

OBED MOUNTAIN MINE
TABLE 5 ATHABASCA RIVER 14.5 KM UPSTREAM OF PLANTE CREEK (ATR-US)

Method Type	Chemical	Unit	MDL	Location	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US
				Date	01-Nov-13	02-Nov-13	03-Nov-13	04-Nov-13	05-Nov-13	06-Nov-13	07-Nov-13	08-Nov-13	09-Nov-13
Aggregate Organics	Hydrocarbons, Recoverable (I.R.)	mg/L	1	-	-	-	-	-	<1	<1	<1	<1	<1
	BOD	mg/L	2	-	-	-	-	<2	<2	<2	<2	2.5	<2
	Oil and Grease	mg/L	1	<1	-	-	-	1.9	-	-	-	-	-
	Phenols (4AAP)	µg/L	1	<1	-	-	-	1.5	<1 - 1	2.3	<1	<1	<1
Anions and Nutrients	Alkalinity (T) as CaCO3	mg/L	2	131	-	-	-	116	120	126	128	128	123
	Ammonia	mg/L	0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	0.051	<0.05	<0.05
	Bicarbonate	mg/L	5	159	-	-	-	142	146 - 147	154	156 - 157	156	150
	Carbonate	mg/L	5	<5	-	-	-	<5	<5	<5	<5	<5	<5
	Chloride	mg/L	0.5	2.74	-	-	-	2.87	3.32 - 3.59	4.28	4.09 - 4.18	3.58	3.87
	Electrical Conductivity (lab)	µS/cm	0.0002	0.386	-	-	-	0.373	0.39	0.408	0.409 - 0.414	0.406	0.391
	Hydroxide	mg/L	5	<5	-	-	-	<5	<5	<5	<5	<5	<5
	Ionic Balance	%		103	-	-	-	103	102 - 103	99.9	98.3 - 98.5	97	93.8
	Kjeldahl Nitrogen Total	mg/L	0.05	<0.2	-	-	-	0.093	<0.2	<0.2	<0.2	<0.2	<0.2
	Nitrate (as N)	mg/L	0.05	<0.05	-	-	-	<0.05	0.051 - 0.054	0.059	<0.05	0.064	0.066
	Nitrate + Nitrite-N	mg/L	0.07	<0.071	-	-	-	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071
	Nitrite (as N)	mg/L	0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	pH (Lab)	pH		8.15	-	-	-	7.99	8.02 - 8.04	8.01	7.98 - 8.01	7.92	7.91
	Phosphorus	mg/L	0.001	<0.02	-	-	-	<0.02	0.0137	0.0129	0.0134 - 0.0136	0.0145	0.0094
	Phosphorus (Filtered)	mg/L	0.001	-	-	-	-	-	0.0031 - 0.0039	0.0042	0.0023	0.0147	0.0021
	Sulphate	mg/L	0.5	69.5	-	-	-	73	75.5 - 78.8	81.3	76.4 - 78.4	83.1	77.8
	Sulphide	mg/L	0.002	0.0036	-	-	-	0.0022	<0.002 - 0.0026	0.0043	0.0038 - 0.0042	<0.002	<0.002
Hardness as CaCO3	mg/L		197	-	-	-	182	188 - 191	193	188 - 189	194	176	
TDS	mg/L		228	-	-	-	218	226 - 231	239	233 - 236	240	227	
Cyanides	Cyanide Total	mg/L	0.002	<0.002	-	-	<0.002	<0.005	<0.005	<0.005	<0.005	<0.005	
Dissolved Metals	Aluminium (Filtered)	mg/L	0.001	-	-	-	-	0.017	0.0117 - 0.0121	0.0122	0.0104 - 0.0112	0.0085	0.0107
	Antimony (Filtered)	mg/L	0.0001	-	-	-	-	<0.0004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	Arsenic (Filtered)	mg/L	0.0001	-	-	-	-	<0.0004	<0.0001 - 0.00011	0.00011	0.00015 - 0.00016	0.00014	0.00011
	Barium (Filtered)	mg/L	0.00005	-	-	-	-	0.0534	0.0534 - 0.0551	0.0558	0.0598 - 0.06	0.0635	0.0556
	Beryllium (Filtered)	mg/L	0.0005	-	-	-	-	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	Bismuth (Filtered)	mg/L	0.00005	-	-	-	-	-	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
	Boron (hot water ext) (Filtered)	mg/L	0.01	-	-	-	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01
	Cadmium (Filtered)	mg/L	0.00001	-	-	-	-	<0.00005	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
	Calcium (Filtered)	mg/L	0.02	53.5	-	-	-	48.9	50.5 - 51	50.1	50.4 - 51	52	46.9
	Chromium (III+VI) (Filtered)	mg/L	0.0001	-	-	-	-	<0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	Cobalt (Filtered)	mg/L	0.0001	-	-	-	-	<0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	Copper (Filtered)	mg/L	0.0001	-	-	-	-	<0.001	<0.0001 - 0.00012	0.00013	0.00015 - 0.00031	0.00016	0.00076
	Iron (Filtered)	mg/L	0.01	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Lead (Filtered)	mg/L	0.00005	-	-	-	-	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	0.00067
	Lithium (Filtered)	mg/L	0.003	-	-	-	-	<0.003	0.0033 - 0.0036	0.0034	<0.003 - 0.0033	0.0033	<0.003
	Magnesium (Filtered)	mg/L	0.005	15.3	-	-	-	14.6	15.1 - 15.5	16.4	15	15.7	14.4
	Manganese (Filtered)	mg/L	0.00005	-	-	-	-	0.0104	0.0112 - 0.013	0.0161	0.0205 - 0.0206	0.0147	0.0136
	Molybdenum (Filtered)	mg/L	0.00005	-	-	-	-	<0.005	0.000915 - 0.000926	0.000987	0.00106 - 0.00122	0.00102	0.000984
	Nickel (Filtered)	mg/L	0.0001	-	-	-	-	<0.002	0.00022	0.00025	0.00029 - 0.00032	0.00029	0.00029
	Phosphorus (Filtered)	mg/L	0.3	-	-	-	-	-	<0.3	<0.3	<0.3	<0.3	<0.3
	Potassium (Filtered)	mg/L	0.05	0.66	-	-	-	0.67	0.674 - 0.693	0.795	0.78 - 0.79	0.67	0.74
	Selenium (Filtered)	mg/L	0.0001	-	-	-	-	<0.0004	0.00036	0.00034	0.00038 - 0.00042	0.00039	0.00032
	Silicon (Filtered)	µg/L	50	-	-	-	-	-	2030 - 2050	1640	1650 - 1740	1810	1810
	Silver (Filtered)	mg/L	0.00001	-	-	-	-	<0.0001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
	Sodium (Filtered)	mg/L	0.05	7.3	-	-	-	8.5	8.93 - 9.28	10.7	10 - 10.1	8.2	8.9
	Strontium (Filtered)	mg/L	0.0001	-	-	-	-	-	0.552 - 0.564	0.548	0.574 - 0.578	0.593	0.517
	Thallium (Filtered)	mg/L	0.00005	-	-	-	-	<0.0001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
	Tin (Filtered)	mg/L	0.0001	-	-	-	-	<0.05	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	Titanium (Filtered)	mg/L	0.0003	-	-	-	-	<0.001	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
	Uranium (Filtered)	µg/L	0.01	-	-	-	-	0.55	0.571 - 0.575	0.574	0.622 - 0.649	0.617	0.632
	Vanadium (Filtered)	mg/L	0.0001	-	-	-	-	<0.001	<0.0001	0.00012	0.00015	0.00012	<0.0001
	Zinc (Filtered)	mg/L	0.001	-	-	-	-	<0.002	<0.001	0.0027	<0.001 - 0.0011	<0.001	0.0011
Field	Turbidity	NTU		-	8.13	6.67	14.2	-	-	31.2	-	-	-
Organic / Inorganic Carbon	Carbon	mg/L	1	-	-	-	-	-	2.3 - 2.4	2.8	2.7 - 2.9	2.3	3.7
	Dissolved Organic Carbon (Filtered)	mg/L	1	-	-	-	-	-	2.5	2.8	3	2.2	1.6
Organic Parameters	Acrylamide	µg/L	5	-	-	-	-	-	-	-	<5	-	-
	Naphthenic Acid	mg/L	1	-	-	-	-	-	<1	<1	<1	<1	<1
Physical Tests	Dissolved Oxygen (lab) (Filtered)	mg/L	0.5	12.1	-	-	-	-	-	-	-	-	-
	Dissolved Oxygen (Filtered)	mg/L	0.5	-	-	-	8.24	-	-	-	-	-	-
	TDS (Filtered)	mg/L	10	-	-	-	-	246 - 248	242	250 - 253	253	241	
	Total Suspended Solids	mg/L	3	4	-	-	<3	<3	<3	7 - 8	14	<3	
	Turbidity	NTU	0.1	5.44	-	-	4.57	4.57 - 5.13	5.41	10.9	9.5	4.94	
Polycyclic Aromatic Hydrocarbons	Benzo[<i>b</i>]fluoranthene	mg/L	0.00001	-	-	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
	C4 Benzanthracenes/Chrysenes	ug/L	0.04	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04	
	C4 Dibenzothiophenes	ug/L	0.04	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04	
	C4 Fluoranthenes/Pyrenes	ug/L	0.04	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04	
	C4 Naphthalenes	ug/L	0.04	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04	
	C4 Phenanthrenes/Anthracenes	ug/L	0.04	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04	
	1,1-Biphenyl	µg/L	0.01	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Notes
MDL - Method Detection Limit
- "Sample not analyzed for this parameter"
< - "result is less than the MDL. No detectable concentration was measured"
* EPA 245.7/245.1

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Method Type	Chemical	Unit	MDL	Location	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US
				Date	01-Nov-13	02-Nov-13	03-Nov-13	04-Nov-13	05-Nov-13	06-Nov-13	07-Nov-13	08-Nov-13	09-Nov-13
	1-Methylnaphthalene	µg/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01
	2-methylnaphthalene	µg/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01
	Acenaphthene	µg/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01
	Acenaphthylene	µg/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01
	Anthracene	µg/L	0.01	-	-	-	-	-	0.051 - 0.054	0.066	<0.04	<0.04	<0.04
	Benz(a)anthracene	µg/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01
	Benzo(a) pyrene	µg/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01
	Acridine	mg/L	0.00001	-	-	-	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
	Benzo(e)pyrene	µg/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01
	Benzo(g,h,i)perylene	µg/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01
	Benzo(k)fluoranthene	µg/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01
	C1 Acenaphthenes	µg/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04
	C1 Benz(a)Anthracenes/Chrysenes	µg/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04
	C1 Benzofluoranthenes/Benzopyrenes	µg/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04
	Chrysene	µg/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01
	C1 Biphenyls	µg/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04
	C1 Dibenzothiophenes	µg/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04
	C1 Fluoranthenes/Pyrenes	µg/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04
	C1 Fluorenes	µg/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04
	C1 Phenanthrenes/Anthracenes	µg/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04
	Dibenz(a,h)anthracene	µg/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01
	Dibenzothiophene	µg/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01
	Fluoranthene	µg/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01
	Fluorene	µg/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01
	Indeno(1,2,3-c,d)pyrene	µg/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01
	Naphthalene	µg/L	0.05	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05
	Perylene	µg/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01
	Phenanthrene	µg/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01
	Pyrene	µg/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.04	<0.04	<0.04
	Quinoline	µg/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01
	Retene	µg/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01
	C2 Benz(a)Anthracenes/Chrysenes	µg/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04
	C2 Benzofluoranthenes/Benzopyrenes	µg/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04
	C2 Biphenyls	µg/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04
	C2 Dibenzothiophenes	µg/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04
	C2 Fluoranthenes/Pyrenes	µg/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04
	C2 Naphthalenes	µg/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04
	C2 Phenanthrenes/Anthracenes	µg/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04
	C2 Fluorenes	µg/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04
	C3 Benzanthracenes/Chrysenes	µg/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04
	C3 Dibenzothiophenes	µg/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04
	C3 Fluoranthenes/Pyrenes	µg/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04
	C3 Fluorenes	µg/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04
	C3 Naphthalenes	µg/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04
	C3 Phenanthrenes/Anthracenes	µg/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04
Speciated Metals	Chromium (hexavalent)	mg/L	0.001	<0.001	-	-	-	-	-	-	-	-	-
Total Metals	Aluminum	mg/L	0.003	0.125	-	-	-	0.141	0.104 - 0.128	0.131	0.198 - 0.202	0.141	0.174
	Antimony	mg/L	0.0001	<0.0004	-	-	-	<0.0004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	Arsenic	mg/L	0.0001	<0.0004	-	-	-	<0.0004	0.00013 - 0.00015	0.00015	0.00024 - 0.00025	0.00021	0.00016
	Barium	mg/L	0.00005	0.0605	-	-	-	0.0546	0.0542 - 0.0548	0.0563	0.0603 - 0.0608	0.0644	0.0569
	Beryllium	mg/L	0.0005	<0.001	-	-	-	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	Bismuth	mg/L	0.00005	-	-	-	-	-	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
	Boron (hot water ext)	mg/L	0.01	<0.05	-	-	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01
	Cadmium	mg/L	0.00001	<0.00005	-	-	-	<0.00005	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
	Calcium	mg/L	0.02	53.7	-	-	-	50.7	50 - 50.4	49.7	53.3 - 54.1	54.1	49.7
	Chromium (III+VI)	mg/L	0.0001	<0.005	-	-	-	<0.005	0.00019 - 0.00023	0.00022	0.00034 - 0.00036	0.00036	0.00025
	Cobalt	mg/L	0.0001	<0.002	-	-	-	<0.002	<0.0001	0.00011	0.00016 - 0.00018	0.00015	0.00011
	Copper	mg/L	0.0001	<0.001	-	-	-	<0.001	0.00029 - 0.00031	0.00027	0.00049 - 0.00061	0.00042	0.00042
	Iron	mg/L	0.01	0.13	-	-	-	0.151	0.132 - 0.151	0.167	0.275 - 0.31	0.248	0.162
	Lead	mg/L	0.00005	0.0001	-	-	-	0.00012	0.000096 - 0.000109	0.000114	0.000219 - 0.000246	0.000206	0.00013
	Lithium	mg/L	0.005	<0.01	-	-	-	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005
	Magnesium	mg/L	0.005	14.9	-	-	-	15.2	14.9 - 15	15.6	15.5 - 15.6	16.4	14.9
	Manganese	mg/L	0.00005	0.0128	-	-	-	0.0155	0.0149 - 0.0167	0.0195	0.0282 - 0.0291	0.0243	0.0177
	Mercury	µg/L	0.0005	<0.1	-	-	-	<0.1*	<0.0005	0.0006	0.00066 - 0.00088	0.00066	0.00056
	Molybdenum	mg/L	0.00005	<0.005	-	-	-	<0.005	0.000997 - 0.00101	0.00103	0.00119 - 0.0012	0.0011	0.00108
	Nickel	mg/L	0.0001	<0.002	-	-	-	<0.002	0.00035 - 0.00038	0.00038	0.00059 - 0.00097	0.00053	0.0004
	Phosphorus	mg/L	0.3	-	-	-	-	-	<0.3	<0.3	<0.3	<0.3	<0.3
	Potassium	mg/L	0.05	0.69	-	-	-	0.74	0.736 - 0.748	0.828	0.838 - 0.842	0.73	0.791
	Selenium	mg/L	0.0001	<0.0004	-	-	-	<0.0004	0.00032	0.00032	0.00035 - 0.00038	0.00041	0.00028
	Silicon	µg/L	50	-	-	-	-	-	1910 - 1970	1740	2070 - 2120	2070	1960
	Silver	mg/L	0.00001	<0.0001	-	-	-	<0.0001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
	Sodium	mg/L	0.05	7	-	-	-	8.5	9.14 - 9.27	10.1	10.8 - 10.9	8.68	9.34
	Strontium	mg/L	0.0001	-	-	-	-	-	0.583 - 0.6	0.567	0.568 - 0.579	0.586	0.544

Notes
MDL - Method Detection Limit
- "Sample not analyzed for this parameter"
< - "result is less than the MDL. No detectable concentration was measured"
* EPA 245.7/245.1

OBED MOUNTAIN MINE
TABLE 5 ATHABASCA RIVER 14.5 KM UPSTREAM OF PLANTE CREEK (ATR-US)

		Location	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US
		Date	01-Nov-13	02-Nov-13	03-Nov-13	04-Nov-13	05-Nov-13	06-Nov-13	06-Nov-13	07-Nov-13	08-Nov-13	09-Nov-13
Method Type	Chemical	Unit	MDL									
	Thallium	mg/L	0.00005	<0.0001	-	-	-	<0.0001	<0.00005	<0.00005	<0.00005	<0.00005
	Tin	mg/L	0.0001	<0.05	-	-	-	<0.05	<0.0001	<0.0001	<0.0001	<0.0001
	Titanium	mg/L	0.0003	0.0021	-	-	0.0034	0.00154 - 0.00189	0.00193	0.00297 - 0.00488	0.00469	0.00464
	Uranium	µg/L	0.01	0.64	-	-	0.6	0.592 - 0.61	0.597	0.678 - 0.706	0.661	0.643
	Vanadium	mg/L	0.0001	<0.001	-	-	-	<0.001	0.00041 - 0.00042	0.00046	0.00058 - 0.00064	0.00044
	Zinc	mg/L	0.003	<0.004	-	-	-	<0.004	<0.003	<0.003	<0.003	<0.003
Volatile Organic Compounds	1,1,1-trichloroethane	µg/L	1	-	-	-	-	<1	<1	<1	<1	<1
	1,1,2,2-tetrachloroethane	µg/L	20	-	-	-	-	<20	<20	<20	<20	<20
	1,1,2-trichloroethane	µg/L	2	-	-	-	-	<2	<2	<2	<2	<2
	1,1-dichloroethane	µg/L	1	-	-	-	-	<1	<1	<1	<1	<1
	1,1-dichloroethene	µg/L	1	-	-	-	-	<1	<1	<1	<1	<1
	1,2,3-trichloropropane	µg/L	5	-	-	-	-	<5	<5	<5	<5	<5
	1,2-dibromoethane	µg/L	1	-	-	-	-	<1	<1	<1	<1	<1
	1,2-dichlorobenzene	µg/L	1	-	-	-	-	<1	<1	<1	<1	<1
	1,2-dichloroethane	µg/L	2	-	-	-	-	<2	<2	<2	<2	<2
	1,2-dichloropropane	µg/L	2	-	-	-	-	<2	<2	<2	<2	<2
	1,3-dichlorobenzene	µg/L	1	-	-	-	-	<1	<1	<1	<1	<1
	1,4-dichlorobenzene	µg/L	1	-	-	-	-	<1	<1	<1	<1	<1
	Methyl Ethyl Ketone	µg/L	100	-	-	-	-	<100	<100	<100	<100	<100
	2-hexanone (MBK)	µg/L	10	-	-	-	-	<10	<10	<10	<10	<10
	4-Methyl-2-pentanone	µg/L	10	-	-	-	-	<10	<10	<10	<10	<10
	Acetone	mg/L	0.1	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1
	Acrolein	µg/L	100	-	-	-	-	<100	<100	<100	<100	<100
	Acrylonitrile	µg/L	100	-	-	-	-	<100	<100	<100	<100	<100
	Benzene	mg/L	0.0005	<0.0005	-	-	-	<0.0005	<0.001	<0.001	<0.001	<0.001
	Toluene	mg/L	0.0005	<0.0005	-	-	-	<0.0005	<0.001	<0.001	<0.001	<0.001
	Bromodichloromethane	µg/L	1	-	-	-	-	<1	<1	<1	<1	<1
	Bromoform	µg/L	3	-	-	-	-	<3	<3	<3	<3	<3
	Bromomethane	µg/L	10	-	-	-	-	<10	<10	<10	<10	<10
	Carbon disulfide	µg/L	1	-	-	-	-	<1	<1	<1	<1	<1
	Carbon tetrachloride	µg/L	1	-	-	-	-	<1	<1	<1	<1	<1
	Chlorobenzene	µg/L	1	-	-	-	-	<1	<1	<1	<1	<1
	Chlorodibromomethane	µg/L	3	-	-	-	-	<3	<3	<3	<3	<3
	Chloroethane	µg/L	10	-	-	-	-	<10	<10	<10	<10	<10
	Chloroform	µg/L	1	-	-	-	-	<1	<1	<1	<1	<1
	Chloromethane	µg/L	10	-	-	-	-	<10	<10	<10	<10	<10
	cis-1,2-dichloroethene	µg/L	1	-	-	-	-	<1	<1	<1	<1	<1
	cis-1,3-dichloropropene	µg/L	1	-	-	-	-	<1	<1	<1	<1	<1
	cis-1,4-Dichloro-2-butene	µg/L	10	-	-	-	-	<10	<10	<10	<10	<10
	Dibromomethane	µg/L	3	-	-	-	-	<3	<3	<3	<3	<3
	Dichlorodifluoromethane	µg/L	3	-	-	-	-	<3	<3	<3	<3	<3
	Dichloromethane	µg/L	1	-	-	-	-	<1	<1	<1	<1	<1
	Ethanol	µg/L	300	-	-	-	-	<300	<300	<300	<300	<300
	Ethyl methacrylate	µg/L	10	-	-	-	-	<10	<10	<10	<10	<10
	Ethylbenzene	mg/L	0.0005	<0.0005	-	-	-	<0.0005	<0.001	<0.001	<0.001	<0.001
	Xylene (m & p)	mg/L	0.0005	<0.0005	-	-	-	<0.0005	<0.001	<0.001	<0.001	<0.001
Xylene (o)	mg/L	0.0005	<0.0005	-	-	-	<0.0005	<0.001	<0.001	<0.001	<0.001	
Xylenes Total	µg/L	0.71	<0.71	-	-	-	<0.71	-	-	-	-	
Iodomethane	µg/L	1	-	-	-	-	<1	<1	<1	<1	<1	
Styrene	µg/L	1	-	-	-	-	<1	<1	<1	<1	<1	
Trichloroethane	µg/L	1	-	-	-	-	<1	<1	<1	<1	<1	
Tetrachloroethane	µg/L	1	-	-	-	-	<1	<1	<1	<1	<1	
trans-1,2-dichloroethene	µg/L	1	-	-	-	-	<1	<1	<1	<1	<1	
trans-1,3-dichloropropene	µg/L	1	-	-	-	-	<1	<1	<1	<1	<1	
trans-1,4-Dichloro-2-butene	µg/L	10	-	-	-	-	<10	<10	<10	<10	<10	
Trichlorofluoromethane	µg/L	1	-	-	-	-	<1	<1	<1	<1	<1	
Vinyl acetate	µg/L	100	-	-	-	-	<100	<100	<100	<100	<100	
Vinyl chloride	µg/L	2	-	-	-	-	<2	<2	<2	<2	<2	

Notes
MDL - Method Detection Limit
- "Sample not analyzed for this parameter"
< - "result is less than the MDL. No detectable concentration was measured"
* EPA 245.7/245.1

OBED MOUNTAIN MINE
TABLE 5 ATHABASCA RIVER 14.5 KM UPSTREAM OF PLANTE CREEK (ATR-US)

Method Type	Chemical	Unit	MDL	Location	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US
				Date	10-Nov-13	11-Nov-13	12-Nov-13	13-Nov-13	14-Nov-13	15-Nov-13	16-Nov-13	17-Nov-13	21-Nov-13
Aggregate Organics	Hydrocarbons, Recoverable (I.R.)	mg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	BOD	mg/L	2	<2	<2	<2	<2	5.2	<2	2	<2	<2	<2
	Oil and Grease	mg/L	1	-	-	-	-	-	-	-	-	-	-
	Phenols (4AAP)	µg/L	1	<1 - 1.1	<1	1.1	1.6	<1	1	3	<1	3.1	3.1
Anions and Nutrients	Alkalinity (T) as CaCO3	mg/L	2	123 - 124	125	127	124	121	115	117	123	150	150
	Ammonia	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.052	0.087	0.087
	Bicarbonate	mg/L	5	150 - 151	152	155	151	147	141	143	150	183	183
	Carbonate	mg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	Chloride	mg/L	0.5	4.01 - 4.07	3.94	5.16	4.21	3.3	3.35	3.78	3.87	5.39	5.39
	Electrical Conductivity (lab)	µS/cm	0.0002	0.398 - 0.399	0.404	0.423	0.397	0.401	0.395	0.394	0.42	0.493	0.493
	Hydroxide	mg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	Ionic Balance	%		89.4 - 91.1	89.2	94.2	98.7	96.8	91.9	95.9	97.9	96.1	96.1
	Kjeldahl Nitrogen Total	mg/L	0.05	<0.2 - 0.35	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.23	0.23
	Nitrate (as N)	mg/L	0.05	0.062 - 0.064	0.085	0.066	0.07	0.065	0.073	0.053	<0.05	0.081	0.081
	Nitrate + Nitrite-N	mg/L	0.07	<0.071	0.085	<0.071	<0.071	<0.071	0.073	<0.071	<0.071	0.081	0.081
	Nitrite (as N)	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	pH (Lab)	pH	0.1	7.94 - 7.96	7.98	8.1	8.07	7.95	7.89	7.88	7.8	7.98	7.98
	Phosphorus	mg/L	0.001	0.0128 - 0.0132	0.015	0.0186	0.0199	0.0184	0.0271	0.0229	0.0215	0.0225	0.0225
	Phosphorus (Filtered)	mg/L	0.001	0.0038 - 0.004	0.0039	0.0058	0.0062	0.0046	0.0046	0.0035	0.0015	0.0034	0.0034
	Sulphate	mg/L	0.5	82.2 - 82.4	82.9	85.5	80.2	83.9	79.2	80.7	83.6	104	104
	Sulphide	mg/L	0.002	<0.002	<0.002	0.0047	0.0056	<0.002	<0.002	<0.002	0.0029	0.0032	0.0032
	Hardness as CaCO3	mg/L		172 - 176	174	185	190	187	169	176	186	222	222
	TDS	mg/L		230 - 232	231	244	235	234	219	227	237	293	293
Cyanides	Cyanide Total	mg/L	0.002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Metals	Aluminum (Filtered)	mg/L	0.001	0.0102 - 0.011	0.0112	0.0149	0.0153	0.0091	0.0112	0.011	0.013	0.0127	0.0127
	Antimony (Filtered)	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	Arsenic (Filtered)	mg/L	0.0001	0.00011 - 0.00012	0.00013	0.00012	0.00012	0.00011	0.00016	<0.00035	0.00042	0.00016	0.00016
	Barium (Filtered)	mg/L	0.00005	0.056 - 0.0563	0.0539	0.0517	0.0531	0.0531	0.0563	0.0544	0.0563	0.0563	0.0563
	Beryllium (Filtered)	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	Bismuth (Filtered)	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
	Boron (hot water ext) (Filtered)	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Cadmium (Filtered)	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
	Calcium (Filtered)	mg/L	0.02	45.2 - 47.1	45.6	49.8	50.4	50.3	45.3	47.8	47.7	59.3	59.3
	Chromium (III+VI) (Filtered)	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	Cobalt (Filtered)	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	Copper (Filtered)	mg/L	0.0001	<0.0001 - 0.00012	0.00012	0.00017	0.00011	0.00017	0.00011	<0.00012	0.0001	0.00015	0.00015
	Iron (Filtered)	mg/L	0.01	<0.01	<0.01	0.013	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Lead (Filtered)	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
	Lithium (Filtered)	mg/L	0.003	<0.003	<0.003	0.0034	<0.003	0.0033	0.003	0.0032	0.0033	0.0033	0.0042
	Magnesium (Filtered)	mg/L	0.005	14.2 - 14.3	14.7	14.8	15.6	14.9	13.5	13.8	16.2	18	18
	Manganese (Filtered)	mg/L	0.00005	0.0123 - 0.0124	0.0134	0.014	0.0113	0.00618	0.00797	0.00913	0.0158	0.0119	0.0119
	Molybdenum (Filtered)	mg/L	0.00005	0.000938 - 0.000957	0.000922	0.00105	0.00103	0.00101	0.000699	0.000911	0.00102	0.00126	0.00126
	Nickel (Filtered)	mg/L	0.0001	0.00024 - 0.00025	0.00028	0.00032	0.00029	0.00028	0.00031	0.00026	0.00032	0.00033	0.00033
	Phosphorus (Filtered)	mg/L	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
	Potassium (Filtered)	mg/L	0.05	0.677 - 0.681	0.643	0.736	0.657	0.674	0.61	0.74	0.842	1.02	1.02
	Selenium (Filtered)	mg/L	0.0001	0.00035	0.00034	0.00034	0.00037	0.00031	0.00034	<0.0003	0.00036	0.00048	0.00048
	Silicon (Filtered)	µg/L	50	1800 - 1820	1730	1850	1670	1770	1750	1840	1810	2010	2010
	Silver (Filtered)	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
	Sodium (Filtered)	mg/L	0.05	8.88 - 8.9	8.34	11.2	9.13	8.41	7.9	9.8	11	14.8	14.8
	Strontium (Filtered)	mg/L	0.0001	0.555 - 0.567	0.518	0.535	0.544	0.554	0.536	0.56	0.552	0.699	0.699
	Thallium (Filtered)	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
	Tin (Filtered)	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	Titanium (Filtered)	mg/L	0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
	Uranium (Filtered)	µg/L	0.01	0.602 - 0.603	0.613	0.599	0.549	0.616	0.579	0.669	0.669	0.725	0.725
	Vanadium (Filtered)	mg/L	0.0001	<0.0001 - 0.0001	0.00011	0.00013	0.0001	0.00011	0.00013	<0.0001	0.00016	0.00016	0.00016
	Zinc (Filtered)	mg/L	0.001	0.0014 - 0.0018	<0.001	0.0023	<0.001	<0.001	<0.001	<0.001	0.0028	<0.001	<0.001
	Field	Turbidity	NTU		-	-	-	-	-	-	-	-	-
Organic / Inorganic Carbon	Carbon	mg/L	1	2 - 2.1	1.9	2.6	2.3	2.2	2.4	2.9	3.3	3.7	
	Dissolved Organic Carbon (Filtered)	mg/L	1	2.1	2	2.7	2.6	2.2	2.3	2.9	3.2	3.6	
Organic Parameters	Acrylamide	µg/L	5	-	-	-	-	-	-	-	-	-	
	Naphthenic Acid	mg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Physical Tests	Dissolved Oxygen (lab) (Filtered)	mg/L	0.5	-	-	-	-	-	-	-	-	-	
	Dissolved Oxygen (Filtered)	mg/L	0.5	-	-	-	-	-	-	-	-	-	
	TDS (Filtered)	mg/L	10	246 - 247	245	245	227	237	232	246	255	298	
	Total Suspended Solids	mg/L	3	4 - 5	7	6	8	3	24	8	4	<3	
	Turbidity	NTU	0.1	5.2 - 5.47	3.95	3.71	8.77	8.79	16.7	7.72	6.8	2.85	
Polycyclic Aromatic Hydrocarbons	Benzo[a]fluoranthene	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
	C4 Benzanthracenes/Chrysenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	C4 Dibenzothiophenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	C4 Fluoranthenes/Pyrenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	C4 Naphthalenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	C4 Phenanthrenes/Anthracenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	1,1-Biphenyl	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	

Notes
MDL - Method Detection Limit
- "Sample not analyzed for this parameter"
< - "result is less than the MDL. No detectable concentration was measured"
* EPA 245.7/245.1

OBED MOUNTAIN MINE
TABLE 5 ATHABASCA RIVER 14.5 KM UPSTREAM OF PLANTE CREEK (ATR-US)

Method Type	Chemical	Unit	MDL	Location	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US
				Date	10-Nov-13	11-Nov-13	12-Nov-13	13-Nov-13	14-Nov-13	15-Nov-13	16-Nov-13	17-Nov-13	21-Nov-13
Organic	1-Methylnaphthalene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	2-methylnaphthalene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Acenaphthene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Acenaphthylene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Anthracene	µg/L	0.01	<0.04	<0.04	<0.04	<0.04	<0.039	<0.04	<0.04	<0.04	<0.04	<0.04
	Benz(a)anthracene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Benzo(a) pyrene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Acridine	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
	Benzo(e)pyrene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Benzo(g,h,i)perylene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Benzo(k)fluoranthene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	C1 Acenaphthenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	C1 Benz(a)Anthracenes/Chrysenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	C1 Benzofluoranthenes/Benzopyrenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	Chrysene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	C1 Biphenyls	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	C1 Dibenzothiophenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	C1 Fluoranthenes/Pyrenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	C1 Fluorenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	C1 Phenanthrenes/Anthracenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	Dibenz(a,h)anthracene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Dibenzothiophene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Fluoranthene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Fluorene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Indeno(1,2,3-c,d)pyrene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Naphthalene	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Perylene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Phenanthrene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Pyrene	µg/L	0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	Quinoline	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Retene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	C2 Benz(a)Anthracenes/Chrysenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	C2 Benzofluoranthenes/Benzopyrenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	C2 Biphenyls	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	C2 Dibenzothiophenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	C2 Fluoranthenes/Pyrenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	C2 Naphthalenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	C2 Phenanthrenes/Anthracenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	C2 Fluorenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	C3 Benzanthracenes/Chrysenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	C3 Dibenzothiophenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	C3 Fluoranthenes/Pyrenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	C3 Fluorenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	C3 Naphthalenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	C3 Phenanthrenes/Anthracenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Speciated Metals	Chromium (hexavalent)	mg/L	0.001	-	-	-	-	-	-	-	-	-	-
Total Metals	Aluminum	mg/L	0.003	0.119 - 0.138	0.15	0.0922	0.124	0.133	0.242	0.19	0.153	0.087	0.087
	Antimony	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	Arsenic	mg/L	0.0001	0.00015	0.00018	0.00016	0.00076	0.00084	0.00027	0.00017	0.00024	0.00017	0.00017
	Barium	mg/L	0.00005	0.0559 - 0.0568	0.0577	0.0541	0.0574	0.0575	0.0606	0.0593	0.0609	0.062	0.062
	Beryllium	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	Bismuth	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
	Boron (hot water ext)	mg/L	0.01	<0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
	Cadmium	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000011	<0.00001	<0.00001	<0.00001	<0.00001
	Calcium	mg/L	0.02	52.7 - 52.9	51.5	54.6	48	52.5	51.8	49.5	46.9	60.4	60.4
	Chromium (III+VI)	mg/L	0.0001	0.00021 - 0.00022	0.00025	0.00018	0.00025	0.00024	0.00036	0.00028	0.00023	0.00018	0.00018
	Cobalt	mg/L	0.0001	<0.0001 - 0.0001	0.00011	<0.0001	0.00014	0.00014	0.00023	0.00014	0.00012	<0.0001	<0.0001
	Copper	mg/L	0.0001	0.00028 - 0.00031	0.00029	0.00044	0.00044	0.00053	0.00062	0.0006	0.00042	0.00043	0.00043
	Iron	mg/L	0.01	0.135 - 0.152	0.189	0.109	0.246	0.229	0.463	0.247	0.173	0.081	0.081
	Lead	mg/L	0.00005	0.000116 - 0.000123	0.000133	0.000109	0.000189	0.000165	0.000337	0.000196	0.000166	0.000103	0.000103
	Lithium	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Magnesium	mg/L	0.005	15.2 - 15.5	15.9	15.3	15	14.5	14.4	16.5	19.3	19.3	19.3
	Manganese	mg/L	0.00005	0.0165 - 0.0167	0.018	0.0168	0.0203	0.0167	0.0247	0.0167	0.0219	0.0158	0.0158
	Mercury	µg/L	0.0005	0.00064	0.00054	0.00053	<0.0005	0.00056	0.00109	0.00067	0.00058	<0.0005	<0.0005
	Molybdenum	mg/L	0.00005	0.00107 - 0.00108	0.00109	0.00109	0.000953	0.00103	0.00106	0.00102	0.00105	0.00141	0.00141
	Nickel	mg/L	0.0001	0.00036 - 0.00037	0.00043	0.00036	0.00036	0.0005	0.00079	0.0005	0.00047	0.00049	0.00049
	Phosphorus	mg/L	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
	Potassium	mg/L	0.05	0.73 - 0.748	0.738	0.748	0.717	0.695	0.783	0.861	0.893	1.59	1.59
	Selenium	mg/L	0.0001	0.00033 - 0.00034	0.00034	0.00034	0.00033	0.00035	0.00033	0.00033	0.00038	0.00048	0.00048
	Silicon	µg/L	50	1920 - 1930	1840	1910	1750	1750	2220	2330	2180	2180	2180
	Silver	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000084
	Sodium	mg/L	0.05	9.03 - 9.19	9.57	11.4	9.69	8.54	8.35	10.1	11.2	16.2	16.2
	Strontium	mg/L	0.0001	0.594 - 0.615	0.577	0.594	0.494	0.616	0.574	0.59	0.53	0.662	0.662

Notes
MDL - Method Detection Limit
- "Sample not analyzed for this parameter"
< - "result is less than the MDL. No detectable concentration was measured"
* EPA 245.7/245.1

OBED MOUNTAIN MINE
TABLE 5 ATHABASCA RIVER 14.5 KM UPSTREAM OF PLANTE CREEK (ATR-US)

Method Type	Chemical	Unit	MDL	Location	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US	ATR-US
				Date	10-Nov-13	11-Nov-13	12-Nov-13	13-Nov-13	14-Nov-13	15-Nov-13	16-Nov-13	17-Nov-13	21-Nov-13
	Thallium	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
	Tin	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	Titanium	mg/L	0.0003	0.0019 - 0.00275	0.00286	0.00175	0.001	0.00136	0.00216	0.00187	0.00305	0.00098	0.00098
	Uranium	µg/L	0.01	0.638 - 0.643	0.594	0.622	0.577	0.558	0.626	0.655	0.713	0.765	0.765
	Vanadium	mg/L	0.0001	0.00036 - 0.00041	0.00041	0.00046	0.00042	0.00041	0.00078	0.00046	0.00052	0.00036	0.00036
	Zinc	mg/L	0.003	<0.003 - 0.0198	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Volatile Organic Compounds	1,1,1-trichloroethane	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	1,1,2,2-tetrachloroethane	µg/L	20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	1,1,2-trichloroethane	µg/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
	1,1-dichloroethane	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	1,1-dichloroethene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	1,2,3-trichloropropane	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	1,2-dibromoethane	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	1,2-dichlorobenzene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	1,2-dichloroethane	µg/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
	1,2-dichloropropane	µg/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
	1,3-dichlorobenzene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	1,4-dichlorobenzene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Methyl Ethyl Ketone	µg/L	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	2-hexanone (MBK)	µg/L	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	4-Methyl-2-pentanone	µg/L	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Acetone	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Acrolein	µg/L	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	Acrylonitrile	µg/L	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	Benzene	mg/L	0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Toluene	mg/L	0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Bromodichloromethane	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Bromoform	µg/L	3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
	Bromomethane	µg/L	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Carbon disulfide	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Carbon tetrachloride	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Chlorobenzene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Chlorodibromomethane	µg/L	3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
	Chloroethane	µg/L	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Chloroform	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Chloromethane	µg/L	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	cis-1,2-dichloroethene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	cis-1,3-dichloropropene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	cis-1,4-Dichloro-2-butene	µg/L	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Dibromomethane	µg/L	3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
	Dichlorodifluoromethane	µg/L	3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
	Dichloromethane	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Ethanol	µg/L	300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
	Ethyl methacrylate	µg/L	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Ethylbenzene	mg/L	0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Xylene (m & p)	mg/L	0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Xylene (o)	mg/L	0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Xylenes Total	µg/L	0.71	-	-	-	-	-	-	-	-	-	-	
Iodomethane	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Styrene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Trichloroethene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Tetrachloroethene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
trans-1,2-dichloroethene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
trans-1,3-dichloropropene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
trans-1,4-Dichloro-2-butene	µg/L	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
Trichlorofluoromethane	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Vinyl acetate	µg/L	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	
Vinyl chloride	µg/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	

Notes
MDL - Method Detection Limit
- "Sample not analyzed for this parameter"
< - "result is less than the MDL. No detectable concentration was measured"
* EPA 245.7/245.1

OBED MOUNTAIN MINE
TABLE 5 ATHABASCA RIVER 14.5 KM UPSTREAM OF PLANTE CREEK (ATR-US)

			Location	ATR-US	ATR-US	ATR-US	ATR-US
			Date	22-Nov-13	24-Nov-13	25-Nov-13	26-Nov-13
Method Type	Chemical	Unit	MDL				
Aggregate Organics	Hydrocarbons, Recoverable (I.R.)	mg/L	1	<1	<1	<1	<1
	BOD	mg/L	2	<2	<2	<2	<2
	Oil and Grease	mg/L	1	-	-	-	-
	Phenols (4AAP)	µg/L	1	3.6	<1	1.4	1.2
Anions and Nutrients	Alkalinity (T) as CaCO3	mg/L	2	151	138	131	128
	Ammonia	mg/L	0.05	0.091	0.061	0.06	<0.05
	Bicarbonate	mg/L	5	184	168	160	157
	Carbonate	mg/L	5	<5	<5	<5	<5
	Chloride	mg/L	0.5	5.22	3.89	3.55	3.8
	Electrical Conductivity (lab)	µS/cm	0.0002	0.497	0.45	0.433	0.423
	Hydroxide	mg/L	5	<5	<5	<5	<5
	Ionic Balance	%		98	96.1	95.8	98.9
	Kjeldahl Nitrogen Total	mg/L	0.05	<0.2	<0.2	<0.2	<0.2
	Nitrate (as N)	mg/L	0.05	0.064	0.077	0.057	0.077
	Nitrate + Nitrite-N	mg/L	0.07	<0.071	0.077	<0.071	0.077
	Nitrite (as N)	mg/L	0.05	<0.05	<0.05	<0.05	<0.05
	pH (Lab)	pH	0.1	7.99	8.02	8.03	7.93
	Phosphorus	mg/L	0.001	0.0232	0.0159	0.0153	0.0138
	Phosphorus (Filtered)	mg/L	0.001	0.0014	<0.001	0.0018	0.0016
	Sulphate	mg/L	0.5	98.4	95.1	89.3	87
	Sulphide	mg/L	0.002	0.0077	<0.002	<0.002	<0.002
	Hardness as CaCO3	mg/L		221	208	198	200
	TDS	mg/L		288	266	251	248
Cyanides	Cyanide Total	mg/L	0.002	<0.005	<0.005	<0.005	<0.005
Dissolved Metals	Aluminium (Filtered)	mg/L	0.001	0.0133	0.009	0.0089	0.0085
	Antimony (Filtered)	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	Arsenic (Filtered)	mg/L	0.0001	0.00014	0.00014	0.00012	0.00101
	Barium (Filtered)	mg/L	0.00005	0.0667	0.0634	0.0614	0.0564
	Beryllium (Filtered)	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	Bismuth (Filtered)	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005
	Boron (hot water ext) (Filtered)	mg/L	0.01	0.011	<0.01	<0.01	<0.01
	Cadmium (Filtered)	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001
	Calcium (Filtered)	mg/L	0.02	60.1	54.8	53.9	53.1
	Chromium (III+VI) (Filtered)	mg/L	0.0001	<0.0001	<0.0001	<0.0001	0.00012
	Cobalt (Filtered)	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	Copper (Filtered)	mg/L	0.0001	0.00021	0.00016	<0.0001	0.00014
	Iron (Filtered)	mg/L	0.01	<0.01	<0.01	<0.01	<0.01
	Lead (Filtered)	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005
	Lithium (Filtered)	mg/L	0.003	0.0041	0.0037	0.0039	0.0038
	Magnesium (Filtered)	mg/L	0.005	17.3	17.3	15.3	16.3
	Manganese (Filtered)	mg/L	0.00005	0.0123	0.0105	0.0106	0.00877
	Molybdenum (Filtered)	mg/L	0.00005	0.00131	0.00101	0.00112	0.00103
	Nickel (Filtered)	mg/L	0.0001	0.0003	0.0003	0.00029	0.00028
	Phosphorus (Filtered)	mg/L	0.3	<0.3	<0.3	<0.3	<0.3
	Potassium (Filtered)	mg/L	0.05	1.07	0.84	0.78	0.7
	Selenium (Filtered)	mg/L	0.0001	0.00044	0.00044	0.00036	0.00037
	Silicon (Filtered)	µg/L	50	2050	2010	1990	2080
	Silver (Filtered)	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001
	Sodium (Filtered)	mg/L	0.05	15.1	10.9	9.6	10.1
	Strontium (Filtered)	mg/L	0.0001	0.673	0.642	0.667	0.595
	Thallium (Filtered)	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005
	Tin (Filtered)	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	Titanium (Filtered)	mg/L	0.0003	<0.0003	<0.0003	<0.0003	<0.0003
	Uranium (Filtered)	µg/L	0.01	0.753	0.644	0.666	0.652
	Vanadium (Filtered)	mg/L	0.0001	0.00015	0.00013	0.0001	<0.0001
	Zinc (Filtered)	mg/L	0.001	0.0012	<0.001	0.001	<0.001
	Field	Turbidity	NTU		-	-	-
Organic / Inorganic Carbon	Carbon	mg/L	1	3.8	1.9	2.2	2.2
	Dissolved Organic Carbon (Filtered)	mg/L	1	3.8	1.9	1.8	2.5
Organic Parameters	Acrylamide	µg/L	5	-	-	-	-
	Naphthenic Acid	mg/L	1	<1	<1	<1	<1
Physical Tests	Dissolved Oxygen (lab) (Filtered)	mg/L	0.5	-	-	-	-
	Dissolved Oxygen (Filtered)	mg/L	0.5	-	-	-	-
	TDS (Filtered)	mg/L	10	310	267	260	252
	Total Suspended Solids	mg/L	3	<3	<3	<3	<3
	Turbidity	NTU	0.1	3.19	3.85	4.21	4.17
Polycyclic Aromatic Hydrocarbons	Benzo[b]fluoranthene	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001
	C4 Benzanthracenes/Chrysenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04
	C4 Dibenzothiophenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04
	C4 Fluoranthenes/Pyrenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04
	C4 Naphthalenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04
	C4 Phenanthrenes/Anthracenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04
	1,1-Biphenyl	µg/L	0.01	<0.01	<0.01	<0.01	<0.01

Notes
MDL - Method Detection Limit
- "Sample not analyzed for this parameter"
< - "result is less than the MDL. No detectable concentration was measured"
* EPA 245.7/245.1

OBED MOUNTAIN MINE
TABLE 5 ATHABASCA RIVER 14.5 KM UPSTREAM OF PLANTE CREEK (ATR-US)

			Location	ATR-US	ATR-US	ATR-US	ATR-US
			Date	22-Nov-13	24-Nov-13	25-Nov-13	26-Nov-13
Method Type	Chemical	Unit	MDL				
	1-Methylnaphthalene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01
	2-methylnaphthalene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01
	Acenaphthene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01
	Acenaphthylene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01
	Anthracene	µg/L	0.01	<0.04	<0.023	<0.027	<0.04
	Benz(a)anthracene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01
	Benzo(a) pyrene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01
	Acridine	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001
	Benzo(e)pyrene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01
	Benzo(g,h,i)perylene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01
	Benzo(k)fluoranthene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01
	C1 Acenaphthenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04
	C1 Benz(a)Anthracenes/Chrysenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04
	C1 Benzofluoranthenes/Benzopyrenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04
	Chrysene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01
	C1 Biphenyls	µg/L	0.04	<0.04	<0.04	<0.04	<0.04
	C1 Dibenzothiophenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04
	C1 Fluoranthenes/Pyrenes	µg/L	0.04	-	-	-	-
	C1 Fluorenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04
	C1 Phenanthrenes/Anthracenes	µg/L	0.04	-	-	-	-
	Dibenz(a,h)anthracene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01
	Dibenzothiophene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01
	Fluoranthene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01
	Fluorene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01
	Indeno(1,2,3-c,d)pyrene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01
	Naphthalene	µg/L	0.05	<0.05	<0.05	<0.05	<0.05
	Perylene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01
	Phenanthrene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01
	Pyrene	µg/L	0.01	<0.04	<0.01	<0.01	<0.04
	Quinoline	µg/L	0.01	<0.01	<0.01	<0.01	<0.01
	Retene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01
	C2 Benz(a)Anthracenes/Chrysenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04
	C2 Benzofluoranthenes/Benzopyrenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04
	C2 Biphenyls	µg/L	0.04	<0.04	<0.04	<0.04	<0.04
	C2 Dibenzothiophenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04
	C2 Fluoranthenes/Pyrenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04
	C2 Naphthalenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04
	C2 Phenanthrenes/Anthracenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04
	C2 Fluorenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04
	C3 Benzanthracenes/Chrysenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04
	C3 Dibenzothiophenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04
	C3 Fluoranthenes/Pyrenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04
	C3 Fluorenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04
	C3 Naphthalenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04
	C3 Phenanthrenes/Anthracenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04
Speciated Metals	Chromium (hexavalent)	mg/L	0.001	-	-	-	-
Total Metals	Aluminum	mg/L	0.003	0.0951	0.11	0.116	0.128
	Antimony	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	Arsenic	mg/L	0.0001	0.00018	0.00014	0.00018	0.00015
	Barium	mg/L	0.00005	0.0726	0.0622	0.0592	0.0569
	Beryllium	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	Bismuth	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005
	Boron (hot water ext)	mg/L	0.01	0.011	<0.01	<0.01	<0.01
	Cadmium	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001
	Calcium	mg/L	0.02	60.8	60.4	56.4	50.8
	Chromium (III+VI)	mg/L	0.0001	0.00018	0.00028	0.00021	0.00023
	Cobalt	mg/L	0.0001	0.00011	<0.0001	<0.0001	<0.0001
	Copper	mg/L	0.0001	0.00033	0.00034	0.00055	0.0005
	Iron	mg/L	0.01	0.099	0.111	0.131	0.139
	Lead	mg/L	0.00005	0.000101	0.000091	0.000109	0.000124
	Lithium	mg/L	0.005	<0.005	<0.005	<0.005	<0.005
	Magnesium	mg/L	0.005	17.9	16.8	16.6	15.3
	Manganese	mg/L	0.00005	0.0158	0.014	0.0151	0.0124
	Mercury	µg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	Molybdenum	mg/L	0.00005	0.00137	0.00133	0.00122	0.00108
	Nickel	mg/L	0.0001	0.00043	0.00044	0.0004	0.00047
	Phosphorus	mg/L	0.3	<0.3	<0.3	<0.3	<0.3
	Potassium	mg/L	0.05	1.13	0.866	0.791	0.844
	Selenium	mg/L	0.0001	0.00045	0.00043	0.00039	0.00038
	Silicon	µg/L	50	2140	2160	2370	2180
	Silver	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001
	Sodium	mg/L	0.05	15.8	10.3	10.2	9.69
	Strontium	mg/L	0.0001	0.692	0.716	0.636	0.585

Notes
MDL - Method Detection Limit
- "Sample not analyzed for this parameter"
< - "result is less than the MDL. No detectable concentration was measured"
* EPA 245.7/245.1

OBED MOUNTAIN MINE
TABLE 5 ATHABASCA RIVER 14.5 KM UPSTREAM OF PLANTE CREEK (ATR-US)

		Location	ATR-US	ATR-US	ATR-US	ATR-US
		Date	22-Nov-13	24-Nov-13	25-Nov-13	26-Nov-13
Method Type	Chemical	Unit	MDL			
	Thallium	mg/L	0.00005	<0.00005	<0.00005	<0.00005
	Tin	mg/L	0.0001	<0.0001	<0.0001	<0.0001
	Titanium	mg/L	0.0003	0.00244	0.00567	0.00274
	Uranium	µg/L	0.01	0.772	0.691	0.701
	Vanadium	mg/L	0.0001	0.00039	0.0004	0.00058
	Zinc	mg/L	0.003	<0.003	<0.003	<0.003
Volatile Organic Compounds	1,1,1-trichloroethane	µg/L	1	<1	<1	<1
	1,1,2,2-tetrachloroethane	µg/L	20	<20	<20	<20
	1,1,2-trichloroethane	µg/L	2	<2	<2	<2
	1,1-dichloroethane	µg/L	1	<1	<1	<1
	1,1-dichloroethene	µg/L	1	<1	<1	<1
	1,2,3-trichloropropane	µg/L	5	<5	<5	<5
	1,2-dibromoethane	µg/L	1	<1	<1	<1
	1,2-dichlorobenzene	µg/L	1	<1	<1	<1
	1,2-dichloroethane	µg/L	2	<2	<2	<2
	1,2-dichloropropane	µg/L	2	<2	<2	<2
	1,3-dichlorobenzene	µg/L	1	<1	<1	<1
	1,4-dichlorobenzene	µg/L	1	<1	<1	<1
	Methyl Ethyl Ketone	µg/L	100	<100	<100	<100
	2-hexanone (MBK)	µg/L	10	<10	<10	<10
	4-Methyl-2-pentanone	µg/L	10	<10	<10	<10
	Acetone	mg/L	0.1	<0.1	<0.1	<0.1
	Acrolein	µg/L	100	<100	<100	<100
	Acrylonitrile	µg/L	100	<100	<100	<100
	Benzene	mg/L	0.0005	<0.001	<0.001	<0.001
	Toluene	mg/L	0.0005	<0.001	<0.001	<0.001
	Bromodichloromethane	µg/L	1	<1	<1	<1
	Bromoform	µg/L	3	<3	<3	<3
	Bromomethane	µg/L	10	<10	<10	<10
	Carbon disulfide	µg/L	1	<1	<1	<1
	Carbon tetrachloride	µg/L	1	<1	<1	<1
	Chlorobenzene	µg/L	1	<1	<1	<1
	Chlorodibromomethane	µg/L	3	<3	<3	<3
	Chloroethane	µg/L	10	<10	<10	<10
	Chloroform	µg/L	1	<1	<1	<1
	Chloromethane	µg/L	10	<10	<10	<10
	cis-1,2-dichloroethene	µg/L	1	<1	<1	<1
	cis-1,3-dichloropropene	µg/L	1	<1	<1	<1
	cis-1,4-Dichloro-2-butene	µg/L	10	<10	<10	<10
	Dibromomethane	µg/L	3	<3	<3	<3
	Dichlorodifluoromethane	µg/L	3	<3	<3	<3
	Dichloromethane	µg/L	1	<1	<1	<1
	Ethanol	µg/L	300	<300	<300	<300
	Ethyl methacrylate	µg/L	10	<10	<10	<10
	Ethylbenzene	mg/L	0.0005	<0.001	<0.001	<0.001
	Xylene (m & p)	mg/L	0.0005	<0.001	<0.001	<0.001
	Xylene (o)	mg/L	0.0005	<0.001	<0.001	<0.001
	Xylenes Total	µg/L	0.71	-	-	-
	Iodomethane	µg/L	1	<1	<1	<1
	Styrene	µg/L	1	<1	<1	<1
	Trichloroethene	µg/L	1	<1	<1	<1
Tetrachloroethene	µg/L	1	<1	<1	<1	
trans-1,2-dichloroethene	µg/L	1	<1	<1	<1	
trans-1,3-dichloropropene	µg/L	1	<1	<1	<1	
trans-1,4-Dichloro-2-butene	µg/L	10	<10	<10	<10	
Trichlorofluoromethane	µg/L	1	<1	<1	<1	
Vinyl acetate	µg/L	100	<100	<100	<100	
Vinyl chloride	µg/L	2	<2	<2	<2	

Notes
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