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Via First Class Mail
And Email: Chalfant.mark@epa.gov

Mark A.R. Chalfant, Esq.
United States Environmental Protection Agency
1595 Wynkoop Street
Denver, CO 80202-1129

Re: Columbia Falls Aluminum company plant / Columbia Falls, Montana
Our client: Calbag Resources LLC
EPA Site ID: MTD057561763
Our file no. 3262.063

Dear Mr. Chalfant:

This letter follows up on my November 28, 2017 letter to Michael Cirian of EPA on behalf of Calbag Resources and your response of January 8, both relating to Calbag's demolition of the aluminum plant in Columbia Falls, Montana.

Columbia Falls Aluminum Company (CFAC) engaged Calbag to demolish the above-ground portions of the Columbia Falls aluminum plant. CFAC and Calbag contemplated that Calbag would remove the above-grade concrete, crush it and remove the rebar, and use that material to compose about 10% of the material to fill the concrete basements of the potrooms. The portions of the concrete floors, walls, and pillars of the potrooms that are more than 18 inches below grade are not part of the contract and will remain in place.

Since I wrote to Mr. Cirian, Calbag has obtained additional test results of the surface-level concrete that Calbag is crushing and of the below-grade concrete (basements and foundation walls) that CFAC will leave in place. Based on those test results and the nature of the project, the purpose of this letter is to request EPA's approval for Calbag to place the crushed concrete from all potrooms in the basement of Potroom 5 at the CFAC site.

Portions of the concrete in the potrooms are characterized by elevated levels of fluoride. This holds for some of the concrete that Calbag has crushed, some of the concrete that Calbag intends to crush, and some of the concrete that CFAC intends to leave in place. This table

compares the fluoride levels of the structural concrete with the fluoride levels of the basement level floor concrete, which CFAC is planning to leave in place. "Structural concrete" is the concrete that Calbag is removing and crushing, which includes the concrete above grade and within 18 inches of grade, and some pillars within the basements. "Structural concrete" does not include the basement walls that are more than 18 inches below grade, nor does it include the basement floors. Each sample is a 5-point composite. I've taken the average fluoride levels as sampled for the basement floor (concrete that remains in place), basement walls (concrete that remains in place), and ground floor and structural concrete (the concrete that Calbag is crushing). For simplicity I've rounded the results to one decimal place. The complete tables are attached for your reference.

Potroom	Basement floor average (concrete to be left)	Basement wall average (concrete to be left)	Ground floor and structural (Calbag crushes)
1	200.4	100.0	324.8
2	404.6	127.0	1120
3	193.5	159.2	113.1
4	201.4	216.4	139.6
5	13.1	14.8	13.9
6	18.9	66.4	64.1
7	190.8	87.3	127.2
8	120.7	106.6	232.8
9	318.6	71.1	113.2
10	266.0	68.4	77.8
Average	192.8	101.7	232.7
Average excluding Potroom 2	169.3	98.9	134.1

The samples show the following:

- In Potrooms 1, 2, and 8, the concrete to be crushed has significantly higher fluoride levels than the concrete that will remain in place.
- In Potrooms 3, 4, 7, 9, and 10, the concrete that will remain in place has significantly higher fluoride levels than the concrete that Calbag is crushing.
- In Potrooms 5 and 6, the concrete to be crushed has similar fluoride levels to the basement walls that will remain in place.
- The fluoride levels in the Potroom 5 concrete are the lowest of the 10 potrooms.
- The fluoride level in Potroom 2 is an anomaly compared to all other areas sampled. That potroom had the highest levels of all the basement floors (concrete that remains) and ground floor (concrete to be crushed).

- Disregarding Potroom 2, fluoride levels are highest in the basement floors and lowest in the basement walls. The structural concrete fluoride levels are midway between the basement floor and basement wall levels.

Calbag understands EPA to believe that the fluoride levels of the basement floors and walls are low enough for that concrete to be left in place. If that is so, then the fluoride levels of the concrete crushed from all potrooms except potroom 2 are also low enough for the concrete to be placed on site, inside the basements. In view of the possibility that the concrete from the basements with higher levels of fluoride might some day need to be removed, Calbag proposes to place the crushed concrete entirely within the basement of Potroom 5, the potroom that is least likely to need to be disturbed in the future to remove the floors and basement walls. The total volume of the crushed structural concrete will roughly fill the basement of one potroom. Voids will be filled in with clean native material from elsewhere on the CFAC property.

As an alternative to this request, Calbag would like EPA to authorize Calbag to place the crushed concrete from Potrooms 3 through 10 into the basement of Potroom 5, reserving for now the question of disposal of the concrete from Potrooms 1 and 2. It might make sense for Calbag to place the crushed concrete from Potrooms 1 and 2 (the surface concrete with the highest fluoride levels) into the basement of Potroom 2 (the basement with the highest fluoride levels).

Unrelated to the potroom concrete that's the main subject of this letter, Calbag has produced concrete from outlying buildings in which aluminum was not produced and has provided test results to Montana DEQ. Ricknold Thompson of Montana DEQ has written Calbag (copy enclosed) stating that the concrete from those buildings may be used as clean fill onsite. Calbag will presently start to use and place that concrete in accordance with the state's regulations on clean fill.

Thank you for your consideration of Calbag's request. Please call me at your convenience with any questions.

Very truly yours,

Dean N. Alterman

Test results enclosed: Table 1 (basement floors)
Table 2 (basement walls)
Table 3 (structural at-grade concrete)
Table 4 (compilation of average test results)
E-mail exchange / Cliff Boyd and Ricknold Thompson of MDEQ

Copy with encl.: Mr. Jim Perris, Calbag Resources (jim.perris@calbag.com)
Mr. Cliff Boyd, Calbag Resources (cliff.boyd@calbag.com)
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Table 1: Columbia Falls Aluminum Company
Concrete Floor Results - 2017

Sample ID	Sample Location	Analyte	Calbag Result	Lab Qualifier	Units	Regulatory Limit[a]	TCLP Results (if required)	Roux Sample ID	Roux Original Result	Lab Qualifier	Units
PRF-01-001-C	Pot Room 1, basement level floor concrete, 5-point composite	Arsenic	6.5		mg/kg	100		CFPR01-BF-04	2.60		mg/kg
		Barium	48.4		mg/kg	2000			95.50		mg/kg
		Cadmium	0.48	J	mg/kg	20			0.84	U	mg/kg
		Chromium	10.1		mg/kg	100			11.50		mg/kg
		Lead	7.9		mg/kg	100			3.50		mg/kg
		Mercury	0.017	U	mg/kg	4			0.02	U	mg/kg
		Selenium	4.3	U	mg/kg	20			4.20		mg/kg
		Silver	2.9		mg/kg	100			0.84		mg/kg
		Cyanide, Total	0.4		mg/kg	NA			0.09	J	mg/kg
		Fluoride	62.7		mg/kg	NA			171.00	D	mg/kg
PRF-01-002-C	Pot Room 1, basement level floor concrete, 5-point composite	Arsenic	5		mg/kg	100		CFPR01-BF-03	5.40		mg/kg
		Barium	55		mg/kg	2000			125.00		mg/kg
		Cadmium	0.87	U	mg/kg	20			0.85	U	mg/kg
		Chromium	8.3		mg/kg	100			27.90		mg/kg
		Lead	3.3		mg/kg	100			7.80		mg/kg
		Mercury	0.013	J	mg/kg	4			0.02	U	mg/kg
		Selenium	4.3	U	mg/kg	20			4.30	U	mg/kg
		Silver	0.87	U	mg/kg	100			0.85	U	mg/kg
		Cyanide, Total	0.61		mg/kg	NA			0.10	U	mg/kg
		Fluoride	81.2		mg/kg	NA			432.00	D	mg/kg
PRF-01-003-C	Pot Room 1, basement level floor concrete, 5-point composite	Arsenic	3.7		mg/kg	100		CFPR01-BF-02	2.60		mg/kg
		Barium	97		mg/kg	2000			111.00		mg/kg
		Cadmium	0.85	U	mg/kg	20			0.85	U	mg/kg
		Chromium	12.8		mg/kg	100			13.70		mg/kg
		Lead	5.5		mg/kg	100			5.40		mg/kg
		Mercury	0.017	U	mg/kg	4			0.02	U	mg/kg
		Selenium	4.2	U	mg/kg	20			4.20	U	mg/kg
		Silver	0.85	U	mg/kg	100			0.85	U	mg/kg
		Cyanide, Total	0.52		mg/kg	NA			0.10	U	mg/kg
		Fluoride	625		mg/kg	NA			402.00	D	mg/kg
PRF-01-004-C	Pot Room 1, basement level floor concrete, 5-point composite	Arsenic	2		mg/kg	100		CFPR01-BF-01	3.10		mg/kg
		Barium	87		mg/kg	2000			70.10		mg/kg
		Cadmium	0.86	U	mg/kg	20			0.83	U	mg/kg
		Chromium	9.3		mg/kg	100			10.30		mg/kg
		Lead	6.1		mg/kg	100			5.00		mg/kg
		Mercury	0.018	U	mg/kg	4			0.02	U	mg/kg
		Selenium	4.3	U	mg/kg	20			4.10	U	mg/kg
		Silver	0.86	U	mg/kg	100			0.83	U	mg/kg
		Cyanide, Total	0.5		mg/kg	NA			1.10		mg/kg
		Fluoride	32.8		mg/kg	NA			239.00	D	mg/kg
PRF-02-001-C	Pot Room 2, basement level floor concrete, 5-point composite	Arsenic	3.6		mg/kg	100					
		Barium	129		mg/kg	2000					
		Cadmium	0.3	U	mg/kg	20					
		Chromium	33.9		mg/kg	100					
		Lead	5.8		mg/kg	100					
		Selenium	0.26	U	mg/kg	20					
		Silver	0.55	U	mg/kg	100					
		Cyanide, Total	0.048	J	mg/kg	NA					
		Fluoride, Total	372	D	mg/kg						
		Mercury	0.011	U	mg/kg	4					
PRF-02-001-CD	Pot Room 2, basement level floor concrete, 5-point composite	Arsenic	3.5		mg/kg	100					
		Barium	127		mg/kg	2000					
		Cadmium	0.29	U	mg/kg	20					
		Chromium	32.1		mg/kg	100					
		Lead	5.8		mg/kg	100					
		Selenium	0.26	U	mg/kg	20					
		Silver	4		mg/kg	100					
		Cyanide, Total	0.054	J	mg/kg	NA					
		Fluoride, Total	303	D	mg/kg						
		Mercury	0.011	U	mg/kg	4					
PRF-02-002-C	Pot Room 2, basement level floor concrete, 5-point composite	Arsenic	3.6		mg/kg	100					
		Barium	103		mg/kg	#					
		Cadmium	0.27	U	mg/kg	20					
		Chromium	38.8		mg/kg	100					
		Lead	4.3		mg/kg	100					
		Selenium	0.24	U	mg/kg	20					
		Silver	1.5		mg/kg	100					
		Cyanide, Total	0.051	J	mg/kg	NA					
		Fluoride, Total	770	D	mg/kg						
		Mercury	0.011	U	mg/kg	4					
		Arsenic	4.5		mg/kg	100					

Table 1: Columbia Falls Aluminum Company
Concrete Floor Results - 2017

Sample ID	Sample Location	Analyte	Calbag Result	Lab Qualifier	Units	Regulatory Limit[a]	TCLP Results (If required)	Roux Sample ID	Roux Original Result	Lab Qualifier	Units
PRF-02-003-C	Pot Room 2, basement level floor concrete, 5-point composite	Barium	137		mg/kg	#					
		Cadmium	0.55	J	mg/kg	20					
		Chromium	39.5		mg/kg	100					
		Lead	5.1		mg/kg	100					
		Selenium	0.26	U	mg/kg	20					
		Silver	0.59	J	mg/kg	100					
		Cyanide, Total	0.16		mg/kg	NA					
		Fluoride, Total	237	D	mg/kg						
		Mercury	0.011	U	mg/kg	4					
PRF-02-004-C	Pot Room 2, basement level floor concrete, 5-point composite	Arsenic	3.5		mg/kg	100					
		Barium	119		mg/kg	#					
		Cadmium	0.29	U	mg/kg	20					
		Chromium	29.2		mg/kg	100					
		Lead	9.1		mg/kg	100					
		Selenium	0.26	U	mg/kg	20					
		Silver	4.1		mg/kg	100					
		Cyanide, Total	0.25		mg/kg	NA					
		Fluoride, Total	341	D	mg/kg						
		Mercury	0.011	U	mg/kg	4					
PRF-03-001-C	Pot Room 3, basement level floor concrete, 5-point composite	Arsenic	2.8		mg/kg	100					
		Barium	97.5		mg/kg	2000					
		Cadmium	0.36	J	mg/kg	20					
		Chromium	35		mg/kg	100					
		Lead	7.3		mg/kg	100					
		Selenium	0.32	U	mg/kg	20					
		Silver	0.66	U	mg/kg	100					
		Cyanide, Total	0.1		mg/kg	NA					
		Fluoride, Total	231	D	mg/kg						
		Mercury	0.011	U	mg/kg	4					
PRF-03-002-C	Pot Room 3, basement level floor concrete, 5-point composite	Arsenic	3.2		mg/kg	100					
		Barium	139		mg/kg	2000					
		Cadmium	0.28	U	mg/kg	20					
		Chromium	32.5		mg/kg	100					
		Lead	7.8		mg/kg	100					
		Selenium	0.25	U	mg/kg	20					
		Silver	0.52	U	mg/kg	100					
		Cyanide, Total	0.099	J	mg/kg	NA					
		Fluoride, Total	224	D	mg/kg						
		Mercury	0.011	U	mg/kg	4					
PRF-03-003-C	Pot Room 3, basement level floor concrete, 5-point composite	Arsenic	3.4		mg/kg	100					
		Barium	102		mg/kg	2000					
		Cadmium	0.49	J	mg/kg	20					
		Chromium	25.6		mg/kg	100					
		Lead	4.9		mg/kg	100					
		Selenium	0.25	U	mg/kg	20					
		Silver	0.52	U	mg/kg	100					
		Cyanide, Total	0.084	J	mg/kg	NA					
		Fluoride, Total	158	D	mg/kg						
		Mercury	0.01	U	mg/kg	4					
PRF-03-004-C	Pot Room 3, basement level floor concrete, 5-point composite	Arsenic	3.5		mg/kg	100					
		Barium	104		mg/kg	2000					
		Cadmium	0.31	J	mg/kg	20					
		Chromium	29		mg/kg	100					
		Lead	4.8		mg/kg	100					
		Selenium	0.25	U	mg/kg	20					
		Silver	0.52	U	mg/kg	100					
		Cyanide, Total	0.038	J	mg/kg	NA					
		Fluoride, Total	161	D	mg/kg						
		Mercury	0.011	U	mg/kg	4					
PRF-04-001-C	Pot Room 4, basement level floor concrete, 5-point composite	Arsenic	2.9		mg/kg	100					
		Barium	119		mg/kg	2000					
		Cadmium	0.28	U	mg/kg	20					
		Chromium	35.7		mg/kg	100					
		Lead	5		mg/kg	100					
		Selenium	0.24	U	mg/kg	20					
		Silver	0.51	U	mg/kg	100					
		Cyanide, Total	0.13		mg/kg	NA					
		Fluoride, Total	54.3	D	mg/kg						
		Mercury	0.011	U	mg/kg	4					
		Arsenic	3.6		mg/kg	100					
		Barium	116		mg/kg	2000					

Table 1: Columbia Falls Aluminum Company
Concrete Floor Results - 2017

Sample ID	Sample Location	Analyte	Calbag Result	Lab Qualifier	Units	Regulatory Limit[a]	TCLP Results (If required)	Roux Sample ID	Roux Original Result	Lab Qualifier	Units
PRF-04-001-CD	Pot Room 4, basement level floor concrete, 5-point composite	Cadmium	0.29	U	mg/kg	20					
		Chromium	62.6		mg/kg	100					
		Lead	4.6		mg/kg	100					
		Selenium	0.25	U	mg/kg	20					
		Silver	0.53	U	mg/kg	100					
		Cyanide, Total	0.87		mg/kg	NA					
		Fluoride, Total	221	D	mg/kg						
		Mercury	0.01	U	mg/kg	4					
PRF-04-002-C	Pot Room 4, basement level floor concrete, 5-point composite	Arsenic	3.5		mg/kg	100					
		Barium	106		mg/kg	2000					
		Cadmium	0.51	J	mg/kg	20					
		Chromium	32		mg/kg	100					
		Lead	4.9		mg/kg	100					
		Selenium	0.24	U	mg/kg	20					
		Silver	0.49	U	mg/kg	100					
		Cyanide, Total	0.034	J	mg/kg	NA					
		Fluoride, Total	82.6	D	mg/kg						
		Mercury	0.011	U	mg/kg	4					
PRF-04-003-C	Pot Room 4, basement level floor concrete, 5-point composite	Arsenic	3.2		mg/kg	100					
		Barium	112		mg/kg	2000					
		Cadmium	0.38	J	mg/kg	20					
		Chromium	32.4		mg/kg	100					
		Lead	5		mg/kg	100					
		Selenium	0.25	U	mg/kg	20					
		Silver	0.51	U	mg/kg	100					
		Cyanide, Total	0.17		mg/kg	NA					
		Fluoride, Total	286	D	mg/kg						
		Mercury	0.011	U	mg/kg	4					
PRF-04-004-C	Pot Room 4, basement level floor concrete, 5-point composite	Arsenic	3.7		mg/kg	100					
		Barium	121		mg/kg	#					
		Cadmium	0.47	J	mg/kg	20					
		Chromium	38.6		mg/kg	100					
		Lead	5.8		mg/kg	100					
		Selenium	0.32	U	mg/kg	20					
		Silver	0.66	U	mg/kg	100					
		Cyanide, Total	1.5		mg/kg	NA					
		Fluoride, Total	363	D	mg/kg						
		Mercury	0.011	U	mg/kg	4					
PRF-05-001-C	Pot Room 5, basement level floor concrete, 5-point composite	Arsenic	11.7		mg/kg	100					
		Barium	110		mg/kg	2000					
		Cadmium	0.73	J	mg/kg	20					
		Chromium	14.9		mg/kg	100					
		Lead	5.5		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.25	U	mg/kg	20					
		Silver	0.53	U	mg/kg	100					
		Cyanide, Total	0.046	J F1	mg/kg	NA					
		Fluoride	20.4	F2 F1	mg/kg	NA					
PRF-05-002-C	Pot Room 5, basement level floor concrete, 5-point composite	Arsenic	10.3		mg/kg	100					
		Barium	79.2		mg/kg	2000					
		Cadmium	0.26	U	mg/kg	20					
		Chromium	14.2		mg/kg	100					
		Lead	4.5		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.23	U	mg/kg	20					
		Silver	0.47	U	mg/kg	100					
		Cyanide, Total	0.027	U *	mg/kg	NA					
		Fluoride	14.4		mg/kg	NA					
PRF-05-003-C	Pot Room 5, basement level floor concrete, 5-point composite	Arsenic	13.4		mg/kg	100					
		Barium	93.2		mg/kg	2000					
		Cadmium	0.37	J	mg/kg	20					
		Chromium	15.3		mg/kg	100					
		Lead	7.5		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.26	U	mg/kg	20					
		Silver	0.55	U	mg/kg	100					
		Cyanide, Total	0.2		mg/kg	NA					
		Fluoride	4.53		mg/kg	NA					
		Arsenic	9.7		mg/kg	100					
		Barium	71.3		mg/kg	2000					
		Cadmium	0.28	U	mg/kg	20					

Table 1: Columbia Falls Aluminum Company
Concrete Floor Results - 2017

Sample ID	Sample Location	Analyte	Calbag Result	Lab Qualifier	Units	Regulatory Limit[2]	TCLP Results (If required)	Roux Sample ID	Roux Original Result	Lab Qualifier	Units
PRF-05-004-C	Pot Room 5, basement level floor concrete, 5-point composite	Chromium	12.5		mg/kg	100					
		Lead	6.2		mg/kg	100					
		Mercury	0.01	U	mg/kg	4					
		Selenium	0.24	U	mg/kg	20					
		Silver	0.51	U	mg/kg	100					
		Cyanide, Total	0.11	F1	mg/kg	NA					
		Fluoride	13		mg/kg	NA					
PRF-06-001-C	Pot Room 6, basement level floor concrete, 5-point composite	Arsenic	13.9		mg/kg	100					
		Barium	104		mg/kg	2000					
		Cadmium	0.28	U	mg/kg	20					
		Chromium	15.9		mg/kg	100					
		Lead	7.7		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.25	U	mg/kg	20					
		Silver	0.52	U	mg/kg	100					
		Cyanide, Total	0.16		mg/kg	NA					
		Fluoride	20.8		mg/kg	NA					
PRF-06-002-C	Pot Room 6, basement level floor concrete, 5-point composite	Arsenic	11.4		mg/kg	100					
		Barium	93.4		mg/kg	2000					
		Cadmium	0.92		mg/kg	20					
		Chromium	21		mg/kg	100					
		Lead	32.3		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.24	U	mg/kg	20					
		Silver	0.51	U	mg/kg	100					
		Cyanide, Total	0.027	U *	mg/kg	NA					
		Fluoride	16		mg/kg	NA					
PRF-06-003-C	Pot Room 6, basement level floor concrete, 5-point composite	Arsenic	13.7		mg/kg	100					
		Barium	97.7		mg/kg	2000					
		Cadmium	0.55	J	mg/kg	20					
		Chromium	16.4		mg/kg	100					
		Lead	7.2		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.24	U	mg/kg	20					
		Silver	0.5	U	mg/kg	100					
		Cyanide, Total	0.027	U *	mg/kg	NA					
		Fluoride	14.6		mg/kg	NA					
PRF-06-004-C	Pot Room 6, basement level floor concrete, 5-point composite	Arsenic	10.6		mg/kg	100					
		Barium	74.4		mg/kg	2000					
		Cadmium	0.27	U	mg/kg	20					
		Chromium	12.4		mg/kg	100					
		Lead	5		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.24	U	mg/kg	20					
		Silver	0.51	U	mg/kg	100					
		Cyanide, Total	0.026	U *	mg/kg	NA					
		Fluoride	24.1		mg/kg	NA					
PRF-07-001	Pot Room 7, basement level floor concrete, 5-point composite	Arsenic	19.2		mg/kg	100					
		Barium	107		mg/kg	2000					
		Cadmium	0.68	J	mg/kg	20					
		Chromium	14.5		mg/kg	100					
		Lead	5.4		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.24	U	mg/kg	20					
		Silver	0.51	U	mg/kg	100					
		Cyanide, Total	0.058	U	mg/kg	NA					
		Fluoride	152	D	mg/kg	NA					
PRF-07-002	Pot Room 7, basement level floor concrete, 5-point composite	Arsenic	19.3		mg/kg	100					
		Barium	105		mg/kg	2000					
		Cadmium	0.79		mg/kg	20					
		Chromium	16.8		mg/kg	100					
		Lead	11.8		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.24	U	mg/kg	20					
		Silver	0.49	U	mg/kg	100					
		Cyanide, Total	0.71		mg/kg	NA					
		Fluoride	315	D	mg/kg	NA					
		Arsenic	24.3		mg/kg	100					
		Barium	140		mg/kg	2000					
		Cadmium	0.28	U	mg/kg	20					
		Chromium	15		mg/kg	100					

Table 1: Columbia Falls Aluminum Company
Concrete Floor Results - 2017

Sample ID	Sample Location	Analyte	Calbag Result	Lab Qualifier	Units	Regulatory Limit[a]	TCLP Results (If required)	Roux Sample ID	Roux Original Result	Lab Qualifier	Units
PRF-07-003	Pot Room 7, basement level floor concrete, 5-point composite	Lead	5.7		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.25	U	mg/kg	20					
		Silver	0.52	U	mg/kg	100					
		Cyanide, Total	0.062	U	mg/kg	NA					
		Fluoride	173	D	mg/kg	NA					
PRF-07-004	Pot Room 7, basement level floor concrete, 5-point composite	Arsenic	2.4		mg/kg	100					
		Barium	17.7		mg/kg	2000					
		Cadmium	0.29	U	mg/kg	20					
		Chromium	1.8		mg/kg	100					
		Lead	0.69		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.26	U	mg/kg	20					
		Silver	0.54	U	mg/kg	100					
		Cyanide, Total	0.18	J	mg/kg	NA					
		Fluoride	123	D	mg/kg	NA					
PRF-08-001	Pot Room 8, basement level floor concrete, 5-point composite	Arsenic	12.8		mg/kg	100					
		Barium	96.1		mg/kg	2000					
		Cadmium	0.99		mg/kg	20					
		Chromium	16.4		mg/kg	100					
		Lead	13.8		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.3	U	mg/kg	20					
		Silver	0.62	U	mg/kg	100					
		Cyanide, Total	0.064	U	mg/kg	NA					
		Fluoride	86.7	D	mg/kg	NA					
PRF-08-001D	Pot Room 8, basement level floor concrete, 5-point composite	Arsenic	12.9		mg/kg	100					
		Barium	109		mg/kg	2000					
		Cadmium	0.73	J	mg/kg	20					
		Chromium	46.8		mg/kg	100					
		Lead	12.2		mg/kg	100					
		Mercury	0.01	U	mg/kg	4					
		Selenium	0.3	U	mg/kg	20					
		Silver	0.64	U	mg/kg	100					
		Cyanide, Total	0.062	U	mg/kg	NA					
		Fluoride	98.8	D	mg/kg	NA					
PRF-08-002	Pot Room 8, basement level floor concrete, 5-point composite	Arsenic	16.5		mg/kg	100					
		Barium	105		mg/kg	2000					
		Cadmium	0.56	J	mg/kg	20					
		Chromium	13		mg/kg	100					
		Lead	4.3		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.31	U	mg/kg	20					
		Silver	0.65	U	mg/kg	100					
		Cyanide, Total	0.2	J	mg/kg	NA					
		Fluoride	147	D	mg/kg	NA					
PRF-08-003	Pot Room 8, basement level floor concrete, 5-point composite	Arsenic	17.6		mg/kg	100					
		Barium	123		mg/kg	2000					
		Cadmium	0.55	J	mg/kg	20					
		Chromium	72.1		mg/kg	100					
		Lead	5		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.29	U	mg/kg	20					
		Silver	0.61	U	mg/kg	100					
		Cyanide, Total	0.15	J	mg/kg	NA					
		Fluoride	140	D	mg/kg	NA					
PRF-08-004	Pot Room 8, basement level floor concrete, 5-point composite	Arsenic	25.9		mg/kg	100					
		Barium	170		mg/kg	2000					
		Cadmium	1.7		mg/kg	20					
		Chromium	75.9		mg/kg	100					
		Lead	6.5		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.34	J	mg/kg	20					
		Silver	0.62	U	mg/kg	100					
		Cyanide, Total	0.63		mg/kg	NA					
		Fluoride	131	D	mg/kg	NA					
PRF-08-001	Pot Room 9, ground level floor concrete, 5-point	Arsenic	16.4		mg/kg	100					
		Barium	132		mg/kg	2000					
		Cadmium	0.49	J	mg/kg	20					
		Chromium	91.2		mg/kg	100					
		Lead	6.3		mg/kg	100					

Table 1: Columbia Falls Aluminum Company
Concrete Floor Results - 2017

Sample ID	Sample Location	Analyte	Calbag Result	Lab Qualifier	Units	Regulatory Limit[a]	TCLP Results (If required)	Roux Sample ID	Roux Original Result	Lab Qualifier	Units
[illegible]	[illegible] composite	Mercury	0.011	U	mg/kg	4					
		Selenium	0.29	U	mg/kg	20					
		Silver	0.61	U	mg/kg	100					
		Cyanide, Total	0.64		mg/kg	NA					
		Fluoride	509	D	mg/kg	NA					
PRF-09-002	Pot Room 9, ground level floor concrete, 5-point composite	Arsenic	19		mg/kg	100					
		Barium	156		mg/kg	2000					
		Cadmium	0.6	J	mg/kg	20					
		Chromium	77		mg/kg	100					
		Lead	7.1		mg/kg	100					
		Mercury	0.01	U	mg/kg	4					
		Selenium	0.31	U	mg/kg	20					
		Silver	0.65	U	mg/kg	100					
		Cyanide, Total	0.31		mg/kg	NA					
		Fluoride	354	D	mg/kg	NA					
PRF-09-003	Pot Room 9, ground level floor concrete, 5-point composite	Arsenic	213.9		mg/kg	100					
		Barium	106		mg/kg	2000					
		Cadmium	0.47	J	mg/kg	20					
		Chromium	66.6		mg/kg	100					
		Lead	4.8		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.3	U	mg/kg	20					
		Silver	0.62	U	mg/kg	100					
		Cyanide, Total	0.085	J	mg/kg	NA					
		Fluoride	333	D	mg/kg	NA					
PRF-09-004	Pot Room 9, ground level floor concrete, 5-point composite	Arsenic	19.7		mg/kg	100					
		Barium	140		mg/kg	2000					
		Cadmium	0.49	J	mg/kg	20					
		Chromium	66.6		mg/kg	100					
		Lead	4.5		mg/kg	100					
		Mercury	0.01	U	mg/kg	4					
		Selenium	0.32	U	mg/kg	20					
		Silver	0.66	U	mg/kg	100					
		Cyanide, Total	0.21		mg/kg	NA					
		Fluoride	78.5	D	mg/kg	NA					
PRF-10-001	Pot Room 10, ground level floor concrete, 5-point composite	Arsenic	13.8		mg/kg	100					
		Barium	107		mg/kg	2000					
		Cadmium	0.35	J	mg/kg	20					
		Chromium	55.8		mg/kg	100					
		Lead	4.5		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.31	U	mg/kg	20					
		Silver	0.65	U	mg/kg	100					
		Cyanide, Total	0.42		mg/kg	NA					
		Fluoride	434	D	mg/kg	NA					
PRF-10-002	Pot Room 10, ground level floor concrete, 5-point composite	Arsenic	15		mg/kg	100					
		Barium	124		mg/kg	2000					
		Cadmium	0.35	J	mg/kg	20					
		Chromium	61		mg/kg	100					
		Lead	5.5		mg/kg	100					
		Mercury	0.01	U	mg/kg	4					
		Selenium	0.31	U	mg/kg	20					
		Silver	0.64	U	mg/kg	100					
		Cyanide, Total	0.39		mg/kg	NA					
		Fluoride	58.2	D	mg/kg	NA					
PRF-10-003	Pot Room 10, ground level floor concrete, 5-point composite	Arsenic	16.5		mg/kg	100					
		Barium	126		mg/kg	2000					
		Cadmium	1.1	J	mg/kg	20					
		Chromium	71.5		mg/kg	100					
		Lead	5.8		mg/kg	100					
		Mercury	0.01	U	mg/kg	4					
		Selenium	0.4	U	mg/kg	20					
		Silver	0.64	U	mg/kg	100					
		Cyanide, Total	0.15	J	mg/kg	NA					
		Fluoride	287	D	mg/kg	NA					
PRF-10-004	Pot Room 10, ground level floor concrete, 5-point composite	Arsenic	18		mg/kg	100					
		Barium	113		mg/kg	2000					
		Cadmium	0.71	J	mg/kg	20					
		Chromium	71.6		mg/kg	100					
		Lead	5.2		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					

Table 1: Columbia Falls Aluminum Company
Concrete Floor Results - 2017

Sample ID	Sample Location	Analyte	Calbag Result	Lab Qualifier	Units	Regulatory Limit[a]	TCLP Results (if required)	Roux Sample ID	Roux Original Result	Lab Qualifier	Units
		Selenium	0.32	U	mg/kg	20					
		Silver	0.67	U	mg/kg	100					
		Cyanide, Total	0.21	J	mg/kg	NA					
		Fluoride	285	D	mg/kg	NA					

Table 1: Columbia Falls Aluminum Company
Concrete Wall Results 2017

Sample ID	Sample Location	Analyte	Result	Lab Qualifier	Units	Regulatory Limit[a]	TCLP Results (If required)	Roux Sample ID	Roux Original Result	Lab Qualifier	Units
PRW-01-001-C	Pot Room 1, basement level wall concrete, 5-point composite	Arsenic	2.4		mg/kg	100		CFPR01-BW-04	2.4		
		Barium	92.6		mg/kg	2000			92.6		
		Cadmium	0.74	U	mg/kg	20			0.74	U	
		Chromium	12.3		mg/kg	100			12.3		
		Lead	3.9		mg/kg	100			3.9		
		Mercury	0.016	U	mg/kg	4			0.016	U	
		Selenium	3.7	U	mg/kg	20			3.7	U	
		Silver	0.74	U	mg/kg	100			0.74	U	
		Cyanide, Total	0.088	J	mg/kg	NA			0.088	J	
		Fluoride	54.1		mg/kg	NA			54.1	D	
PRW-01-002-C	Pot Room 1, basement level wall concrete, 5-point composite	Arsenic	2.8		mg/kg	100		CFPR01-BW-01	2.8		
		Barium	86.2		mg/kg	2000			86.2		
		Cadmium	0.81	U	mg/kg	20			0.81	U	
		Chromium	10.5		mg/kg	100			10.5		
		Lead	5.8		mg/kg	100			5.8		
		Mercury	0.016	J	mg/kg	4			0.016	J	
		Selenium	4.1	U	mg/kg	20			4.1	U	
		Silver	0.81	U	mg/kg	100			0.81	U	
		Cyanide, Total	32.1		mg/kg	NA			32.1		
		Fluoride	146		mg/kg	NA			146	D	
PRW-02-001-C	Pot Room 2, basement level wall concrete, 5-point composite	Arsenic	2.7		mg/kg	100					
		Barium	185		mg/kg	2000					
		Cadmium	0.36	U	mg/kg	20					
		Chromium	35.1		mg/kg	100					
		Lead	4.7		mg/kg	100					
		Selenium	0.31	U	mg/kg	20					
		Silver	0.66	U	mg/kg	100					
		Cyanide, Total	0.09	J	mg/kg	NA					
		Fluoride, Total	25.9	D	mg/kg						
		Mercury	0.016		mg/kg	4					
PRW-02-002-C	Pot Room 2, basement level wall concrete, 5-point composite	Arsenic	4.6		mg/kg	100					
		Barium	156		mg/kg	2000					
		Cadmium	0.35	U	mg/kg	20					
		Chromium	37.5		mg/kg	100					
		Lead	6		mg/kg	100					
		Selenium	0.31	U	mg/kg	20					
		Silver	0.65	U	mg/kg	100					
		Cyanide, Total	19.9		mg/kg	NA					
		Fluoride, Total	228	D	mg/kg						
		Mercury	0.011	U	mg/kg	4					
PRW-03-001-C	Pot Room 3, basement level wall concrete, 5-point composite	Arsenic	2.9		mg/kg	100					
		Barium	153		mg/kg	2000					
		Cadmium	0.3	U	mg/kg	20					
		Chromium	36.2		mg/kg	100					
		Lead	5.6		mg/kg	100					
		Selenium	0.26	U	mg/kg	20					
		Silver	0.55	U	mg/kg	100					
		Cyanide, Total	0.035	J	mg/kg	NA					
		Fluoride, Total	22.3		mg/kg						
		Mercury	0.01	U	mg/kg	4					
		Arsenic	4		mg/kg	100					

Table 1: Columbia Falls Aluminum Company
Concrete Wall Results 2017

Sample ID	Sample Location	Analyte	Result	Lab Qualifier	Units	Regulatory Limit[a]	TCLP Results (if required)	Roux Sample ID	Roux Original Result	Lab Qualifier	Units
PRW-03-002-C	Pot Room 3, basement level wall concrete, 5-point composite	Barium	193		mg/kg	2000					
		Cadmium	0.28	U	mg/kg	20					
		Chromium	25.8		mg/kg	100					
		Lead	5.3		mg/kg	100					
		Selenium	0.25	U	mg/kg	20					
		Silver	0.52	U	mg/kg	100					
		Cyanide, Total	18.1		mg/kg	NA					
		Fluoride, Total	296	D	mg/kg						
		Mercury	0.035		mg/kg	4					
PRW-04-001-C	Pot Room 4, basement level wall concrete, 5-point composite	Arsenic	2.8		mg/kg	100					
		Barium	138		mg/kg	2000					
		Cadmium	0.35	U	mg/kg	20					
		Chromium	32.6		mg/kg	100					
		Lead	5.5		mg/kg	100					
		Selenium	0.31	U	mg/kg	20					
		Silver	0.65	U	mg/kg	100					
		Cyanide, Total	0.056	J	mg/kg	NA					
		Fluoride, Total	81.8	D	mg/kg						
		Mercury	0.011	U	mg/kg	4					
PRW-04-002-C	Pot Room 4, basement level wall concrete, 5-point composite	Arsenic	3.8		mg/kg	100					
		Barium	117		mg/kg	2000					
		Cadmium	0.35	U	mg/kg	20					
		Chromium	34.8		mg/kg	100					
		Lead	5.6		mg/kg	100					
		Selenium	0.31	U	mg/kg	20					
		Silver	0.65	U	mg/kg	100					
		Cyanide, Total	47.7		mg/kg	NA					
		Fluoride, Total	351	D	mg/kg						
		Mercury	0.011	U	mg/kg	4					
PRW-05-001-C	Pot Room 5, basement level wall concrete, 5-point composite	Arsenic	11.8		mg/kg	100					
		Barium	84.9		mg/kg	2000					
		Cadmium	0.27	U	mg/kg	20					
		Chromium	15.5		mg/kg	100					
		Lead	5.9		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.23	U	mg/kg	20					
		Silver	0.49	U	mg/kg	100					
		Cyanide, Total	0.027	U *	mg/kg	NA					
		Fluoride	7.81		mg/kg	NA					
PRW-05-002-C	Pot Room 5, basement level wall concrete, 5-point composite	Arsenic	12.1		mg/kg	100					
		Barium	130		mg/kg	2000					
		Cadmium	0.26	U	mg/kg	20					
		Chromium	22.7		mg/kg	100					
		Lead	8.6		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.23	U	mg/kg	20					
		Silver	0.47	U	mg/kg	100					
		Cyanide, Total	0.027	U *	mg/kg	NA					
		Fluoride	21.8		mg/kg	NA					
		Arsenic	15.9		mg/kg	100					
		Barium	101		mg/kg	2000					

Table 1: Columbia Falls Aluminum Company
Concrete Wall Results 2017

Sample ID	Sample Location	Analyte	Result	Lab Qualifier	Units	Regulatory Limit*	TCLP Results (if required)	Roux Sample ID	Roux Original Result	Lab Qualifier	Units
PRW-06-001-C	Pot Room 6, basement level wall concrete, 5-point composite	Cadmium	0.29	U	mg/kg	20					
		Chromium	23.5		mg/kg	100					
		Lead	6.2		mg/kg	100					
		Mercury	0.01	U	mg/kg	4					
		Selenium	0.25	U	mg/kg	20					
		Silver	0.53	U	mg/kg	100					
		Cyanide, Total	0.026	U *	mg/kg	NA					
		Fluoride	31.7		mg/kg	NA					
PRW-06-002-C	Pot Room 6, basement level wall concrete, 5-point composite	Arsenic	16.6		mg/kg	100					
		Barium	115		mg/kg	2000					
		Cadmium	0.62	J	mg/kg	20					
		Chromium	21.7		mg/kg	100					
		Lead	12.1		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.23	U	mg/kg	20					
		Silver	0.48	U	mg/kg	100					
		Cyanide, Total	0.027	U *	mg/kg	NA					
		Fluoride	101	D	mg/kg	NA					
PRW-07-001	Pot Room 7, basement level wall concrete, 5-point composite	Arsenic	17.2		mg/kg	100					
		Barium	115		mg/kg	2000					
		Cadmium	0.35	U	mg/kg	20					
		Chromium	18		mg/kg	100					
		Lead	6.4		mg/kg	100					
		Mercury	0.01	U	mg/kg	4					
		Selenium	0.31	U	mg/kg	20					
		Silver	0.64	U	mg/kg	100					
		Cyanide, Total	0.061	J	mg/kg	NA					
		Fluoride	93.8	D	mg/kg	NA					
PRW-07-002	Pot Room 7, basement level wall concrete, 5-point composite	Arsenic	15.3		mg/kg	100					
		Barium	99.6		mg/kg	2000					
		Cadmium	0.35	U	mg/kg	20					
		Chromium	18.3		mg/kg	100					
		Lead	4.3		mg/kg	100					
		Mercury	0.02		mg/kg	4					
		Selenium	0.31	U	mg/kg	20					
		Silver	0.65	U	mg/kg	100					
		Cyanide, Total	0.059		mg/kg	NA					
		Fluoride	80.8	D	mg/kg	NA					
PRW-08-001	Pot Room 8, basement level wall concrete, 5-point composite	Arsenic	21		mg/kg	100					
		Barium	161		mg/kg	2000					
		Cadmium	0.33	U	mg/kg	20					
		Chromium	183		mg/kg	100	0.115				
		Lead	6.4		mg/kg	100					
		Mercury	0.01	U	mg/kg	4					
		Selenium	0.29	U	mg/kg	20					
		Silver	0.61	U	mg/kg	100					
		Cyanide, Total	0.057	U	mg/kg	NA					
		Fluoride	93.1	D	mg/kg	NA					
		Arsenic	14.4		mg/kg	100					
		Barium	127		mg/kg	2000					
		Cadmium	0.34	U	mg/kg	20					

Table 1: Columbia Falls Aluminum Company
Concrete Wall Results 2017

Sample ID	Sample Location	Analyte	Result	Lab Qualifier	Units	Regulatory Limit[a]	TCLP Results (If required)	Roux Sample ID	Roux Original Result	Lab Qualifier	Units
PRW-08-002	Pot Room 8, basement level wall concrete, 5-point composite	Chromium	80.4		mg/kg	100					
		Lead	5		mg/kg	100					
		Mercury	0.01	U	mg/kg	4					
		Selenium	0.3	U	mg/kg	20					
		Silver	0.62	U	mg/kg	100					
		Cyanide, Total	0.064	U	mg/kg	NA					
		Fluoride	120	D	mg/kg	NA					
PRW-09-001	Pot Room 9, basement level wall concrete, 5-point composite	Arsenic	15.1		mg/kg	100					
		Barium	121		mg/kg	2000					
		Cadmium	0.35	U	mg/kg	20					
		Chromium	105		mg/kg	100	0.16				
		Lead	5.4		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.31	U	mg/kg	20					
		Silver	0.64	U	mg/kg	100					
		Cyanide, Total	0.16	J	mg/kg	NA					
		Fluoride	50	D	mg/kg	NA					
PRW-09-002	Pot Room 9, basement level wall concrete, 5-point composite	Arsenic	11.3		mg/kg	100					
		Barium	112		mg/kg	2000					
		Cadmium	0.33	U	mg/kg	20					
		Chromium	111		mg/kg	100	0.0717				
		Lead	5.2		mg/kg	100					
		Mercury	0.01	U	mg/kg	4					
		Selenium	0.3	U	mg/kg	20					
		Silver	0.62	U	mg/kg	100					
		Cyanide, Total	0.27		mg/kg	NA					
		Fluoride	92.3	D	mg/kg	NA					
PRW-10-001	Pot Room 10, basement level wall concrete, 5-point composite	Arsenic	15.6		mg/kg	100					
		Barium	119		mg/kg	2000					
		Cadmium	0.34	U	mg/kg	20					
		Chromium	81.3		mg/kg	100					
		Lead	4.7		mg/kg	100					
		Mercury	0.013	J	mg/kg	4					
		Selenium	0.3	U	mg/kg	20					
		Silver	0.63	U	mg/kg	100					
		Cyanide, Total	0.094	J	mg/kg	NA					
		Fluoride	44.7	D	mg/kg	NA					
PRW-10-002	Pot Room 10, basement level wall concrete, 5-point composite	Arsenic	12.6		mg/kg	100					
		Barium	141		mg/kg	2000					
		Cadmium	0.34	U	mg/kg	20					
		Chromium	96.5		mg/kg	100					
		Lead	5.3		mg/kg	100					
		Mercury	0.01	U	mg/kg	4					
		Selenium	0.3	U	mg/kg	20					
		Silver	0.62	U	mg/kg	100					
		Cyanide, Total	0.21	J	mg/kg	NA					
		Fluoride	92	D	mg/kg	NA					

Table 1: Columbia Falls Aluminum Company
Structural Concrete Results 2017

Sample ID	Sample Location	Analyte	Result	Lab Qualifier	Units	Regulatory Limit[a]	TCLP Results (If required)	Roux Sample ID	Roux Original Result	Lab Qualifier	Units
PRS-01-001-C	Pot Room 1, structural concrete, 5-point composite	Arsenic	3		mg/kg	100		CFPR01-SS	3		
		Barium	70.7		mg/kg	2000			70.7		
		Cadmium	0.73	U	mg/kg	20			0.73	U	
		Chromium	9.1		mg/kg	100			9.1		
		Lead	3.6		mg/kg	100			3.6		
		Mercury	0.017	U	mg/kg	4			0.017	U	
		Selenium	3.6	U	mg/kg	20			3.6	U	
		Silver	0.73	U	mg/kg	100			0.73	U	
		Cyanide, Total	0.36		mg/kg	NA			0.36		
		Fluoride	380		mg/kg	NA			380	D	
PRF-01-005-C	Pot Room 1, ground level floor concrete, 5-point composite	Arsenic	3.1		mg/kg	100		FPR01-GF-0	2.00		mg/kg
		Barium	70.1		mg/kg	2000			87.00		mg/kg
		Cadmium	0.83	U	mg/kg	20			0.86	U	mg/kg
		Chromium	10.3		mg/kg	100			9.30		mg/kg
		Lead	5		mg/kg	100			6.10		mg/kg
		Mercury	0.016	U	mg/kg	4			0.02	U	mg/kg
		Selenium	4.1	U	mg/kg	20			4.30	U	mg/kg
		Silver	0.83	U	mg/kg	100			0.86	U	mg/kg
		Cyanide, Total	1.1		mg/kg	NA			0.50		mg/kg
		Fluoride	239		mg/kg	NA			32.80		mg/kg
PRF-01-006-C	Pot Room 1, ground level floor concrete, 5-point composite	Arsenic	2.6		mg/kg	100		FPR01-GF-0	3.70		mg/kg
		Barium	111		mg/kg	2000			97.00		mg/kg
		Cadmium	0.85	U	mg/kg	20			0.85	U	mg/kg
		Chromium	13.7		mg/kg	100			12.80		mg/kg
		Lead	5.4		mg/kg	100			5.50		mg/kg
		Mercury	0.016	U	mg/kg	4			0.02	U	mg/kg
		Selenium	4.2	U	mg/kg	20			4.20	U	mg/kg
		Silver	0.85	U	mg/kg	100			0.09	U	mg/kg
		Cyanide, Total	0.096	U	mg/kg	NA			0.52		mg/kg
		Fluoride	402		mg/kg	NA			625.00	DT	mg/kg
PRF-01-007-C	Pot Room 1, ground level floor concrete, 5-point composite	Arsenic	5.4		mg/kg	100		FPR01-GF-0	5.00		mg/kg
		Barium	125		mg/kg	2000			55.00		mg/kg
		Cadmium	0.85	U	mg/kg	20			0.87	U	mg/kg
		Chromium	27.9		mg/kg	100			8.30		mg/kg
		Lead	7.8		mg/kg	100			3.30		mg/kg
		Mercury	0.017	U	mg/kg	4			0.01	U	mg/kg
		Selenium	4.3	U	mg/kg	20			4.30	U	mg/kg
		Silver	0.85	U	mg/kg	100			0.87	U	mg/kg
		Cyanide, Total	0.098	U	mg/kg	NA			0.61		mg/kg
		Fluoride	432		mg/kg	NA			81.20	D	mg/kg
PRF-01-008-C	Pot Room 1, ground level floor concrete, 5-point composite	Arsenic	2.6		mg/kg	100		FPR01-GF-0	6.50		mg/kg
		Barium	95.5		mg/kg	2000			48.40		mg/kg
		Cadmium	0.84	U	mg/kg	20			0.48	J	mg/kg
		Chromium	11.5		mg/kg	100			10.10		mg/kg
		Lead	3.5		mg/kg	100			7.90		mg/kg
		Mercury	0.016	U	mg/kg	4			0.02	U	mg/kg
		Selenium	4.2	U	mg/kg	20			4.30	U	mg/kg
		Silver	0.84	U	mg/kg	100			2.90		mg/kg
		Cyanide, Total	0.091	J	mg/kg	NA			0.40		mg/kg
		Fluoride	171		mg/kg	NA			52.70	J-	mg/kg
PRF-02-005-C	Pot Room 2, ground level floor concrete, 5-point composite	Arsenic	3.6		mg/kg	100					
		Barium	189		mg/kg	2000					
		Cadmium	0.29	U	mg/kg	20					
		Chromium	48.9		mg/kg	100					
		Lead	5.8		mg/kg	100					
		Selenium	0.25	U	mg/kg	20					
		Silver	0.53	U	mg/kg	100					
		Cyanide, Total	0.35		mg/kg	NA					
		Fluoride, Total	3030	D	mg/kg						
		Mercury	0.01	U	mg/kg	4					
PRF-02-006-C	Pot Room 2, ground level floor concrete, 5-point composite	Arsenic	3.3		mg/kg	100					
		Barium	101		mg/kg	2000					
		Cadmium	0.26	U	mg/kg	20					
		Chromium	26		mg/kg	100					
		Lead	3.8		mg/kg	100					
		Selenium	0.23	U	mg/kg	20					
		Silver	0.49	U	mg/kg	100					

Table 1: Columbia Falls Aluminum Company
Structural Concrete Results 2017

Sample ID	Sample Location	Analyte	Result	Lab Qualifier	Units	Regulatory Limit[a]	TCLP Results (If required)	Roux Sample ID	Roux Original Result	Lab Qualifier	Units
		Cyanide, Total	0.093	J	mg/kg	NA					
		Fluoride, Total	131	D	mg/kg						
		Mercury	0.011	U	mg/kg	4					
PRF-02-007-C	Pot Room 2, ground level floor concrete, 5-point composite	Arsenic	3.6		mg/kg	100					
		Barium	152		mg/kg	2000					
		Cadmium	0.35	U	mg/kg	20					
		Chromium	44.7		mg/kg	100					
		Lead	5.2		mg/kg	100					
		Selenium	0.31	U	mg/kg	20					
		Silver	0.65	U	mg/kg	100					
		Cyanide, Total	0.12		mg/kg	NA					
		Fluoride, Total	794	D	mg/kg						
		Mercury	0.011	U	mg/kg	4					
PRF-02-008-C	Pot Room 2, ground level floor concrete, 5-point composite	Arsenic	6.7		mg/kg	100					
		Barium	142		mg/kg	2000					
		Cadmium	3.7		mg/kg	20					
		Chromium	51.2		mg/kg	100					
		Lead	20.3		mg/kg	100					
		Selenium	0.32	J	mg/kg	20					
		Silver	0.65	U	mg/kg	100					
		Cyanide, Total	0.041	J	mg/kg	NA					
		Fluoride, Total	525	D	mg/kg						
		Mercury	0.011	U	mg/kg	4					
PRS-03-001-C	Pot Room 3, structural concrete, 5-point composite	Arsenic	3.7		mg/kg	100					
		Barium	164		mg/kg	2000					
		Cadmium	0.27	U	mg/kg	20					
		Chromium	32.8		mg/kg	100					
		Lead	5		mg/kg	100					
		Selenium	0.24	U	mg/kg	20					
		Silver	0.5	U	mg/kg	100					
		Cyanide, Total	0.046	J	mg/kg	NA					
		Fluoride, Total	120	D	mg/kg						
		Mercury	0.011	U	mg/kg	4					
PRF-03-005-C	Pot Room 3, ground level floor concrete, 5-point composite	Arsenic	2.7		mg/kg	100					
		Barium	141		mg/kg	2000					
		Cadmium	0.28	U	mg/kg	20					
		Chromium	39.1		mg/kg	100					
		Lead	5.4		mg/kg	100					
		Selenium	0.25	U	mg/kg	20					
		Silver	0.52	U	mg/kg	100					
		Cyanide, Total	0.042	J	mg/kg	NA					
		Fluoride, Total	110	D	mg/kg						
		Mercury	0.011	U	mg/kg	4					
PRF-03-006-C	Pot Room 3, ground level floor concrete, 5-point composite	Arsenic	3.5		mg/kg	100					
		Barium	115		mg/kg	2000					
		Cadmium	0.39	J	mg/kg	20					
		Chromium	37.5		mg/kg	100					
		Lead	9.1		mg/kg	100					
		Selenium	0.25	U	mg/kg	20					
		Silver	0.53	U	mg/kg	100					
		Cyanide, Total	0.12		mg/kg	NA					
		Fluoride, Total	76.3	D	mg/kg						
		Mercury	0.01	U	mg/kg	4					
PRF-03-007-C	Pot Room 3, ground level floor concrete, 5-point composite	Arsenic	3.2		mg/kg	100					
		Barium	128		mg/kg	2000					
		Cadmium	0.44	J	mg/kg	20					
		Chromium	29.9		mg/kg	100					
		Lead	7.3		mg/kg	100					
		Selenium	0.26	U	mg/kg	20					
		Silver	0.55	U	mg/kg	100					
		Cyanide, Total	0.17		mg/kg	NA					
		Fluoride, Total	149	D	mg/kg						
		Mercury	0.011	U	mg/kg	4					
		Arsenic	4.1		mg/kg	100					
		Barium	144		mg/kg	2000					
		Cadmium	0.57	J	mg/kg	20					
		Chromium	31.4		mg/kg	100					

Table 1: Columbia Falls Aluminum Company
Structural Concrete Results 2017

Sample ID	Sample Location	Analyte	Result	Lab Qualifier	Units	Regulatory Limit[a]	TCLP Results (If required)	Roux Sample ID	Roux Original Result	Lab Qualifier	Units
PRF-03-008-C	Pot Room 3, ground level floor concrete, 5-point composite	Lead	11.1		mg/kg	100					
		Selenium	0.24	U	mg/kg	20					
		Silver	0.51	U	mg/kg	100					
		Cyanide, Total	0.16		mg/kg	NA					
		Fluoride, Total	110	D	mg/kg						
		Mercury	0.011	U	mg/kg	4					
PRF-04-005-C	Pot Room 4, ground level floor concrete, 5-point composite	Arsenic	3.4		mg/kg	100					
		Barium	140		mg/kg	2000					
		Cadmium	0.56	J	mg/kg	20					
		Chromium	35.8		mg/kg	100					
		Lead	7		mg/kg	100					
		Selenium	0.31	U	mg/kg	20					
		Silver	0.65	U	mg/kg	100					
		Cyanide, Total	0.027	U	mg/kg	NA					
		Fluoride, Total	304	D	mg/kg						
		Mercury	0.016		mg/kg	4					
PRF-04-006-C	Pot Room 4, ground level floor concrete, 5-point composite	Arsenic	5.4		mg/kg	100					
		Barium	133		mg/kg	2000					
		Cadmium	0.63	J	mg/kg	20					
		Chromium	32.5		mg/kg	100					
		Lead	6		mg/kg	100					
		Selenium	0.31	U	mg/kg	20					
		Silver	0.66	U	mg/kg	100					
		Cyanide, Total	0.027	U	mg/kg	NA					
		Fluoride, Total	93.6	D	mg/kg						
		Mercury	0.011	U	mg/kg	4					
PRF-04-007-C	Pot Room 4, ground level floor concrete, 5-point composite	Arsenic	4.3		mg/kg	100					
		Barium	131		mg/kg	2000					
		Cadmium	0.49	J	mg/kg	20					
		Chromium	39		mg/kg	100					
		Lead	7.2		mg/kg	100					
		Selenium	0.25	U	mg/kg	20					
		Silver	0.52	U	mg/kg	100					
		Cyanide, Total	0.036	J	mg/kg	NA					
		Fluoride, Total	72.9	D	mg/kg						
		Mercury	0.01	U	mg/kg	4					
PRF-04-008-C	Pot Room 4, ground level floor concrete, 5-point composite	Arsenic	4.6		mg/kg	100					
		Barium	105		mg/kg	2000					
		Cadmium	0.36	U	mg/kg	20					
		Chromium	28.3		mg/kg	100					
		Lead	6.5		mg/kg	100					
		Selenium	0.32	U	mg/kg	20					
		Silver	0.66	U	mg/kg	100					
		Cyanide, Total	0.037	J	mg/kg	NA					
		Fluoride, Total	88	D	mg/kg						
		Mercury	0.011	U	mg/kg	4					
PRF-05-005-C	Pot Room 5, ground level floor concrete, 5-point composite	Arsenic	13.3		mg/kg	100					
		Barium	97		mg/kg	2000					
		Cadmium	1.6		mg/kg	20					
		Chromium	21		mg/kg	100					
		Lead	9.8		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.22	U	mg/kg	20					
		Silver	0.47	U	mg/kg	100					
		Cyanide, Total	0.026	U *	mg/kg	NA					
		Fluoride	9.42		mg/kg	NA					
PRF-05-006-C	Pot Room 5, ground level floor concrete, 5-point composite	Arsenic	7.9		mg/kg	100					
		Barium	58.3		mg/kg	2000					
		Cadmium	0.27	U	mg/kg	20					
		Chromium	10.2		mg/kg	100					
		Lead	3.5		mg/kg	100					
		Mercury	0.01	U	mg/kg	4					
		Selenium	0.23	U	mg/kg	20					
		Silver	0.49	U	mg/kg	100					
		Cyanide, Total	0.026	U *	mg/kg	NA					
		Fluoride	4.93		mg/kg	NA					
		Arsenic	15.8		mg/kg	100					

Table 1: Columbia Falls Aluminum Company
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Sample ID	Sample Location	Analyte	Result	Lab Qualifier	Units	Regulatory Limit[a]	TCLP Results (if required)	Roux Sample ID	Roux Original Result	Lab Qualifier	Units
PRF-05-007-C	Pot Room 5, ground level floor concrete, 5-point composite	Barium	108		mg/kg	2000					
		Cadmium	0.79	J	mg/kg	20					
		Chromium	17.5		mg/kg	100					
		Lead	6.7		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.25	U	mg/kg	20					
		Silver	0.52	U	mg/kg	100					
		Cyanide, Total	0.027	U *	mg/kg	NA					
		Fluoride	24.5		mg/kg	NA					
PRF-05-008-C	Pot Room 5, ground level floor concrete, 5-point composite	Arsenic	13.4		mg/kg	100					
		Barium	104		mg/kg	2000					
		Cadmium	1.5		mg/kg	20					
		Chromium	20.5		mg/kg	100					
		Lead	8.5		mg/kg	100					
		Mercury	0.011	J	mg/kg	4					
		Selenium	0.29	J	mg/kg	20					
		Silver	0.47	U	mg/kg	100					
		Cyanide, Total	0.068	J	mg/kg	NA					
		Fluoride	16.8		mg/kg	NA					
PRS-06-001-C	Pot Room 6, structural concrete, 5-point composite	Arsenic	16		mg/kg	100					
		Barium	112		mg/kg	2000					
		Cadmium	0.25	U	mg/kg	20					
		Chromium	21.5		mg/kg	100					
		Lead	6.6		mg/kg	100					
		Mercury	0.0099	U	mg/kg	4					
		Selenium	0.22	U	mg/kg	20					
		Silver	0.46	U	mg/kg	100					
		Cyanide, Total	0.24		mg/kg	NA					
		Fluoride	3.59		mg/kg	NA					
PRF-06-005-C	Pot Room 6, ground level floor concrete, 5-point composite	Arsenic	13.8		mg/kg	100					
		Barium	104		mg/kg	2000					
		Cadmium	1.6		mg/kg	20					
		Chromium	20.5		mg/kg	100					
		Lead	8.9		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.27	J	mg/kg	20					
		Silver	0.53	U	mg/kg	100					
		Cyanide, Total	0.026	U *	mg/kg	NA					
		Fluoride	28.8		mg/kg	NA					
PRF-06-005-CD	Pot Room 6, ground level floor concrete, 5-point composite	Arsenic	13		mg/kg	100					
		Barium	94.6		mg/kg	2000					
		Cadmium	2.4		mg/kg	20					
		Chromium	17.5		mg/kg	100					
		Lead	12		mg/kg	100					
		Mercury	0.01	U	mg/kg	4					
		Selenium	0.45	J	mg/kg	20					
		Silver	0.47	U	mg/kg	100					
		Cyanide, Total	0.091	J	mg/kg	NA					
		Fluoride	128	D	mg/kg	NA					
PRF-06-006	Pot Room 6, ground level floor concrete, 5-point composite	Arsenic	13.6		mg/kg	100					
		Barium	137		mg/kg	2000					
		Cadmium	0.66	J	mg/kg	20					
		Chromium	22.1		mg/kg	100					
		Lead	13.8		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.24	U	mg/kg	20					
		Silver	0.5	U	mg/kg	100					
		Cyanide, Total	0.11		mg/kg	NA					
		Fluoride	9.7		mg/kg	NA					
PRF-06-007-C	Pot Room 6, ground level floor concrete, 5-point composite	Arsenic	11.9		mg/kg	100					
		Barium	97.8		mg/kg	2000					
		Cadmium	0.6	J	mg/kg	20					
		Chromium	17.6		mg/kg	100					
		Lead	6.4		mg/kg	100					
		Mercury	0.01	U	mg/kg	4					
		Selenium	0.24	U	mg/kg	20					
		Silver	0.5	U	mg/kg	100					

Table 1: Columbia Falls Aluminum Company
Structural Concrete Results 2017

Sample ID	Sample Location	Analyte	Result	Lab Qualifier	Units	Regulatory Limit[a]	TCLP Results (If required)	Roux Sample ID	Roux Original Result	Lab Qualifier	Units
		Cyanide, Total	0.027	U *	mg/kg	NA					
		Fluoride	197	D	mg/kg	NA					
PRF-06-008-C	Pot Room 6, ground level floor concrete, 5-point composite	Arsenic	13.4		mg/kg	100					
		Barium	115		mg/kg	2000					
		Cadmium	0.58	J	mg/kg	20					
		Chromium	20.1		mg/kg	100					
		Lead	6.9		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.23	U	mg/kg	20					
		Silver	0.47	U	mg/kg	100					
		Cyanide, Total	0.027	U *	mg/kg	NA					
		Fluoride	17.7		mg/kg	NA					
PRF-07-005	Pot Room 7, ground level floor concrete, 5-point composite	Arsenic	19.9		mg/kg	100					
		Barium	111		mg/kg	2000					
		Cadmium	0.35	U	mg/kg	20					
		Chromium	15.2		mg/kg	100					
		Lead	4.6		mg/kg	100					
		Mercury	0.01	U	mg/kg	4					
		Selenium	0.3	U	mg/kg	20					
		Silver	0.64	U	mg/kg	100					
		Cyanide, Total	0.057	U	mg/kg	NA					
		Fluoride	192	D	mg/kg	NA					
PRF-07-006	Pot Room 7, ground level floor concrete, 5-point composite	Arsenic	16.6		mg/kg	100					
		Barium	100		mg/kg	2000					
		Cadmium	0.35	U	mg/kg	20					
		Chromium	12.2		mg/kg	100					
		Lead	4.5		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.31	U	mg/kg	20					
		Silver	0.65	U	mg/kg	100					
		Cyanide, Total	0.064	U	mg/kg	NA					
		Fluoride	141	D	mg/kg	NA					
PRF-07-007	Pot Room 7, ground level floor concrete, 5-point composite	Arsenic	18.1		mg/kg	100					
		Barium	126		mg/kg	2000					
		Cadmium	0.76	J	mg/kg	20					
		Chromium	12.6		mg/kg	100					
		Lead	8		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.3	U	mg/kg	20					
		Silver	0.62	U	mg/kg	100					
		Cyanide, Total	0.057	U	mg/kg	NA					
		Fluoride	133	D	mg/kg	NA					
PRF-07-008	Pot Room 7, ground level floor concrete, 5-point composite	Arsenic	18		mg/kg	100					
		Barium	122		mg/kg	2000					
		Cadmium	0.51	J	mg/kg	20					
		Chromium	17		mg/kg	100					
		Lead	6.1		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.31	U	mg/kg	20					
		Silver	0.66	U	mg/kg	100					
		Cyanide, Total	0.059	J	mg/kg	NA					
		Fluoride	103	D	mg/kg	NA					
PRS-08-001	Pot Room 8, structural concrete, 5-point composite	Arsenic	16.1		mg/kg	100					
		Barium	138		mg/kg	2000					
		Cadmium	0.35	U	mg/kg	20					
		Chromium	61.9		mg/kg	100					
		Lead	5.3		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.3	U	mg/kg	20					
		Silver	0.64	U	mg/kg	100					
		Cyanide, Total	0.064	U	mg/kg	NA					
		Fluoride	195	D	mg/kg	NA					
PRF-08-005	Pot Room 8, ground level floor	Arsenic	16.7		mg/kg	100					
		Barium	118		mg/kg	2000					
		Cadmium	0.57	J	mg/kg	20					
		Chromium	84.7		mg/kg	100					
		Lead	5.1		mg/kg	100					

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Sample ID	Sample Location	Analyte	Result	Lab Qualifier	Units	Regulatory Limit[a]	TCLP Results (If required)	Roux Sample ID	Roux Original Result	Lab Qualifier	Units
	concrete, 5-point composite	Mercury	0.01	U	mg/kg	4					
		Selenium	0.31	U	mg/kg	20					
		Silver	0.65	U	mg/kg	100					
		Cyanide, Total	0.064		mg/kg	NA					
		Fluoride	180	D	mg/kg	NA					
PRF-08-006	Pot Room 8, ground level floor concrete, 5-point composite	Arsenic	16.8		mg/kg	100					
		Barium	128		mg/kg	2000					
		Cadmium	0.71	J	mg/kg	20					
		Chromium	82.7		mg/kg	100					
		Lead	7.1		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.3	U	mg/kg	20					
		Silver	0.63	U	mg/kg	100					
		Cyanide, Total	0.064	U	mg/kg	NA					
		Fluoride	310	D	mg/kg	NA					
PRF-08-007	Pot Room 8, ground level floor concrete, 5-point composite	Arsenic	18.4		mg/kg	100					
		Barium	127		mg/kg	2000					
		Cadmium	0.56	J	mg/kg	20					
		Chromium	65		mg/kg	100					
		Lead	5.7		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.29	U	mg/kg	20					
		Silver	0.61	U	mg/kg	100					
		Cyanide, Total	0.064	U	mg/kg	NA					
		Fluoride	298	D	mg/kg	NA					
PRF-08-008	Pot Room 8, ground level floor concrete, 5-point composite	Arsenic	19		mg/kg	100					
		Barium	135		mg/kg	2000					
		Cadmium	0.58	J	mg/kg	20					
		Chromium	69.5		mg/kg	100					
		Lead	6.7		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.3	U	mg/kg	20					
		Silver	0.62	U	mg/kg	100					
		Cyanide, Total	0.064	U	mg/kg	NA					
		Fluoride	181	D	mg/kg	NA					
PRF-09-005	Pot Room 9, ground level floor concrete, 5-point composite	Arsenic	13.8		mg/kg	100					
		Barium	112		mg/kg	2000					
		Cadmium	0.35	J	mg/kg	20					
		Chromium	84.5		mg/kg	100					
		Lead	4.2		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.31	U	mg/kg	20					
		Silver	0.64	U	mg/kg	100					
		Cyanide, Total	0.064	U	mg/kg	NA					
		Fluoride	123	D	mg/kg	NA					
PRF-09-006	Pot Room 9, ground level floor concrete, 5-point composite	Arsenic	14.3		mg/kg	100					
		Barium	108		mg/kg	2000					
		Cadmium	0.33	J	mg/kg	20					
		Chromium	85		mg/kg	100					
		Lead	5		mg/kg	100					
		Mercury	0.01	U	mg/kg	4					
		Selenium	0.29	U	mg/kg	20					
		Silver	0.61	U	mg/kg	100					
		Cyanide, Total	0.082	1 F2	mg/kg	NA					
		Fluoride	126	D	mg/kg	NA					
PRF-09-007	Pot Room 9, ground level floor concrete, 5-point composite	Arsenic	14.2		mg/kg	100					
		Barium	124		mg/kg	2000					
		Cadmium	0.33	J	mg/kg	20					
		Chromium	135		mg/kg	100	0.0671				
		Lead	10.2		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.29	U	mg/kg	20					
		Silver	0.61	U	mg/kg	100					
		Cyanide, Total	0.12	J	mg/kg	NA					
		Fluoride	77.9	D	mg/kg	NA					
		Arsenic	14.3		mg/kg	100					
		Barium	118		mg/kg	2000					

Table 1: Columbia Falls Aluminum Company
Structural Concrete Results 2017

Sample ID	Sample Location	Analyte	Result	Lab Qualifier	Units	Regulatory Limit[a]	TCLP Results (If required)	Roux Sample ID	Roux Original Result	Lab Qualifier	Units
PRF-09-008	Pot Room 9, ground level floor concrete, 5-point composite	Cadmium	0.34	J	mg/kg	20					
		Chromium	93.6		mg/kg	100					
		Lead	5.5		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.3	U	mg/kg	20					
		Silver	0.63	U	mg/kg	100					
		Cyanide, Total	0.16	J	mg/kg	NA					
		Fluoride	126	D	mg/kg	NA					
PRS-10-001	Pot Room 10, structural concrete, 5-point composite	Arsenic	14.4		mg/kg	100					
		Barium	103		mg/kg	2000					
		Cadmium	0.33	U	mg/kg	20					
		Chromium	102		mg/kg	100	0.0975				
		Lead	4.9		mg/kg	100					
		Mercury	0.0099	U	mg/kg	4					
		Selenium	0.29	U	mg/kg	20					
		Silver	0.62	U	mg/kg	100					
		Cyanide, Total	0.13	J	mg/kg	NA					
		Fluoride	89.9	D	mg/kg	NA					
PRF-10-005	Pot Room 10, ground level floor concrete, 5-point composite	Arsenic	14.9		mg/kg	100					
		Barium	114		mg/kg	2000					
		Cadmium	0.36	J	mg/kg	20					
		Chromium	73.6		mg/kg	100					
		Lead	3.9		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.32	U	mg/kg	20					
		Silver	0.66	U	mg/kg	100					
		Cyanide, Total	0.6	J	mg/kg	NA					
		Fluoride	128	D	mg/kg	NA					
PRF-10-005D	Pot Room 10, ground level floor concrete, 5-point composite	Arsenic	15.2		mg/kg	100					
		Barium	111		mg/kg	2000					
		Cadmium	0.34	J	mg/kg	20					
		Chromium	110		mg/kg	100	0.0526				
		Lead	4.4		mg/kg	100					
		Mercury	0.01	U	mg/kg	4					
		Selenium	0.3	U	mg/kg	20					
		Silver	0.63	U	mg/kg	100					
		Cyanide, Total	0.059	U	mg/kg	NA					
		Fluoride	104	D	mg/kg	NA					
PRF-10-006	Pot Room 10, ground level floor concrete, 5-point composite	Arsenic	12.9		mg/kg	100					
		Barium	109		mg/kg	2000					
		Cadmium	0.35	J	mg/kg	20					
		Chromium	94.3		mg/kg	100					
		Lead	4.5		mg/kg	100					
		Mercury	0.01	U	mg/kg	4					
		Selenium	0.31	U	mg/kg	20					
		Silver	0.64	U	mg/kg	100					
		Cyanide, Total	0.059	U	mg/kg	NA					
		Fluoride	85.4	D	mg/kg	NA					
PRF-10-007	Pot Room 10, ground level floor concrete, 5-point composite	Arsenic	15.3		mg/kg	100					
		Barium	112		mg/kg	2000					
		Cadmium	0.33	J	mg/kg	20					
		Chromium	94.7		mg/kg	100					
		Lead	5.8		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.29	U	mg/kg	20					
		Silver	0.62	U	mg/kg	100					
		Cyanide, Total	0.62	J	mg/kg	NA					
		Fluoride	0.61	D	mg/kg	NA					
PRF-10-008	Pot Room 10, ground level floor concrete, 5-point composite	Arsenic	12.7		mg/kg	100					
		Barium	108		mg/kg	2000					
		Cadmium	0.36	J	mg/kg	20					
		Chromium	917		mg/kg	100					
		Lead	5.4		mg/kg	100					
		Mercury	0.011	U	mg/kg	4					
		Selenium	0.32	U	mg/kg	20					
		Silver	0.66	U	mg/kg	100					
		Cyanide, Total	0.094	J	mg/kg	NA					

Table 1: Columbia Falls Aluminum Company
Structural Concrete Results 2017

Sample ID	Sample Location	Analyte	Result	Lab Qualifier	Units	Regulatory Limit[a]	TCLP Results (If required)	Roux Sample ID	Roux Original Result	Lab Qualifier	Units
		Fluoride	58.9	D	mg/kg	NA					

Pot Room 1	Basement Floor Average Results	Arsenic	4.3	mg/kg	Basement Wall Average Results	2.6	mg/kg	Ground Floor and Structural Average Results	3.34	mg/kg
		Barium	71.85	mg/kg		89.4	mg/kg		94.46	mg/kg
		Cadmium	0.765	mg/kg		0.775	mg/kg		0.82	mg/kg
		Chromium	10.125	mg/kg		11.4	mg/kg		14.5	mg/kg
		Lead	5.7	mg/kg		4.85	mg/kg		5.06	mg/kg
		Mercury	0.01625	mg/kg		0.016	mg/kg		0.0164	mg/kg
		Selenium	4.275	mg/kg		3.9	mg/kg		4.08	mg/kg
		Silver	1.37	mg/kg		0.775	mg/kg		0.82	mg/kg
		Cyanide, Total	0.5075	mg/kg		16.094	mg/kg		0.349	mg/kg
		Fluoride	200.425	mg/kg		100.05	mg/kg		324.8	mg/kg
Pot Room 2	Basement Floor Average Results	Arsenic	3.74	mg/kg	Basement Wall Average Results	3.65	mg/kg	Ground Floor and Structural Average Results	4.3	mg/kg
		Barium	123	mg/kg		170.5	mg/kg		146	mg/kg
		Cadmium	0.34	mg/kg		0.355	mg/kg		1.15	mg/kg
		Chromium	34.7	mg/kg		36.3	mg/kg		42.7	mg/kg
		Lead	6.02	mg/kg		5.95	mg/kg		8.775	mg/kg
		Selenium	0.256	mg/kg		0.31	mg/kg		0.2775	mg/kg
		Silver	2.148	mg/kg		0.655	mg/kg		0.58	mg/kg
		Cyanide, Total	0.1126	mg/kg		9.995	mg/kg		0.151	mg/kg
		Fluoride	404.6	mg/kg		126.95	mg/kg		1120	mg/kg
		Mercury	0.011	mg/kg		0.0135	mg/kg		0.01075	mg/kg
Pot Room 3	Basement Floor Average Results	Arsenic	3.225	mg/kg	Basement Wall Average Results	3.45	mg/kg	Ground Floor and Structural Average Results	3.44	mg/kg
		Barium	110.625	mg/kg		173	mg/kg		138.4	mg/kg
		Cadmium	0.36	mg/kg		0.29	mg/kg		0.99	mg/kg
		Chromium	30.525	mg/kg		31	mg/kg		34.14	mg/kg
		Lead	6.2	mg/kg		5.45	mg/kg		7.59	mg/kg
		Selenium	0.2675	mg/kg		0.255	mg/kg		0.248	mg/kg
		Silver	0.555	mg/kg		0.535	mg/kg		0.522	mg/kg
		Cyanide, Total	0.06525	mg/kg		9.0675	mg/kg		0.1076	mg/kg
		Fluoride	193.5	mg/kg		159.15	mg/kg		113.06	mg/kg
		Mercury	0.01075	mg/kg		0.0225	mg/kg		0.0108	mg/kg
Pot Room 4	Basement Floor Average Results	Arsenic	3.38	mg/kg	Basement Wall Average Results	3.3	mg/kg	Ground Floor and Structural Average Results	4.425	mg/kg
		Barium	114.8	mg/kg		127.5	mg/kg		127.5	mg/kg
		Cadmium	0.386	mg/kg		0.35	mg/kg		0.51	mg/kg
		Chromium	40.26	mg/kg		39.7	mg/kg		33.9	mg/kg
		Lead	5.06	mg/kg		5.55	mg/kg		6.675	mg/kg
		Selenium	0.26	mg/kg		0.31	mg/kg		0.2975	mg/kg
		Silver	0.54	mg/kg		0.65	mg/kg		0.6225	mg/kg
		Cyanide, Total	0.5408	mg/kg		23.878	mg/kg		0.03175	mg/kg
		Fluoride	201.38	mg/kg		216.4	mg/kg		139.625	mg/kg
		Mercury	0.0108	mg/kg		0.011	mg/kg		0.012	mg/kg
Pot Room 5	Basement Floor Average Results	Arsenic	11.275	mg/kg	Basement Wall Average Results	11.95	mg/kg	Ground Floor and Structural Average Results	12.6	mg/kg
		Barium	88.425	mg/kg		107.45	mg/kg		91.825	mg/kg
		Cadmium	0.41	mg/kg		0.265	mg/kg		1.04	mg/kg
		Chromium	14.225	mg/kg		19.1	mg/kg		17.3	mg/kg
		Lead	5.925	mg/kg		7.25	mg/kg		7.125	mg/kg
		Mercury	0.01075	mg/kg		0.011	mg/kg		0.01075	mg/kg
		Selenium	0.245	mg/kg		0.23	mg/kg		0.2475	mg/kg
		Silver	0.515	mg/kg		0.48	mg/kg		0.4875	mg/kg
		Cyanide, Total	0.09575	mg/kg		0.027	mg/kg		0.03675	mg/kg
		Fluoride	13.0825	mg/kg		14.805	mg/kg		13.9125	mg/kg
Pot Room 6	Basement Floor Average Results	Arsenic	12.4	mg/kg	Basement Wall Average Results	16.25	mg/kg	Ground Floor and Structural Average Results	13.61667	mg/kg
		Barium	92.375	mg/kg		108	mg/kg		110.0667	mg/kg
		Cadmium	0.505	mg/kg		0.455	mg/kg		1.015	mg/kg
		Chromium	16.425	mg/kg		22.6	mg/kg		19.88333	mg/kg
		Lead	13.05	mg/kg		9.15	mg/kg		9.1	mg/kg
		Mercury	0.011	mg/kg		0.0105	mg/kg		0.010483	mg/kg
		Selenium	0.2425	mg/kg		0.24	mg/kg		0.275	mg/kg
		Silver	0.51	mg/kg		0.505	mg/kg		0.488333	mg/kg
		Cyanide, Total	0.06	mg/kg		0.0265	mg/kg		0.086833	mg/kg
		Fluoride	18.875	mg/kg		66.35	mg/kg		64.13167	mg/kg
Pot Room 7	Basement Floor Average Results	Arsenic	16.3	mg/kg	Basement Wall Average Results	16.25	mg/kg	Ground Floor and Structural Average Results	18.15	mg/kg
		Barium	92.425	mg/kg		107.3	mg/kg		114.75	mg/kg
		Cadmium	0.51	mg/kg		0.35	mg/kg		0.4925	mg/kg
		Chromium	12.025	mg/kg		18.15	mg/kg		14.25	mg/kg
		Lead	5.8975	mg/kg		5.35	mg/kg		5.8	mg/kg
		Mercury	0.011	mg/kg		0.015	mg/kg		0.01075	mg/kg
		Selenium	0.2475	mg/kg		0.31	mg/kg		0.305	mg/kg
		Silver	0.515	mg/kg		0.645	mg/kg		0.6425	mg/kg
		Cyanide, Total	0.2525	mg/kg		0.06	mg/kg		0.05925	mg/kg
		Fluoride	190.75	mg/kg		87.3	mg/kg		127.25	mg/kg
Pot Room 8	Basement Floor Average Results	Arsenic	17.14	mg/kg	Basement Wall Average Results	17.7	mg/kg	Ground Floor and Structural Average Results	17.4	mg/kg
		Barium	120.62	mg/kg		144	mg/kg		129.2	mg/kg
		Cadmium	0.906	mg/kg		0.335	mg/kg		0.554	mg/kg
		Chromium	44.84	mg/kg		33.7	mg/kg		72.76	mg/kg
		Lead	8.36	mg/kg		5.7	mg/kg		5.98	mg/kg
		Mercury	0.0108	mg/kg		0.01	mg/kg		0.0108	mg/kg
		Selenium	0.308	mg/kg		0.295	mg/kg		0.3	mg/kg
		Silver	0.628	mg/kg		0.615	mg/kg		0.63	mg/kg
		Cyanide, Total	0.2212	mg/kg		0.0605	mg/kg		0.064	mg/kg
		Fluoride	120.7	mg/kg		106.55	mg/kg		232.8	mg/kg
Pot Room 9	Basement Floor Average	Arsenic	67.25	mg/kg	Basement Wall Average	13.2	mg/kg	Ground Floor and Structural	14.15	mg/kg
		Barium	133.5	mg/kg		116.5	mg/kg		115.5	mg/kg
		Cadmium	0.51	mg/kg		0.34	mg/kg		0.3375	mg/kg
		Chromium	75.35	mg/kg		108	mg/kg		99.525	mg/kg
		Lead	5.675	mg/kg		5.3	mg/kg		6.225	mg/kg

Pot Room 9	Results	Mercury	0.0105	mg/kg	Results	0.0105	mg/kg	Average Results	0.01075	mg/kg
		Selenium	0.305	mg/kg		0.305	mg/kg		0.2975	mg/kg
		Silver	0.635	mg/kg		0.63	mg/kg		0.6225	mg/kg
		Cyanide, Total	0.31125	mg/kg		0.215	mg/kg		0.1065	mg/kg
		Fluoride	318.625	mg/kg		71.15	mg/kg		113.225	mg/kg
Pot Room 10	Basement Floor Average Results	Arsenic	15.825	mg/kg	Basement Wall Average Results	14.6	mg/kg	Ground Floor and Structural Average Results	14.23333	mg/kg
		Barium	117.5	mg/kg		130	mg/kg		109.5	mg/kg
		Cadmium	0.6275	mg/kg		0.34	mg/kg		0.345	mg/kg
		Chromium	64.975	mg/kg		88.9	mg/kg		251.9333	mg/kg
		Lead	5.25	mg/kg		5	mg/kg		4.816667	mg/kg
		Mercury	0.0105	mg/kg		0.0115	mg/kg		0.010483	mg/kg
		Selenium	0.335	mg/kg		0.3	mg/kg		0.305	mg/kg
		Silver	0.65	mg/kg		0.625	mg/kg		0.638333	mg/kg
		Cyanide, Total	0.2925	mg/kg		0.152	mg/kg		0.260333	mg/kg
		Fluoride	265.05	mg/kg		68.35	mg/kg		77.80167	mg/kg

From: Thompson, Ricknold [mailto:rithompson@mt.gov]
Sent: Thursday, November 16, 2017 10:02 AM
To: Cliff Boyd
Cc: Rieger, Michael; Hall, Mark
Subject: RE: concrete test results

Hi Cliff

The analytical show non-detect for the RCRA & Metals in the concrete generated from the

demolition of the outlying buildings at the CFAC site. As indicated from the test results, the concrete may be used for clean fill onsite.

Please contact me if you have any questions.

Rick Thompson,
MT DEQ
Email: rithompson@mt.gov
Phone: (406)444-5345
Cell: (406)461-3557

From: Cliff Boyd [mailto:cliff.boyd@calbag.com]
Sent: Wednesday, November 15, 2017 2:24 PM
To: Thompson, Ricknold
Subject: concrete test results

Hi Rick

Attached are the test results for concrete that was generated as a result of the CFAC demolition and was not part of the basement concrete removal at CFAC. We had multiple outlying buildings that have been demolished that are not part of the Pot Rooms or Cell Lines where aluminum was made. Can you give me an idea on if it's okay to use it as fill and build ramps into the basements with?

Cliff Boyd
Director of Asset Recovery
U.S Operations Group
Oregon Office 503-226-3441
Cell 406 360-0751

From: Thompson, Ricknold [mailto:rithompson@mt.gov]
Sent: Tuesday, June 06, 2017 10:33 AM
To: Cliff Boyd
Cc: Hall, Mark; Rieger, Michael; Hendrickson, Mary; Thamke, Ed
Subject: RE: sharing information

Hi Cliff

Thanks for the emails. It has been a while since we have conversed. Glad to know you are still in the waste management business.

From a solid waste regulatory perspective, concrete from the demolition at CFAC can be used for "clean fill" if it meets the criteria defined in rule. "Clean fill" is defined by ARM 17.50.502(4) as..... soil, dirt, sand, gravel, rocks, rebar-free concrete, emplaced free of charge to the person placing the fill, in order to adjust or create topographic irregularities for agricultural or construction purposes.

Based on the picture attached to your e-mail, the concrete to be used for clean fill appears to meet the definition given above. However, I see paint on the concrete which gives me cause for concern that the concrete is not 100% clean. To be consistent with the Solid Waste Program's directive to others who have used concrete as clean fill, the material that you intend to use should be sampled. I recommend that the concrete be sampled for RCRA 8 Metals and PCBs to remove any concerns that the material is not clean fill.

If the sampling data shows no leachable metals of concern or PCBs, the concrete can be use as clean fill. On the other hand, detection of metals or PCBs above regulatory standards would require the material to be disposed of in a Class II or hazardous waste landfill depending on the level contaminants.

As you move forward with demolition activities at CFAC, I recommend sandblasting of painted concrete walls and disposing of the residue at an appropriate solid waste facility. By so doing, the remaining concrete can be for clean fill without question after the rebar has been removed.

I hope this makes sense. I will give you a follow-up call today to make sure we are on the same page.

Sincerely

Rick Thompson
Solid Waste Section
Waste Management & Remediation Division
MT DEQ
Email: rithompson@mt.gov
Phone: (406)444-5345
Cell: (406)461-3557

From: Cliff Boyd [mailto:cliff.boyd@calbag.com]
Sent: Monday, June 05, 2017 4:04 PM
To: Thompson, Ricknold; 'kathryn.norris@tetratech.com'; Jim Perris; Ryan Ford (ryan.p.ford88@gmail.com); Deryl Leonard (deryl.leonard@calbag.co)
Subject: sharing information

HI Rick – Hope all is well. It's been a long spell since we've conversed. From Bio Hazardous waste in 1991 to Concrete in 2017 we seem to keep finding each other.

Attached are two emails. I've been asked to share this information with you by numerous folks.

Best Wishes,

Cliff Boyd
Director of Asset Recovery
U.S Operations Group
Oregon Office 503-226-3441
Cell 406 360-0751

Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
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Client: CALBAG RESOURCES, LLC
Address: 2495 NW NICALAI ST
PORTLAND, OR 97210
Attn: CLIFF BOYD

Batch #: 171010036
Project Name: CALBAG, CFAC

Analytical Results Report

Sample Number 171010036-001
Client Sample ID FD-002
Matrix Soil
Comments

Sampling Date 10/4/2017
Sampling Time 12:15 PM
Sample Location

Date/Time Received 10/10/2017 11:26 AM
Extraction Date

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
TCLP Arsenic	ND	ppm	2.5	10/17/2017 5:56:00 PM	KNP	EPA 6020A	
TCLP Barium	ND	ppm	2.5	10/17/2017 5:56:00 PM	KNP	EPA 6020A	
TCLP Cadmium	ND	ppm	2.5	10/17/2017 5:56:00 PM	KNP	EPA 6020A	
TCLP Chromium	ND	ppm	2.5	10/17/2017 5:56:00 PM	KNP	EPA 6020A	
TCLP Lead	ND	ppm	2.5	10/17/2017 5:56:00 PM	KNP	EPA 6020A	
TCLP Mercury	ND	ppm	0.5	10/17/2017 5:56:00 PM	KNP	EPA 6020A	
TCLP Selenium	ND	ppm	2.5	10/17/2017 5:56:00 PM	KNP	EPA 6020A	
TCLP Silver	ND	ppm	2.5	10/17/2017 5:56:00 PM	KNP	EPA 6020A	

Sample Number 171010036-002
Client Sample ID PC-001
Matrix Soil
Comments

Sampling Date 10/4/2017
Sampling Time 12:30 PM
Sample Location

Date/Time Received 10/10/2017 11:26 AM
Extraction Date

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
TCLP Arsenic	ND	ppm	2.5	10/17/2017 6:00:00 PM	KNP	EPA 6020A	
TCLP Barium	ND	ppm	2.5	10/17/2017 6:00:00 PM	KNP	EPA 6020A	
TCLP Cadmium	ND	ppm	2.5	10/17/2017 6:00:00 PM	KNP	EPA 6020A	
TCLP Chromium	ND	ppm	2.5	10/17/2017 6:00:00 PM	KNP	EPA 6020A	
TCLP Lead	ND	ppm	2.5	10/17/2017 6:00:00 PM	KNP	EPA 6020A	
TCLP Mercury	ND	ppm	0.5	10/17/2017 6:00:00 PM	KNP	EPA 6020A	
TCLP Selenium	ND	ppm	2.5	10/17/2017 6:00:00 PM	KNP	EPA 6020A	
TCLP Silver	ND	ppm	2.5	10/17/2017 6:00:00 PM	KNP	EPA 6020A	

Authorized Signature Kathleen A. Sattler

Kathleen A. Sattler, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013;NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

Anatek Labs, Inc.

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Login Report

Customer Name: CALBAG RESOURCES, LLC
2495 NW NICALAI ST
PORTLAND OR 97210

Order ID: 171010036
Order Date: 10/10/2017

Contact Name: CLIFF BOYD
Project Name: CALBAG, CFAC

Comment:

Sample #: 171010036-001 **Customer Sample #:** FD-002

Recv'd: ☑ **Matrix:** Soil **Collector:** RYAN FORD **Date Collected:** 10/4/2017
Quantity: 1 **Date Received:** 10/10/2017 11:26:00 AM **Time Collected:** 12:15 PM
Comment:

Test	Lab	Method	Due Date	Priority
TCLP Arsenic	S	EPA 6020A	10/20/2017	Normal (~10 Days)
TCLP Barium	S	EPA 6020A	10/20/2017	Normal (~10 Days)
TCLP Cadmium	S	EPA 6020A	10/20/2017	Normal (~10 Days)
TCLP Chromium	S	EPA 6020A	10/20/2017	Normal (~10 Days)
TCLP Lead	S	EPA 6020A	10/20/2017	Normal (~10 Days)
TCLP Mercury	S	EPA 6020A	10/20/2017	Normal (~10 Days)
TCLP METALS	S	N/A	10/20/2017	Normal (~10 Days)
TCLP Selenium	S	EPA 6020A	10/20/2017	Normal (~10 Days)
TCLP Silver	S	EPA 6020A	10/20/2017	Normal (~10 Days)

Sample #: 171010036-002 **Customer Sample #:** PC-001

Recv'd: ☑ **Matrix:** Soil **Collector:** RYAN FORD **Date Collected:** 10/4/2017
Quantity: 1 **Date Received:** 10/10/2017 11:26:00 AM **Time Collected:** 12:30 PM
Comment:

Test	Lab	Method	Due Date	Priority
TCLP CYANIDE	S	EPA 9012B	10/20/2017	Normal (~10 Days)
TCLP FLUORIDE	S	EPA 300.0	10/20/2017	Normal (~10 Days)
TCLP Arsenic	S	EPA 6020A	10/20/2017	Normal (~10 Days)
TCLP Barium	S	EPA 6020A	10/20/2017	Normal (~10 Days)
TCLP Cadmium	S	EPA 6020A	10/20/2017	Normal (~10 Days)
TCLP Chromium	S	EPA 6020A	10/20/2017	Normal (~10 Days)
TCLP Lead	S	EPA 6020A	10/20/2017	Normal (~10 Days)

Customer Name: CALBAG RESOURCES, LLC
2495 NW NICALAI ST
PORTLAND OR 97210

Order ID: 171010036
Order Date: 10/10/2017

Contact Name: CLIFF BOYD

Project Name: CALBAG, CFAC

Comment:

TCLP Mercury	S	EPA 6020A	10/20/2017	***Normal (~10 Days)***
TCLP METALS	S	N/A	10/20/2017	***Normal (~10 Days)***
TCLP Selenium	S	EPA 6020A	10/20/2017	***Normal (~10 Days)***
TCLP Silver	S	EPA 6020A	10/20/2017	***Normal (~10 Days)***

SAMPLE CONDITION RECORD

Samples received intact?	Yes
What is the temperature of the sample(s)? (°C)	9.3/9.4
Samples received with a COC?	Yes
Samples received within holding time?	Yes
Are all sample bottles properly preserved?	Yes
Labels and chain agree?	Yes
Total number of containers?	2

Anatek Labs, Inc.

Chain of Custody Record

1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246
504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433

'71010 036 CLBG Last Due 10/20/2017
1st SAMP 10/4/2017 1st RCVD 10/10/2017
ALBAG, CFAC

Company Name:	Calbag Resources, LLC	Project Manager:	Cliff Boyd
Address:	2495 NW Nicolai St	Project Name & #:	Calbag, CFAC
City: Portland	State: OR Zip: 97210	Email Address:	ryan.ford@calbag.com
Phone:	(503) 226-3441	Purchase Order #:	
Fax:		Sampler Name & phone:	Ryan Ford, 858-735-7996

Please refer to our normal turn around times at: http://www.anateklabs.com/services/guidelines/reporting.asp

✓ Normal
__Next Day*
__2nd Day*
__Other*_____

*All rush order requests must be prior approved.

__Phone
__Mail
__Fax
✓ Email

Provide Sample Description

FD-002, 5-point composite from fume debris collected from exterior piping located between courtyards 5-6, 7-8, 9-10
PC-001, 5-point composite, painted concrete from west rectifier building

List Analyses Requested

Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	6020A 7421 TCLP RCRA8	9056/300 Fluoride TCLP	9012B Cyanide TCLP	SW6082 PCB
	FD-002	10/4/17 12:15	S			X			
	PC-001	10/4/17 12:30	S			X	X	X	

Note Special Instructions/Comments

X per Ryan

SWBS

Inspection Checklist

Received Intact? Y N
Labels & Chains Agree? Y N
Containers Sealed? Y N
VOC Head Space? ~~Y N~~
UPS/c/1

Temperature (°C): 9.3/9.4 IR1
Preservative:

Date & Time: 10-10-17 1126
Inspected By: [illegible]

	Printed Name	Signature	Company	Date	Time
Relinquished by	Ryan Ford	[signature]	Calbag	10/9/17	1600
Received by	Wendy [illegible]	[signature]	Anatek	10/10/17	1126
Relinquished by					
Received by					
Relinquished by					
Received by					

Form COC01.00 - Eff 1 Mar 2015

Samples submitted to Anatek Labs may be subcontracted to other accredited labs if necessary. This message serves as notice of this possibility. Sub-contracted analyses will be clearly noted on the analytical report.