

Obed Mountain Mine

Water Quality

February 2014

Dissolved Metals

			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)	Titanium (Filtered)	
MDL			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	0.0003	
Location	Date	Sample Type																								
Blanks	05-Feb-14	Trip Blank	<0.01	<0.00001	<0.5	<0.0001	<0.0001	<0.0001	<0.01	<0.00005	<0.003	<0.1	0.000062	<0.00005	<0.0001	<0.3	<0.5	<0.0001	<0.05	<0.00001	<1	<0.0001	<0.00005	<0.0001	<0.0003	
	12-Feb-14	Field Blank	<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	0.00018	<0.00005	<0.0001	<0.0003	
	26-Feb-14	Trip Blank	<0.01	<0.00001	<0.5	<0.0001	<0.0001	0.00015	<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	<0.0003	
APC	04-Feb-14	Normal	0.046	<0.00001	77.7	<0.0001	<0.0001	0.00023	<0.01	<0.00005	0.0367	31.6	0.0533	0.00172	0.00065	<0.3	2.08	<0.0001	5.53	<0.00001	99	0.889	<0.00005	<0.0001	<0.0003	
	11-Feb-14	Normal	0.052	<0.00001	92.7	<0.0001	<0.0001	0.0002	<0.01	<0.00005	0.0367	30.9	0.0671	0.00186	0.00056	<0.3	2.05	<0.0001	5.4	<0.00001	94.6	0.953	<0.00005	<0.0001	<0.0003	
	18-Feb-14	Normal	0.053	<0.00001	88.9	<0.0001	<0.0001	0.00024	<0.01	<0.00005	0.0366	30.9	0.0794	0.00159	0.00051	<0.3	2.17	<0.0001	5.54	<0.00001	91.7	0.92	<0.00005	<0.0001	<0.0003	
	25-Feb-14	Normal	0.05	<0.00001	79.8	<0.0001	<0.0001	0.00014	<0.01	<0.00005	0.0382	30.5	0.0451	0.00163	0.00049	<0.3	2.09	<0.0001	5.77	<0.00001	97.6	0.906	<0.00005	<0.0001	<0.0003	
ATR-AD1	26-Feb-14	Normal	0.016	0.000017	47.5	<0.0001	<0.0001	0.00073	0.017	<0.00005	0.0087	13.3	0.00191	0.000947	0.00109	<0.3	2.13	0.00021	3.12	<0.00001	19.3	0.357	<0.00005	<0.0001	<0.0003	
ATR-CON	04-Feb-14	Normal	<0.01	<0.00001	60.9	<0.0001	<0.0001	0.00018	<0.01	<0.00005	0.0038	19.3	0.00351	0.00115	0.00032	<0.3	0.83	0.00044	2.67	<0.00001	17.3	0.665	<0.00005	<0.0001	<0.0003	
	11-Feb-14	Normal	0.011	<0.00001	68.7	<0.0001	<0.0001	0.00025	0.011	<0.00005	0.0045	20	0.00297	0.00127	0.00034	<0.3	1	0.00041	2.57	<0.00001	19.3	0.752	<0.00005	<0.0001	<0.0003	
	18-Feb-14	Normal	0.012	<0.00001	60.7	0.00011	<0.0001	0.00017	<0.01	<0.00005	0.0037	17.8	0.0095	0.00121	0.00029	<0.3	0.79	0.00041	2.11	<0.00001	15.9	0.703	<0.00005	<0.0001	<0.0003	
	26-Feb-14	Normal	0.01	<0.00001	59.1	<0.0001	<0.0001	0.00016	<0.01	<0.00005	0.0043	17.9	0.00329	0.00116	0.00029	<0.3	0.87	0.00045	2.25	<0.00001	16.8	0.699	<0.00005	<0.0001	<0.0003	
ATR-D1	04-Feb-14	Normal	0.01	<0.00001	60.6	<0.0001	<0.0001	0.00019	<0.01	<0.00005	0.0036	19.3	0.00299	0.00126	0.00035	<0.3	0.82	0.00042	2.49	<0.00001	17.1	0.703	<0.00005	<0.0001	<0.0003	
	11-Feb-14	Normal	0.011	<0.00001	67.5	<0.0001	<0.0001	0.0004	<0.01	<0.00005	0.0043	19.8	0.00211	0.00131	0.00034	<0.3	1.04	0.00045	2.37	<0.00001	20.2	0.805	<0.00005	<0.0001	<0.0003	
	18-Feb-14	Normal	0.013	<0.00001	61.3	0.00012	<0.0001	0.00026	<0.01	<0.00005	0.0037	18.2	0.00833	0.00123	0.00032	<0.3	0.8	0.00044	2.01	<0.00001	15.3	0.749	<0.00005	<0.0001	<0.0003	
	26-Feb-14	Normal	0.01	0.000011	58.7	<0.0001	<0.0001	0.00018	<0.01	<0.00005	0.0043	18.6	0.00279	0.00121	0.00034	<0.3	0.95	0.00049	2.25	<0.00001	19.4	0.704	<0.00005	<0.0001	<0.0003	
ATR-US	04-Feb-14	Normal	0.012	<0.00001	73.5	<0.0001	<0.0001	0.00021	<0.01	<0.00005	0.0047	20.2	0.00465	0.00149	0.00039	<0.3	0.88	0.00042	2.65	<0.00001	18.3	0.87	<0.00005	<0.0001	<0.0003	
	18-Feb-14	Normal	0.012	<0.00001	60.2	0.0001	<0.0001	0.00021	<0.01	<0.00005	0.0034	18.3	0.0125	0.0012	0.00027	<0.3	0.83	0.00042	1.97	<0.00001	16.2	0.729	<0.00005	0.00025	<0.0003	
	26-Feb-14	Normal	0.01	<0.00001	58.5	0.00015	<0.0001	0.00031	<0.01	<0.00005	0.0042	22.3	0.00518	0.00122	0.00035	<0.3	1.01	0.00048	2.17	<0.00001	17.5	0.71	<0.00005	<0.0001	<0.0003	
ATR-WD1	25-Feb-14	Normal	<0.01	<0.00001	56.2	<0.0001	<0.0001	0.0003	<0.01	<0.00005	0.0047	16.8	0.00151	0.00107	0.00028	<0.3	0.82	0.00035	2.72	<0.00001	13.3	0.546	<0.00005	<0.0001	<0.0003	
PLC-DS	05-Feb-14	Normal	<0.01	<0.00001	62.4	<0.0001	<0.0001	0.00025	<0.01	<0.00005	0.0057	17.7	0.00328	0.000704	0.00032	<0.3	0.87	0.00012	4.75	<0.00001	17.3	0.361	<0.00005	<0.0001	<0.0003	
	11-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Field Duplicate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12-Feb-14	Normal	<0.01	<0.00001	68.5	<0.0001	<0.0001	0.0002	<0.01	<0.00005	0.0063	17.8	0.00288	0.000826	0.00029	<0.3	0.87	0.00015	4.43	<0.00001	16.7	0.398	<0.00005	<0.0001	<0.0003	
	19-Feb-14	Normal	0.011	<0.00001	68.5	<0.0001	<0.0001	0.00024	0.01	<0.00005	0.0062	17.2	0.0064	0.000766	0.00032	<0.3	0.83	0.00014	4.52	<0.00001	17.3	0.392	<0.00005	<0.0001	<0.0003	
25-Feb-14	Normal	<0.01	<0.00001	65.7	<0.0001	<0.0001	0.00019	<0.01	<0.00005	0.0067	17.7	0.00206	0.000762	0.00028	<0.3	0.9	0.00015	4.6	<0.00001	17.6	0.377	<0.00005	<0.0001	<0.0003		
PLC-DS2	05-Feb-14	Normal	<0.01	<0.00001	66.2	<0.0001	<0.0001	0.00027	<0.01	<0.00005	0.0057	17.4	0.00187	0.000738	0.00033	<0.3	0.84	0.00011	4.7	<0.00001	16.4	0.358	<0.00005	<0.0001	<0.0003	
	11-Feb-14	Normal	<0.01	<0.00001	69.8	<0.0001	<0.0001	0.00021	<0.01	<0.00005	0.0063	17.4	0.0016	0.000817	0.00033	<0.3	0.87	0.00014	4.61	<0.00001	16.2	0.395	<0.00005	<0.0001	<0.0003	
		Field Duplicate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19-Feb-14	Normal	0.01	<0.00001	68.3	<0.0001	<0.0001	0.00021	<0.01	<0.00005	0.0064	17.6	0.00431	0.000791	0.00029	<0.3	0.86	0.00015	4.69	<0.00001	17	0.39	<0.00005	<0.0001	<0.0003	
		Field Duplicate	0.01	<0.00001	69.1	<0.0001	<0.0001	0.00029	<0.01	<0.00005	0.0062	17.4	0.00423	0.000783	0.00031	<0.3	0.83	0.00013	4.43	<0.00001	16.7	0.394	<0.00005	<0.0001	<0.0003	
25-Feb-14	Normal	<0.01	<0.00001	66.8	<0.0001	<0.0001	0.00016	<0.01	<0.00005	0.0071	17.6	0.00351	0.000795	0.00023	<0.3	0.89	0.00014	4.63	<0.00001	17.4	0.396	<0.00005	<0.0001	<0.0003		

			Xylene (o)	Iodomethane	Styrene	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	trans-1,4-Dichloro-2-butene	Trichlorofluoromethane	Vinyl acetate	Vinyl chloride
			mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L
MDL			0.001	1	1	0.001	1	1	1	10	1	100	0.002
Location	Date	Sample Type											
Blanks	05-Feb-14	Trip Blank	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
	12-Feb-14	Field Blank	<0.001	<1	<1	<0.001	<1	<1	<1	<10	3.8	<100	<0.002
	26-Feb-14	Trip Blank	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
APC	04-Feb-14	Normal	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
	11-Feb-14	Normal	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
	18-Feb-14	Normal	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
	25-Feb-14	Normal	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
ATR-AD1	26-Feb-14	Normal	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
ATR-CON	04-Feb-14	Normal	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
	11-Feb-14	Normal	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
	18-Feb-14	Normal	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
	26-Feb-14	Normal	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
ATR-D1	04-Feb-14	Normal	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
	11-Feb-14	Normal	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
	18-Feb-14	Normal	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
	26-Feb-14	Normal	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
ATR-US	04-Feb-14	Normal	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
	18-Feb-14	Normal	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
	26-Feb-14	Normal	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
ATR-WD1	25-Feb-14	Normal	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
PLC-DS	05-Feb-14	Normal	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
	11-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
		Field Duplicate	-	-	-	-	-	-	-	-	-	-	-
	12-Feb-14	Normal	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
	19-Feb-14	Normal	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
	25-Feb-14	Normal	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
PLC-DS2	05-Feb-14	Normal	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
	11-Feb-14	Normal	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
		Field Duplicate	-	-	-	-	-	-	-	-	-	-	-
	19-Feb-14	Normal	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
		Field Duplicate	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
25-Feb-14	Normal	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002	

Obed Mountain Mine
Water Quality
February 2014

			Organics			Anions and Nutrients																									
			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)	Bismuth (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	0.5	0.0002	5		0.2	0.05	0.07	0.05	0.1	0.001	0.001	0.5	0.002			0.001	0.0001	0.0001	0.00005	0.0005	0.00005	
Location	Date	Sample Type																													
PLC-US	05-Feb-14	Normal	<1	<2	<1	241	<0.05	294	<5	<0.5	0.431	<5	96	<0.2	0.08	0.08	<0.05	7.91	0.007	0.0024	3.06	<0.002	222	233	0.0016	<0.0001	0.00027	0.0681	<0.0005	<0.00005	
PLC-US	11-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Field Duplicate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLC-US	12-Feb-14	Normal	<1	<2	1	278	<0.05	339	<5	<0.5	0.461	<5	92.6	<0.2	0.097	0.097	<0.05	7.94	0.0066	0.0021	4.2	<0.002	249	267	0.0015	<0.0001	0.00024	0.0819	<0.0005	<0.00005	
	19-Feb-14	Normal	<1	<2	<1	241	<0.05	294	<5	<0.5	0.445	<5	100	<0.2	0.104	0.104	<0.05	7.96	0.0092	0.0033	3.83	<0.002	233	238	0.0018	<0.0001	0.00023	0.0738	<0.0005	<0.00005	
	25-Feb-14	Normal	<1	<2	<1	252	<0.05	307	<5	<0.5	0.461	<5	95.5	<0.2	0.088	0.088	<0.05	7.92	0.0071	0.0029	3.56	<0.002	231	244	0.0019	<0.0001	0.00021	0.074	<0.0005	<0.00005	
Routine 1	13-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	14-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	18-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	19-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	20-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	24-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	25-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
27-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
28-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Routine 2	13-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	14-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	20-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	24-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	25-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
27-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
28-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Obed Mountain Mine
Water Quality
February 2014

Dissolved Metals

			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)	Titanium (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			0.01	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	0.0003	
Location	Date	Sample Type																								
PLC-US	05-Feb-14	Normal	<0.01	<0.00001	62	<0.0001	<0.0001	0.0002	0.019	<0.00005	<0.003	16.3	0.0238	0.00045	0.00033	<0.3	0.73	<0.0001	5.03	<0.00001	5.5	0.287	<0.00005	<0.0001	<0.0003	
PLC-US	11-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Field Duplicate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLC-US	12-Feb-14	Normal	<0.01	<0.00001	72.4	<0.0001	<0.0001	0.00017	0.014	<0.00005	0.0032	16.5	0.0271	0.000529	0.00035	<0.3	0.79	0.00011	5.1	<0.00001	5.6	0.335	<0.00005	<0.0001	<0.0003	
	19-Feb-14	Normal	<0.01	<0.00001	67.2	<0.0001	<0.0001	0.00023	0.038	<0.00005	<0.003	15.8	0.0319	0.000473	0.0003	<0.3	0.74	0.0001	4.93	<0.00001	5.6	0.326	<0.00005	<0.0001	<0.0003	
	25-Feb-14	Normal	<0.01	<0.00001	65.6	<0.0001	<0.0001	0.00012	<0.01	<0.00005	0.0037	16.2	0.0264	0.000482	0.00027	<0.3	0.8	0.00011	5.1	<0.00001	5.8	0.325	<0.00005	<0.0001	<0.0003	
Routine 1	13-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	14-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	18-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	19-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	20-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	22-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	23-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	24-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	25-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Routine 2	13-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	14-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	18-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	19-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	20-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	22-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	23-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	24-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	25-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
27-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
28-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Obed Mountain Mine
Water Quality
February 2014

			Metals		/ Inorganic		Aggregat		Physical Tests																					
Uranium (Filtered)	Vanadium (Filtered)	Zinc (Filtered)	Methyl mercury	Dissolved Organic Carbon (Filtered)	TOC	Total Suspended Solids	Turbidity	Colour	Total Dissolved Solids (Filtered)	Total Suspended Solids	Turbidity	Benzo[b+]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	ng/L	mg/L	mg/L	mg/L	NTU	Colour units	mg/L	mg/L	NTU	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	0.001	-	-	1	0.1	2	10	3	0.1	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	0.01	0.01				
Location	Date	Sample Type																												
PLC-US	05-Feb-14	Normal	0.000729	<0.0001	<0.001	-	-	4.5	4.2	-	-	12.6	237	<3	2.02	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PLC-US	11-Feb-14	Normal	-	-	-	0.028 - 0.037	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Field Duplicate	-	-	-	0.028	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLC-US	12-Feb-14	Normal	0.000898	<0.0001	<0.001	-	-	4.1	3.9	-	-	13.3	254	3	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	19-Feb-14	Normal	0.000782	0.00013	<0.001	-	-	3.8	3.6	-	-	14	253	<3	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	25-Feb-14	Normal	0.00079	<0.0001	<0.001	-	-	4.3	4.1	-	-	11.4	255	<3	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Routine 1	13-Feb-14	Normal	-	-	-	-	-	-	-	131	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	14-Feb-14	Normal	-	-	-	-	-	-	-	124	37.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	18-Feb-14	Normal	-	-	-	-	-	-	-	101	41.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	19-Feb-14	Normal	-	-	-	-	-	-	-	110	36.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	20-Feb-14	Normal	-	-	-	-	-	-	-	102	46.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-Feb-14	Normal	-	-	-	-	-	-	-	97	32.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	22-Feb-14	Normal	-	-	-	-	-	-	-	99	47.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	23-Feb-14	Normal	-	-	-	-	-	-	-	88	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	24-Feb-14	Normal	-	-	-	-	-	-	-	110	15.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	25-Feb-14	Normal	-	-	-	-	-	-	-	120	31.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	26-Feb-14	Normal	-	-	-	-	-	-	-	127	55.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
27-Feb-14	Normal	-	-	-	-	-	-	-	132	65.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
28-Feb-14	Normal	-	-	-	-	-	-	-	185	102	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Routine 2	13-Feb-14	Normal	-	-	-	-	-	-	-	132	56.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	14-Feb-14	Normal	-	-	-	-	-	-	-	127	28.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	18-Feb-14	Normal	-	-	-	-	-	-	-	108	36.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	19-Feb-14	Normal	-	-	-	-	-	-	-	110	51.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	20-Feb-14	Normal	-	-	-	-	-	-	-	105	38.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-Feb-14	Normal	-	-	-	-	-	-	-	354	166	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	22-Feb-14	Normal	-	-	-	-	-	-	-	112	53.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	23-Feb-14	Normal	-	-	-	-	-	-	-	112	54.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	24-Feb-14	Normal	-	-	-	-	-	-	-	109	39.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	25-Feb-14	Normal	-	-	-	-	-	-	-	100	46.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	26-Feb-14	Normal	-	-	-	-	-	-	-	115	59.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
27-Feb-14	Normal	-	-	-	-	-	-	-	96	34.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
28-Feb-14	Normal	-	-	-	-	-	-	-	101	39.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

Obed Mountain Mine
 Water Quality
 February 2014

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	C2 Phenanthrenes/Anthracenes	
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	0.01	0.01	0.01	0.01	0.04	0.04	0.04	0.04	0.04	0.04	
Location	Date	Sample Type																														
PLC-US	05-Feb-14	Normal	<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	<0.01	<0.01	<0.01	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
PLC-US	11-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Field Duplicate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PLC-US	12-Feb-14	Normal	<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	<0.01	<0.01	<0.01	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	19-Feb-14	Normal	<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	<0.01	<0.01	<0.01	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	25-Feb-14	Normal	<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	<0.01	<0.01	<0.01	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
Routine 1	13-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	14-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	18-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	19-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	20-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	22-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	23-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	24-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	25-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Routine 2	13-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	14-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	18-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	19-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	20-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	22-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	23-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	24-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	25-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
27-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
28-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Obed Mountain Mine
Water Quality
February 2014

			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	Magnesium		
			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	mg/L		
MDL			0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.003	0.0001	0.0001	0.00005	0.0005	0.00005	0.01	0.00001	0.02	0.0001	0.0001	0.0001	0.01	0.00005	0.005	0.005		
Location	Date	Sample Type																										
PLC-US	05-Feb-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0114	<0.0001	0.00038	0.0764	<0.0005	<0.00005	<0.01	<0.00001	71.4	<0.0001	<0.0001	0.00018	0.405	<0.00005	<0.005	17.3		
PLC-US	11-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		Field Duplicate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PLC-US	12-Feb-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0112	<0.0001	0.00034	0.0763	<0.0005	<0.00005	<0.01	<0.00001	72.3	<0.0001	<0.0001	<0.0001	0.392	<0.00005	<0.005	15.5		
	19-Feb-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.014	<0.0001	0.00039	0.0737	<0.0005	<0.00005	<0.01	<0.00001	66.2	<0.0001	<0.0001	<0.0001	0.357	<0.00005	<0.005	17.3		
	25-Feb-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0113	<0.0001	0.0004	0.0799	<0.0005	<0.00005	<0.01	<0.00001	70.7	<0.0001	<0.0001	0.00027	0.337	<0.00005	<0.005	17.6		
Routine 1	13-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	14-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	18-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	19-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	20-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	21-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	22-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	23-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	24-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	25-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Routine 2	13-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	14-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	18-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	19-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	20-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	21-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	22-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	23-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	24-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	25-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
26-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
27-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
28-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

Obed Mountain Mine
Water Quality
February 2014

Total Metals			Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silicon	Silver	Sodium	Strontium	Thallium	Tin	Titanium	Uranium	Vanadium	Zinc	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,2,3-trichloropropane	1,2-dibromoethane		
Location	Date	Sample Type	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	µg/L	µg/L	mg/L	mg/L	µg/L	µg/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	0.00005	0.0001	0.0003	0.00001	0.0001	0.003	0.001	20	2	0.001	0.001	5	1		
PLC-US	05-Feb-14	Normal	0.0329	<5.0E-7	0.000465	0.00026	<0.3	0.698	0.00015	5	<0.00001	5.53	0.349	<0.00005	<0.0001	0.0004	0.000743	0.00026	<0.003	<0.001	<20	<2	<0.001	<0.001	<5	<1		
PLC-US	11-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		Field Duplicate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PLC-US	12-Feb-14	Normal	0.0341	<5.0E-7	0.000472	0.0002	<0.3	0.774	0.00013	5.25	<0.00001	5.65	0.343	<0.00005	<0.0001	0.00061	0.000804	0.00014	<0.003	<0.001	<20	<2	<0.001	<0.001	<5	<1		
	19-Feb-14	Normal	0.036	<5.0E-7	0.00049	0.00024	<0.3	0.799	0.00011	5.38	<0.00001	6.02	0.326	<0.00005	<0.0001	<0.0003	0.000873	0.00038	<0.003	<0.001	<20	<2	<0.001	<0.001	<5	<1		
	25-Feb-14	Normal	0.0377	<5.0E-7	0.00049	0.00027	<0.3	0.809	<0.0001	4.39	<0.00001	6.31	0.341	<0.00005	<0.0001	<0.0003	0.00089	0.00029	0.0109	<0.001	<20	<2	<0.001	<0.001	<5	<1		
Routine 1	13-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	14-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	18-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	19-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	20-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	21-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	22-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	23-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	24-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	25-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Routine 2	13-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	14-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	18-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	19-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	20-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	21-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	22-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	23-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	24-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	25-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
26-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
27-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
28-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

Obed Mountain Mine
Water Quality
February 2014

Volatile Organic Compounds

			1,2-dichlorobenzene	1,2-dichloroethane	1,2-dichloropropane	1,3-dichlorobenzene	1,4-dichlorobenzene	Methyl Ethyl Ketone	2-hexanone (MBK)	4-Methyl-2-pentanone	Acetone	Acrolein	Acrylonitrile	Benzene	Toluene	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	cis-1,4-Dichloro-2-butene	Dibromomethane	Dichlorodifluoromethane	Dichloromethane	Ethanol	Ethyl methacrylate	Ethylbenzene	Xylene (m & p)				
MDL			1	2	2	1	1	0.1	10	0.01	0.1	100	100	0.001	0.001	1	3	10	0.001	1	1	3	0.01	1	10	1	1	10	3	3	1	0.3	10	0.001	0.001				
Location	Date	Sample Type																																					
PLC-US	05-Feb-14	Normal	<1	<2	<2	<1	<1	<0.1	<10	<0.01	<0.1	<100	<100	<0.001	<0.001	<1	<3	<10	<0.001	<1	<1	<3	<0.01	<1	<10	<1	<1	<10	<3	<3	<1	<0.3	<10	<0.001	<0.001				
PLC-US	11-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
		Field Duplicate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PLC-US	12-Feb-14	Normal	<1	<2	<2	<1	<1	<0.1	<10	<0.01	<0.1	<100	<100	<0.001	<0.001	<1	<3	<10	<0.001	<1	<1	<3	<0.01	<1	<10	<1	<1	<10	<3	<3	<1	<0.3	<10	<0.001	<0.001				
	19-Feb-14	Normal	<1	<2	<2	<1	<1	<0.1	<10	<0.01	<0.1	<100	<100	<0.001	<0.001	<1	<3	<10	<0.001	<1	<1	<3	<0.01	<1	<10	<1	<1	<10	<3	<3	<1	<0.3	<10	<0.001	<0.001				
	25-Feb-14	Normal	<1	<2	<2	<1	<1	<0.1	<10	<0.01	<0.1	<100	<100	<0.001	<0.001	<1	<3	<10	<0.001	<1	<1	<3	<0.01	<1	<10	<1	<1	<10	<3	<3	<1	<0.3	<10	<0.001	<0.001				
Routine 1	13-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	14-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	18-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	19-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	20-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	21-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	22-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	23-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	24-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	25-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
26-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
27-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
28-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Routine 2	13-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	14-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	18-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	19-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	20-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	22-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	23-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	24-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	25-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
27-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
28-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

			Xylene (o)	Iodomethane	Styrene	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	trans-1,4-Dichloro-2-butene	Trichlorofluoromethane	Vinyl acetate	Vinyl chloride
			mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L
MDL			0.001	1	1	0.001	1	1	1	10	1	100	0.002
Location	Date	Sample Type											
PLC-US	05-Feb-14	Normal	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
PLC-US	11-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
		Field Duplicate	-	-	-	-	-	-	-	-	-	-	-
PLC-US	12-Feb-14	Normal	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
	19-Feb-14	Normal	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
	25-Feb-14	Normal	<0.001	<1	<1	<0.001	<1	<1	<1	<10	<1	<100	<0.002
Routine 1	13-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	14-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	18-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	19-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	20-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	21-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	22-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	23-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	24-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	25-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	26-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
Routine 2	13-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	14-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	18-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	19-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	20-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	21-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	22-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	23-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	24-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	25-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	26-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	27-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
28-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	

Obed Mountain Mine
 Water Quality
 February 2014

			Organics			Anions and Nutrients																									
			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)	Bismuth (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	0.5	0.002	5		0.2	0.05	0.07	0.05	0.1	0.001	0.001	0.5	0.002			0.001	0.0001	0.0001	0.00005	0.0005	0.00005	
Location	Date	Sample Type																													
Routine C	13-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	14-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	18-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	19-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	20-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	22-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	23-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	24-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	25-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	26-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	27-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Obed Mountain Mine
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 February 2014

Dissolved Metals

	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)	Titanium (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	0.01	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	0.0003		
Location	Date	Sample Type																							
Routine C	13-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	14-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	18-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	19-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	20-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	22-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	23-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	24-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	25-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	26-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	27-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	28-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Obed Mountain Mine
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			Metals		/ Inorganic		Aggregat		Physical Tests																			
Uranium (Filtered)	Vanadium (Filtered)	Zinc (Filtered)	Methyl mercury	Dissolved Organic Carbon (Filtered)	TOC	Total Suspended Solids	Turbidity	Colour	Total Dissolved Solids (Filtered)	Total Suspended Solids	Turbidity	Benzo[b+]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	ng/L	mg/L	mg/L	mg/L	NTU	Colour units	mg/L	mg/L	NTU	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	0.0001	0.0001	0.001	1	1	1	0.1	2	10	3	0.1	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	0.01	0.01	0.01	
Location	Date	Sample Type																										
Routine C	13-Feb-14	Normal	-	-	-	-	-	134	45.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	14-Feb-14	Normal	-	-	-	-	-	138	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	18-Feb-14	Normal	-	-	-	-	-	152	76.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	19-Feb-14	Normal	-	-	-	-	-	122	33.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	20-Feb-14	Normal	-	-	-	-	-	97	35.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-Feb-14	Normal	-	-	-	-	-	120	63.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	22-Feb-14	Normal	-	-	-	-	-	105	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	23-Feb-14	Normal	-	-	-	-	-	122	56.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	24-Feb-14	Normal	-	-	-	-	-	120	60.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	25-Feb-14	Normal	-	-	-	-	-	134	58.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	26-Feb-14	Normal	-	-	-	-	-	138	63.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	27-Feb-14	Normal	-	-	-	-	-	128	19.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	28-Feb-14	Normal	-	-	-	-	-	109	45.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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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	C2 Phenanthrenes/Anthracenes	
			µg/L	µg/L	µg/L	ug/L	ug/L	ug/L	ug/L	ug/L	µg/L	ug/L	ug/L	ug/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
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	0.01	0.01	0.01	0.01	0.04	0.04	0.04	0.04	0.04	0.04	
Location	Date	Sample Type																														
Routine C	13-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	14-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	18-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	19-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	20-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	22-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	23-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	24-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	25-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	26-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	27-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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			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	Magnesium		
			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	mg/L		
MDL			0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.003	0.0001	0.0001	0.00005	0.0005	0.00005	0.01	0.00001	0.02	0.0001	0.0001	0.0001	0.01	0.00005	0.005	0.005		
Location	Date	Sample Type																										
Routine C	13-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	14-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	18-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	19-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	20-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	22-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	23-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	24-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	25-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	26-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	27-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	28-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Obed Mountain Mine
Water Quality
February 2014

		Total Metals																									
		Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silicon	Silver	Sodium	Strontium	Thallium	Tin	Titanium	Uranium	Vanadium	Zinc	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,2,3-trichloropropane	1,2-dibromoethane		
		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	µg/L	µg/L	mg/L	mg/L	µg/L	µg/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	0.00005	0.0001	0.0003	0.00001	0.0001	0.003	0.001	20	2	0.001	0.001	5	1		
Location	Date	Sample Type																									
Routine C	13-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	14-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	18-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	19-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	20-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	22-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	23-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	24-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	25-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	26-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	27-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Obed Mountain Mine
Water Quality
February 2014

Volatile Organic Compounds

			1,2-dichlorobenzene	1,2-dichloroethane	1,2-dichloropropane	1,3-dichlorobenzene	1,4-dichlorobenzene	Methyl Ethyl Ketone	2-hexanone (MBK)	4-Methyl-2-pentanone	Acetone	Acrolein	Acrylonitrile	Benzene	Toluene	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	cis-1,4-Dichloro-2-butene	Dibromomethane	Dichlorodifluoromethane	Dichloromethane	Ethanol	Ethyl methacrylate	Ethylbenzene	Xylene (m & p)			
MDL			1	2	2	1	1	0.1	10	0.01	0.1	100	100	0.001	0.001	1	3	10	0.001	1	1	3	0.01	1	10	1	1	10	3	3	1	0.3	10	0.001	0.001			
Location	Date	Sample Type																																				
Routine C	13-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	14-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	18-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	19-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	20-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	22-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	23-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	24-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	25-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	26-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	27-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	28-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

			Xylene (o)	Iodomethane	Styrene	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	trans-1,4-Dichloro-2-butene	Trichlorofluoromethane	Vinyl acetate	Vinyl chloride
			mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L
MDL			0.001	1	1	0.001	1	1	1	10	1	100	0.002
Location	Date	Sample Type											
Routine C	13-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	14-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	18-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	19-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	20-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	21-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	22-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	23-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	24-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	25-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	26-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
	27-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-
28-Feb-14	Normal	-	-	-	-	-	-	-	-	-	-	-	