

Bottom Ash Data

2020 Week 20

The following analytical report was sent to the Ministry of Environment and Climate Change Strategy on May 27, 2020. The data represents bottom ash composite results for week 20 of 2020 (May 10, 2020 to May 16, 2020).

The bottom ash meets the requirements of Metro Vancouver's Bottom Ash Management Plan and is suitable for disposal.



CERTIFICATE OF ANALYSIS

Work Order : **VA20A6633**
Client : **Covanta Burnaby Renewable Energy, ULC**
Contact : Steve McKinney
Address : 5150 Riverbend Drive
Burnaby BC Canada V3N 4V3
Telephone : 604 521 1025
Project : Weekly Bottom Ash-Suite
PO : VANCO 0000049378
C-O-C number : ----
Sampler : ----
Site : ----
Quote number : Standing Offer
No. of samples received : 12
No. of samples analysed : 12

Page : 1 of 11
Laboratory : Vancouver - Environmental
Account Manager : Brent Mack
Address : 8081 Lougheed Highway
Burnaby BC Canada V5A 1W9
Telephone : +1 604 253 4188
Date Samples Received : 19-May-2020 10:30
Date Analysis Commenced : 24-May-2020
Issue Date : 26-May-2020 14:51

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>
Angela Ren	Team Leader - Metals	Metals, Burnaby, British Columbia
Evan Ben-Oliel	Metal Analyst	Metals, Burnaby, British Columbia
Janice Leung	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).

<i>Unit</i>	<i>Description</i>
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 in reports identified as "**Preliminary Report**" are considered authorized for use.



Analytical Results

Sub-Matrix: Soil					Client sample ID	BA2020-A-1	BA2020-A-2	BA2020-A-3	BA2020-A-4	BA2020-A-5
(Matrix: Soil/Solid)					Client sampling date / time	13-May-2020 09:00	13-May-2020 09:00	13-May-2020 09:00	13-May-2020 09:00	13-May-2020 09:00
Analyte	CAS Number	Method	LOR	Unit	VA20A6633-001	VA20A6633-002	VA20A6633-003	VA20A6633-004	VA20A6633-005	
					Result	Result	Result	Result	Result	
Physical Tests										
pH (1:2 soil:water)	----	E108	0.10	pH units	10.8	10.8	10.9	11.0	11.0	
Metals										
aluminum	7429-90-5	E440	50	mg/kg	35800	33800	39900	47400	35600	
antimony	7440-36-0	E440	0.10	mg/kg	132	112	122	122	145	
arsenic	7440-38-2	E440	0.10	mg/kg	41.9	35.6	47.3	46.1	48.5	
barium	7440-39-3	E440	0.50	mg/kg	454	483	512	483	501	
beryllium	7440-41-7	E440	0.10	mg/kg	0.36	0.44	0.37	0.36	0.38	
bismuth	7440-69-9	E440	0.20	mg/kg	6.09	5.38	5.25	5.21	6.51	
boron	7440-42-8	E440	5.0	mg/kg	175	364	168	134	226	
cadmium	7440-43-9	E440	0.020	mg/kg	19.9	15.6	17.6	17.8	18.6	
calcium	7440-70-2	E440	50	mg/kg	120000	118000	115000	112000	113000	
chromium	7440-47-3	E440	0.50	mg/kg	479	129	159	140	149	
cobalt	7440-48-4	E440	0.10	mg/kg	30.3	27.1	138	39.1	19.1	
copper	7440-50-8	E440	0.50	mg/kg	2020	2900	1240	1130	3510	
iron	7439-89-6	E440	50	mg/kg	58400	41400	52800	58100	49300	
lead	7439-92-1	E440	0.50	mg/kg	680	475	439	428	497	
lithium	7439-93-2	E440	2.0	mg/kg	19.0	17.9	20.1	17.2	19.8	
magnesium	7439-95-4	E440	20	mg/kg	11500	9640	13100	10500	10900	
manganese	7439-96-5	E440	1.0	mg/kg	1270	669	3370	893	656	
mercury	7439-97-6	E510	0.0500	mg/kg	0.0776	<0.0500	0.0817	<0.0500	0.0684	
molybdenum	7439-98-7	E440	0.10	mg/kg	148	54.7	59.7	44.2	50.5	
nickel	7440-02-0	E440	0.50	mg/kg	350	87.5	102	374	213	
phosphorus	7723-14-0	E440	50	mg/kg	9510	8740	10100	8630	9380	
potassium	7440-09-7	E440	100	mg/kg	6640	6410	6180	5720	6380	
selenium	7782-49-2	E440	0.20	mg/kg	0.42	0.38	0.43	0.35	0.42	
silver	7440-22-4	E440	0.10	mg/kg	4.41	3.50	5.07	3.76	4.68	
sodium	7440-23-5	E440	50	mg/kg	18500	16600	16600	15400	15300	
strontium	7440-24-6	E440	0.50	mg/kg	279	268	260	292	329	
sulfur	7704-34-9	E440	1000	mg/kg	15000	12800	13500	13400	12700	
thallium	7440-28-0	E440	0.050	mg/kg	<0.050	<0.050	0.052	<0.050	<0.050	



Analytical Results

Sub-Matrix: Soil					Client sample ID				
(Matrix: Soil/Solid)					BA2020-A-1	BA2020-A-2	BA2020-A-3	BA2020-A-4	BA2020-A-5
Client sampling date / time					13-May-2020 09:00	13-May-2020 09:00	13-May-2020 09:00	13-May-2020 09:00	13-May-2020 09:00
Analyte	CAS Number	Method	LOR	Unit	VA20A6633-001	VA20A6633-002	VA20A6633-003	VA20A6633-004	VA20A6633-005
					Result	Result	Result	Result	Result
Metals									
tin	7440-31-5	E440	2.0	mg/kg	145	109	110	114	112
titanium	7440-32-6	E440	1.0	mg/kg	484	520	996	1730	1150
tungsten	7440-33-7	E440	0.50	mg/kg	13.4	9.35	37.5	22.2	17.2
uranium	7440-61-1	E440	0.050	mg/kg	4.51	4.16	4.52	3.96	3.92
vanadium	7440-62-2	E440	0.20	mg/kg	44.4	38.9	42.4	40.8	38.1
zinc	7440-66-6	E440	2.0	mg/kg	4020	7330	5010	4000	4750
zirconium	7440-67-7	E440	1.0	mg/kg	1.8	1.1	2.1	4.4	4.1
TCLP Metals									
pH, TCLP 1st preliminary	----	EPP444	0.010	pH units	11.6	11.6	11.6	11.6	11.6
pH, TCLP 2nd preliminary	----	EPP444	0.010	pH units	8.46	8.04	8.18	8.14	7.97
pH, TCLP extraction fluid initial	----	EPP444	0.010	pH units	2.85	2.85	2.85	2.85	2.85
pH, TCLP final	----	EPP444	0.010	pH units	6.12	6.21	6.72	6.68	6.69
antimony, TCLP	7440-36-0	E444	1.0	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
arsenic, TCLP	7440-38-2	E444	1.0	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
barium, TCLP	7440-39-3	E444	2.5	mg/L	<2.5	<2.5	<2.5	<2.5	<2.5
beryllium, TCLP	7440-41-7	E444	0.025	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025
boron, TCLP	7440-42-8	E444	0.50	mg/L	2.17	2.24	1.86	1.91	1.95
cadmium, TCLP	7440-43-9	E444	0.050	mg/L	0.415	0.584	0.248	0.259	0.294
calcium, TCLP	7440-70-2	E444	10	mg/L	1930	2050	1760	1840	1820
chromium, TCLP	7440-47-3	E444	0.25	mg/L	<0.25	<0.25	<0.25	<0.25	<0.25
cobalt, TCLP	7440-48-4	E444	0.050	mg/L	2.13	0.439	0.494	0.650	0.942
copper, TCLP	7440-50-8	E444	0.050	mg/L	1.44	1.42	0.511	0.664	0.748
iron, TCLP	7439-89-6	E444	5.0	mg/L	<5.0	<5.0	<5.0	<5.0	<5.0
lead, TCLP	7439-92-1	E444	0.25	mg/L	<0.25	0.27	<0.25	<0.25	<0.25
magnesium, TCLP	7439-95-4	E444	2.5	mg/L	163	160	133	129	141
mercury, TCLP	7439-97-6	E512	0.0100	mg/L	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
nickel, TCLP	7440-02-0	E444	0.25	mg/L	0.66	0.54	0.36	0.35	0.42
selenium, TCLP	7782-49-2	E444	1.00	mg/L	<1.00	<1.00	<1.00	<1.00	<1.00
silver, TCLP	7440-22-4	E444	0.050	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050
thallium, TCLP	7440-28-0	E444	1.0	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
vanadium, TCLP	7440-62-2	E444	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	BA2020-A-1	BA2020-A-2	BA2020-A-3	BA2020-A-4	BA2020-A-5
Client sampling date / time					13-May-2020 09:00	13-May-2020 09:00	13-May-2020 09:00	13-May-2020 09:00	13-May-2020 09:00	13-May-2020 09:00
Analyte	CAS Number	Method	LOR	Unit	VA20A6633-001	VA20A6633-002	VA20A6633-003	VA20A6633-004	VA20A6633-005	
					Result	Result	Result	Result	Result	
TCLP Metals										
zinc, TCLP	7440-66-6	E444	0.50	mg/L	68.9	52.6	22.7	31.5	25.8	

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



Analytical Results

Sub-Matrix: Soil					Client sample ID	BA2020-A-6	BA2020-A-7	BA2020-A-8	BA2020-A-9	BA2020-A-10
(Matrix: Soil/Solid)					Client sampling date / time	13-May-2020 09:00	13-May-2020 09:00	13-May-2020 09:00	13-May-2020 09:00	13-May-2020 09:00
Analyte	CAS Number	Method	LOR	Unit	VA20A6633-006	VA20A6633-007	VA20A6633-008	VA20A6633-009	VA20A6633-010	
					Result	Result	Result	Result	Result	
Physical Tests										
pH (1:2 soil:water)	----	E108	0.10	pH units	11.1	11.0	11.0	11.0	11.0	
Metals										
aluminum	7429-90-5	E440	50	mg/kg	41000	45900	34100	34400	31600	
antimony	7440-36-0	E440	0.10	mg/kg	131	170	140	125	126	
arsenic	7440-38-2	E440	0.10	mg/kg	41.1	46.9	35.8	43.3	36.1	
barium	7440-39-3	E440	0.50	mg/kg	658	540	582	494	499	
beryllium	7440-41-7	E440	0.10	mg/kg	0.40	0.37	0.36	0.39	0.35	
bismuth	7440-69-9	E440	0.20	mg/kg	5.03	6.94	9.26	5.36	5.27	
boron	7440-42-8	E440	5.0	mg/kg	305	182	341	128	157	
cadmium	7440-43-9	E440	0.020	mg/kg	17.0	16.6	16.8	16.2	15.5	
calcium	7440-70-2	E440	50	mg/kg	120000	115000	124000	114000	118000	
chromium	7440-47-3	E440	0.50	mg/kg	148	142	232	190	143	
cobalt	7440-48-4	E440	0.10	mg/kg	24.8	25.2	22.8	21.4	27.2	
copper	7440-50-8	E440	0.50	mg/kg	1680	10300	1780	3620	1140	
iron	7439-89-6	E440	50	mg/kg	55600	67300	75300	72400	64700	
lead	7439-92-1	E440	0.50	mg/kg	398	643	428	529	1260	
lithium	7439-93-2	E440	2.0	mg/kg	20.4	56.6	17.4	15.6	15.4	
magnesium	7439-95-4	E440	20	mg/kg	10400	10000	12800	8870	11800	
manganese	7439-96-5	E440	1.0	mg/kg	858	4140	848	806	765	
mercury	7439-97-6	E510	0.0500	mg/kg	<0.0500	<0.0500	<0.0500	1.57	<0.0500	
molybdenum	7439-98-7	E440	0.10	mg/kg	38.2	176	38.9	46.5	94.9	
nickel	7440-02-0	E440	0.50	mg/kg	87.4	105	114	154	91.0	
phosphorus	7723-14-0	E440	50	mg/kg	12000	11000	8490	8700	9850	
potassium	7440-09-7	E440	100	mg/kg	5900	6110	6010	6150	6120	
selenium	7782-49-2	E440	0.20	mg/kg	0.38	0.42	0.43	0.40	0.37	
silver	7440-22-4	E440	0.10	mg/kg	4.28	4.44	5.28	4.54	7.35	
sodium	7440-23-5	E440	50	mg/kg	16200	15700	16700	16200	15700	
strontium	7440-24-6	E440	0.50	mg/kg	296	253	320	244	267	
sulfur	7704-34-9	E440	1000	mg/kg	12400	13800	11600	13500	12200	
thallium	7440-28-0	E440	0.050	mg/kg	<0.050	0.050	<0.050	0.052	<0.050	
tin	7440-31-5	E440	2.0	mg/kg	118	188	115	135	106	



Analytical Results

Sub-Matrix: Soil					Client sample ID	BA2020-A-6	BA2020-A-7	BA2020-A-8	BA2020-A-9	BA2020-A-10
(Matrix: Soil/Solid)										
Client sampling date / time						13-May-2020 09:00	13-May-2020 09:00	13-May-2020 09:00	13-May-2020 09:00	13-May-2020 09:00
Analyte	CAS Number	Method	LOR	Unit	VA20A6633-006	VA20A6633-007	VA20A6633-008	VA20A6633-009	VA20A6633-010	
					Result	Result	Result	Result	Result	
Metals										
titanium	7440-32-6	E440	1.0	mg/kg	1050	1020	776	1080	489	
tungsten	7440-33-7	E440	0.50	mg/kg	12.4	13.6	11.9	13.5	9.74	
uranium	7440-61-1	E440	0.050	mg/kg	4.60	4.58	4.15	4.14	4.18	
vanadium	7440-62-2	E440	0.20	mg/kg	46.3	41.5	45.1	41.4	39.5	
zinc	7440-66-6	E440	2.0	mg/kg	5060	5980	4680	6940	5250	
zirconium	7440-67-7	E440	1.0	mg/kg	1.3	1.4	1.0	1.4	1.2	
TCLP Metals										
pH, TCLP 1st preliminary	----	EPP444	0.010	pH units	11.6	11.6	11.6	11.7	11.5	
pH, TCLP 2nd preliminary	----	EPP444	0.010	pH units	8.20	7.99	8.21	8.55	7.62	
pH, TCLP extraction fluid initial	----	EPP444	0.010	pH units	2.85	2.85	2.85	2.85	2.85	
pH, TCLP final	----	EPP444	0.010	pH units	6.57	6.82	6.81	6.78	6.10	
antimony, TCLP	7440-36-0	E444	1.0	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
arsenic, TCLP	7440-38-2	E444	1.0	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
barium, TCLP	7440-39-3	E444	2.5	mg/L	<2.5	<2.5	<2.5	<2.5	<2.5	
beryllium, TCLP	7440-41-7	E444	0.025	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	
boron, TCLP	7440-42-8	E444	0.50	mg/L	1.79	1.82	1.95	1.81	2.05	
cadmium, TCLP	7440-43-9	E444	0.050	mg/L	0.227	0.172	0.358	0.227	0.495	
calcium, TCLP	7440-70-2	E444	10	mg/L	1720	1740	1830	1850	2010	
chromium, TCLP	7440-47-3	E444	0.25	mg/L	<0.25	<0.25	<0.25	<0.25	<0.25	
cobalt, TCLP	7440-48-4	E444	0.050	mg/L	0.403	1.12	0.424	0.320	0.522	
copper, TCLP	7440-50-8	E444	0.050	mg/L	0.640	0.433	0.479	0.384	1.28	
iron, TCLP	7439-89-6	E444	5.0	mg/L	<5.0	<5.0	<5.0	<5.0	<5.0	
lead, TCLP	7439-92-1	E444	0.25	mg/L	<0.25	<0.25	<0.25	<0.25	<0.25	
magnesium, TCLP	7439-95-4	E444	2.5	mg/L	130	130	128	132	158	
mercury, TCLP	7439-97-6	E512	0.0100	mg/L	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	
nickel, TCLP	7440-02-0	E444	0.25	mg/L	0.42	0.35	0.36	0.45	0.48	
selenium, TCLP	7782-49-2	E444	1.00	mg/L	<1.00	<1.00	<1.00	<1.00	<1.00	
silver, TCLP	7440-22-4	E444	0.050	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	
thallium, TCLP	7440-28-0	E444	1.0	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
vanadium, TCLP	7440-62-2	E444	0.15	mg/L	<0.15	<0.15	<0.15	<0.15	<0.15	
zinc, TCLP	7440-66-6	E444	0.50	mg/L	25.8	7.62	16.4	10.3	61.4	



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



Analytical Results

Sub-Matrix: Soil					Client sample ID	BA2020-A-11	BA2020-A-12	----	----	----
(Matrix: Soil/Solid)										
Client sampling date / time						13-May-2020 09:00	13-May-2020 09:00	---	---	---
Analyte	CAS Number	Method	LOR	Unit	VA20A6633-011	VA20A6633-012	-----	-----	-----	-----
					Result	Result	---	---	---	---
Physical Tests										
pH (1:2 soil:water)	----	E108	0.10	pH units	10.9	11.1	----	----	----	----
Metals										
aluminum	7429-90-5	E440	50	mg/kg	38500	33000	----	----	----	----
antimony	7440-36-0	E440	0.10	mg/kg	190	129	----	----	----	----
arsenic	7440-38-2	E440	0.10	mg/kg	54.2	45.9	----	----	----	----
barium	7440-39-3	E440	0.50	mg/kg	417	493	----	----	----	----
beryllium	7440-41-7	E440	0.10	mg/kg	0.35	0.34	----	----	----	----
bismuth	7440-69-9	E440	0.20	mg/kg	8.32	5.44	----	----	----	----
boron	7440-42-8	E440	5.0	mg/kg	202	232	----	----	----	----
cadmium	7440-43-9	E440	0.020	mg/kg	25.9	15.8	----	----	----	----
calcium	7440-70-2	E440	50	mg/kg	130000	117000	----	----	----	----
chromium	7440-47-3	E440	0.50	mg/kg	159	141	----	----	----	----
cobalt	7440-48-4	E440	0.10	mg/kg	28.7	42.2	----	----	----	----
copper	7440-50-8	E440	0.50	mg/kg	2090	2550	----	----	----	----
iron	7439-89-6	E440	50	mg/kg	37800	47400	----	----	----	----
lead	7439-92-1	E440	0.50	mg/kg	814	409	----	----	----	----
lithium	7439-93-2	E440	2.0	mg/kg	17.6	17.5	----	----	----	----
magnesium	7439-95-4	E440	20	mg/kg	10900	10600	----	----	----	----
manganese	7439-96-5	E440	1.0	mg/kg	833	706	----	----	----	----
mercury	7439-97-6	E510	0.0500	mg/kg	0.439	<0.0500	----	----	----	----
molybdenum	7439-98-7	E440	0.10	mg/kg	87.2	33.8	----	----	----	----
nickel	7440-02-0	E440	0.50	mg/kg	103	116	----	----	----	----
phosphorus	7723-14-0	E440	50	mg/kg	12400	9530	----	----	----	----
potassium	7440-09-7	E440	100	mg/kg	6730	5900	----	----	----	----
selenium	7782-49-2	E440	0.20	mg/kg	0.45	0.36	----	----	----	----
silver	7440-22-4	E440	0.10	mg/kg	5.80	4.34	----	----	----	----
sodium	7440-23-5	E440	50	mg/kg	16700	14700	----	----	----	----
strontium	7440-24-6	E440	0.50	mg/kg	292	333	----	----	----	----
sulfur	7704-34-9	E440	1000	mg/kg	17300	12700	----	----	----	----
thallium	7440-28-0	E440	0.050	mg/kg	0.061	<0.050	----	----	----	----
tin	7440-31-5	E440	2.0	mg/kg	179	142	----	----	----	----



Analytical Results

Sub-Matrix: Soil					Client sample ID	BA2020-A-11	BA2020-A-12	----	----	----
(Matrix: Soil/Solid)					Client sampling date / time	13-May-2020 09:00	13-May-2020 09:00	---	---	---
Analyte	CAS Number	Method	LOR	Unit	VA20A6633-011	VA20A6633-012	-----	-----	-----	
					Result	Result	---	---	---	
Metals										
titanium	7440-32-6	E440	1.0	mg/kg	309	519	----	----	----	
tungsten	7440-33-7	E440	0.50	mg/kg	16.1	8.74	----	----	----	
uranium	7440-61-1	E440	0.050	mg/kg	5.86	4.44	----	----	----	
vanadium	7440-62-2	E440	0.20	mg/kg	47.7	44.6	----	----	----	
zinc	7440-66-6	E440	2.0	mg/kg	4960	6100	----	----	----	
zirconium	7440-67-7	E440	1.0	mg/kg	2.2	1.1	----	----	----	
TCLP Metals										
pH, TCLP 1st preliminary	----	EPP444	0.010	pH units	11.7	11.6	----	----	----	
pH, TCLP 2nd preliminary	----	EPP444	0.010	pH units	8.27	9.20	----	----	----	
pH, TCLP extraction fluid initial	----	EPP444	0.010	pH units	2.85	2.85	----	----	----	
pH, TCLP final	----	EPP444	0.010	pH units	6.18	6.71	----	----	----	
antimony, TCLP	7440-36-0	E444	1.0	mg/L	<1.0	<1.0	----	----	----	
arsenic, TCLP	7440-38-2	E444	1.0	mg/L	<1.0	<1.0	----	----	----	
barium, TCLP	7440-39-3	E444	2.5	mg/L	<2.5	<2.5	----	----	----	
beryllium, TCLP	7440-41-7	E444	0.025	mg/L	<0.025	<0.025	----	----	----	
boron, TCLP	7440-42-8	E444	0.50	mg/L	2.04	1.90	----	----	----	
cadmium, TCLP	7440-43-9	E444	0.050	mg/L	0.388	0.287	----	----	----	
calcium, TCLP	7440-70-2	E444	10	mg/L	2030	1770	----	----	----	
chromium, TCLP	7440-47-3	E444	0.25	mg/L	<0.25	<0.25	----	----	----	
cobalt, TCLP	7440-48-4	E444	0.050	mg/L	1.11	0.787	----	----	----	
copper, TCLP	7440-50-8	E444	0.050	mg/L	1.17	0.666	----	----	----	
iron, TCLP	7439-89-6	E444	5.0	mg/L	<5.0	<5.0	----	----	----	
lead, TCLP	7439-92-1	E444	0.25	mg/L	<0.25	<0.25	----	----	----	
magnesium, TCLP	7439-95-4	E444	2.5	mg/L	150	127	----	----	----	
mercury, TCLP	7439-97-6	E512	0.0100	mg/L	<0.0100	<0.0100	----	----	----	
nickel, TCLP	7440-02-0	E444	0.25	mg/L	0.56	0.45	----	----	----	
selenium, TCLP	7782-49-2	E444	1.00	mg/L	<1.00	<1.00	----	----	----	
silver, TCLP	7440-22-4	E444	0.050	mg/L	<0.050	<0.050	----	----	----	
thallium, TCLP	7440-28-0	E444	1.0	mg/L	<1.0	<1.0	----	----	----	
vanadium, TCLP	7440-62-2	E444	0.15	mg/L	<0.15	<0.15	----	----	----	
zinc, TCLP	7440-66-6	E444	0.50	mg/L	44.1	32.1	----	----	----	



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