

Obed Mountain Mine
Water Quality
April 2014

			Organics			Anions and Nutrients																								
Location	Date	Sample Type	Hydrocarbons, Recoverable (I.R.)	BOD	Phenols (4AAP)	Alkalinity (T) as CaCO3	Ammonia	Bicarbonate	Carbonate	Chloride	Electrical Conductivity (lab)	Hydroxide	Ionic Balance	Kjeldahl Nitrogen Total	Nitrate (as N)	Nitrate + Nitrite-N	Nitrite (as N)	pH (Lab)	Phosphorus	Phosphorus (Filtered)	Sulphate	Sulphide	Hardness as CaCO3	Total Dissolved Solids	Aluminium (Filtered)	Antimony (Filtered)	Arsenic (Filtered)	Barium (Filtered)	Beryllium (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	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
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	0.0015			0.001	0.0001	0.0001	0.00005	0.0001	
Blanks	02-Apr-14	Trip Blank	<1	<2	<1	<2	<0.05	<5	<5	<0.5	<0.0002	<5	-	<0.2	<0.05	<0.071	<0.05	5.25	<0.001	<0.001	<0.5	<0.002	<1	<1	<0.001	<0.0001	<0.0001	<0.00005	<0.0005	
	08-Apr-14	Field Blank	<1	<2	<1	<2	<0.05	<5	<5	<0.5	<0.0002	<5	-	<0.2	<0.05	<0.071	<0.05	4.55	<0.001	<0.001	<0.5	<0.002	<1	<1	<0.001	<0.0001	<0.0001	<0.00005	<0.0005	
	23-Apr-14	Trip Blank	<1	<2	<1	<2	<0.05	<5	<5	<0.5	0.00095	<5	-	<0.2	<0.05	<0.071	<0.05	5.27	<0.001	<0.001	<0.5	<0.002	<1	<1	<0.001	<0.0001	<0.0001	<0.00005	<0.0005	
APC	01-Apr-14	Normal	<1	<2	<1	403	<0.05	492	<5	1.59	0.956	<5	96.3	<0.2	<0.05	<0.071	<0.05	8.22	0.0041	0.002	145	<0.002	309	598	0.0012	<0.0001	0.00025	0.107	<0.0005	
	08-Apr-14	Normal	<1	2.3	1.2	387	<0.05	472	<5	1.66	0.888	<5	96.9	<0.2	0.189	0.189	<0.05	8.2	0.0049	<0.001	131	<0.002	293	567	0.0041	<0.0001	0.0003	0.112	<0.0005	
	17-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0035	<0.0001	0.00036	0.142	<0.0001	
	22-Apr-14	Normal	<1	<2	4.4	288	<0.05	351	<5	1.08	0.697	<5	95.8	0.61	0.154	0.154	<0.05	8.2	0.143	0.004	107	0.0067	238	434	0.0135	0.0001	0.00044	0.116	<0.0005	
	29-Apr-14	Normal	<1	<2	3.5	220	<0.05	268	<5	0.91	0.531	<5	98.3	0.77	0.111	0.111	<0.02	8.09	0.274	0.005	74.8	0.0015	199	323	0.0234	0.00013	0.00051	0.0884	<0.0005	
APC-US-3	28-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-US-4	28-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-CON	01-Apr-14	Normal	<1	<2	5.2	150	0.068	183	<5	6.9	0.513	<5	95.4	0.25	0.099	0.099	<0.05	7.95	0.041	0.0096	111	0.0049	218	305	0.0165	<0.0001	0.00012	0.0647	<0.0005	
	08-Apr-14	Normal	<1	2.5	3.1	133	0.095	163	<5	5.9	0.421	<5	91	<0.2	0.094	0.094	<0.05	7.91	0.0425	0.0176	82.4	<0.002	179	244	0.0088	<0.0001	0.00015	0.0547	<0.0005	
	16-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0057	<0.0001	0.0002	0.0652	<0.0001	
	22-Apr-14	Normal	<1	<2	7.3	145	<0.05	177	<5	2.53	0.382	<5	98.7	0.2	<0.05	<0.071	<0.05	8.07	0.048	0.0067	50.1	<0.002	176	212	0.0093	<0.0001	0.00023	0.0624	<0.0005	
	29-Apr-14	Normal	<1	<2	2.4	138	<0.05	169	<5	2.75	0.355	<5	101	<0.2	0.062	0.062	<0.02	8.03	0.0299	0.0048	48.4	<0.0015	175	206	0.008	<0.0001	0.00023	0.0578	<0.0005	
ATR-D1	01-Apr-14	Normal	<1	<2	5.8	150	0.077	183	<5	7.03	0.515	<5	92.7	0.29	0.117	0.117	<0.05	7.93	0.0393	0.0088	113	0.004	213	306	0.0166	<0.0001	0.00012	0.0672	<0.0005	
	08-Apr-14	Normal	<1	2.7	2.9	133	0.105	162	<5	6.64	0.442	<5	94.2	<0.2	0.067	<0.071	<0.05	7.87	0.0329	0.0145	95.4	<0.002	198	265	0.0086	<0.0001	0.00013	0.0594	<0.0005	
	16-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0093	<0.0001	0.00015	0.0653	<0.0001	
	22-Apr-14	Normal	<1	<2	7.2	139	<0.05	169	<5	4.68	0.452	<5	94.4	<0.2	<0.05	<0.071	<0.05	8.12	0.0187	0.0039	92.2	<0.002	201	264	0.0066	<0.0001	0.00016	0.0636	<0.0005	
	29-Apr-14	Normal	<1	<2	2.5	144	<0.05	176	<5	5.42	0.453	<5	101	<0.2	<0.05	<0.054	<0.02	8.06	0.0189	0.0039	89.3	<0.0015	220	271	0.0058	<0.0001	0.00014	0.0637	<0.0005	
ATR-FF-5	16-Apr-14	Normal	<1	3.2	8.4	137	0.122	168	<5	5.37	0.335	<5	100	0.69	0.215	0.215	<0.05	7.9	0.127	0.0675	35	0.0046	141	195	0.0071	<0.0001	0.00076	0.0672	<0.0005	
ATR-FF-7	16-Apr-14	Normal	<1	<2	2.7	130	<0.05	158	<5	21.4	0.368	<5	101	0.22	0.123	0.123	<0.05	7.65	0.0473	0.0044	31.4	<0.002	138	207	0.0108	<0.0001	0.00045	0.0508	<0.0005	
ATR-US	01-Apr-14	Normal	<1	<2	4.8	139	0.092	170	<5	7.53	0.513	<5	94.9	0.25	0.09	0.09	<0.05	7.91	0.043	0.0094	123	0.007	221	311	0.0164	<0.0001	<0.0001	0.0633	<0.0005	
	02-Apr-14	Normal	<1	<2	-	141	0.11	173	<5	7.46	0.498	<5	106	0.34	0.117	0.117	<0.05	8.23	0.0264	0.01	118	0.0086	247	318	0.0154	<0.0001	0.00013	0.0597	<0.0005	
	09-Apr-14	Normal	<1	2.5	3.9	121	0.187	148	<5	6.41	0.42	<5	92.2	<0.2	0.069	<0.071	<0.05	7.77	0.0746	0.0172	91	0.003	179	246	0.0105	<0.0001	0.00016	0.0551	<0.0005	
	23-Apr-14	Normal	<1	<2	7.5	132	<0.05	161	<5	4.96	0.462	<5	98.6	<0.2	0.051	<0.071	<0.05	8.04	0.0354	0.0115	102	0.0035	215	275	0.0847	<0.0001	0.00014	0.0606	<0.0005	
	30-Apr-14	Normal	<1	<2	3.2	143	0.057	174	<5	6.14	0.481	<5	98.4	<0.2	0.059	0.059	<0.02	8.03	0.0363	0.0174	103	0.0019	225	287	0.01	<0.0001	0.00014	0.0584	<0.0005	
PLC-DS	02-Apr-14	Normal	<1	<2	<1	258	<0.05	314	<5	<0.5	0.491	<5	94.3	<0.2	0.094	0.094	<0.05	8.12	0.0079	0.0024	19.8	<0.002	223	272	0.0016	<0.0001	0.00021	0.0795	<0.0005	
	09-Apr-14	Normal	<1	2.9	3.6	223	<0.05	272	<5	0.6	0.415	<5	91.5	<0.2	0.092	0.092	<0.05	8	0.0321	0.006	17	<0.002	191	234	0.0021	<0.0001	0.00025	0.0739	<0.0005	
	16-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0046	<0.0001	0.00033	0.0769	<0.0001	
	23-Apr-14	Normal	<1	<2	6.1	145	<0.05	176	<5	<0.5	0.291	<5	102	0.86	0.085	0.085	<0.05	8.02	0.195	0.0071	9.6	0.004	141	156	0.0104	<0.0001	0.00034	0.0646	<0.0005	
	30-Apr-14	Normal	<1	<2	3.5	123	<0.05	151	<5	<0.5	0.244	<5	103	0.6	0.102	0.102	<0.02	7.9	0.0953	0.0071	8.67	<0.0015	124	134	0.0156	<0.0001	0.0003	0.0525	<0.0005	

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			Dissolved Metals																							
			Bismuth (Filtered)	Boron (Filtered)	Cadmium (Filtered)	Calcium (Filtered)	Chromium (III+VI) (Filtered)	Cobalt (Filtered)	Copper (Filtered)	Iron (Filtered)	Lead (Filtered)	Lithium (Filtered)	Magnesium (Filtered)	Manganese (Filtered)	Molybdenum (Filtered)	Nickel (Filtered)	Phosphorus (Filtered)	Potassium (Filtered)	Selenium (Filtered)	Silicon (Filtered)	Silver (Filtered)	Sodium (Filtered)	Strontium (Filtered)	Thallium (Filtered)	Tin (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	mg/L	
MDL			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	0.00001	0.0001	
Location	Date	Sample Type																								
Blanks	02-Apr-14	Trip Blank	<0.00005	<0.01	<0.00001	<0.5	<0.0001	<0.0001	<0.0001	<0.01	<0.00005	<0.003	<0.1	<0.00005	<0.00005	<0.0001	<0.3	<0.5	<0.0001	<0.05	<0.00001	<1	<0.0001	<0.00005	<0.0001	
	08-Apr-14	Field Blank	<0.00005	<0.01	<0.00001	<0.5	<0.0001	<0.0001	<0.0001	<0.01	<0.00005	<0.003	<0.1	<0.00005	<0.00005	<0.0001	<0.3	<0.5	<0.0001	<0.05	<0.00001	<1	<0.0001	<0.00005	<0.0001	
	23-Apr-14	Trip Blank	<0.00005	<0.01	<0.00001	<0.5	<0.0001	<0.0001	<0.0001	<0.01	<0.00005	<0.003	<0.1	<0.00005	<0.00005	<0.0001	<0.3	<0.5	<0.0001	<0.05	<0.00001	<1	<0.0001	<0.00005	<0.0001	
APC	01-Apr-14	Normal	<0.00005	0.059	<0.00001	75.6	<0.0001	<0.0001	0.00015	<0.01	<0.00005	0.0369	29.2	0.0439	0.00174	0.00055	<0.3	2.22	0.00014	5.24	<0.00001	103	0.863	<0.00005	<0.0001	
	08-Apr-14	Normal	<0.00005	0.052	<0.00001	73.5	<0.0001	<0.0001	0.00031	<0.01	<0.00005	0.0363	26.5	0.0284	0.00214	0.00061	<0.3	2.32	0.00068	4.75	<0.00001	98.5	0.877	<0.00005	<0.0001	
	17-Apr-14	Normal	<0.00005	0.036	<0.00001	69	<0.0001	0.00016	0.00059	<0.01	<0.00005	0.024	22.1	0.0763	0.002	0.00106	<0.3	2.21	0.00081	4.03	<0.00001	76.8	0.739	<0.00001	<0.0001	
	22-Apr-14	Normal	<0.00005	0.038	<0.00001	66	<0.0001	<0.0001	0.00084	0.024	<0.00005	0.0274	17.7	0.00788	0.00182	0.00089	<0.3	2.08	0.0005	3.96	<0.00001	66.3	0.677	<0.00005	<0.0001	
	29-Apr-14	Normal	<0.00005	0.029	<0.00001	55.2	<0.0001	<0.0001	0.00127	0.041	<0.00005	0.017	14.8	0.0139	0.00142	0.00106	<0.3	1.57	0.00031	3.27	<0.00001	42.9	0.495	<0.00005	<0.0001	
APC-US-3	28-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
APC-US-4	28-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ATR-CON	01-Apr-14	Normal	<0.00005	0.012	<0.00001	58.1	<0.0001	0.00024	0.00019	0.012	<0.00005	0.0046	17.6	0.00584	0.00165	0.00028	<0.3	1.02	0.00038	2.32	<0.00001	20.2	0.668	<0.00005	0.00014	
	08-Apr-14	Normal	<0.00005	0.01	<0.00001	48.3	<0.0001	<0.0001	0.00026	0.012	<0.00005	0.0044	14.1	0.000581	0.00109	0.00032	<0.3	0.9	0.0003	1.97	<0.00001	12.6	0.603	<0.00005	<0.0001	
	16-Apr-14	Normal	<0.00005	<0.01	<0.00001	55.6	<0.0001	<0.0001	0.00027	0.014	<0.00005	0.0034	16.8	0.00333	0.000993	0.00036	<0.3	0.866	0.00031	2.19	<0.00001	12.1	0.543	<0.00001	<0.0001	
	22-Apr-14	Normal	<0.00005	<0.01	<0.00001	49.6	<0.0001	<0.0001	0.0004	0.024	<0.00005	0.0032	12.7	0.00298	0.000784	0.00042	<0.3	0.96	0.00023	2.57	<0.00001	9.6	0.439	<0.00005	<0.0001	
	29-Apr-14	Normal	<0.00005	<0.01	<0.00001	49.5	<0.0001	<0.0001	0.00043	0.026	<0.00005	0.0032	12.4	0.00285	0.000743	0.00051	<0.3	0.81	0.0002	2.33	<0.00001	8.9	0.43	<0.00005	<0.0001	
ATR-D1	01-Apr-14	Normal	<0.00005	0.011	<0.00001	57.3	<0.0001	<0.0001	0.00019	0.012	<0.00005	0.0044	17.1	0.00626	0.00171	0.0003	<0.3	1.02	0.00039	2.17	<0.00001	19.6	0.683	<0.00005	<0.0001	
	08-Apr-14	Normal	<0.00005	0.011	<0.00001	53.9	<0.0001	<0.0001	0.0002	<0.01	<0.00005	0.0049	15.5	0.000527	0.00119	0.00025	<0.3	0.89	0.00033	1.92	<0.00001	12.8	0.68	<0.00005	<0.0001	
	16-Apr-14	Normal	<0.00005	0.01	<0.00001	55.6	<0.0001	<0.0001	0.00027	<0.01	<0.00005	0.0033	18	0.00306	0.00114	0.00038	<0.3	0.84	0.00036	1.79	<0.00001	13.3	0.632	<0.00001	<0.0001	
	22-Apr-14	Normal	<0.00005	<0.01	<0.00001	55.4	<0.0001	<0.0001	0.00026	<0.01	<0.00005	0.0037	15.2	0.00353	0.00115	0.00036	<0.3	0.93	0.00037	1.67	<0.00001	11.8	0.643	<0.00005	<0.0001	
	29-Apr-14	Normal	<0.00005	0.011	<0.00001	60.4	<0.0001	<0.0001	0.00028	0.01	<0.00005	0.0042	16.8	0.000691	0.00115	0.00034	<0.3	0.9	0.00032	1.4	<0.00001	12.1	0.677	<0.00005	<0.0001	
ATR-FF-5	16-Apr-14	Normal	<0.00005	0.033	0.000021	39	<0.0001	0.00011	0.00113	0.125	<0.00005	0.0089	10.6	0.000628	0.000908	0.00167	<0.3	5.86	0.00016	2.05	<0.00001	15.8	0.266	<0.00005	<0.0001	
ATR-FF-7	16-Apr-14	Normal	<0.00005	0.039	0.000011	37.8	<0.0001	<0.0001	0.00062	0.128	<0.00005	0.0094	10.5	0.000518	0.000695	0.00119	<0.3	2.31	0.00014	3.39	<0.00001	24.8	0.233	<0.00005	<0.0001	
ATR-US	01-Apr-14	Normal	<0.00005	0.013	<0.00001	59.3	<0.0001	<0.0001	0.00013	0.011	<0.00005	0.0045	17.8	0.00929	0.00166	0.00025	<0.3	0.96	0.00043	2.06	<0.00001	19	0.73	<0.00005	<0.0001	
	02-Apr-14	Normal	<0.00005	0.013	<0.00001	66.1	0.00011	<0.0001	0.0002	<0.01	<0.00005	0.0044	19.9	0.00493	0.00152	0.00036	<0.3	0.99	0.00046	2.12	<0.00001	20	0.805	<0.00005	<0.0001	
	09-Apr-14	Normal	<0.00005	0.01	<0.00001	47.9	<0.0001	<0.0001	0.00025	0.011	<0.00005	0.0042	14.4	0.00654	0.00138	0.00033	<0.3	0.95	0.00034	1.7	<0.00001	12.4	0.628	<0.00005	<0.0001	
	23-Apr-14	Normal	<0.00005	<0.01	<0.00001	60.3	0.00013	<0.0001	0.00032	0.054	<0.00005	0.0042	15.7	0.00853	0.00125	0.00037	<0.3	0.94	0.00044	2.22	<0.00001	11.8	0.711	<0.00005	0.00011	
	30-Apr-14	Normal	<0.00005	0.011	<0.00001	60	<0.0001	<0.0001	0.00025	<0.01	<0.00005	0.0038	18.2	0.00685	0.0012	0.00036	<0.3	0.89	0.00042	1.86	<0.00001	13.2	0.734	<0.00005	<0.0001	
PLC-DS	02-Apr-14	Normal	<0.00005	0.01	<0.00001	61.8	<0.0001	<0.0001	0.00019	<0.01	<0.00005	0.0064	16.8	0.00277	0.000735	0.00028	<0.3	0.95	0.00012	4.35	<0.00001	17.4	0.344	<0.00005	<0.0001	
	09-Apr-14	Normal	<0.00005	<0.01	<0.00001	54.1	<0.0001	<0.0001	0.00031	0.028	<0.00005	0.0057	13.6	0.000412	0.000688	0.00031	<0.3	1.47	0.0001	3.74	<0.00001	13	0.313	<0.00005	<0.0001	
	16-Apr-14	Normal	<0.00005	<0.01	<0.00001	52.6	<0.0001	<0.0001	0.00053	0.03	<0.00005	0.0039	13.1	0.0027	0.000542	0.0005	<0.3	1.09	0.00013	3.76	<0.00001	10.9	0.266	<0.00001	<0.0001	
	23-Apr-14	Normal	<0.00005	<0.01	<0.00001	41.9	<0.0001	<0.0001	0.0007	0.046	<0.00005	0.0032	8.9	0.00121	0.000418	0.00055	<0.3	1.04	<0.0001	3.63	<0.00001	7.2	0.204	<0.00005	<0.0001	
	30-Apr-14	Normal	<0.00005	<0.01	<0.00001	36.4	<0.0001	<0.0001	0.0006	0.06	<0.00005	<0.003	8.16	0.00118	0.000339	0.00067	<0.3	0.83	<0.0001	3.29	<0.00001	5.4	0.169	<0.00005	<0.0001	

Obed Mountain Mine
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April 2014

			/ Inorganic / d Aggregat							Physical Tests																				
			Titanium (Filtered)	Uranium (Filtered)	Vanadium (Filtered)	Zinc (Filtered)	Dissolved Organic Carbon (Filtered)	TOC	Total Suspended Solids	Turbidity	Colour	Total Dissolved Solids (Filtered)	Total Suspended Solids	Turbidity	B(a)P Total Potency Equivalent	Benzo[b+]fluoranthene	C4 Benzantracenes/Chrysenes	C4 Dibenzothiophenes	C4 Fluoranthenes/Pyrenes	C4 Naphthalenes	C4 Phenanthrenes/Anthracenes	Biphenyl	1+2-Methylnaphthalenes	1-Methylnaphthalene	2-methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	NTU	Colour units	mg/L	mg/L	NTU	mg/L	µg/L	ug/L	ug/L	ug/L	ug/L	ug/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
MDL			0.0003	0.00001	0.0001	0.001	1	1	1	0.1	2	10	3	0.1	0.00001	0.01	0.04	0.04	0.04	0.04	0.04	0.01		0.01	0.01	0.01	0.01	0.01	0.01	
Location	Date	Sample Type																												
Blanks	02-Apr-14	Trip Blank	<0.0003	<0.00001	<0.0001	<0.001	<1	<1	-	-	<2	<10	<3	-	-	<0.01	-	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	08-Apr-14	Field Blank	<0.0003	<0.00001	<0.0001	<0.001	1.5	1.2	-	-	<2	<10	<3	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	23-Apr-14	Trip Blank	<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	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
APC	01-Apr-14	Normal	<0.0003	0.00368	0.00018	<0.001	2.8	2.4	-	-	2.2	617	<3	-	-	<0.01	-	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	08-Apr-14	Normal	<0.0003	0.00386	0.00021	<0.001	2.8	2.8	-	-	5.9	573	3.3	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	17-Apr-14	Normal	<0.0003	0.00342	0.00022	<0.001	-	-	-	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	22-Apr-14	Normal	0.00118	0.00322	0.00051	<0.001	7.1	8.1	-	-	26.6	458	209	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	29-Apr-14	Normal	0.00104	0.00252	0.00066	<0.001	9.6	8.5	-	-	41.3	347	318	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
APC-US-3	28-Apr-14	Normal	-	-	-	-	-	-	-	-	-	12,900	>4000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
APC-US-4	28-Apr-14	Normal	-	-	-	-	-	-	-	-	-	35,100	>4000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ATR-CON	01-Apr-14	Normal	<0.0003	0.000787	0.00011	0.0024	4.8	4.7	-	-	11.4	314	5.8	-	-	<0.01	-	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	0.067	
	08-Apr-14	Normal	<0.0003	0.000674	0.00013	<0.001	3.5	3.4	-	-	12.8	272	29.4	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	0.036	
	16-Apr-14	Normal	<0.0003	0.000708	0.00012	<0.001	-	-	-	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	0.011	
	22-Apr-14	Normal	<0.0003	0.000597	0.00021	<0.001	6.2	6.5	-	-	20.6	241	68.9	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	0.016	
	29-Apr-14	Normal	<0.0003	0.00055	0.00019	<0.001	8.6	8.3	-	-	31.5	227	25.4	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
ATR-D1	01-Apr-14	Normal	<0.0003	0.000749	0.0001	0.0014	4.8	4.8	-	-	12	322	5.5	-	-	<0.01	-	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	0.081	
	08-Apr-14	Normal	<0.0003	0.000637	0.00012	<0.001	3.7	3.4	-	-	11.8	270	13.3	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	0.029	
	16-Apr-14	Normal	<0.0003	0.000692	0.00014	<0.001	-	-	-	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	0.018	
	22-Apr-14	Normal	<0.0003	0.00065	0.00012	<0.001	4.3	4.6	-	-	10.4	280	9.6	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	0.021	
	29-Apr-14	Normal	<0.0003	0.000659	0.00011	<0.001	5.5	5	-	-	16.2	279	7.5	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	0.021	
ATR-FF-5	16-Apr-14	Normal	0.00114	0.000442	0.00026	0.0027	11.6	11.6	-	-	45.9	211	14.8	-	<0.00001	<0.01	-	-	-	-	-	-	-	-	-	<0.02	-	<0.01		
ATR-FF-7	16-Apr-14	Normal	0.00124	0.000343	0.00019	<0.001	7.9	7.8	-	-	24.9	227	11.5	-	<0.00001	<0.01	-	-	-	-	-	-	-	-	-	<0.02	-	<0.01		
ATR-US	01-Apr-14	Normal	<0.0003	0.000723	0.0001	<0.001	4.5	4.5	-	-	10.8	341	6.1	-	-	<0.01	-	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	0.094	
	02-Apr-14	Normal	<0.0003	0.000716	0.00012	0.0015	3.1	3.5	-	-	11	316	<4	-	-	<0.01	-	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	0.045	
	09-Apr-14	Normal	<0.0003	0.000637	0.00014	<0.001	3.6	3.9	-	-	11.8	265	78.4	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	0.066	
	23-Apr-14	Normal	0.00159	0.000672	0.00026	0.001	3.8	4.1	-	-	10	288	17.9	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	0.172	
	30-Apr-14	Normal	<0.0003	0.000696	0.00012	<0.001	4.7	4.2	-	-	11.9	300	11.4	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	0.043	
PLC-DS	02-Apr-14	Normal	<0.0003	0.00121	0.00014	<0.001	3.3	3.1	-	-	4.3	302	11.1	-	-	<0.01	-	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	09-Apr-14	Normal	<0.0003	0.000975	0.00018	<0.001	4.9	5.3	-	-	16.9	247	35.6	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	16-Apr-14	Normal	<0.0003	0.000791	0.00032	<0.001	-	-	-	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	23-Apr-14	Normal	0.00087	0.000515	0.00028	<0.001	11.2	10.7	-	-	39.2	191	309	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	30-Apr-14	Normal	0.00111	0.000389	0.00028	<0.001	13	12.6	-	-	50.1	157	140	-	-	<0.01	<0.04	<0.04	<0.04	<0.08	<0.04	<0.02	<0.028	<0.02	<0.02	<0.01	<0.02	<0.01	<0.01	

Obed Mountain Mine
Water Quality
April 2014

			C2 Naphthalenes	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	Chromium (III+VI)	Cobalt	Copper	Iron	Lead	Lithium
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/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			0.04	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																									
Blanks	02-Apr-14	Trip Blank	<0.04	<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
	08-Apr-14	Field Blank	<0.04	<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
	23-Apr-14	Trip Blank	<0.04	<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
APC	01-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0238	<0.0001	0.00031	0.111	<0.0001	<0.00005	0.055	<0.00001	86.9	<0.0001	0.0001	0.00028	0.126	<0.00005	0.0398
	08-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.063	<0.0001	0.00037	0.118	<0.0001	<0.00005	0.05	<0.00001	75.6	0.00014	0.00015	0.00039	0.15	0.000212	0.0411
	17-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0714	0.00012	0.0004	0.143	<0.0001	<0.00005	0.04	0.00001	73.5	0.00013	0.00021	0.00077	0.163	0.000073	0.0285
	22-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	2.51	0.00016	0.00202	0.247	0.00014	0.000052	0.034	0.000097	64.8	0.00354	0.00207	0.00533	4.36	0.00269	0.0226
	29-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	2.3	0.00016	0.0019	0.185	0.0002	<0.00005	0.023	0.000105	56.8	0.00322	0.00206	0.00571	4.24	0.00338	0.0177
APC-US-3	28-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-US-4	28-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-CON	01-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.086	<0.0001	0.00012	0.0604	<0.0001	<0.00005	0.01	<0.00001	59.9	0.00022	<0.0001	0.00031	0.122	0.000099	<0.005
	08-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.243	<0.0001	0.00031	0.0606	<0.0001	<0.00005	<0.01	0.000016	54.9	0.00045	0.00024	0.00086	0.518	0.000368	0.0051
	16-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.195	<0.0001	0.00031	0.0759	<0.0001	<0.00005	0.01	0.000012	58.8	0.00029	0.00016	0.0005	0.314	0.000236	<0.005
	22-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.673	<0.0001	0.0007	0.109	<0.0001	<0.00005	<0.01	0.000025	50.3	0.00098	0.00051	0.003	1.2	0.000915	<0.005
	29-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.425	<0.0001	0.00049	0.0816	<0.0001	<0.00005	<0.01	0.000011	47.1	0.00056	0.00027	0.00084	0.628	0.000393	<0.005
ATR-D1	01-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0707	<0.0001	0.00013	0.0624	<0.0001	<0.00005	0.011	<0.00001	61.4	0.00023	<0.0001	0.00032	0.096	0.000069	<0.005
	08-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.162	<0.0001	0.00025	0.0622	<0.0001	<0.00005	<0.01	0.000015	54.8	0.00032	0.00016	0.00047	0.314	0.000214	<0.005
	16-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.103	<0.0001	0.00023	0.0617	<0.0001	<0.00005	<0.01	0.000014	58	0.00021	0.00012	0.00056	0.198	0.000183	<0.005
	22-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.122	<0.0001	0.00023	0.0673	<0.0001	<0.00005	<0.01	<0.00001	56.8	0.00024	0.00013	0.00041	0.206	0.000144	<0.005
	29-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.101	<0.0001	0.00023	0.0661	<0.0001	<0.00005	<0.01	<0.00001	59.2	0.00022	<0.0001	0.00076	0.148	0.000138	<0.005
ATR-FF-5	16-Apr-14	Normal	-	-	-	-	-	-	-	-	-	0.38	<0.0001	0.00098	0.0757	<0.0001	<0.00005	0.029	0.000043	37.3	0.00058	0.00047	0.0018	0.742	0.00034	0.0083	
ATR-FF-7	16-Apr-14	Normal	-	-	-	-	-	-	-	-	-	0.226	<0.0001	0.00064	0.0571	<0.0001	<0.00005	0.036	0.000018	36.6	0.0004	0.00032	0.00117	0.8	0.00024	0.0089	
ATR-US	01-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0723	<0.0001	0.00011	0.0572	<0.0001	<0.00005	0.011	<0.00001	57.6	0.0002	<0.0001	0.00029	0.102	0.000069	<0.005
	02-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0844	<0.0001	0.00014	0.0596	<0.0001	<0.00005	0.012	0.000011	61.4	0.00059	0.0001	0.00042	0.174	0.000159	<0.005
	09-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.564	<0.0001	0.00053	0.0636	<0.0001	<0.00005	0.011	0.000037	64.1	0.00099	0.00066	0.0016	1.46	0.000955	0.0059
	23-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.161	<0.0001	0.00024	0.0665	<0.0001	<0.00005	<0.01	0.000013	61.8	0.00031	0.00015	0.00049	0.29	0.000198	<0.005
	30-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.164	<0.0001	0.00023	0.0671	<0.0001	<0.00005	<0.01	<0.00001	61.4	0.00031	0.00013	0.0007	0.252	0.000177	<0.005
PLC-DS	02-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0946	<0.0001	0.00029	0.0833	<0.0001	<0.00005	<0.01	<0.00001	66.6	0.00018	<0.0001	0.00057	0.24	0.000176	0.0067
	09-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.348	<0.0001	0.00051	0.0961	<0.0001	<0.00005	<0.01	0.000013	57.8	0.00043	0.00024	0.00079	0.622	0.000579	0.0063
	16-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	1.64	0.00011	0.00174	0.21	0.00014	0.000067	<0.01	0.000099	58.9	0.00202	0.00159	0.0036	2.89	0.00389	0.0058
	23-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	2.36	<0.0001	0.00232	0.256	0.00015	<0.00005	<0.01	0.000078	49.1	0.00315	0.00201	0.00458	4.37	0.00349	<0.005
	30-Apr-14	Normal	<0.08	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.08	<0.04	0.862	<0.0001	0.00088	0.114	<0.0001	<0.00005	<0.01	0.000042	39.7	0.00115	0.00081	0.00193	1.6	0.00154	<0.005

Obed Mountain Mine
Water Quality
April 2014

Total Metals			Magnesium	Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silicon	Silver	Sodium	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	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silicon	Silver	Sodium	Strontium	Thallium	Tin	Titanium	Uranium	Vanadium	Zinc
Blanks	02-Apr-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	<0.0001	<0.00001	<0.0001	<0.0003	<0.00001	<0.0001	<0.003
	08-Apr-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	<0.0001	<0.00001	<0.0001	<0.0003	<0.00001	<0.0001	<0.003
	23-Apr-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	<0.0001	<0.00001	<0.0001	<0.0003	<0.00001	<0.0001	<0.003
APC	01-Apr-14	Normal	32.7	0.0707	7.2E-7	0.00162	0.00053	<0.3	2.15	0.00019	5.07	<0.00001	97.3	0.91	<0.00001	<0.0001	0.00069	0.00352	0.00026	<0.003
	08-Apr-14	Normal	25.7	0.0801	6.5E-7	0.00223	0.00074	<0.3	2.43	0.0006	4.57	<0.00001	94.7	0.905	<0.00001	<0.0001	0.00149	0.00372	0.00042	<0.003
	17-Apr-14	Normal	22.3	0.105	-	0.00223	0.00121	<0.3	2.28	0.00081	4.23	<0.00001	74.6	0.824	<0.00001	<0.0001	0.00205	0.00354	0.00045	<0.003
	22-Apr-14	Normal	20.5	0.249	0.00000925	0.00168	0.00615	<0.3	2.56	0.00055	7.64	0.000041	67.9	0.673	0.000045	0.00014	0.0409	0.0034	0.00641	0.021
	29-Apr-14	Normal	14.1	0.21	0.0000126	0.00129	0.00635	<0.3	1.87	0.00033	6.68	0.000026	40.3	0.496	0.000038	<0.0001	0.0342	0.00244	0.00651	0.0187
APC-US-3	28-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-US-4	28-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-CON	01-Apr-14	Normal	17.4	0.0169	8.3E-7	0.00171	0.00029	<0.3	0.888	0.0004	2.39	<0.00001	19.6	0.714	<0.00001	<0.0001	0.00114	0.000786	0.00038	<0.003
	08-Apr-14	Normal	14.9	0.0314	0.00000168	0.00114	0.00079	<0.3	0.974	0.00032	2.22	<0.00001	13.2	0.633	<0.00001	<0.0001	0.00395	0.000613	0.00071	0.0033
	16-Apr-14	Normal	16.5	0.0247	-	0.00112	0.00062	<0.3	0.943	0.00033	3.09	<0.00001	11.5	0.619	<0.00001	<0.0001	0.00629	0.000743	0.00057	<0.003
	22-Apr-14	Normal	13.9	0.0499	0.00000408	0.000765	0.00202	<0.3	1.13	0.00024	3.3	<0.00001	9.56	0.422	0.000013	<0.0001	0.0152	0.000676	0.00164	0.0069
	29-Apr-14	Normal	12.1	0.0299	0.00000203	0.00075	0.00104	<0.3	0.882	0.00022	2.85	<0.00001	8.58	0.402	<0.00001	<0.0001	0.0105	0.000578	0.00114	0.0038
ATR-D1	01-Apr-14	Normal	18.1	0.0141	6.3E-7	0.00193	0.00031	<0.3	0.918	0.00043	2.39	<0.00001	19.3	0.771	<0.00001	<0.0001	0.00113	0.000761	0.00035	<0.003
	08-Apr-14	Normal	16	0.0235	8.0E-7	0.00119	0.00061	<0.3	0.962	0.00037	2.15	<0.00001	13.4	0.66	<0.00001	<0.0001	0.00334	0.000622	0.00051	<0.003
	16-Apr-14	Normal	17.3	0.0207	-	0.00123	0.00054	<0.3	0.895	0.00037	2	<0.00001	13.2	0.688	0.000011	<0.0001	0.00171	0.000699	0.0004	<0.003
	22-Apr-14	Normal	18	0.0187	0.00000113	0.00125	0.00051	<0.3	1.06	0.00036	1.69	<0.00001	12.6	0.667	<0.00001	<0.0001	0.00287	0.000703	0.00056	0.0032
	29-Apr-14	Normal	16.2	0.0168	7.9E-7	0.00115	0.00048	<0.3	0.926	0.00038	1.49	<0.00001	12.7	0.67	<0.00001	<0.0001	0.00239	0.000633	0.00047	<0.003
ATR-FF-5	16-Apr-14	Normal	10.1	0.0368	0.0000043	0.000949	0.00206	<0.3	5.6	0.00018	2.3	<0.00001	16.7	0.261	<0.00001	<0.0001	0.0109	0.000544	0.00128	0.0051
ATR-FF-7	16-Apr-14	Normal	10.4	0.0351	0.0000033	0.00075	0.00148	<0.3	2.48	0.00015	3.51	<0.00001	26.6	0.233	<0.00001	<0.0001	0.00703	0.000426	0.00092	<0.003
ATR-US	01-Apr-14	Normal	17.7	0.0187	<5.0E-7	0.00173	0.00028	<0.3	0.828	0.00046	2.11	<0.00001	18.6	0.777	<0.00001	<0.0001	0.00247	0.000732	0.00032	<0.003
	02-Apr-14	Normal	19.7	0.0245	5.2E-7	0.00159	0.00059	<0.3	0.941	0.00048	2.12	<0.00001	18.7	0.758	<0.00001	<0.0001	0.00082	0.000721	0.00036	<0.003
	09-Apr-14	Normal	16.4	0.0684	0.00000224	0.00154	0.00178	<0.3	1.14	0.00036	2.38	0.00001	13.1	0.686	0.000022	<0.0001	0.00581	0.000637	0.00147	0.0066
	23-Apr-14	Normal	17.8	0.0242	8.8E-7	0.00127	0.00061	<0.3	1.04	0.00043	1.96	<0.00001	12.7	0.735	<0.00001	<0.0001	0.00213	0.000717	0.00063	<0.003
	30-Apr-14	Normal	17.8	0.0218	5.7E-7	0.00131	0.00057	<0.3	0.945	0.00046	1.95	<0.00001	14	0.75	<0.00001	<0.0001	0.00783	0.000708	0.00062	<0.003
PLC-DS	02-Apr-14	Normal	17.1	0.0153	0.00000111	0.0008	0.00037	<0.3	0.885	0.00013	4.85	<0.00001	16.9	0.383	<0.00001	<0.0001	0.00429	0.00123	0.0005	<0.003
	09-Apr-14	Normal	14.2	0.0309	0.00000353	0.000693	0.00088	<0.3	1.59	0.00012	4.72	<0.00001	14	0.322	<0.00001	<0.0001	0.0107	0.000994	0.00092	0.0046
	16-Apr-14	Normal	13.6	0.129	-	0.000523	0.00416	<0.3	1.42	0.00018	6.02	0.000031	10.3	0.301	0.000054	<0.0001	0.0322	0.00117	0.00395	0.0158
	23-Apr-14	Normal	11.6	0.169	0.00000942	0.000433	0.00537	<0.3	1.58	0.00015	7.09	0.000027	7.23	0.216	0.000046	<0.0001	0.0436	0.000811	0.00544	0.0179
	30-Apr-14	Normal	8.6	0.095	0.00000648	0.000382	0.00228	<0.3	1	<0.0001	4.67	<0.00001	5.78	0.183	0.000017	<0.0001	0.0251	0.000528	0.00233	0.0063

Obed Mountain Mine
Water Quality
April 2014

			Organics			Anions and Nutrients																												
Location	Date	Sample Type	Hydrocarbons, Recoverable (I.R.)	BOD	Phenols (4AAP)	Alkalinity (T) as CaCO3	Ammonia	Bicarbonate	Carbonate	Chloride	Electrical Conductivity (lab)	Hydroxide	Ionic Balance	Kjeldahl Nitrogen Total	Nitrate (as N)	Nitrate + Nitrite-N	Nitrite (as N)	pH (Lab)	Phosphorus	Phosphorus (Filtered)	Sulphate	Sulphide	Hardness as CaCO3	Total Dissolved Solids	Aluminium (Filtered)	Antimony (Filtered)	Arsenic (Filtered)	Barium (Filtered)	Beryllium (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	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				
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	0.0015			0.001	0.0001	0.0001	0.00005	0.0001					
PLC-DS2	02-Apr-14	Normal	<1	<2	<1	258	<0.05	314	<5	0.52	0.494	<5	94.3	<0.2	0.095	0.095	<0.05	8.14	0.0111	0.0023	20.2	<0.002	225	274	0.0014	<0.0001	0.00022	0.0843	<0.0005					
	08-Apr-14	Normal	<1	<2	2.8	231	<0.05	281	<5	0.53	0.424	<5	93.6	<0.2	0.096	0.096	<0.05	8.07	0.0404	0.0046	16.8	<0.002	202	243	0.0031	<0.0001	0.00023	0.0775	<0.0005					
	16-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0027	<0.0001	0.0003	0.0737	<0.0001					
	22-Apr-14	Normal	<1	<2	5.4	149	<0.05	182	<5	<0.5	0.293	<5	99.1	1.61	0.073	0.073	<0.05	8.02	0.48	0.0044	8.18	0.0029	141	156	0.0082	<0.0001	0.00044	0.0839	<0.0005					
	29-Apr-14	Normal	1.3	<2	4.1	133	<0.05	163	<5	<0.5	0.263	<5	103	0.74	0.102	0.102	<0.02	7.95	0.192	0.0063	9.19	<0.0015	134	144	0.0122	<0.0001	0.00033	0.0599	<0.0005					
PLC-US	02-Apr-14	Normal	<1	<2	<1	242	<0.05	295	<5	<0.5	0.435	<5	96.7	<0.2	0.101	0.101	<0.05	7.96	0.0082	0.0032	3.49	<0.002	224	235	0.0019	<0.0001	0.00023	0.0691	<0.0005					
	09-Apr-14	Normal	<1	2.9	8	172	<0.05	209	<5	0.66	0.31	<5	92.5	<0.2	0.103	0.103	<0.05	7.78	0.0508	0.0359	2.64	<0.002	151	167	0.0016	<0.0001	0.00033	0.0523	<0.0005					
	16-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0044	<0.0001	0.00028	0.0525	<0.0001					
	23-Apr-14	Normal	<1	<2	6.2	119	<0.05	146	<5	<0.5	0.23	<5	104	0.52	0.097	0.097	<0.05	7.88	0.0458	0.0103	2.14	<0.002	121	121	0.0131	<0.0001	0.00053	0.0425	<0.0005					
	30-Apr-14	Normal	<1	<2	4.1	109	<0.05	133	<5	<0.5	0.207	<5	104	0.47	0.145	0.145	<0.02	7.79	0.0324	0.008	2.34	<0.0015	112	111	0.0176	<0.0001	0.00031	0.0382	<0.0005					
PLC-US-1	25-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
PLC-US-3	25-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Routine 1	01-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	02-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	03-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	04-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	05-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	06-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	09-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Routine 2	01-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	02-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Obed Mountain Mine
Water Quality
April 2014

		Dissolved Metals																								
		Bismuth (Filtered)	Boron (Filtered)	Cadmium (Filtered)	Calcium (Filtered)	Chromium (III+VI) (Filtered)	Cobalt (Filtered)	Copper (Filtered)	Iron (Filtered)	Lead (Filtered)	Lithium (Filtered)	Magnesium (Filtered)	Manganese (Filtered)	Molybdenum (Filtered)	Nickel (Filtered)	Phosphorus (Filtered)	Potassium (Filtered)	Selenium (Filtered)	Silicon (Filtered)	Silver (Filtered)	Sodium (Filtered)	Strontium (Filtered)	Thallium (Filtered)	Tin (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	mg/L		
MDL		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	0.00001	0.0001		
Location	Date	Sample Type																								
		Field Duplicate	<0.00005	<0.01	<0.00001	37.2	<0.0001	<0.0001	0.00074	0.064	<0.00005	<0.003	8.12	0.00123	0.000359	0.00079	<0.3	0.83	<0.0001	3.28	<0.00001	5.5	0.177	<0.00005	<0.0001	
PLC-DS2	02-Apr-14	Normal	<0.00005	0.01	<0.00001	63.1	<0.0001	<0.0001	0.00016	<0.01	<0.00005	0.0063	16.3	0.0014	0.000723	0.00027	<0.3	0.95	0.00012	4.56	<0.00001	17.4	0.343	<0.00005	<0.0001	
	08-Apr-14	Normal	<0.00005	<0.01	<0.00001	58.6	<0.0001	<0.0001	0.0003	0.02	<0.00005	0.0061	13.6	0.000325	0.000706	0.00024	<0.3	1.03	0.00011	3.78	<0.00001	13.5	0.343	<0.00005	<0.0001	
	16-Apr-14	Normal	<0.00005	<0.01	<0.00001	49.2	<0.0001	<0.0001	0.00046	0.026	<0.00005	0.0034	13.8	0.00103	0.000499	0.00051	<0.3	1.14	0.00012	3.6	<0.00001	11	0.241	<0.00001	<0.0001	
	22-Apr-14	Normal	<0.00005	<0.01	<0.00001	41.3	<0.0001	<0.0001	0.00086	0.04	<0.00005	<0.003	9.29	0.00108	0.00042	0.00062	<0.3	1.06	<0.0001	3.65	<0.00001	6.4	0.204	<0.00005	<0.0001	
	29-Apr-14	Normal	<0.00005	<0.01	<0.00001	39	<0.0001	<0.0001	0.0007	0.046	<0.00005	<0.003	8.89	0.00147	0.000376	0.00075	<0.3	0.88	<0.0001	3.42	<0.00001	5.9	0.186	<0.00005	<0.0001	
PLC-US	02-Apr-14	Normal	<0.00005	<0.01	<0.00001	63.5	<0.0001	<0.0001	0.00011	<0.01	<0.00005	0.0037	15.8	0.0224	0.000473	0.00028	<0.3	0.88	0.0001	5	<0.00001	6	0.304	<0.00005	<0.0001	
	09-Apr-14	Normal	<0.00005	<0.01	<0.00001	43.4	<0.0001	<0.0001	0.00027	0.18	<0.00005	<0.003	10.3	0.00213	0.000404	0.00026	<0.3	2.67	<0.0001	3.6	<0.00001	3.7	0.205	<0.00005	<0.0001	
	16-Apr-14	Normal	<0.00005	<0.01	<0.00001	43.7	<0.0001	<0.0001	0.00035	0.132	<0.00005	<0.003	11.2	0.00685	0.000259	0.00045	<0.3	1.26	<0.0001	3.81	<0.00001	3.43	0.173	<0.00001	<0.0001	
	23-Apr-14	Normal	<0.00005	<0.01	<0.00001	35.8	<0.0001	<0.0001	0.00047	0.102	<0.00005	<0.003	7.67	0.00131	0.000244	0.00056	<0.3	1.15	<0.0001	3.68	<0.00001	2.2	0.125	<0.00005	<0.0001	
	30-Apr-14	Normal	<0.00005	<0.01	<0.00001	33.3	<0.0001	<0.0001	0.00055	0.099	<0.00005	<0.003	7.05	0.0014	0.000205	0.00061	<0.3	0.87	<0.0001	3.54	<0.00001	1.7	0.108	<0.00005	<0.0001	
PLC-US-1	25-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PLC-US-3	25-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Routine 1	01-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	02-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	04-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	05-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	06-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	07-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	08-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	09-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Routine 2	01-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	02-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Obed Mountain Mine
Water Quality
April 2014

			/ Inorganic / Aggregate							Physical Tests																				
			Titanium (Filtered)	Uranium (Filtered)	Vanadium (Filtered)	Zinc (Filtered)	Dissolved Organic Carbon (Filtered)	TOC	Total Suspended Solids	Turbidity	Colour	Total Dissolved Solids (Filtered)	Total Suspended Solids	Turbidity	B(a)P Total Potency Equivalent	Benzo[b+]]fluoranthene	C4 Benzantracenes/Chrysenes	C4 Dibenzothiophenes	C4 Fluoranthenes/Pyrenes	C4 Naphthalenes	C4 Phenanthrenes/Anthracenes	Biphenyl	1+2-Methylnaphthalenes	1-Methylnaphthalene	2-methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	NTU	Colour units	mg/L	mg/L	NTU	mg/L	µg/L	ug/L	ug/L	ug/L	ug/L	ug/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
MDL			0.0003	0.00001	0.0001	0.001	1	1	1	0.1	2	10	3	0.1	0.00001	0.01	0.04	0.04	0.04	0.04	0.04	0.01		0.01	0.01	0.01	0.01	0.01	0.01	
Location	Date	Sample Type																												
		Field Duplicate	0.00107	0.000416	0.00034	0.0011	12.9	13.1	-	-	51.1	155	125	-	-	<0.01	<0.04	<0.04	<0.04	<0.08	<0.04	<0.02	<0.028	<0.02	<0.02	<0.01	<0.02	<0.01	<0.01	
PLC-DS2	02-Apr-14	Normal	<0.0003	0.00125	0.00014	<0.001	3.3	3.1	-	-	5.8	302	12.8	-	-	<0.01	-	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	08-Apr-14	Normal	<0.0003	0.00105	0.00015	<0.001	3.9	4.3	-	-	11.2	256	62.6	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	16-Apr-14	Normal	<0.0003	0.000734	0.00018	<0.001	-	-	-	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	22-Apr-14	Normal	0.00085	0.000501	0.00035	<0.001	9.9	10.5	-	-	24.9	196	827	-	-	<0.01	<0.04	<0.04	<0.04	0.052	<0.04	<0.01	0.025	0.014	0.011	<0.01	<0.01	<0.01	<0.01	
	29-Apr-14	Normal	0.00062	0.000445	0.00034	<0.001	12.5	12.3	-	-	48.4	174	241	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
PLC-US	02-Apr-14	Normal	<0.0003	0.000825	<0.0001	<0.001	4.2	4	-	-	6.5	268	<3	-	-	<0.01	-	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	09-Apr-14	Normal	<0.0003	0.000495	0.00013	<0.001	7.8	7.7	-	-	36.5	195	<3	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	16-Apr-14	Normal	<0.0003	0.000332	0.00013	<0.001	-	-	-	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	23-Apr-14	Normal	0.00068	0.000219	0.00021	<0.001	12.9	12.9	-	-	52.1	160	30	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	30-Apr-14	Normal	0.00055	0.000182	0.00024	<0.001	14.3	13.5	-	-	58.3	141	19.3	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
PLC-US-1	25-Apr-14	Normal	-	-	-	-	-	-	-	-	-	13,600	882	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PLC-US-3	25-Apr-14	Normal	-	-	-	-	-	-	-	-	-	6900	1300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Routine 1	01-Apr-14	Normal	-	-	-	-	-	-	3	3.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	02-Apr-14	Normal	-	-	-	-	-	-	<3	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	03-Apr-14	Normal	-	-	-	-	-	-	<1	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	04-Apr-14	Normal	-	-	-	-	-	-	<1	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	05-Apr-14	Normal	-	-	-	-	-	-	<3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	06-Apr-14	Normal	-	-	-	-	-	-	6	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	07-Apr-14	Normal	-	-	-	-	-	-	<3	18.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	08-Apr-14	Normal	-	-	-	-	-	-	<5	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	09-Apr-14	Normal	-	-	-	-	-	-	<5	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	10-Apr-14	Normal	-	-	-	-	-	-	3	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	11-Apr-14	Normal	-	-	-	-	-	-	3	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	12-Apr-14	Normal	-	-	-	-	-	-	3	3.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	13-Apr-14	Normal	-	-	-	-	-	-	6	5.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	14-Apr-14	Normal	-	-	-	-	-	-	6	7.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	15-Apr-14	Normal	-	-	-	-	-	-	8	6.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	16-Apr-14	Normal	-	-	-	-	-	-	<5	5.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	17-Apr-14	Normal	-	-	-	-	-	-	4	4.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Routine 2	01-Apr-14	Normal	-	-	-	-	-	-	12	6.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	02-Apr-14	Normal	-	-	-	-	-	-	12	5.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

Obed Mountain Mine
Water Quality
April 2014

Polycyclic Aromatic Hydrocarbons

			Benzo(a)pyrene	Acridine	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	
MDL			0.005	0.01	0.01	0.01	0.01	0.04	0.04	0.04	0.04	0.04	0.01	0.04	0.04	0.04	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.04	0.04	0.04	
Location	Date	Sample Type																														
		Field Duplicate	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04	<0.04	<0.04	<0.08	<0.04	<0.01	<0.04	<0.04	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	0.136	<0.04	<0.08	<0.04	<0.04	
PLC-DS2	02-Apr-14	Normal	<0.01	<0.01	<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	<0.01	<0.01	<0.01	<0.01	<0.01	0.059	<0.04	<0.04	<0.04	<0.04	
	08-Apr-14	Normal	<0.01	<0.01	<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	<0.01	<0.01	<0.01	<0.01	<0.01	0.233	<0.04	<0.04	<0.04	<0.04	
	16-Apr-14	Normal	<0.01	<0.01	<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	<0.01	<0.01	<0.01	<0.01	<0.01	0.252	<0.04	<0.04	<0.04	<0.04	
	22-Apr-14	Normal	<0.01	<0.01	<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	<0.01	<0.01	<0.01	<0.01	<0.01	0.798	<0.04	<0.04	<0.04	<0.04	
	29-Apr-14	Normal	<0.01	<0.01	<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	<0.01	<0.01	<0.01	<0.01	-	0.407	<0.04	<0.04	<0.04	<0.04	
PLC-US	02-Apr-14	Normal	<0.01	<0.01	<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	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04	<0.04	<0.04	<0.04	
	09-Apr-14	Normal	<0.01	<0.01	<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	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04	<0.04	<0.04	<0.04	
	16-Apr-14	Normal	<0.01	0.128	<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	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04	<0.04	<0.04	<0.04	
	23-Apr-14	Normal	<0.01	<0.01	<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	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04	<0.04	<0.04	<0.04	
	30-Apr-14	Normal	<0.01	<0.01	<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	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.04	<0.04	<0.04	<0.04	
PLC-US-1	25-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PLC-US-3	25-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Routine 1	01-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	02-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	04-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	05-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	06-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	07-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	08-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	09-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Routine 2	01-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	02-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Obed Mountain Mine
Water Quality
April 2014

			C2 Naphthalenes	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	Chromium (III+VI)	Cobalt	Copper	Iron	Lead	Lithium		
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/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			0.04	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																											
		Field Duplicate	<0.08	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.08	<0.04	1.18	<0.0001	0.00117	0.146	<0.0001	<0.00005	<0.01	0.000045	40.2	0.00158	0.00095	0.00229	2.07	0.00178	<0.005	
PLC-DS2	02-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.19	<0.0001	0.00033	0.0877	<0.0001	<0.00005	<0.01	<0.00001	67.8	0.00023	0.00011	0.00047	0.3	0.000261	0.0064	
	08-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.5	<0.0001	0.00063	0.121	<0.0001	<0.00005	<0.01	0.000018	59.8	0.00061	0.00038	0.00105	0.918	0.00104	0.0066	
	16-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.765	<0.0001	0.00087	0.139	<0.0001	<0.00005	<0.01	0.000041	54.4	0.00089	0.00053	0.00141	1.21	0.00127	<0.005	
	22-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	6.12	0.00014	0.00663	0.694	0.00037	0.000124	<0.01	0.00024	63.3	0.00789	0.00506	0.0114	10.9	0.00993	0.0069	
	29-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	1.88	<0.0001	0.00186	0.203	0.00013	<0.00005	<0.01	0.000074	44.2	0.00261	0.00166	0.0038	3.43	0.00316	<0.005	
PLC-US	02-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0101	<0.0001	0.00038	0.0712	<0.0001	<0.00005	<0.01	<0.00001	66.6	<0.0001	<0.0001	0.00018	0.386	<0.00005	<0.005	
	09-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0664	<0.0001	0.00043	0.0561	<0.0001	<0.00005	<0.01	<0.00001	45	0.00013	<0.0001	0.00036	0.511	0.000167	<0.005	
	16-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0626	<0.0001	0.00038	0.0519	<0.0001	<0.00005	<0.01	<0.00001	44.6	0.00013	0.00013	0.00039	0.421	0.000096	<0.005	
	23-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.329	<0.0001	0.00061	0.0518	<0.0001	<0.00005	<0.01	0.00002	35	0.00056	0.00033	0.00115	0.942	0.00035	<0.005	
	30-Apr-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.299	<0.0001	0.00055	0.0461	<0.0001	<0.00005	<0.01	0.000046	33.4	0.00079	0.00029	0.00141	0.657	0.000435	<0.005	
PLC-US-1	25-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PLC-US-3	25-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Routine 1	01-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	02-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	04-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	05-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	06-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	07-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	08-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	09-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
16-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
17-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Routine 2	01-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	02-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Obed Mountain Mine
Water Quality
April 2014

			Total Metals																	
			Magnesium	Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silicon	Silver	Sodium	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																		
		Field Duplicate	8.7	0.0943	0.00000566	0.000387	0.00274	<0.3	1.07	0.00011	5.07	0.000014	5.77	0.185	0.000026	<0.0001	0.0284	0.000548	0.00289	0.008
PLC-DS2	02-Apr-14	Normal	17	0.0112	0.00000137	0.000813	0.0004	<0.3	0.862	0.00013	4.91	<0.00001	17.1	0.389	<0.00001	<0.0001	0.00464	0.00125	0.00058	<0.003
	08-Apr-14	Normal	14.9	0.0359	0.00000566	0.000692	0.00114	<0.3	1.21	0.00012	4.4	<0.00001	14.8	0.341	0.000011	<0.0001	0.0154	0.00107	0.00119	0.0039
	16-Apr-14	Normal	13.2	0.0469	-	0.000555	0.00173	<0.3	1.31	0.00015	5.09	0.000015	10.4	0.277	0.000026	<0.0001	0.0208	0.000884	0.00166	0.0073
	22-Apr-14	Normal	15	0.362	0.00000821	0.000549	0.0131	0.44	2.29	0.00031	13	0.000095	6.66	0.283	0.000141	0.00015	0.0832	0.00157	0.0134	0.0496
	29-Apr-14	Normal	9.67	0.131	0.00000609	0.000404	0.0046	<0.3	1.19	0.00015	6.49	0.000027	5.75	0.197	0.000043	<0.0001	0.0373	0.000747	0.00466	0.0147
PLC-US	02-Apr-14	Normal	16.8	0.0362	5.2E-7	0.000473	0.00023	<0.3	0.833	0.00013	4.85	<0.00001	5.67	0.316	<0.00001	<0.0001	0.00067	0.000765	0.00016	<0.003
	09-Apr-14	Normal	10.9	0.0617	0.00000125	0.000418	0.00036	<0.3	2.8	<0.0001	3.66	<0.00001	3.93	0.209	<0.00001	<0.0001	0.00225	0.000461	0.00037	<0.003
	16-Apr-14	Normal	10.5	0.06	-	0.000255	0.00045	<0.3	1.28	<0.0001	3.84	<0.00001	3.24	0.182	<0.00001	0.00019	0.0012	0.000331	0.00037	<0.003
	23-Apr-14	Normal	8.31	0.084	0.00000361	0.000206	0.0011	<0.3	1.29	<0.0001	3.97	<0.00001	2.32	0.121	<0.00001	<0.0001	0.00564	0.000231	0.00104	0.0033
	30-Apr-14	Normal	6.83	0.0419	0.00000285	0.000249	0.0011	<0.3	0.878	<0.0001	3.89	<0.00001	1.72	0.114	<0.00001	<0.0001	0.01	0.0017	0.0017	<0.003
PLC-US-1	25-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLC-US-3	25-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Routine 1	01-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	02-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	03-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	04-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	05-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	06-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	09-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Routine 2	01-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	02-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Obed Mountain Mine
Water Quality
April 2014

			Organics			Anions and Nutrients																								
Location	Date	Sample Type	Hydrocarbons, Recoverable (I.R.)	BOD	Phenols (4AAP)	Alkalinity (T) as CaCO3	Ammonia	Bicarbonate	Carbonate	Chloride	Electrical Conductivity (lab)	Hydroxide	Ionic Balance	Kjeldahl Nitrogen Total	Nitrate (as N)	Nitrate + Nitrite-N	Nitrite (as N)	pH (Lab)	Phosphorus	Phosphorus (Filtered)	Sulphate	Sulphide	Hardness as CaCO3	Total Dissolved Solids	Aluminium (Filtered)	Antimony (Filtered)	Arsenic (Filtered)	Barium (Filtered)	Beryllium (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	0.0015			0.001	0.0001	0.0001	0.00005	0.0001	
	03-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	04-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	05-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	06-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	09-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Routine C	01-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	02-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	03-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	04-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	05-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	06-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	09-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Obed Mountain Mine
Water Quality
April 2014

Dissolved Metals

			Bismuth (Filtered)	Boron (Filtered)	Cadmium (Filtered)	Calcium (Filtered)	Chromium (III+VI) (Filtered)	Cobalt (Filtered)	Copper (Filtered)	Iron (Filtered)	Lead (Filtered)	Lithium (Filtered)	Magnesium (Filtered)	Manganese (Filtered)	Molybdenum (Filtered)	Nickel (Filtered)	Phosphorus (Filtered)	Potassium (Filtered)	Selenium (Filtered)	Silicon (Filtered)	Silver (Filtered)	Sodium (Filtered)	Strontium (Filtered)	Thallium (Filtered)	Tin (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	mg/L		
MDL			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	0.00001	0.0001		
Location	Date	Sample Type																									
	03-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	04-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	05-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	06-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	09-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Routine C	01-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	02-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	03-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	04-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	05-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	06-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	09-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Obed Mountain Mine
Water Quality
April 2014

			/ Inorganic / Aggregate						Physical Tests																				
			Titanium (Filtered)	Uranium (Filtered)	Vanadium (Filtered)	Zinc (Filtered)	Dissolved Organic Carbon (Filtered)	TOC	Total Suspended Solids	Turbidity	Colour	Total Dissolved Solids (Filtered)	Total Suspended Solids	Turbidity	B(a)P Total Potency Equivalent	Benzo[b+g]fluoranthene	C4 Benzantracenes/Chrysenes	C4 Dibenzothiophenes	C4 Fluoranthenes/Pyrenes	C4 Naphthalenes	C4 Phenanthrenes/Anthracenes	Biphenyl	1+2-Methylnaphthalenes	1-Methylnaphthalene	2-methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	NTU	Colour units	mg/L	mg/L	NTU	mg/L	µg/L	ug/L	ug/L	ug/L	ug/L	ug/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MDL			0.0003	0.00001	0.0001	0.001	1	1	1	0.1	2	10	3	0.1	0.00001	0.01	0.04	0.04	0.04	0.04	0.04	0.01		0.01	0.01	0.01	0.01	0.01	0.01
Location	Date	Sample Type																											
	03-Apr-14	Normal	-	-	-	-	-	-	11	5.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	04-Apr-14	Normal	-	-	-	-	-	-	5	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	05-Apr-14	Normal	-	-	-	-	-	-	14	8.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	06-Apr-14	Normal	-	-	-	-	-	-	20	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07-Apr-14	Normal	-	-	-	-	-	-	27	18.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08-Apr-14	Normal	-	-	-	-	-	-	81	53.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	09-Apr-14	Normal	-	-	-	-	-	-	43	18.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10-Apr-14	Normal	-	-	-	-	-	-	44	21.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-Apr-14	Normal	-	-	-	-	-	-	46	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12-Apr-14	Normal	-	-	-	-	-	-	66	33.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13-Apr-14	Normal	-	-	-	-	-	-	87	46.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14-Apr-14	Normal	-	-	-	-	-	-	109	49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15-Apr-14	Normal	-	-	-	-	-	-	132	58.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16-Apr-14	Normal	-	-	-	-	-	-	115	45.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17-Apr-14	Normal	-	-	-	-	-	-	31	14.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Routine C	01-Apr-14	Normal	-	-	-	-	-	-	3	4.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	02-Apr-14	Normal	-	-	-	-	-	-	46	28.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	03-Apr-14	Normal	-	-	-	-	-	-	16	10.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	04-Apr-14	Normal	-	-	-	-	-	-	5	4.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	05-Apr-14	Normal	-	-	-	-	-	-	16	19.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	06-Apr-14	Normal	-	-	-	-	-	-	11	35.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07-Apr-14	Normal	-	-	-	-	-	-	25	42.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08-Apr-14	Normal	-	-	-	-	-	-	11	39.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	09-Apr-14	Normal	-	-	-	-	-	-	2	6.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10-Apr-14	Normal	-	-	-	-	-	-	<1	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-Apr-14	Normal	-	-	-	-	-	-	<1	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12-Apr-14	Normal	-	-	-	-	-	-	3	1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13-Apr-14	Normal	-	-	-	-	-	-	<1	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14-Apr-14	Normal	-	-	-	-	-	-	3	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15-Apr-14	Normal	-	-	-	-	-	-	<1	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16-Apr-14	Normal	-	-	-	-	-	-	2	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17-Apr-14	Normal	-	-	-	-	-	-	3	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Obed Mountain Mine
Water Quality
April 2014

Polycyclic Aromatic Hydrocarbons

	Benzo(a)pyrene	Acridine	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
MDL	0.005	0.01	0.01	0.01	0.01	0.04	0.04	0.04	0.04	0.04	0.01	0.04	0.04	0.04	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.04	0.04	0.04

Location	Date	Sample Type	Benzo(a)pyrene	Acridine	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	
	03-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	04-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	05-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	06-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	09-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Routine C	01-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	02-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	03-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	04-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	05-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	06-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	09-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Obed Mountain Mine
Water Quality
April 2014

			C2 Naphthalenes	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	Chromium (III+VI)	Cobalt	Copper	Iron	Lead	Lithium		
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/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			0.04	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																											
	03-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	04-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	05-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	06-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	09-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Routine C	01-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	02-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	03-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	04-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	05-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	06-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	09-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Obed Mountain Mine
Water Quality
April 2014

			Total Metals																		
			Magnesium	Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silicon	Silver	Sodium	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																			
	03-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	04-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	05-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	06-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	09-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Routine C	01-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	02-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	03-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	04-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	05-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	06-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	09-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17-Apr-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-