	E440/VA	1.0	mg/kg	2.8	3.0	3.9	2.4	3.0	
TCLP Metals										
pH, TCLP 1st preliminary	----	EPP444/VA	0.010	pH units	12.0	11.9	11.9	12.0	12.0	
pH, TCLP 2nd preliminary	----	EPP444/VA	0.010	pH units	7.35	6.47	6.21	7.23	6.64	
pH, TCLP extraction fluid initial	----	EPP444/VA	0.010	pH units	2.92	2.92	2.92	2.92	2.92	



Analytical Results

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

Sub-Matrix: Soil (Matrix: Soil/Solid)					Client sample ID	BA2508-A-1	BA2508-A-2	BA2508-A-3	BA2508-A-4	BA2508-A-5
Client sampling date / time					19-Feb-2025 09:00	19-Feb-2025 09:00	19-Feb-2025 09:00	19-Feb-2025 09:00	19-Feb-2025 09:00	19-Feb-2025 09:00
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25A3999-001	VA25A3999-002	VA25A3999-003	VA25A3999-004	VA25A3999-005	
					Result	Result	Result	Result	Result	
TCLP Metals										
pH, TCLP final	----	EPP444/VA	0.010	pH units	7.20	7.19	7.04	7.03	7.32	
Antimony, TCLP	7440-36-0	E444/VA	1.00	mg/L	<1.00	<1.00	<1.00	<1.00	<1.00	
Arsenic, TCLP	7440-38-2	E444/VA	1.0	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Barium, TCLP	7440-39-3	E444/VA	2.5	mg/L	<2.5	<2.5	<2.5	<2.5	<2.5	
Beryllium, TCLP	7440-41-7	E444/VA	0.025	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	
Boron, TCLP	7440-42-8	E444/VA	0.50	mg/L	1.86	2.00	1.88	2.24	1.95	
Cadmium, TCLP	7440-43-9	E444/VA	0.050	mg/L	<0.050	0.371	<0.050	0.055	<0.050	
Calcium, TCLP	7440-70-2	E444/VA	10	mg/L	1810	1950	1910	2080	1950	
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	0.696	0.878	0.996	1.15	0.930	
Copper, TCLP	7440-50-8	E444/VA	0.050	mg/L	0.505	0.553	0.557	0.641	0.564	
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	114	120	115	117	114	
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	0.32	<0.25	0.27	0.26	0.31	
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	BA2508-A-1	BA2508-A-2	BA2508-A-3	BA2508-A-4	BA2508-A-5
Client sampling date / time						19-Feb-2025 09:00	19-Feb-2025 09:00	19-Feb-2025 09:00	19-Feb-2025 09:00	19-Feb-2025 09:00
Analyte	CAS Number	Method/Lab	LOR	Unit		VA25A3999-001	VA25A3999-002	VA25A3999-003	VA25A3999-004	VA25A3999-005
						Result	Result	Result	Result	Result
TCLP Metals										
Zinc, TCLP	7440-66-6	E444/VA	0.50	mg/L		2.43	2.44	4.76	4.57	1.20
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 result qualifiers detected.

Analytical Results

Sub-Matrix: Soil (Matrix: Soil/Solid)					Client sample ID	BA2508-A-6	BA2508-A-7	BA2508-A-8	BA2508-A-9	BA2508-A-10
Client sampling date / time						19-Feb-2025 09:00	19-Feb-2025 09:00	19-Feb-2025 09:00	19-Feb-2025 09:00	19-Feb-2025 09:00
Analyte	CAS Number	Method/Lab	LOR	Unit		VA25A3999-006	VA25A3999-007	VA25A3999-008	VA25A3999-009	VA25A3999-010
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.25	%		21.8	24.0	21.9	21.8	22.4
pH (1:2 soil:water)	----	E108/VA	0.10	pH units		11.9	12.1	12.0	12.0	12.0
Metals										
Aluminum	7429-90-5	E440/VA	50	mg/kg		33400	49800	41800	38600	49600
Antimony	7440-36-0	E440/VA	0.10	mg/kg		114	112	98.2	95.8	89.5
Arsenic	7440-38-2	E440/VA	0.10	mg/kg		16.3	13.8	24.4	11.6	16.3
Barium	7440-39-3	E440/VA	0.50	mg/kg		594	643	650	612	807
Beryllium	7440-41-7	E440/VA	0.10	mg/kg		0.38	0.41	0.36	0.56	0.38
Bismuth	7440-69-9	E440/VA	0.20	mg/kg		11.0	8.16	9.36	6.40	6.78
Boron	7440-42-8	E440/VA	5.0	mg/kg		219	164	212	256	328
Cadmium	7440-43-9	E440/VA	0.020	mg/kg		7.22	5.98	8.94	5.82	4.96
Calcium	7440-70-2	E440/VA	50	mg/kg		143000	140000	136000	135000	123000



Analytical Results

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

					Client sample ID	BA2508-A-6	BA2508-A-7	BA2508-A-8	BA2508-A-9	BA2508-A-10
					Client sampling date / time	19-Feb-2025 09:00	19-Feb-2025 09:00	19-Feb-2025 09:00	19-Feb-2025 09:00	19-Feb-2025 09:00
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25A3999-006	VA25A3999-007	VA25A3999-008	VA25A3999-009	VA25A3999-010	
					Result	Result	Result	Result	Result	
Metals										
Chromium	7440-47-3	E440/VA	0.50	mg/kg	229	312	224	166	225	
Cobalt	7440-48-4	E440/VA	0.10	mg/kg	194	94.4	83.4	193	48.9	
Copper	7440-50-8	E440/VA	0.50	mg/kg	7760	1730	6700	1090	4160	
Iron	7439-89-6	E440/VA	50	mg/kg	77500	66400	66100	52500	91300	
Lead	7439-92-1	E440/VA	0.50	mg/kg	1140	421	1160	317	1400	
Lithium	7439-93-2	E440/VA	2.0	mg/kg	86.9	38.7	32.0	42.9	30.2	
Magnesium	7439-95-4	E440/VA	20	mg/kg	13300	11700	11900	12500	11400	
Manganese	7439-96-5	E440/VA	1.0	mg/kg	1200	1040	881	856	2010	
Mercury	7439-97-6	E510/VA	0.0500	mg/kg	<0.0500	<0.0500	0.0702	0.0676	<0.0500	
Molybdenum	7439-98-7	E440/VA	0.10	mg/kg	35.8	34.0	50.1	33.6	36.1	
Nickel	7440-02-0	E440/VA	0.50	mg/kg	271	256	253	125	370	
Phosphorus	7723-14-0	E440/VA	50	mg/kg	11000	10400	11000	7900	8910	
Potassium	7440-09-7	E440/VA	100	mg/kg	5390	5100	5120	5460	4960	
Selenium	7782-49-2	E440/VA	0.20	mg/kg	0.47	0.34	0.32	0.42	0.49	
Silver	7440-22-4	E440/VA	0.10	mg/kg	6.27	6.30	12.2	5.04	6.49	
Sodium	7440-23-5	E440/VA	50	mg/kg	20000	18600	18400	19800	19400	
Strontium	7440-24-6	E440/VA	0.50	mg/kg	399	301	300	307	263	
Sulfur	7704-34-9	E440/VA	1000	mg/kg	11500	10400	10100	9600	8000	
Thallium	7440-28-0	E440/VA	0.050	mg/kg	<0.050	<0.050	0.057	<0.050	<0.050	
Tin	7440-31-5	E440/VA	2.0	mg/kg	240	169	117	93.1	94.2	
Titanium	7440-32-6	E440/VA	1.0	mg/kg	357	404	280	378	496	



Analytical Results

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

					Client sample ID	BA2508-A-6	BA2508-A-7	BA2508-A-8	BA2508-A-9	BA2508-A-10
					Client sampling date / time	19-Feb-2025 09:00	19-Feb-2025 09:00	19-Feb-2025 09:00	19-Feb-2025 09:00	19-Feb-2025 09:00
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25A3999-006	VA25A3999-007	VA25A3999-008	VA25A3999-009	VA25A3999-010	
					Result	Result	Result	Result	Result	
Metals										
Tungsten	7440-33-7	E440/VA	0.50	mg/kg	24.9	22.5	24.9	19.0	14.9	
Uranium	7440-61-1	E440/VA	0.050	mg/kg	1.77	1.85	1.68	1.86	1.61	
Vanadium	7440-62-2	E440/VA	0.20	mg/kg	36.7	38.6	43.1	33.5	33.9	
Zinc	7440-66-6	E440/VA	2.0	mg/kg	7300	4110	5650	2720	3430	
Zirconium	7440-67-7	E440/VA	1.0	mg/kg	1.9	3.6	3.0	1.9	2.6	
TCLP Metals										
pH, TCLP 1st preliminary	----	EPP444/VA	0.010	pH units	12.0	12.0	12.0	12.0	12.0	
pH, TCLP 2nd preliminary	----	EPP444/VA	0.010	pH units	6.96	6.88	6.21	6.51	6.27	
pH, TCLP extraction fluid initial	----	EPP444/VA	0.010	pH units	2.92	2.92	2.92	2.92	2.92	
pH, TCLP final	----	EPP444/VA	0.010	pH units	6.99	7.45	7.29	7.27	6.72	
Antimony, TCLP	7440-36-0	E444/VA	1.00	mg/L	<1.00	<1.00	<1.00	<1.00	<1.00	
Arsenic, TCLP	7440-38-2	E444/VA	1.0	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Barium, TCLP	7440-39-3	E444/VA	2.5	mg/L	<2.5	<2.5	<2.5	<2.5	<2.5	
Beryllium, TCLP	7440-41-7	E444/VA	0.025	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	
Boron, TCLP	7440-42-8	E444/VA	0.50	mg/L	1.95	2.14	1.94	1.87	1.99	
Cadmium, TCLP	7440-43-9	E444/VA	0.050	mg/L	<0.050	<0.050	<0.050	<0.050	0.063	
Calcium, TCLP	7440-70-2	E444/VA	10	mg/L	1940	2140	1950	1920	2000	
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	1.03	0.434	0.668	0.722	1.36	
Copper, TCLP	7440-50-8	E444/VA	0.050	mg/L	0.588	0.586	0.557	0.572	0.730	
Iron, TCLP	7439-89-6	E444/VA	5.0	mg/L	<5.0	<5.0	<5.0	<5.0	<5.0	



Analytical Results

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

					Client sample ID	BA2508-A-6	BA2508-A-7	BA2508-A-8	BA2508-A-9	BA2508-A-10
					Client sampling date / time	19-Feb-2025 09:00	19-Feb-2025 09:00	19-Feb-2025 09:00	19-Feb-2025 09:00	19-Feb-2025 09:00
Analyte	CAS Number	Method/Lab	LOR	Unit		VA25A3999-006	VA25A3999-007	VA25A3999-008	VA25A3999-009	VA25A3999-010
						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		116	119	120	108	124
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		0.30	<0.25	0.27	<0.25	0.38
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		4.52	0.78	1.47	3.30	15.1
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 result qualifiers detected.

Analytical Results

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

					Client sample ID	BA2508-A-11	BA2508-A-12	----	----	----
					Client sampling date / time	19-Feb-2025 09:00	19-Feb-2025 09:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit		VA25A3999-011	VA25A3999-012	----	----	----
						Result	Result	----	----	----
Physical Tests										
Moisture	----	E144/VA	0.25	%		21.5	22.7	----	----	----
pH (1:2 soil:water)	----	E108/VA	0.10	pH units		12.0	12.0	----	----	----



Analytical Results

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

					Client sample ID	BA2508-A-11	BA2508-A-12	----	----	----
					Client sampling date / time	19-Feb-2025 09:00	19-Feb-2025 09:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25A3999-011	VA25A3999-012	----	----	----	----
					Result	Result	----	----	----	----
Metals										
Aluminum	7429-90-5	E440/VA	50	mg/kg	42300	51500	----	----	----	----
Antimony	7440-36-0	E440/VA	0.10	mg/kg	106	74.9	----	----	----	----
Arsenic	7440-38-2	E440/VA	0.10	mg/kg	15.0	12.6	----	----	----	----
Barium	7440-39-3	E440/VA	0.50	mg/kg	622	576	----	----	----	----
Beryllium	7440-41-7	E440/VA	0.10	mg/kg	0.35	0.32	----	----	----	----
Bismuth	7440-69-9	E440/VA	0.20	mg/kg	4.72	4.89	----	----	----	----
Boron	7440-42-8	E440/VA	5.0	mg/kg	168	168	----	----	----	----
Cadmium	7440-43-9	E440/VA	0.020	mg/kg	4.56	8.55	----	----	----	----
Calcium	7440-70-2	E440/VA	50	mg/kg	121000	119000	----	----	----	----
Chromium	7440-47-3	E440/VA	0.50	mg/kg	236	192	----	----	----	----
Cobalt	7440-48-4	E440/VA	0.10	mg/kg	99.0	790	----	----	----	----
Copper	7440-50-8	E440/VA	0.50	mg/kg	8700	3510	----	----	----	----
Iron	7439-89-6	E440/VA	50	mg/kg	85800	73800	----	----	----	----
Lead	7439-92-1	E440/VA	0.50	mg/kg	306	330	----	----	----	----
Lithium	7439-93-2	E440/VA	2.0	mg/kg	31.4	152	----	----	----	----
Magnesium	7439-95-4	E440/VA	20	mg/kg	10100	12600	----	----	----	----
Manganese	7439-96-5	E440/VA	1.0	mg/kg	1460	1470	----	----	----	----
Mercury	7439-97-6	E510/VA	0.0500	mg/kg	<0.0500	<0.0500	----	----	----	----
Molybdenum	7439-98-7	E440/VA	0.10	mg/kg	35.8	30.6	----	----	----	----
Nickel	7440-02-0	E440/VA	0.50	mg/kg	196	151	----	----	----	----
Phosphorus	7723-14-0	E440/VA	50	mg/kg	8470	8590	----	----	----	----



Analytical Results

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

					Client sample ID	BA2508-A-11	BA2508-A-12	----	----	----
					Client sampling date / time	19-Feb-2025 09:00	19-Feb-2025 09:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25A3999-011	VA25A3999-012	----	----	----	----
					Result	Result	----	----	----	----
Metals										
Potassium	7440-09-7	E440/VA	100	mg/kg	4700	4710	----	----	----	----
Selenium	7782-49-2	E440/VA	0.20	mg/kg	0.26	0.31	----	----	----	----
Silver	7440-22-4	E440/VA	0.10	mg/kg	4.20	3.69	----	----	----	----
Sodium	7440-23-5	E440/VA	50	mg/kg	17800	17900	----	----	----	----
Strontium	7440-24-6	E440/VA	0.50	mg/kg	264	512	----	----	----	----
Sulfur	7704-34-9	E440/VA	1000	mg/kg	8800	7900	----	----	----	----
Thallium	7440-28-0	E440/VA	0.050	mg/kg	<0.050	0.052	----	----	----	----
Tin	7440-31-5	E440/VA	2.0	mg/kg	90.4	95.0	----	----	----	----
Titanium	7440-32-6	E440/VA	1.0	mg/kg	448	403	----	----	----	----
Tungsten	7440-33-7	E440/VA	0.50	mg/kg	22.6	15.5	----	----	----	----
Uranium	7440-61-1	E440/VA	0.050	mg/kg	1.44	1.52	----	----	----	----
Vanadium	7440-62-2	E440/VA	0.20	mg/kg	39.7	36.2	----	----	----	----
Zinc	7440-66-6	E440/VA	2.0	mg/kg	2820	10800	----	----	----	----
Zirconium	7440-67-7	E440/VA	1.0	mg/kg	2.6	4.4	----	----	----	----
TCLP Metals										
pH, TCLP 1st preliminary	----	EPP444/VA	0.010	pH units	12.0	11.9	----	----	----	----
pH, TCLP 2nd preliminary	----	EPP444/VA	0.010	pH units	6.45	6.38	----	----	----	----
pH, TCLP extraction fluid initial	----	EPP444/VA	0.010	pH units	2.92	2.92	----	----	----	----
pH, TCLP final	----	EPP444/VA	0.010	pH units	6.70	6.92	----	----	----	----
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	BA2508-A-11	BA2508-A-12	----	----	----
					Client sampling date / time	19-Feb-2025 09:00	19-Feb-2025 09:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25A3999-011	VA25A3999-012	----	----	----	----
					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	2.08	2.00	----	----	----	----
Cadmium, TCLP	7440-43-9	E444/VA	0.050	mg/L	0.164	0.094	----	----	----	----
Calcium, TCLP	7440-70-2	E444/VA	10	mg/L	2020	1990	----	----	----	----
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	1.16	1.53	----	----	----	----
Copper, TCLP	7440-50-8	E444/VA	0.050	mg/L	0.738	0.744	----	----	----	----
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	126	123	----	----	----	----
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	0.39	0.30	----	----	----	----
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	11.1	6.58	----	----	----	----
Zirconium, TCLP	7440-67-7	E444/VA	10	mg/L	<10	<10	----	----	----	----

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

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: VA25A3999	Page	: 1 of 15
Client	: Reworld Renewable Burnaby, ULC	Laboratory	: ALS Environmental - Vancouver
Contact	: Nicole Victor	Account Manager	: Gulraj Dhanaua
Address	: 5150 Riverbend Drive Burnaby BC Canada V3N 4V3	Address	: 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9
Telephone	: ----	Telephone	: +1 604 253 4188
Project	: ----	Date Samples Received	: 25-Feb-2025 10:50
PO	: Includes 2:1 pH	Issue Date	: 03-Mar-2025 20:21
C-O-C number	: ----		
Sampler	: ----		
Site	: ----		
Quote number	: Covanta Burnaby Standing Offer 2024		
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 BA2508-A-1	E510	19-Feb-2025	01-Mar-2025	28 days	10 days	✓	03-Mar-2025	28 days	2 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA2508-A-10	E510	19-Feb-2025	01-Mar-2025	28 days	10 days	✓	03-Mar-2025	28 days	2 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA2508-A-11	E510	19-Feb-2025	01-Mar-2025	28 days	10 days	✓	03-Mar-2025	28 days	2 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA2508-A-12	E510	19-Feb-2025	01-Mar-2025	28 days	10 days	✓	03-Mar-2025	28 days	2 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA2508-A-2	E510	19-Feb-2025	01-Mar-2025	28 days	10 days	✓	03-Mar-2025	28 days	2 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA2508-A-3	E510	19-Feb-2025	01-Mar-2025	28 days	10 days	✓	03-Mar-2025	28 days	2 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA2508-A-4	E510	19-Feb-2025	01-Mar-2025	28 days	10 days	✓	03-Mar-2025	28 days	2 days	✓



Matrix: Soil/Solid

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

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA2508-A-5	E510	19-Feb-2025	01-Mar-2025	28 days	10 days	✓	03-Mar-2025	28 days	2 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA2508-A-6	E510	19-Feb-2025	01-Mar-2025	28 days	10 days	✓	03-Mar-2025	28 days	2 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA2508-A-7	E510	19-Feb-2025	01-Mar-2025	28 days	10 days	✓	03-Mar-2025	28 days	2 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA2508-A-8	E510	19-Feb-2025	01-Mar-2025	28 days	10 days	✓	03-Mar-2025	28 days	2 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA2508-A-9	E510	19-Feb-2025	01-Mar-2025	28 days	10 days	✓	03-Mar-2025	28 days	2 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA2508-A-1	E440	19-Feb-2025	01-Mar-2025	180 days	10 days	✓	03-Mar-2025	180 days	12 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA2508-A-10	E440	19-Feb-2025	01-Mar-2025	180 days	10 days	✓	03-Mar-2025	180 days	12 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA2508-A-11	E440	19-Feb-2025	01-Mar-2025	180 days	10 days	✓	03-Mar-2025	180 days	12 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA2508-A-12	E440	19-Feb-2025	01-Mar-2025	180 days	10 days	✓	03-Mar-2025	180 days	12 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 : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA2508-A-2	E440	19-Feb-2025	01-Mar-2025	180 days	10 days	✓	03-Mar-2025	180 days	12 days	✓	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA2508-A-3	E440	19-Feb-2025	01-Mar-2025	180 days	10 days	✓	03-Mar-2025	180 days	12 days	✓	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA2508-A-4	E440	19-Feb-2025	01-Mar-2025	180 days	10 days	✓	03-Mar-2025	180 days	12 days	✓	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA2508-A-5	E440	19-Feb-2025	01-Mar-2025	180 days	10 days	✓	03-Mar-2025	180 days	12 days	✓	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA2508-A-6	E440	19-Feb-2025	01-Mar-2025	180 days	10 days	✓	03-Mar-2025	180 days	12 days	✓	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA2508-A-7	E440	19-Feb-2025	01-Mar-2025	180 days	10 days	✓	03-Mar-2025	180 days	12 days	✓	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA2508-A-8	E440	19-Feb-2025	01-Mar-2025	180 days	10 days	✓	03-Mar-2025	180 days	12 days	✓	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag BA2508-A-9	E440	19-Feb-2025	01-Mar-2025	180 days	10 days	✓	03-Mar-2025	180 days	12 days	✓	
Physical Tests : Moisture Content by Gravimetry											
LDPE bag BA2508-A-1	E144	19-Feb-2025	----	----	----		28-Feb-2025	----	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 : Moisture Content by Gravimetry										
LDPE bag BA2508-A-10	E144	19-Feb-2025	----	----	----		28-Feb-2025	----	9 days	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA2508-A-11	E144	19-Feb-2025	----	----	----		28-Feb-2025	----	9 days	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA2508-A-12	E144	19-Feb-2025	----	----	----		28-Feb-2025	----	9 days	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA2508-A-2	E144	19-Feb-2025	----	----	----		28-Feb-2025	----	9 days	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA2508-A-3	E144	19-Feb-2025	----	----	----		28-Feb-2025	----	9 days	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA2508-A-4	E144	19-Feb-2025	----	----	----		28-Feb-2025	----	9 days	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA2508-A-5	E144	19-Feb-2025	----	----	----		28-Feb-2025	----	9 days	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA2508-A-6	E144	19-Feb-2025	----	----	----		28-Feb-2025	----	9 days	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA2508-A-7	E144	19-Feb-2025	----	----	----		28-Feb-2025	----	9 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	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA2508-A-8	E144	19-Feb-2025	----	----	----		28-Feb-2025	----	9 days	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA2508-A-9	E144	19-Feb-2025	----	----	----		28-Feb-2025	----	9 days	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA2508-A-1	E108	19-Feb-2025	01-Mar-2025	30 days	10 days	✓	01-Mar-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA2508-A-10	E108	19-Feb-2025	01-Mar-2025	30 days	10 days	✓	01-Mar-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA2508-A-11	E108	19-Feb-2025	01-Mar-2025	30 days	10 days	✓	01-Mar-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA2508-A-12	E108	19-Feb-2025	01-Mar-2025	30 days	10 days	✓	01-Mar-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA2508-A-2	E108	19-Feb-2025	01-Mar-2025	30 days	10 days	✓	01-Mar-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA2508-A-3	E108	19-Feb-2025	01-Mar-2025	30 days	10 days	✓	01-Mar-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA2508-A-4	E108	19-Feb-2025	01-Mar-2025	30 days	10 days	✓	01-Mar-2025	30 days	10 days	✓



Matrix: Soil/Solid

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

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA2508-A-5	E108	19-Feb-2025	01-Mar-2025	30 days	10 days	✓	01-Mar-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA2508-A-6	E108	19-Feb-2025	01-Mar-2025	30 days	10 days	✓	01-Mar-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA2508-A-7	E108	19-Feb-2025	01-Mar-2025	30 days	10 days	✓	01-Mar-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA2508-A-8	E108	19-Feb-2025	01-Mar-2025	30 days	10 days	✓	01-Mar-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA2508-A-9	E108	19-Feb-2025	01-Mar-2025	30 days	10 days	✓	01-Mar-2025	30 days	10 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA2508-A-1	E512	25-Feb-2025	28-Feb-2025	34 days	9 days	✓	28-Feb-2025	34 days	9 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA2508-A-10	E512	25-Feb-2025	28-Feb-2025	34 days	9 days	✓	28-Feb-2025	34 days	9 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA2508-A-11	E512	25-Feb-2025	28-Feb-2025	34 days	9 days	✓	28-Feb-2025	34 days	9 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA2508-A-12	E512	25-Feb-2025	28-Feb-2025	34 days	9 days	✓	28-Feb-2025	34 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	
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA2508-A-2	E512	25-Feb-2025	28-Feb-2025	34 days	9 days	✓	28-Feb-2025	34 days	9 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA2508-A-3	E512	25-Feb-2025	28-Feb-2025	34 days	9 days	✓	28-Feb-2025	34 days	9 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA2508-A-4	E512	25-Feb-2025	28-Feb-2025	34 days	9 days	✓	28-Feb-2025	34 days	9 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA2508-A-5	E512	25-Feb-2025	28-Feb-2025	34 days	9 days	✓	28-Feb-2025	34 days	9 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA2508-A-6	E512	25-Feb-2025	28-Feb-2025	34 days	9 days	✓	28-Feb-2025	34 days	9 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA2508-A-7	E512	25-Feb-2025	28-Feb-2025	34 days	9 days	✓	28-Feb-2025	34 days	9 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA2508-A-8	E512	25-Feb-2025	28-Feb-2025	34 days	9 days	✓	28-Feb-2025	34 days	9 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA2508-A-9	E512	25-Feb-2025	28-Feb-2025	34 days	9 days	✓	28-Feb-2025	34 days	9 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA2508-A-1	E444	25-Feb-2025	28-Feb-2025	186 days	9 days	✓	28-Feb-2025	186 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	
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA2508-A-10	E444	25-Feb-2025	28-Feb-2025	186 days	9 days	✓	28-Feb-2025	186 days	9 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA2508-A-11	E444	25-Feb-2025	28-Feb-2025	186 days	9 days	✓	28-Feb-2025	186 days	9 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA2508-A-12	E444	25-Feb-2025	28-Feb-2025	186 days	9 days	✓	28-Feb-2025	186 days	9 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA2508-A-2	E444	25-Feb-2025	28-Feb-2025	186 days	9 days	✓	28-Feb-2025	186 days	9 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA2508-A-3	E444	25-Feb-2025	28-Feb-2025	186 days	9 days	✓	28-Feb-2025	186 days	9 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA2508-A-4	E444	25-Feb-2025	28-Feb-2025	186 days	9 days	✓	28-Feb-2025	186 days	9 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA2508-A-5	E444	25-Feb-2025	28-Feb-2025	186 days	9 days	✓	28-Feb-2025	186 days	9 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA2508-A-6	E444	25-Feb-2025	28-Feb-2025	186 days	9 days	✓	28-Feb-2025	186 days	9 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA2508-A-7	E444	25-Feb-2025	28-Feb-2025	186 days	9 days	✓	28-Feb-2025	186 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	
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA2508-A-8	E444	25-Feb-2025	28-Feb-2025	186 days	9 days	✓	28-Feb-2025	186 days	9 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA2508-A-9	E444	25-Feb-2025	28-Feb-2025	186 days	9 days	✓	28-Feb-2025	186 days	9 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA2508-A-1	EPP444	19-Feb-2025	25-Feb-2025	----	----		----	28 days	6 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA2508-A-10	EPP444	19-Feb-2025	25-Feb-2025	----	----		----	28 days	6 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA2508-A-11	EPP444	19-Feb-2025	25-Feb-2025	----	----		----	28 days	6 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA2508-A-12	EPP444	19-Feb-2025	25-Feb-2025	----	----		----	28 days	6 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA2508-A-2	EPP444	19-Feb-2025	25-Feb-2025	----	----		----	28 days	6 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA2508-A-3	EPP444	19-Feb-2025	25-Feb-2025	----	----		----	28 days	6 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA2508-A-4	EPP444	19-Feb-2025	25-Feb-2025	----	----		----	28 days	6 days	✓

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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) BA2508-A-5	EPP444	19-Feb-2025	25-Feb-2025	----	----		----	28 days	6 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA2508-A-6	EPP444	19-Feb-2025	25-Feb-2025	----	----		----	28 days	6 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA2508-A-7	EPP444	19-Feb-2025	25-Feb-2025	----	----		----	28 days	6 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA2508-A-8	EPP444	19-Feb-2025	25-Feb-2025	----	----		----	28 days	6 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA2508-A-9	EPP444	19-Feb-2025	25-Feb-2025	----	----		----	28 days	6 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	1890654	1	19	5.2	5.0	✔
Moisture Content by Gravimetry	E144	1890655	1	13	7.6	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	1890653	1	19	5.2	5.0	✔
Metals by CRC ICPMS (TCLP)	E444	1891040	1	12	8.3	5.0	✔
Mercury in Soil/Solid by CVAAS	E510	1890652	1	19	5.2	5.0	✔
Mercury by CVAAS (TCLP)	E512	1891039	1	12	8.3	5.0	✔
Laboratory Control Samples (LCS)							
pH by Meter (1:2 Soil:Water Extraction)	E108	1890654	1	19	5.2	5.0	✔
Moisture Content by Gravimetry	E144	1890655	1	13	7.6	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	1890653	2	19	10.5	10.0	✔
Mercury in Soil/Solid by CVAAS	E510	1890652	2	19	10.5	10.0	✔
Method Blanks (MB)							
Moisture Content by Gravimetry	E144	1890655	1	13	7.6	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	1890653	1	19	5.2	5.0	✔
Metals by CRC ICPMS (TCLP)	E444	1891040	1	12	8.3	5.0	✔
Mercury in Soil/Solid by CVAAS	E510	1890652	1	19	5.2	5.0	✔
Mercury by CVAAS (TCLP)	E512	1891039	1	12	8.3	5.0	✔
Matrix Spikes (MS)							
Metals by CRC ICPMS (TCLP)	E444	1891040	1	12	8.3	5.0	✔
Mercury by CVAAS (TCLP)	E512	1891039	1	12	8.3	5.0	✔



Methodology References and Summaries

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

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
pH by Meter (1:2 Soil:Water Extraction)	E108 ALS Environmental - Vancouver	Soil/Solid	BC Lab Manual	pH is determined by potentiometric measurement with a pH electrode at ambient laboratory temperature (normally $20 \pm 5^{\circ}\text{C}$), and is carried out in accordance with procedures described in the BC Lab Manual (prescriptive method). The procedure involves mixing the dried (at $<60^{\circ}\text{C}$) and sieved (10mesh/2mm) sample with ultra pure water at a 1:2 ratio of sediment to water. The pH is then measured by a standard pH probe.
Moisture Content by Gravimetry	E144 ALS Environmental - Vancouver	Soil/Solid	CCME PHC in Soil - Tier 1	Moisture is measured gravimetrically by drying the sample at 105°C . Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
Metals in Soil/Solid by CRC ICPMS	E440 ALS Environmental - Vancouver	Soil/Solid	EPA 6020B (mod)	This method is intended to liberate metals that may be environmentally available. Samples are dried, then sieved through a 2 mm sieve, and digested with HNO_3 and HCl . Dependent on sample matrix, some metals may be only partially recovered, including Al, Ba, Be, Cr, Sr, Ti, Tl, V, W, and Zr. Silicate minerals are not solubilized. Volatile forms of sulfur (including sulfide) may not be captured, as they may be lost during sampling, storage, or digestion. This method does not adequately recover elemental sulfur, and is unsuitable for assessment of elemental sulfur standards or guidelines. Analysis is by Collision/Reaction Cell ICPMS.
Metals by CRC ICPMS (TCLP)	E444 ALS Environmental - Vancouver	Soil/Solid	EPA 1311/6020B (mod)	An extract produced by the Toxicity Characteristic Leachate Procedure (TCLP) as per EPA 1311 is analyzed by Collision/Reaction Cell ICPMS.
Mercury in Soil/Solid by CVAAS	E510 ALS Environmental - Vancouver	Soil/Solid	EPA 200.2/1631 Appendix (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO_3 and HCl , followed by CVAAS analysis.
Mercury by CVAAS (TCLP)	E512 ALS Environmental - Vancouver	Soil/Solid	EPA 1311/245.1 (mod)	An extract produced by the Toxicity Characteristic Leachate Procedure (TCLP) as per EPA 1311 is analyzed by CVAAS.
Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Leach 1:2 Soil:Water for pH/EC	EP108 ALS Environmental - Vancouver	Soil/Solid	BC WLAP METHOD: PH, ELECTROMETRIC, SOIL	The procedure involves mixing the dried (at $<60^{\circ}\text{C}$) and sieved (No. 10 / 2mm) sample with deionized/distilled water at a 1:2 ratio of sediment to water.

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<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Digestion for Metals and Mercury	EP440 ALS Environmental - Vancouver	Soil/Solid	EPA 200.2 (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO ₃ and HCl. This method is intended to liberate metals that may be environmentally available.
TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)	EPP444 ALS Environmental - Vancouver	Soil/Solid	EPA 1311	Preparation of a Toxicity Characteristic Leaching Procedure (TCLP) solid sample involves particle size reduction, homogenization, then determination of appropriate extraction fluid. A measured portion of fresh subsample is placed in an extraction bottle with the appropriate extraction fluid then tumbled in a rotary extractor for 18 +/- 2 hours at 23 +/- 2 C. The liquid leachate is filtered to separate from solids then bottled and prepared for analytical tests.

QUALITY CONTROL REPORT

Work Order	: VA25A3999	Page	: 1 of 11
Client	: Reworld Renewable Burnaby, ULC	Laboratory	: ALS Environmental - Vancouver
Contact	: Nicole Victor	Account Manager	: Gulraj Dhanaua
Address	: 5150 Riverbend Drive Burnaby BC Canada V3N 4V3	Address	: 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9
Telephone	: ----	Telephone	: +1 604 253 4188
Project	: ----	Date Samples Received	: 25-Feb-2025 10:50
PO	: Includes 2:1 pH	Date Analysis Commenced	: 25-Feb-2025
C-O-C number	: ----	Issue Date	: 03-Mar-2025 20:21
Sampler	: ----		
Site	: ----		
Quote number	: Covanta Burnaby Standing Offer 2024		
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
Maya Urquhart	Lab Analyst	Vancouver Metals, Burnaby, British Columbia
Rebecca Sit	Supervisor - Organics Extractions	Vancouver Organics, Burnaby, British Columbia
Robin Weeks	Team Leader - 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: 1890654)											
VA25A3958-002	Anonymous	pH (1:2 soil:water)	----	E108	0.10	pH units	7.17	7.38	2.9%	5%	----
Physical Tests (QC Lot: 1890655)											
VA25A3958-014	Anonymous	Moisture	----	E144	0.25	%	7.01	7.19	2.47%	20%	----
Metals (QC Lot: 1890652)											
VA25A3958-002	Anonymous	Mercury	7439-97-6	E510	0.0500	mg/kg	<0.0500	0.122	0.0717	Diff <2x LOR	----
Metals (QC Lot: 1890653)											
VA25A3958-002	Anonymous	Aluminum	7429-90-5	E440	50	mg/kg	11400	10200	10.5%	40%	----
		Antimony	7440-36-0	E440	0.10	mg/kg	0.26	0.24	0.03	Diff <2x LOR	----
		Arsenic	7440-38-2	E440	0.10	mg/kg	3.02	2.94	2.89%	30%	----
		Barium	7440-39-3	E440	0.50	mg/kg	62.4	58.0	7.44%	40%	----
		Beryllium	7440-41-7	E440	0.10	mg/kg	0.24	0.21	0.03	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	0.150	0.115	0.035	Diff <2x LOR	----
		Calcium	7440-70-2	E440	50	mg/kg	5490	4890	11.6%	30%	----
		Chromium	7440-47-3	E440	0.50	mg/kg	31.2	30.8	1.44%	30%	----
		Cobalt	7440-48-4	E440	0.10	mg/kg	8.47	7.76	8.80%	30%	----
		Copper	7440-50-8	E440	0.50	mg/kg	16.3	14.5	11.9%	30%	----
		Iron	7439-89-6	E440	50	mg/kg	18600	16700	11.2%	30%	----
		Lead	7439-92-1	E440	0.50	mg/kg	2.53	2.32	0.20	Diff <2x LOR	----
		Lithium	7439-93-2	E440	2.0	mg/kg	8.9	8.0	0.9	Diff <2x LOR	----
		Magnesium	7439-95-4	E440	20	mg/kg	7460	6810	9.05%	30%	----
		Manganese	7439-96-5	E440	1.0	mg/kg	364	322	12.3%	30%	----
		Molybdenum	7439-98-7	E440	0.10	mg/kg	0.49	0.46	0.03	Diff <2x LOR	----
		Nickel	7440-02-0	E440	0.50	mg/kg	36.4	32.8	10.5%	30%	----
		Phosphorus	7723-14-0	E440	50	mg/kg	458	428	6.80%	30%	----
		Potassium	7440-09-7	E440	100	mg/kg	710	590	17.9%	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	277	240	14.4%	40%	----



Sub-Matrix: Soil/Solid

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Metals (QC Lot: 1890653) - continued											
VA25A3958-002	Anonymous	Strontium	7440-24-6	E440	0.50	mg/kg	27.2	25.3	6.96%	40%	----
		Sulfur	7704-34-9	E440	1000	mg/kg	<1000	<1000	0	Diff <2x LOR	----
		Thallium	7440-28-0	E440	0.050	mg/kg	0.051	<0.050	0.001	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	932	811	13.9%	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	0.345	0.301	0.044	Diff <2x LOR	----
		Vanadium	7440-62-2	E440	0.20	mg/kg	48.5	42.7	12.7%	30%	----
		Zinc	7440-66-6	E440	2.0	mg/kg	38.9	36.7	5.76%	30%	----
		Zirconium	7440-67-7	E440	1.0	mg/kg	4.1	4.2	0.09	Diff <2x LOR	----
TCLP Metals (QC Lot: 1891039)											
VA25A3999-001	BA2508-A-1	Mercury, TCLP	7439-97-6	E512	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
TCLP Metals (QC Lot: 1891040)											
VA25A3999-001	BA2508-A-1	Antimony, TCLP	7440-36-0	E444	1.00	mg/L	<1.00	<1.00	0	Diff <2x LOR	----
		Arsenic, TCLP	7440-38-2	E444	1.0	mg/L	<1.0	<1.0	0	Diff <2x LOR	----
		Barium, TCLP	7440-39-3	E444	2.5	mg/L	<2.5	<2.5	0	Diff <2x LOR	----
		Beryllium, TCLP	7440-41-7	E444	0.025	mg/L	<0.025	<0.025	0	Diff <2x LOR	----
		Boron, TCLP	7440-42-8	E444	0.50	mg/L	1.86	1.84	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	1810	1850	2.26%	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	0.696	0.687	1.38%	30%	----
		Copper, TCLP	7440-50-8	E444	0.050	mg/L	0.505	0.486	3.84%	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	114	110	3.52%	30%	----
		Nickel, TCLP	7440-02-0	E444	0.25	mg/L	0.32	0.31	0.008	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	2.43	2.41	0.02	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: 1890655)						
Moisture	----	E144	0.25	%	<0.25	----
Metals (QCLot: 1890652)						
Mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	----
Metals (QCLot: 1890653)						
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	----



Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 1890653) - continued						
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 (QCLot: 1891039)						
Mercury, TCLP	7439-97-6	E512	0.001	mg/L	<0.0010	----
TCLP Metals (QCLot: 1891040)						
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: 1890654)									
pH (1:2 soil:water)	----	E108	----	pH units	6 pH units	100	95.0	105	----
Physical Tests (QCLot: 1890655)									
Moisture	----	E144	0.25	%	50 %	100	90.0	110	----
Metals (QCLot: 1890652)									
Mercury	7439-97-6	E510	0.005	mg/kg	0.1 mg/kg	98.4	80.0	120	----
Metals (QCLot: 1890653)									
Aluminum	7429-90-5	E440	50	mg/kg	200 mg/kg	106	80.0	120	----
Antimony	7440-36-0	E440	0.1	mg/kg	100 mg/kg	107	80.0	120	----
Arsenic	7440-38-2	E440	0.1	mg/kg	100 mg/kg	107	80.0	120	----
Barium	7440-39-3	E440	0.5	mg/kg	25 mg/kg	102	80.0	120	----
Beryllium	7440-41-7	E440	0.1	mg/kg	10 mg/kg	104	80.0	120	----
Bismuth	7440-69-9	E440	0.2	mg/kg	100 mg/kg	97.4	80.0	120	----
Boron	7440-42-8	E440	5	mg/kg	100 mg/kg	100	80.0	120	----
Cadmium	7440-43-9	E440	0.02	mg/kg	10 mg/kg	106	80.0	120	----
Calcium	7440-70-2	E440	50	mg/kg	5000 mg/kg	100	80.0	120	----
Chromium	7440-47-3	E440	0.5	mg/kg	25 mg/kg	104	80.0	120	----
Cobalt	7440-48-4	E440	0.1	mg/kg	25 mg/kg	104	80.0	120	----
Copper	7440-50-8	E440	0.5	mg/kg	25 mg/kg	101	80.0	120	----
Iron	7439-89-6	E440	50	mg/kg	100 mg/kg	103	80.0	120	----
Lead	7439-92-1	E440	0.5	mg/kg	50 mg/kg	98.9	80.0	120	----
Lithium	7439-93-2	E440	2	mg/kg	25 mg/kg	104	80.0	120	----
Magnesium	7439-95-4	E440	20	mg/kg	5000 mg/kg	108	80.0	120	----
Manganese	7439-96-5	E440	1	mg/kg	25 mg/kg	105	80.0	120	----
Molybdenum	7439-98-7	E440	0.1	mg/kg	25 mg/kg	104	80.0	120	----
Nickel	7440-02-0	E440	0.5	mg/kg	50 mg/kg	105	80.0	120	----
Phosphorus	7723-14-0	E440	50	mg/kg	1000 mg/kg	106	80.0	120	----
Potassium	7440-09-7	E440	100	mg/kg	5000 mg/kg	110	80.0	120	----
Selenium	7782-49-2	E440	0.2	mg/kg	100 mg/kg	104	80.0	120	----
Silver	7440-22-4	E440	0.1	mg/kg	10 mg/kg	98.5	80.0	120	----
Sodium	7440-23-5	E440	50	mg/kg	5000 mg/kg	106	80.0	120	----
Strontium	7440-24-6	E440	0.5	mg/kg	25 mg/kg	107	80.0	120	----
Sulfur	7704-34-9	E440	1000	mg/kg	5000 mg/kg	96.8	80.0	120	----



Sub-Matrix: Soil/Solid					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
					Target Concentration	LCS	Low	High	Qualifier
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 1890653) - continued									
Thallium	7440-28-0	E440	0.05	mg/kg	100 mg/kg	100	80.0	120	----
Tin	7440-31-5	E440	2	mg/kg	50 mg/kg	105	80.0	120	----
Titanium	7440-32-6	E440	1	mg/kg	25 mg/kg	101	80.0	120	----
Tungsten	7440-33-7	E440	0.5	mg/kg	10 mg/kg	99.5	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	105	80.0	120	----
Zinc	7440-66-6	E440	2	mg/kg	50 mg/kg	97.9	80.0	120	----
Zirconium	7440-67-7	E440	1	mg/kg	10 mg/kg	108	80.0	120	----



Matrix Spike (MS) Report

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

Sub-Matrix: Soil/Solid

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
TCLP Metals (QCLot: 1891039)										
VA25A3999-001	BA2508-A-1	Mercury, TCLP	7439-97-6	E512	0.0009 mg/L	0.001 mg/L	87.2	50.0	140	----
TCLP Metals (QCLot: 1891040)										
VA25A3999-001	BA2508-A-1	Antimony, TCLP	7440-36-0	E444	5.13 mg/L	5 mg/L	102	50.0	140	----
		Arsenic, TCLP	7440-38-2	E444	5.6 mg/L	5 mg/L	113	50.0	140	----
		Barium, TCLP	7440-39-3	E444	14.1 mg/L	12.5 mg/L	113	50.0	140	----
		Beryllium, TCLP	7440-41-7	E444	0.244 mg/L	0.25 mg/L	97.4	50.0	140	----
		Boron, TCLP	7440-42-8	E444	9.27 mg/L	10 mg/L	92.7	50.0	140	----
		Cadmium, TCLP	7440-43-9	E444	0.248 mg/L	0.25 mg/L	99.0	50.0	140	----
		Calcium, TCLP	7440-70-2	E444	ND mg/L	----	ND	50.0	140	----
		Chromium, TCLP	7440-47-3	E444	1.32 mg/L	1.25 mg/L	106	50.0	140	----
		Cobalt, TCLP	7440-48-4	E444	ND mg/L	----	ND	50.0	140	----
		Copper, TCLP	7440-50-8	E444	2.52 mg/L	2.5 mg/L	101	50.0	140	----
		Iron, TCLP	7439-89-6	E444	258 mg/L	250 mg/L	103	50.0	140	----
		Lead, TCLP	7439-92-1	E444	9.97 mg/L	10 mg/L	99.7	50.0	140	----
		Magnesium, TCLP	7439-95-4	E444	267 mg/L	250 mg/L	107	50.0	140	----
		Nickel, TCLP	7440-02-0	E444	2.56 mg/L	2.5 mg/L	102	50.0	140	----
		Selenium, TCLP	7782-49-2	E444	5.32 mg/L	5 mg/L	106	50.0	140	----
		Silver, TCLP	7440-22-4	E444	0.093 mg/L	0.1 mg/L	93.3	50.0	140	----
		Thallium, TCLP	7440-28-0	E444	5.0 mg/L	5 mg/L	99.8	50.0	140	----
		Uranium, TCLP	7440-61-1	E444	4.87 mg/L	5 mg/L	97.3	50.0	150	----
		Vanadium, TCLP	7440-62-2	E444	0.82 mg/L	0.75 mg/L	109	50.0	140	----
		Zinc, TCLP	7440-66-6	E444	10.3 mg/L	10 mg/L	103	50.0	140	----
		Zirconium, TCLP	7440-67-7	E444	0.8 mg/L	1 mg/L	81.6	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:

Sub-Matrix:					Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method			Low	High	
Metals (QCLot: 1890652)									
QC-1890652-003	MRCA-21	Mercury	7439-97-6	E510	0.068 mg/kg	95.9	70.0	130	----
Metals (QCLot: 1890653)									
QC-1890653-003	MRCA-21	Aluminum	7429-90-5	E440	22500 mg/kg	114	70.0	130	----
QC-1890653-003	MRCA-21	Antimony	7440-36-0	E440	24.8 mg/kg	107	70.0	130	----
QC-1890653-003	MRCA-21	Arsenic	7440-38-2	E440	21.2 mg/kg	107	70.0	130	----
QC-1890653-003	MRCA-21	Barium	7440-39-3	E440	788 mg/kg	105	70.0	130	----
QC-1890653-003	MRCA-21	Beryllium	7440-41-7	E440	1.82 mg/kg	116	70.0	130	----
QC-1890653-003	MRCA-21	Bismuth	7440-69-9	E440	1.78 mg/kg	93.8	70.0	130	----
QC-1890653-003	MRCA-21	Cadmium	7440-43-9	E440	2.15 mg/kg	109	70.0	130	----
QC-1890653-003	MRCA-21	Calcium	7440-70-2	E440	4900 mg/kg	108	70.0	130	----
QC-1890653-003	MRCA-21	Chromium	7440-47-3	E440	56.9 mg/kg	107	70.0	130	----
QC-1890653-003	MRCA-21	Cobalt	7440-48-4	E440	32 mg/kg	109	70.0	130	----
QC-1890653-003	MRCA-21	Copper	7440-50-8	E440	969 mg/kg	108	70.0	130	----
QC-1890653-003	MRCA-21	Iron	7439-89-6	E440	32700 mg/kg	108	70.0	130	----
QC-1890653-003	MRCA-21	Lead	7439-92-1	E440	919 mg/kg	97.8	70.0	130	----
QC-1890653-003	MRCA-21	Lithium	7439-93-2	E440	47.3 mg/kg	115	70.0	130	----
QC-1890653-003	MRCA-21	Magnesium	7439-95-4	E440	7780 mg/kg	113	70.0	130	----
QC-1890653-003	MRCA-21	Manganese	7439-96-5	E440	8640 mg/kg	107	70.0	130	----
QC-1890653-003	MRCA-21	Molybdenum	7439-98-7	E440	25.1 mg/kg	104	70.0	130	----
QC-1890653-003	MRCA-21	Nickel	7440-02-0	E440	1000 mg/kg	108	70.0	130	----
QC-1890653-003	MRCA-21	Phosphorus	7723-14-0	E440	660 mg/kg	114	70.0	130	----
QC-1890653-003	MRCA-21	Potassium	7440-09-7	E440	10800 mg/kg	112	70.0	130	----
QC-1890653-003	MRCA-21	Selenium	7782-49-2	E440	1.04 mg/kg	107	60.0	140	----
QC-1890653-003	MRCA-21	Silver	7440-22-4	E440	8.98 mg/kg	104	70.0	130	----
QC-1890653-003	MRCA-21	Sodium	7440-23-5	E440	1770 mg/kg	120	70.0	130	----
QC-1890653-003	MRCA-21	Strontium	7440-24-6	E440	41 mg/kg	106	70.0	130	----
QC-1890653-003	MRCA-21	Sulfur	7704-34-9	E440	3940 mg/kg	103	50.0	150	----
QC-1890653-003	MRCA-21	Thallium	7440-28-0	E440	0.907 mg/kg	102	70.0	130	----
QC-1890653-003	MRCA-21	Tin	7440-31-5	E440	3.79 mg/kg	109	40.0	160	----
QC-1890653-003	MRCA-21	Titanium	7440-32-6	E440	2790 mg/kg	109	70.0	130	----
QC-1890653-003	MRCA-21	Tungsten	7440-33-7	E440	6.99 mg/kg	107	70.0	130	----
QC-1890653-003	MRCA-21	Uranium	7440-61-1	E440	3.97 mg/kg	94.3	70.0	130	----
QC-1890653-003	MRCA-21	Vanadium	7440-62-2	E440	66.2 mg/kg	106	70.0	130	----



Sub-Matrix:					Reference Material (RM) Report			
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)	
							Low	High
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method				Qualifier
Metals (QCLot: 1890653) - continued								
QC-1890653-003	MRCA-21	Zinc	7440-66-6	E440	828 mg/kg	103	70.0	130
QC-1890653-003	MRCA-21	Zirconium	7440-67-7	E440	6.91 mg/kg	98.1	70.0	130



Chain of Custody / Analytical Request Form

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Report To				Report Format / Distribution				Service Requested (Rush for routine analysis subject to availability)																					
Company: Covanta Energy				☐ Standard ☐ Other				☒ Regular (Standard Turnaround Times - Business Days)																					
Contact: Nicole Victor / Dan Skrypnik				☒ PDF ☐ Excel ☐ Digital ☐ Fax				☐ Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT																					
Address: 5150 Riverbend Drive				Email 1: nvictor@covanta.com				☐ Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT																					
Burnaby BC				Email 2: rminchin@covanta.com				☐ Same Day or Weekend Emergency - Contact ALS to Confirm TAT																					
Phone: 604-521-1025				Email 3: dskrypnik@covanta.com				Analysis Request																					
Fax: ☐ Yes ☐ No				brent.kirkpatrick@metrovancover.org																									
				Sarah.Wellman@metrovancover.org																									
Invoice To Same as Report ?				Client / Project Information				Please indicate below Filtered, Preserved or both (F, P, F/P)																					
Hardcopy of Invoice with Report? ☐ Yes ☐ No				Job #:																									
Company:				PO / AFE: PO#																									
Contact:				LSD: (includes 2:1 pH)																									
Address:				Quote #:																									
Phone:																													
Fax:																													
Lab Work Order # (lab use only)				ALS Contact:				Sampler:																					
Sample		Sample Identification		Date		Time		Sample Type		MET-TCLP-VA (all metals, Hg)		MOISTURE		Chrome 6		MET-CSR+FULL-VA (all metals)		Number of Containers											
#		(This description will appear on the report)		(dd-mm-yy)		(hh:mm)																							
BA2508-A-1				19-Feb-25		9:00		Soil		X		X				X		1											
BA2508-A-2				19-Feb-25		9:00		Soil		X		X				X		1											
BA2508-A-3				19-Feb-25		9:00		Soil		X		X				X		1											
BA2508-A-4				19-Feb-25		9:00		Soil		X		X				X		1											
BA2508-A-5				19-Feb-25		9:00		Soil		X		X				X		1											
BA2508-A-6				19-Feb-25		9:00		Soil		X		X				X		1											
BA2508-A-7				19-Feb-25		9:00		Soil		X		X				X		1											
BA2508-A-8				19-Feb-25		9:00		Soil		X		X				X		1											
BA2508-A-9				19-Feb-25		9:00		Soil		X		X				X		1											
BA2508-A-10				19-Feb-25		9:00		Soil		X		X				X		1											
BA2508-A-11				19-Feb-25		9:00		Soil		X		X				X		1											
BA2508-A-12				19-Feb-25		9:00		Soil		X		X				X		1											
Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details																													
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.																													
By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.																													
Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.																													
SHIPMENT/RELEASE (client use)										SHIPMENT/RECEPTION (lab use only)										SHIPMENT/VERIFICATION (lab use only)									
Released by:		Date (dd-mm-yy)		Time (hh:mm)		Received by:		Rcvd 25Feb2025		Time:		Temperature:		Verified by:		Date:		Time:		Observations:									
[Signature]		25-Feb-25		0800		[Signature]				1050am		19 °C								Yes / No ?									
																				If Yes add SIF									
GENF 20.00 Front																													