

Obed Mountain Mine
Water Quality
August 2014

			Aggregate Organic																				Anions and Nutrients													
Location	Date	Sample Type	Hydrocarbons, Recoverable (I.R.)	BOD	Phenols (4AAP)	Alkalinity (T) as CaCO3	Ammonia	Bicarbonate	Carbonate	Chloride, Soluble	Electrical Conductivity (lab)	Hydroxide	Ionic Balance	Kjeldahl Nitrogen Total	Nitrate (as N)	Nitrate + Nitrite-N	Nitrite (as N)	pH (Lab)	Phosphorus	Phosphorus (Filtered)	Sulfur (as Sulfate), Soluble	Sulfate as S	Sulphide	Hardness as CaCO3	Total Dissolved Solids	Aluminium (Filtered)	Antimony (Filtered)	Arsenic (Filtered)	Barium (Filtered)							
			mg/L	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mS/cm	mg/L	%	mg/L	mg/L	mg/L	mg/L	pH	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L					
MDL			1	2	1	2	0.05	5	5	0.1	0.0002	5		0.2	0.05	0.05	0.02	0.1	0.001	0.001	0.5	0.5	0.0015			0.001	0.0001	0.0001	0.00005							
Blanks	05-Aug-14	Field Blank	<1	<2	<1	<2	<0.05	<5	<5	<0.5	0.00113	<5	-	<0.2	<0.05	<0.054	<0.02	5.61	<0.001	<0.001	-	<0.5	<0.0015	<1	<1	<0.001	<0.0001	<0.0001	<0.00005							
	19-Aug-14	Trip Blank	-	<2	<1	<2	<0.05	<5	<5	<0.5	0.00145	<5	-	<0.2	<0.05	<0.054	<0.02	5.14	<0.001	<0.001	-	<0.5	<0.0015	<1	<1	<0.001	<0.0001	<0.0001	0.000095							
APC	05-Aug-14	Normal	<1	<2	1.4	286	<0.05	328	10.7	1.84	0.693	<5	96.6	<0.2	<0.05	<0.054	<0.02	8.5	0.0048	0.0019	-	91.5	<0.0015	245	408	0.0052	<0.0001	0.0004	0.124							
	08-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0051	<0.0001	0.00046	0.0977						
	11-Aug-14	Normal	<1	<2	<1	291	<0.05	347	<5	1.44	0.768	<5	105	<0.2	<0.05	<0.054	<0.02	8.37	0.0075	0.0048	-	121	<0.0015	254	465	-	-	-	-							
	13-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0096	0.00011	0.00048	0.115							
	19-Aug-14	Normal	<1	<2	<1	293	<0.05	354	<5	1.42	0.781	<5	103	<0.2	<0.05	<0.054	<0.02	8.32	0.0066	0.0033	-	128	<0.0015	254	475	0.004	<0.0001	0.00047	0.106							
	21-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0236	<0.0001	0.00051	0.115							
	26-Aug-14	Normal	<1	<2	<1	307	<0.05	357	8.8	1.55	0.816	<5	105	<0.2	<0.05	<0.054	<0.02	8.48	0.0033	0.0025	-	136	<0.0015	272	506	0.0029	<0.0001	0.00042	0.107							
	29-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0032	<0.0001	0.00047	0.105							
ATR HWY43BR	28-Aug-14	Normal	1.6	<2	<1	108	<0.05	119	6.2	1.11	0.254	<5	89	<0.2	<0.05	<0.054	<0.02	8.38	0.0145	0.0031	36.7	-	<0.0015	123	150	0.0127	<0.0001	0.00016	0.0451							
ATR-AT1	14-Aug-14	Normal	<1	<2	<1	98.1	<0.05	120	<5	1.12	0.243	<5	103	<0.2	<0.05	<0.054	<0.02	8.27	0.0158	0.0022	-	22.7	<0.0015	113	130	0.0072	<0.0001	0.00043	0.0507							
ATR-CON	08-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0224	<0.0001	<0.0001	0.029							
	19-Aug-14	Normal	<1	<2	<1	82.4	<0.05	101	<5	<0.5	0.221	<5	101	<0.2	<0.05	<0.054	<0.02	8.02	0.047	0.0043	-	27.5	<0.0015	108	117	0.025	<0.0001	<0.0001	0.0282							
	21-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.266	<0.0001	0.00017	0.0369							
	26-Aug-14	Normal	<1	<2	<1	88.5	<0.05	108	<5	1.03	0.255	<5	104	<0.2	<0.05	<0.054	<0.02	8.17	0.027	0.0052	-	36.2	<0.0015	126	138	0.0218	<0.0001	0.00011	0.0377							
ATR-D1	05-Aug-14	Normal	<1	<2	4.4	79.9	<0.05	97.4	<5	0.52	0.22	<5	96.8	<0.2	<0.05	<0.054	<0.02	8.19	0.023	0.0014	-	28	<0.0015	102	114	0.0208	<0.0001	<0.0001	0.0312							
	08-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.024	<0.0001	<0.0001	0.0302							
	11-Aug-14	Normal	<1	<2	1.7	82.8	<0.05	101	<5	0.65	0.231	<5	98.6	<0.2	<0.05	<0.054	<0.02	8.21	0.0156	0.0023	-	30.2	<0.0015	109	121	-	-	-	-							
	13-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0233	<0.0001	<0.0001	0.0354							
	19-Aug-14	Normal	<1	<2	<1	81.2	<0.05	99	<5	<0.5	0.221	<5	102	<0.2	<0.05	<0.054	<0.02	7.98	0.058	0.0035	-	27.7	<0.0015	108	116	0.0351	<0.0001	<0.0001	0.0297							
	21-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.285	<0.0001	0.00016	0.0396							
	26-Aug-14	Normal	<1	<2	<1	86.1	<0.05	105	<5	1.02	0.251	<5	103	<0.2	<0.05	<0.054	<0.02	8.14	0.023	0.0048	-	36	<0.0015	123	135	0.019	<0.0001	<0.0001	0.0363							
	29-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0212	<0.0001	0.0001	0.036							
ATR-D2	05-Aug-14	Normal	<1	<2	3.8	79.7	<0.05	97.2	<5	<0.5	0.217	<5	100	<0.2	<0.05	<0.054	<0.02	8.15	0.0263	0.0011	-	27.6	<0.0015	105	114	0.0506	<0.0001	0.0001	0.0314							
	08-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0256	<0.0001	<0.0001	0.0293							
	11-Aug-14	Normal	<1	<2	<1	82.6	<0.05	101	<5	0.62	0.229	<5	101	<0.2	<0.05	<0.054	<0.02	8.17	0.0184	0.0089	-	29.4	<0.0015	111	121	-	-	-	-							
	13-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0189	<0.0001	<0.0001	0.0351							
	19-Aug-14	Normal	<1	<2	<1	81.5	<0.05	99.4	<5	<0.5	0.219	<5	103	<0.2	<0.05	<0.054	<0.02	7.99	0.0691	0.0035	-	27.6	<0.0015	109	117	0.039	<0.0001	<0.0001	0.0288							
	21-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0455	<0.0001	<0.0001	0.0293							
	26-Aug-14	Normal	<1	<2	<1	86.6	<0.05	106	<5	1.02	0.25	<5	103	<0.2	<0.05	<0.054	<0.02	8.14	0.0191	0.0036	-	35.6	<0.0015	123	135	0.0169	<0.0001	<0.0001	0.0356							
	29-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0166	<0.0001	0.00012	0.0364							

Obed Mountain Mine
Water Quality
August 2014

Total Metals																				
			Magnesium, Soluble	Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silicon	Silver	Sodium, Soluble	Strontium	Thallium	Tin	Titanium	Uranium	Vanadium	Zinc
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MDL			0.005	0.00005	5.0E-7	0.00005	0.0001	0.3	0.05	0.0001	0.05	0.00001	0.05	0.0001	0.00001	0.0001	0.0003	0.00001	0.0001	0.003
Location	Date	Sample Type																		
Blanks	05-Aug-14	Field Blank	<0.005	<0.00005	<5.0E-7	<0.00005	<0.0001	<0.3	<0.05	<0.0001	<0.05	<0.00001	<0.05	0.643	<0.00001	<0.0001	<0.0003	<0.00001	<0.0001	<0.003
	19-Aug-14	Trip Blank	<0.005	<0.00005	<5.0E-7	<0.00005	<0.0001	<0.3	<0.05	<0.0001	<0.05	<0.00001	<0.05	<0.00001	<0.00001	<0.0001	<0.0003	<0.00001	<0.0001	<0.003
APC	05-Aug-14	Normal	20.3	0.109	5.5E-7	0.00159	0.00074	<0.3	1.77	0.00025	3.83	<0.00001	55.7	0.68	<0.00001	<0.0001	0.00067	0.00243	0.00077	<0.003
	08-Aug-14	Normal	24.3	0.113	-	0.00183	0.00128	<0.3	2.17	0.00031	4.07	<0.00001	82	0.784	0.000011	<0.0001	0.00559	0.0031	0.00109	<0.003
	11-Aug-14	Normal	25.3	0.0879	7.1E-7	0.00195	0.00077	<0.3	2.19	0.00039	3.67	<0.00001	81.1	0.773	<0.00001	<0.0001	0.00061	0.00345	0.00041	<0.003
	13-Aug-14	Normal	25.3	0.0808	-	0.00184	0.00069	<0.3	2.26	0.00039	3.57	<0.00001	79.8	0.77	<0.00001	<0.0001	0.00102	0.00337	0.00055	<0.003
	19-Aug-14	Normal	23.7	0.0828	7.6E-7	0.00202	0.00622	<0.3	2.37	0.00044	3.84	<0.00001	74.5	0.79	<0.00001	<0.0001	0.00096	0.00303	0.00052	0.0128
	21-Aug-14	Normal	26.9	0.0913	-	0.00186	0.00065	<0.3	2.41	0.00042	3.95	<0.00001	82.3	0.761	<0.00001	<0.0001	0.00116	0.00294	0.00033	<0.003
	26-Aug-14	Normal	28.1	0.0757	5.7E-7	0.00181	0.00068	<0.3	2.51	0.00035	3.7	<0.00001	88.8	0.798	<0.00001	<0.0001	0.0008	0.00338	0.00031	<0.003
	29-Aug-14	Normal	29.8	0.0634	-	0.00165	0.00064	<0.3	2.28	0.00026	3.71	<0.00001	85.9	0.817	<0.00001	<0.0001	0.00125	0.00337	0.00034	<0.003
ATR HWY43BR	28-Aug-14	Normal	9.73	0.0144	-	0.000674	0.00063	<0.3	0.627	0.00018	2.44	<0.00001	3.61	0.334	<0.00001	<0.0001	0.00659	0.000424	0.00069	<0.003
ATR-AT1	14-Aug-14	Normal	8.38	0.0177	0.0000106	0.000644	0.00088	<0.3	1.03	0.00015	1.74	<0.00001	5.9	0.24	<0.00001	<0.0001	0.00177	0.000377	0.00078	<0.003
ATR-CON	08-Aug-14	Normal	8.71	0.021	-	0.000411	0.00099	<0.3	0.542	0.00014	1.84	<0.00001	2.14	0.278	<0.00001	<0.0001	0.00352	0.000357	0.00072	0.0041
	19-Aug-14	Normal	9.69	0.0489	0.00000245	0.000505	0.00261	<0.3	0.847	0.00016	3.04	<0.00001	2.04	0.289	0.00002	<0.0001	0.00553	0.000411	0.00167	0.0066
	21-Aug-14	Normal	9.04	0.0278	-	0.000462	0.00145	<0.3	0.693	0.00012	1.85	<0.00001	2.5	0.274	0.000012	<0.0001	0.00608	0.000365	0.00095	0.004
	26-Aug-14	Normal	9.82	0.025	0.00000133	0.00065	0.00111	<0.3	0.64	0.00018	2.09	<0.00001	3.13	0.335	0.000012	<0.0001	0.00591	0.000441	0.00109	0.0034
ATR-D1	05-Aug-14	Normal	8.89	0.0212	0.00000155	0.000491	0.00125	<0.3	0.636	0.00017	1.95	<0.00001	1.91	0.274	0.00002	<0.0001	0.004	0.000361	0.00128	0.0034
	08-Aug-14	Normal	8.61	0.0233	-	0.000386	0.0012	<0.3	0.568	0.00014	1.83	<0.00001	2.12	0.276	<0.00001	<0.0001	0.00414	0.000352	0.00082	0.0046
	11-Aug-14	Normal	9.03	0.0144	0.00000134	0.000401	0.00053	<0.3	0.469	0.00015	1.24	<0.00001	2.41	0.268	<0.00001	<0.0001	0.00158	0.000391	0.00043	<0.003
	13-Aug-14	Normal	8.88	0.0164	-	0.000453	0.00078	<0.3	0.513	0.00016	1.78	<0.00001	2.51	0.271	0.000011	<0.0001	0.00281	0.000389	0.00067	<0.003
	19-Aug-14	Normal	9.78	0.0574	0.00000414	0.000526	0.00289	<0.3	0.882	0.00015	3.19	<0.00001	1.96	0.306	0.000024	<0.0001	0.00641	0.000421	0.00186	0.007
	21-Aug-14	Normal	8.84	0.0289	-	0.000455	0.00145	<0.3	0.68	0.00015	1.79	<0.00001	2.35	0.276	0.000011	<0.0001	0.0051	0.000359	0.00096	0.0035
	26-Aug-14	Normal	10	0.0185	0.00000112	0.000604	0.00087	<0.3	0.619	0.00018	1.87	<0.00001	3.09	0.333	<0.00001	<0.0001	0.00414	0.000418	0.00092	<0.003
	29-Aug-14	Normal	8.64	0.0167	-	0.000532	0.00077	<0.3	0.585	0.00017	1.69	<0.00001	2.63	0.303	<0.00001	<0.0001	0.00386	0.000421	0.00081	<0.003
ATR-D2	05-Aug-14	Normal	9.07	0.0274	0.00000219	0.00047	0.00141	<0.3	0.651	0.00015	2.1	<0.00001	1.88	0.276	0.000014	<0.0001	0.00463	0.000371	0.00115	0.0039
	08-Aug-14	Normal	9.12	0.0304	-	0.000417	0.0014	<0.3	0.651	0.00013	2.24	<0.00001	2.04	0.282	0.000012	<0.0001	0.00666	0.000359	0.00108	0.0041
	11-Aug-14	Normal	8.88	0.0172	0.00000116	0.000423	0.0006	<0.3	0.482	0.00015	1.3	<0.00001	2.4	0.265	<0.00001	<0.0001	0.00243	0.000387	0.0005	<0.003
	13-Aug-14	Normal	9.28	0.0182	-	0.000462	0.00078	<0.3	0.562	0.00015	1.79	<0.00001	2.54	0.27	<0.00001	<0.0001	<0.005	0.000397	0.00076	<0.003
	19-Aug-14	Normal	10.4	0.0647	0.00000426	0.000497	0.0031	<0.3	1.27	0.00017	5.15	<0.00001	1.95	0.302	0.000033	<0.0001	0.0304	0.000438	0.00296	0.0077
	21-Aug-14	Normal	9.27	0.0326	-	0.000409	0.00148	<0.3	0.644	0.00014	1.69	<0.00001	2.23	0.278	0.000012	<0.0001	0.00751	0.000365	0.00092	0.0041
	26-Aug-14	Normal	9.96	0.0232	9.3E-7	0.000615	0.00093	<0.3	0.635	0.0002	1.91	<0.00001	2.96	0.338	0.00001	<0.0001	0.00439	0.000427	0.00106	0.0031
	29-Aug-14	Normal	9.09	0.0153	-	0.000586	0.00069	<0.3	0.568	0.00016	1.73	<0.00001	2.7	0.319	0.000011	<0.0001	0.00516	0.000432	0.00075	<0.003

Obed Mountain Mine
Water Quality
August 2014

			Dissolved Metals																					
			Beryllium (Filtered)	Bismuth (Filtered)	Boron (Filtered)	Cadmium (Filtered)	Calcium, Soluble (Filtered)	Chromium (III+VI) (Filtered)	Cobalt (Filtered)	Copper (Filtered)	Iron (Filtered)	Lead (Filtered)	Lithium (Filtered)	Magnesium, Soluble (Filtered)	Manganese (Filtered)	Molybdenum (Filtered)	Nickel (Filtered)	Phosphorus (Filtered)	Potassium (Filtered)	Selenium (Filtered)	Silicon (Filtered)	Silver (Filtered)	Sodium, Soluble (Filtered)	Strontium (Filtered)
MDL			0.0001	0.00005	0.01	0.00001	0.02	0.0001	0.0001	0.0001	0.01	0.00005	0.003	0.005	0.00005	0.00005	0.0001	0.3	0.05	0.0001	0.05	0.00001	0.05	0.0001
Location	Date	Sample Type																						
ATR-FF-5	15-Aug-14	Normal	<0.0005	<0.00005	0.017	<0.00001	34.3	<0.0001	<0.0001	0.00052	<0.01	<0.00005	0.0064	8.38	0.000289	0.000705	0.00072	<0.3	1.03	0.00014	1.58	<0.00001	7.3	0.24
ATR-FF-6	15-Aug-14	Normal	<0.0005	<0.00005	0.019	0.000012	31	<0.0001	<0.0001	0.00064	0.025	<0.00005	0.006	8.18	0.000415	0.000759	0.00091	<0.3	1.05	0.00015	1.91	<0.00001	9.7	0.21
ATR-FF-7	15-Aug-14	Normal	<0.0005	<0.00005	0.023	<0.00001	33.1	<0.0001	<0.0001	0.00074	0.032	<0.00005	0.0071	8.31	0.000446	0.000731	0.00102	<0.3	1.06	0.00013	2.33	<0.00001	12.6	0.212
ATR-PLC	05-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	35.7	<0.0001	<0.0001	0.00033	<0.01	<0.00005	<0.003	8.99	0.000346	0.000522	0.0003	<0.3	<0.5	0.00011	1.81	<0.00001	4.3	0.266
	11-Aug-14	Normal	-	-	-	-	40.1	-	-	-	-	-	-	10.6	-	-	-	-	0.6	-	-	-	6.3	-
	13-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	-	<0.0001	<0.0001	0.00021	<0.01	<0.00005	<0.003	-	0.000265	0.000519	0.00021	<0.3	-	0.00014	1.09	<0.00001	-	0.292
	29-Aug-14	Normal	<0.0001	<0.00005	<0.01	<0.00001	41	<0.0001	<0.0001	0.00041	<0.01	<0.00005	0.0035	11.3	0.000102	0.000578	0.00025	<0.3	0.531	0.00014	1.97	<0.00001	6.33	0.311
ATR-US	05-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	28.6	<0.0001	<0.0001	0.00039	<0.01	<0.00005	<0.003	7.4	0.000265	0.000419	0.00023	<0.3	<0.5	0.00012	1.16	<0.00001	1.8	0.242
	08-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	-	<0.0001	<0.0001	0.00025	<0.01	<0.00005	<0.003	-	0.000284	0.000406	0.00024	<0.3	-	0.00011	0.997	<0.00001	-	0.242
	11-Aug-14	Normal	-	-	-	-	30.8	-	-	-	-	-	-	8.2	-	-	-	-	<0.5	-	-	-	2.1	-
		Field Duplicate	-	-	-	-	30.9	-	-	-	-	-	-	8.26	-	-	-	-	<0.5	-	-	-	2.2	-
	13-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	-	<0.0001	<0.0001	0.00018	<0.01	<0.00005	<0.003	-	0.000197	0.000532	0.00022	<0.3	-	0.00013	1.08	<0.00001	-	0.276
	19-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	29.8	<0.0001	<0.0001	0.00015	<0.01	<0.00005	<0.003	7.78	0.000288	0.000438	0.00018	<0.3	<0.5	0.00012	0.991	<0.00001	2	0.256
	21-Aug-14	Normal	<0.0001	<0.00005	<0.01	<0.00001	30.4	<0.0001	<0.0001	0.00016	<0.01	<0.00005	<0.003	7.62	0.000148	0.000411	0.00014	<0.3	0.358	0.00012	1.06	<0.00001	2.06	0.252
	26-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	33.6	<0.0001	<0.0001	0.00019	<0.01	<0.00005	<0.003	9.98	0.000226	0.000557	0.00023	<0.3	<0.5	0.00017	1.23	<0.00001	3.1	0.306
Field Duplicate		<0.0005	<0.00005	<0.01	<0.00001	33.7	<0.0001	<0.0001	0.00018	<0.01	<0.00005	<0.003	9.93	0.000181	0.000534	0.00023	<0.3	<0.5	0.00016	1.24	<0.00001	2.9	0.296	
29-Aug-14	Normal	<0.0001	<0.00005	<0.01	<0.00001	31.2	<0.0001	<0.0001	0.00017	<0.01	<0.00005	<0.003	8.81	0.000145	0.000481	0.00017	<0.3	0.389	0.00017	1.13	<0.00001	2.45	0.293	
PLC-DS	05-Aug-14	Normal	<0.0005	<0.00005	0.011	<0.00001	64.4	<0.0001	<0.0001	0.00034	<0.01	<0.00005	0.0059	14.7	0.000251	0.000853	0.0005	<0.3	0.88	0.0001	4.26	<0.00001	13.4	0.348
	08-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	-	<0.0001	<0.0001	0.00034	<0.01	<0.00005	0.0061	-	0.000326	0.000838	0.00048	<0.3	-	<0.0001	3.93	<0.00001	-	0.349
	11-Aug-14	Normal	-	-	-	-	64.2	-	-	-	-	-	-	15.6	-	-	-	-	1	-	-	-	14.7	-
	19-Aug-14	Normal	<0.0005	<0.00005	0.012	<0.00001	63.1	<0.0001	<0.0001	0.00028	<0.01	<0.00005	0.0077	15.7	0.000443	0.000896	0.00033	<0.3	0.96	<0.0001	4.14	<0.00001	16.3	0.367
	21-Aug-14	Normal	<0.0001	<0.00005	0.011	<0.00001	67.1	<0.0001	<0.0001	0.00026	0.125	<0.00005	0.0072	15.9	0.0156	0.000787	0.00037	<0.3	0.93	0.00011	4.31	<0.00001	15.4	0.368
	26-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	67.3	<0.0001	<0.0001	0.00025	<0.01	<0.00005	0.0062	16.9	0.000327	0.000896	0.00039	<0.3	0.93	<0.0001	4.01	<0.00001	16.7	0.358
	29-Aug-14	Normal	<0.0001	<0.00005	<0.01	<0.00001	64.9	<0.0001	<0.0001	0.00032	<0.01	<0.00005	0.0073	17.1	0.000313	0.000892	0.00028	<0.3	0.943	0.0001	4.12	<0.00001	17	0.382
PLC-DS2	13-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	-	<0.0001	<0.0001	0.00029	<0.01	<0.00005	0.0066	-	0.000294	0.000889	0.00045	<0.3	-	<0.0001	4.44	<0.00001	-	0.376
PLC-US	05-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	65.3	<0.0001	<0.0001	0.00042	0.018	0.00006	0.0031	13.9	0.000422	0.000593	0.00063	<0.3	0.72	<0.0001	4.65	<0.00001	4.8	0.296
	08-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	-	<0.0001	<0.0001	0.00047	0.025	<0.00005	<0.003	-	0.000615	0.000576	0.00063	<0.3	-	<0.0001	4.37	<0.00001	-	0.301
	11-Aug-14	Normal	-	-	-	-	64.6	-	-	-	-	-	-	14.8	-	-	-	-	0.76	-	-	-	4.9	-
	13-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	-	<0.0001	<0.0001	0.0003	0.034	<0.00005	0.0035	-	0.000356	0.00064	0.00061	<0.3	-	<0.0001	4.89	<0.00001	-	0.308
	19-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	66.9	<0.0001	<0.0001	0.00025	0.018	<0.00005	0.0033	16.5	0.00162	0.000634	0.00048	<0.3	0.8	<0.0001	4.41	<0.00001	5.5	0.333
	21-Aug-14	Normal	<0.0001	<0.00005	<0.01	<0.00001	73.2	<0.0001	<0.0001	0.00023	0.014	<0.00005	0.0042	16.2	0.000415	0.000643	0.00049	<0.3	0.804	<0.0001	4.65	<0.00001	5.58	0.326
	26-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	71.7	<0.0001	<0.0001	0.00027	0.011	<0.00005	0.0032	16.7	0.000563	0.00065	0.00042	<0.3	0.76	<0.0001	4.38	<0.00001	6	0.31

Obed Mountain Mine
Water Quality
August 2014

Total Metals																				
			Magnesium, Soluble	Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silicon	Silver	Sodium, Soluble	Strontium	Thallium	Tin	Titanium	Uranium	Vanadium	Zinc
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
			MDL	0.00005	5.0E-7	0.00005	0.0001	0.3	0.05	0.0001	0.05	0.00001	0.05	0.0001	0.00001	0.0001	0.0003	0.00001	0.0001	0.003
Location	Date	Sample Type																		
ATR-FF-5	15-Aug-14	Normal	8.87	0.0327	0.00000146	0.000715	0.00119	<0.3	1.1	0.00015	2.06	<0.00001	7.56	0.242	0.000012	<0.0001	0.00313	0.000432	0.00106	<0.003
ATR-FF-6	15-Aug-14	Normal	8.32	0.0466	0.00000185	0.000784	0.0017	<0.3	1.05	0.00014	2.39	<0.00001	9.22	0.229	<0.00001	<0.0001	0.0027	0.000376	0.00109	0.0034
ATR-FF-7	15-Aug-14	Normal	8.47	0.058	0.00000161	0.000729	0.00133	<0.3	1.04	0.00015	2.57	<0.00001	12.1	0.209	<0.00001	<0.0001	0.00212	0.00037	0.001	<0.003
ATR-PLC	05-Aug-14	Normal	10.3	0.0155	0.0000012	0.000522	0.0008	<0.3	0.609	0.00015	2.19	<0.00001	4.23	0.275	<0.00001	<0.0001	0.00233	0.000459	0.00078	<0.003
	11-Aug-14	Normal	11.3	0.0125	8.7E-7	0.000573	0.00047	<0.3	0.611	0.00014	2.07	<0.00001	6.65	0.308	<0.00001	<0.0001	0.00133	0.000626	0.00038	<0.003
	13-Aug-14	Normal	8.69	0.0152	-	0.000493	0.0008	<0.3	0.526	0.00015	1.8	<0.00001	2.53	0.273	<0.00001	<0.0001	0.00317	0.000388	0.00079	<0.003
	29-Aug-14	Normal	10.5	0.0163	-	0.000639	0.00091	<0.3	0.705	0.00014	2.39	<0.00001	6	0.326	<0.00001	<0.0001	0.00422	0.000611	0.00064	<0.003
ATR-US	05-Aug-14	Normal	8.37	0.0177	0.00000161	0.000448	0.00093	<0.3	0.588	0.00015	1.81	<0.00001	1.9	0.274	<0.00001	<0.0001	0.00344	0.000344	0.00107	<0.003
	08-Aug-14	Normal	8.98	0.0267	-	0.000421	0.00122	<0.3	0.593	0.00013	1.93	<0.00001	2.02	0.277	0.000011	<0.0001	0.00359	0.000353	0.00088	0.0038
	11-Aug-14	Normal	8.78	0.0147	0.00000104	0.000447	0.00049	<0.3	0.455	0.00016	1.25	<0.00001	2.3	0.277	<0.00001	<0.0001	0.00127	0.000393	0.00036	<0.003
		Field Duplicate	9.34	0.0146	9.0E-7	0.000441	0.00053	<0.3	0.47	0.00015	1.25	<0.00001	2.22	0.271	<0.00001	<0.0001	0.00119	0.000398	0.00043	<0.003
	13-Aug-14	Normal	0.615	0.00122	-	0.000479	0.00013	<0.3	<0.05	0.00014	1.68	<0.00001	0.122	0.276	<0.00001	<0.0001	<0.0003	0.000379	0.00017	<0.003
	19-Aug-14	Normal	8.71	0.0396	0.00000282	0.000417	0.00192	<0.3	0.774	0.00014	2.7	<0.00001	1.85	0.261	0.000013	<0.0001	0.00654	0.000372	0.0013	0.0046
	21-Aug-14	Normal	8.95	0.0284	-	0.0004	0.00127	<0.3	0.654	0.00014	1.64	<0.00001	2.18	0.275	0.00001	<0.0001	0.00337	0.000358	0.00092	0.0034
	26-Aug-14	Normal	10	0.02	0.00000116	0.000627	0.00085	<0.3	0.591	0.0002	2.23	<0.00001	2.89	0.339	<0.00001	<0.0001	0.00361	0.000413	0.00104	<0.003
Field Duplicate		9.78	0.0187	0.00000135	0.000586	0.00067	<0.3	0.526	0.00019	1.68	<0.00001	2.78	0.335	<0.00001	<0.0001	0.00642	0.000411	0.0008	<0.003	
29-Aug-14	Normal	8.91	0.0242	-	0.000554	0.0012	<0.3	0.764	0.00015	2.36	<0.00001	2.58	0.307	0.000012	<0.0001	0.00854	0.000435	0.00123	0.0034	
PLC-DS	05-Aug-14	Normal	14.9	0.0116	5.6E-7	0.000884	0.00042	<0.3	0.965	0.00012	4.21	<0.00001	13.8	0.357	<0.00001	<0.0001	0.00033	0.000963	0.00072	<0.003
	08-Aug-14	Normal	15.1	0.013	-	0.000813	0.00038	<0.3	0.901	<0.0001	4.03	<0.00001	15.6	0.363	<0.00001	<0.0001	0.00048	0.000949	0.00034	<0.003
	11-Aug-14	Normal	16.2	0.011	5.6E-7	0.000812	0.00043	<0.3	0.936	0.00011	4.01	<0.00001	15.3	0.356	<0.00001	<0.0001	<0.0003	0.0011	0.00035	<0.003
	19-Aug-14	Normal	16.1	0.0109	5.1E-7	0.000914	0.00038	<0.3	1.02	0.00011	4.51	<0.00001	15.8	0.387	<0.00001	<0.0001	<0.0003	0.00107	0.00035	0.0197
	21-Aug-14	Normal	17.1	0.0123	-	0.000898	0.00039	<0.3	1.03	0.00011	4.13	<0.00001	16.8	0.379	<0.00001	<0.0001	<0.0003	0.00108	0.00036	<0.003
	26-Aug-14	Normal	16.6	0.0101	6.9E-7	0.000782	0.00032	<0.3	0.962	<0.0001	3.96	<0.00001	16	0.348	<0.00001	<0.0001	<0.0003	0.00109	0.00019	<0.003
	29-Aug-14	Normal	18.3	0.00999	-	0.000787	0.00028	<0.3	0.903	<0.0001	3.98	<0.00001	16.1	0.362	<0.00001	<0.0001	<0.0003	0.00108	0.00019	<0.003
PLC-DS2	13-Aug-14	Normal	15	0.0101	-	0.000849	0.0006	<0.3	0.922	0.00011	4.26	<0.00001	14.4	0.36	<0.00001	<0.0001	0.00055	0.00108	0.00047	<0.003
PLC-US	05-Aug-14	Normal	14.6	0.0378	6.7E-7	0.000598	0.0005	<0.3	0.789	0.00011	4.7	<0.00001	5.01	0.313	<0.00001	<0.0001	0.00033	0.000728	0.00081	<0.003
	08-Aug-14	Normal	14.9	0.0404	-	0.000617	0.00052	<0.3	0.77	<0.0001	4.5	<0.00001	5.51	0.334	<0.00001	<0.0001	0.00049	0.000749	0.00045	<0.003
	11-Aug-14	Normal	15.2	0.0361	6.8E-7	0.000561	0.00048	<0.3	0.744	<0.0001	4.45	<0.00001	5.17	0.299	<0.00001	<0.0001	<0.0003	0.000728	0.0004	<0.003
	13-Aug-14	Normal	14.4	0.0385	-	0.000625	0.00058	<0.3	0.806	<0.0001	4.86	<0.00001	4.99	0.304	<0.00001	<0.0001	0.00069	0.000945	0.00068	<0.003
	19-Aug-14	Normal	15.3	0.0378	8.0E-7	0.000657	0.00049	<0.3	0.816	<0.0001	4.96	<0.00001	5.24	0.335	<0.00001	<0.0001	0.00054	0.000805	0.00046	<0.003
	21-Aug-14	Normal	15.6	0.0351	-	0.000654	0.00047	<0.3	0.835	<0.0001	4.34	<0.00001	5.64	0.323	<0.00001	<0.0001	0.00049	0.000829	0.00046	<0.003
	26-Aug-14	Normal	16.4	0.0319	5.2E-7	0.000574	0.00037	<0.3	0.797	<0.0001	4.42	<0.00001	5.5	0.307	<0.00001	<0.0001	0.0005	0.000861	0.00032	<0.003

Obed Mountain Mine
 Water Quality
 August 2014

			Aggregate Organic																				Anions and Nutrients									
	Hydrocarbons, Recoverable (I.R.)	BOD	Phenols (4AAP)	Alkalinity (T) as CaCO3	Ammonia	Bicarbonate	Carbonate	Chloride, Soluble	Electrical Conductivity (lab)	Hydroxide	Ionic Balance	Kjeldahl Nitrogen Total	Nitrate (as N)	Nitrate + Nitrite-N	Nitrite (as N)	pH (Lab)	Phosphorus	Phosphorus (Filtered)	Sulfur (as Sulfate), Soluble	Sulfate as S	Sulphide	Hardness as CaCO3	Total Dissolved Solids	Aluminium (Filtered)	Antimony (Filtered)	Arsenic (Filtered)	Barium (Filtered)					
	mg/L	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mS/cm	mg/L	%	mg/L	mg/L	mg/L	mg/L	pH	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L				
MDL	1	2	1	2	0.05	5	5	0.1	0.0002	5		0.2	0.05	0.05	0.02	0.1	0.001	0.001	0.5	0.5	0.0015			0.001	0.0001	0.0001	0.0001	0.00005				
Location	Date	Sample Type																														
	29-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0036	<0.0001	0.00047	0.0756	

Obed Mountain Mine
 Water Quality
 August 2014

		Dissolved Metals																						
		Beryllium (Filtered)	Bismuth (Filtered)	Boron (Filtered)	Cadmium (Filtered)	Calcium, Soluble (Filtered)	Chromium (III+VI) (Filtered)	Cobalt (Filtered)	Copper (Filtered)	Iron (Filtered)	Lead (Filtered)	Lithium (Filtered)	Magnesium, Soluble (Filtered)	Manganese (Filtered)	Molybdenum (Filtered)	Nickel (Filtered)	Phosphorus (Filtered)	Potassium (Filtered)	Selenium (Filtered)	Silicon (Filtered)	Silver (Filtered)	Sodium, Soluble (Filtered)	Strontium (Filtered)	
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
MDL		0.0001	0.00005	0.01	0.00001	0.02	0.0001	0.0001	0.0001	0.01	0.00005	0.003	0.005	0.00005	0.00005	0.0001	0.3	0.05	0.0001	0.05	0.00001	0.05	0.0001	
Location	Date	Sample Type																						
	29-Aug-14	Normal	<0.0001	<0.00005	<0.01	<0.00001	69.6	<0.0001	<0.0001	0.00025	<0.01	<0.00005	0.0036	16.2	0.000353	0.000616	0.00042	<0.3	0.782	<0.0001	4.51	<0.00001	5.83	0.323

Obed Mountain Mine
Water Quality
August 2014

			/ Inorganic						Physical Tests																			
	Thallium (Filtered)	Tin (Filtered)	Titanium (Filtered)	Uranium (Filtered)	Vanadium (Filtered)	Zinc (Filtered)	Dissolved Organic Carbon (Filtered)	TOC	Colour	Total Dissolved Solids (Filtered)	Total Suspended Solids	Benzo[b+j]fluoranthene	C4 Benzantracenes/Chrysenes	C4 Dibenzothiophenes	C4 Fluoranthenes/Pyrenes	C4 Naphthalenes	C4 Phenanthrenes/Anthracenes	Biphenyl	1-MethylNaphthalene	2-methylNaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Acridine		
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	Colour units	mg/L	mg/L	µg/L	ug/L	ug/L	ug/L	ug/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L		
MDL	0.00001	0.0001	0.0003	0.00001	0.0001	0.001	1	1	2	10	3	0.01	0.04	0.04	0.04	0.04	0.04	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.02		
Location	Date	Sample Type																										
	29-Aug-14	Normal	<0.00001	<0.0001	<0.0003	0.000844	0.00022	<0.001	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02

Polycyclic Aromatic Hydrocarbons

	Benzo(e)pyrene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	C1 Acenaphthenes	C1 Benz(a)Anthracenes/Chrysenes	C1 Benzofluoranthenes/Benzopyrenes	C1 Biphenyls	C1 Dibenzothiophenes	Chrysene	C1 Fluoranthenes/Pyrenes	C1 Fluorenes	C1 Phenanthrenes/Anthracenes	Dibenz(a,h)anthracene	Dibenzothiophene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Perylene	Phenanthrene	Pyrene	Quinoline	Retene	C2 Benzofluoranthenes/Benzopyrenes	C2 Biphenyls	C2 Dibenzothiophenes	C2 Fluoranthenes/Pyrenes	C2 Naphthalenes
MDL	0.01	0.01	0.01	0.04	0.04	0.04	0.04	0.04	0.01	0.04	0.04	0.04	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.02	0.01	0.02	0.01	0.04	0.04	0.04	0.04	0.04
Location	Date	Sample Type	<0.01	<0.01	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.02	<0.01	<0.02	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04
	29-Aug-14	Normal	<0.01	<0.01	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.02	<0.01	<0.02	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04

Obed Mountain Mine
 Water Quality
 August 2014

			C2 Phenanthrenes/Anthracenes	C2 Fluorenes	C2 subd B(a)Anthracenes/Chrysenes	C3 Benzantracenes/Chrysenes	C3 Dibenzothiophenes	C3 Fluoranthenes/Pyrenes	C3 Fluorenes	C3 Naphthalenes	C3 Phenanthrenes/Anthracenes	Aluminium	Antimony	Arsenic	Barium	Beryllium	Bismuth	Boron	Cadmium	Calcium, Soluble	Chromium (III+VI)	Cobalt	Copper	Iron	Lead	Lithium
MDL			0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.003	0.0001	0.0001	0.00005	0.0001	0.00005	0.01	0.00001	0.02	0.0001	0.0001	0.0001	0.01	0.00005	0.005
Location	Date	Sample Type																								
	29-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0115	<0.0001	0.00065	0.0835	<0.0001	<0.00005	<0.01	<0.00001	70.9	<0.0001	<0.0001	0.00024	0.404	<0.00005	<0.005

Obed Mountain Mine
 Water Quality
 August 2014

Total Metals																				
	Magnesium, Soluble	Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silicon	Silver	Sodium, Soluble	Strontium	Thallium	Tin	Titanium	Uranium	Vanadium	Zinc		
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
MDL	0.005	0.00005	5.0E-7	0.00005	0.0001	0.3	0.05	0.0001	0.05	0.00001	0.05	0.0001	0.00001	0.0001	0.0003	0.00001	0.0001	0.003		
Location	Date	Sample_Type	17.4	0.0305	-	0.000589	0.00042	<0.3	0.754	<0.0001	4.31	<0.00001	5.46	0.327	<0.00001	<0.0001	<0.0003	0.000815	0.00029	<0.003