

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 6 - LOWER DX AREA

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

Lower DX					
ENV102R	ENV105R	ENV106R	ENV112R	ENV118L	ENV123L
09-Nov-13	09-Nov-13	09-Nov-13	09-Nov-13	09-Nov-13	09-Nov-13
-0.09-0	-0.04-0	-0.55-0	-0.03-0	-0.35	-0.25
L1390251	L1390251	L1390251	L1390251	L1390251	L1390251
472655	473101	473167	473606	473513	473489
5939135	5939355	5939521	5940325	5940675	5939947

Parameter	Unit	MDL	AS Tier 1, Natural Area (Fine Sam)	CSQG FW Sediment ISQG	CSQG FW Sediment PEL						
<b>Hydrocarbons</b>											
F2 (C10-C16 Hydrocarbons)	mg/kg	20				-	-	-	-	-	-
Total Hydrocarbons (C6-C50)	mg/kg	20				-	-	-	-	-	-
Chrom. to baseline at nC50	-	-				-	-	-	-	-	-
Gravimetric Heavy Hydrocarbons	mg/kg	500				-	-	-	-	-	-
TEH: (C16-C34)	mg/kg	20				-	-	-	-	-	-
TEH: (C34-C50)	mg/kg	20				-	-	-	-	-	-
TVH	mg/kg	10				-	-	-	-	-	-
TVH: (C6-C10 / BTEX CORRECTED)	mg/kg	10				-	-	-	-	-	-
<b>Leachable Metals</b>											
Barium	mg/kg	5	750			46.6	41.3	48.1	49.1	54.7	60.1
Barium, extractable	mg/kg	5				-	-	-	-	-	-
Boron (B), Hot Water Ext.	mg/kg	0.1				0.56	0.61	0.87	0.8	1.48	0.71
<b>Metals</b>											
Aluminium	mg/kg	50				6380	7840	6700	8630	5880	7360
Antimony	mg/kg	0.1	20			0.37	0.26	0.36	0.31	0.43	0.42
Arsenic	mg/kg	0.1	17	5.9	17	8.36	4.91	5.8	5.61	6.98	6.57
Barium	mg/kg	0.5	750			211	207	314	363	374	526
Beryllium	mg/kg	0.2	5			0.61	0.36	0.55	0.45	0.74	0.64
Bismuth	mg/kg	0.2				<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium	mg/kg	0.1	3.8	0.6	3.5	0.52	0.33	0.27	0.25	0.29	0.36
Calcium	mg/kg	100				10,100	8920	11,100	10,400	11,700	14,900
Chromium (III+VI)	mg/kg	0.5	64	37.3	90	12.6	12.5	11.3	12.9	10	9.09
Cobalt	mg/kg	0.1	20			7.64	6.21	6.32	6.33	6.18	5.07
Copper	mg/kg	0.5	63	35.7	197	14.8	10.6	12.5	11.8	15.1	13.7
Iron	mg/kg	50				14,100	13,600	11,700	13,400	10,400	9610
Lead	mg/kg	0.5	70	35	91.3	9.42	7.67	9.29	8.99	11.2	12.1
Lithium	mg/kg	0.5				7.51	8.02	8.36	8.83	7.16	6.37
Magnesium	mg/kg	20				3010	3300	3230	3960	2880	3360
Manganese	mg/kg	1				382	557	396	432	353	304
Mercury	mg/kg	0.005	12	0.17	0.486	0.0388	0.0425	0.0505	0.0415	0.0603	0.0618
Molybdenum	mg/kg	0.1	4			0.87	0.69	1.04	0.82	1.4	1.45
Nickel	mg/kg	0.5	50			19	16.4	16.6	17	16.5	14.1
Phosphorus	mg/kg	50				410	507	430	485	391	363
Potassium	mg/kg	50				449	589	488	684	392	525
Selenium	mg/kg	0.2	1			0.45	0.39	0.52	0.45	0.64	0.7
Silver	mg/kg	0.2	20			<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	mg/kg	100				260	270	430	420	550	860
Strontium	mg/kg	1				75.8	60.6	109	94.5	144	201
Thallium	mg/kg	0.05	1			0.107	0.106	0.151	0.128	0.177	0.179
Tin	mg/kg	2	5			<2	<2	<2	<2	<2	<2
Titanium	mg/kg	1				85.3	52.5	119	82.9	194	183
Uranium	mg/kg	0.05	33			1.79	1.23	1.95	1.65	2.37	3.17
Vanadium	mg/kg	0.2	130			20	19.1	19.4	19	20.3	18.3
Zinc	mg/kg	5	200	123	315	39.3	47.1	45	50.6	40.6	47
<b>Organic / Inorganic Carbon</b>											
Carbon	mg/kg	0.1				-	-	-	-	-	-
CaCO3 Equivalent	%	0.8				1.22	0.86	1.24	1.41	1.36	1.37
Inorganic Carbon	mg/kg	0.1				0.15	0.1	0.15	0.17	0.16	0.16
TOC	% dry weight	0.1				4.16 <sup>PI</sup>	5.74 <sup>PI</sup>	11.2 <sup>PI</sup>	6.99 <sup>PI</sup>	22.2 <sup>PI</sup>	19.4 <sup>PI</sup>
Total Carbon by Combustion	%	0.1				4.3	5.8	11.4	7.2	22.3	19.6
<b>Particle Size</b>											
Soil Particle Size (>75 um)	% by weight	1				-	-	-	-	-	-
% clay by hydrometer	% by weight	0.1				11.4	12.4	12.4	18.4	12.8	23.4
Sand % Texture	% by weight	0.1				81	61.2	60.8	42.8	56	46
Silt % Texture	% by weight	0.1				7.6	26.4	26.8	38.8	31.2	30.6
<b>Physical Tests</b>											
CaCO3 Equivalent	%	0.7				-	-	-	-	-	-
Moisture	%	0.1				27.8	45.6	36.9	45.8	39.5	49.1

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Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

Lower DX					
ENV102R	ENV105R	ENV106R	ENV112R	ENV118L	ENV123L
09-Nov-13	09-Nov-13	09-Nov-13	09-Nov-13	09-Nov-13	09-Nov-13
-0.09-0	-0.04-0	-0.55-0	-0.03-0	-0.35	-0.25
L1390251	L1390251	L1390251	L1390251	L1390251	L1390251
472655	473101	473167	473606	473513	473489
5939135	5939355	5939521	5940325	5940675	5939947

Parameter	Unit	MDL	AS Tier 1, Natural Area (Fine Sand)	CSQG FW Sediment ISQG	CSQG FW Sediment PEL						
<b>Polycyclic Aromatic Hydrocarbons</b>											
Benzol(b)fluoranthene	mg/kg	0.005	6.2			-	-	-	-	-	-
C4 Benzanthracenes/Chrysenes	mg/kg	0.04				-	-	-	-	-	-
C4 Dibenzothiophenes	mg/kg	0.04				-	-	-	-	-	-
C4 Fluoranthenes/Pyrenes	mg/kg	0.04				-	-	-	-	-	-
C4 Naphthalenes	mg/kg	0.04				-	-	-	-	-	-
C4 Phenanthrenes/Anthracenes	mg/kg	0.04				-	-	-	-	-	-
Biphenyl	mg/kg	0.01				-	-	-	-	-	-
1-Methylnaphthalene	mg/kg	0.01				-	-	-	-	-	-
2-methylnaphthalene	mg/kg	0.005		0.0202	0.201	-	-	-	-	-	-
Acenaphthene	mg/kg	0.005	0.32	0.00671	0.0899	-	-	-	-	-	-
Acenaphthylene	mg/kg	0.005	5	0.00587	0.128	-	-	-	-	-	-
Anthracene	mg/kg	0.004	0.0046	0.00469	0.245	-	-	-	-	-	-
Benz(a)anthracene	mg/kg	0.005	0.07	0.0317	0.385	-	-	-	-	-	-
Benzofluoranthene	mg/kg	0.005	0.6	0.0319	0.782	-	-	-	-	-	-
Acridine	mg/kg	0.005				-	-	-	-	-	-
Benzofluoranthene	mg/kg	0.01				-	-	-	-	-	-
Benzofluoranthene	mg/kg	0.005				-	-	-	-	-	-
Benzofluoranthene	mg/kg	0.005	6.2			-	-	-	-	-	-
C1 Acenaphthene	mg/kg	0.04				-	-	-	-	-	-
C1 Benz(a)Anthracenes/Chrysenes	mg/kg	0.04				-	-	-	-	-	-
C1 Benzofluoranthenes/Benzopyrenes	mg/kg	0.04				-	-	-	-	-	-
C1 Biphenyls	mg/kg	0.04				-	-	-	-	-	-
C1 Dibenzothiophenes	mg/kg	0.04				-	-	-	-	-	-
Chrysene	mg/kg	0.005	6.2	0.0571	0.862	-	-	-	-	-	-
C1 Fluoranthenes/Pyrenes	mg/kg	0.04				-	-	-	-	-	-
C1 Fluorenes	mg/kg	0.04				-	-	-	-	-	-
C1 Phenanthrenes/Anthracenes	mg/kg	0.04				-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.005	7.4	0.00622	0.135	-	-	-	-	-	-
Dibenzothiophene	mg/kg	0.01				-	-	-	-	-	-
Fluoranthene	mg/kg	0.005	0.032	0.111	2.355	-	-	-	-	-	-
Fluorene	mg/kg	0.005	0.29	0.0212	0.144	-	-	-	-	-	-
Indeno(1,2,3-c,d)pyrene	mg/kg	0.005				-	-	-	-	-	-
Naphthalene	mg/kg	0.005	0.016	0.0346	0.391	-	-	-	-	-	-
Perylene	mg/kg	0.01				-	-	-	-	-	-
Phenanthrene	mg/kg	0.005	0.051	0.0419	0.515	-	-	-	-	-	-
Pyrene	mg/kg	0.005	0.034	0.053	0.875	-	-	-	-	-	-
Quinoline	mg/kg	0.005				-	-	-	-	-	-
Retene	mg/kg	0.01				-	-	-	-	-	-
C2 Benzofluoranthenes/Benzopyrenes	mg/kg	0.04				-	-	-	-	-	-
C2 Biphenyls	mg/kg	0.04				-	-	-	-	-	-
C2 Dibenzothiophenes	mg/kg	0.04				-	-	-	-	-	-
C2 Fluoranthenes/Pyrenes	mg/kg	0.04				-	-	-	-	-	-
C2 Naphthalenes	mg/kg	0.04				-	-	-	-	-	-
C2 Phenanthrenes/Anthracenes	mg/kg	0.04				-	-	-	-	-	-
C2 Fluorenes	mg/kg	0.04				-	-	-	-	-	-
C2 subd B(a)Anthracenes/Chrysenes	mg/kg	0.04				-	-	-	-	-	-
C3 Benzanthracenes/Chrysenes	mg/kg	0.04				-	-	-	-	-	-
C3 Dibenzothiophenes	mg/kg	0.04				-	-	-	-	-	-
C3 Fluoranthenes/Pyrenes	mg/kg	0.04				-	-	-	-	-	-
C3 Fluorenes	mg/kg	0.04				-	-	-	-	-	-
C3 Naphthalenes	mg/kg	0.04				-	-	-	-	-	-
C3 Phenanthrenes/Anthracenes	mg/kg	0.04				-	-	-	-	-	-
<b>Saturated Paste Extractables</b>											
Sulfur (as SO4)	mg/kg	9.6				-	-	-	-	-	-
Calcium	mg/kg	1.6				-	-	-	-	-	-
Chloride	mg/kg	6.4				-	-	-	-	-	-
Saturation Percentage	%	1				46.7	99.8	63.8	61.7	65	85.1
Electrical Conductivity (lab)	dS/m	0.01				0.806	0.705	0.875	0.944	0.943	1.26
Magnesium	mg/kg	0.96				-	-	-	-	-	-
pH (Lab)	pH	0.1	6-8.5			7.14	7.12	7.17	7.42	7.19	7.41
Potassium	mg/kg	0.64				-	-	-	-	-	-
Sodium	mg/kg	0.64				-	-	-	-	-	-
Sodium Adsorption Ratio	---	0.1				3.02 <sup>#1</sup>	2.32 <sup>#1</sup>	3.6 <sup>#1</sup>	3.27 <sup>#1</sup>	4.15 <sup>#1</sup>	4.45 <sup>#1</sup>
<b>Speciated Metals</b>											
Chromium (hexavalent)	mg/kg	0.1	0.4			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
<b>Volatile Organic Compounds</b>											
Benzene	mg/kg	0.005	0.046			-	-	-	-	-	-
Toluene	mg/kg	0.05	0.52			-	-	-	-	-	-
Ethylbenzene	mg/kg	0.01	0.11			-	-	-	-	-	-
Xylene (m & p)	mg/kg	0.05				-	-	-	-	-	-
Xylene (o)	mg/kg	0.05				-	-	-	-	-	-
Xylenes Total	mg/kg	0.1	15			-	-	-	-	-	-
Styrene	mg/kg	0.05	0.68			-	-	-	-	-	-

Comments  
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Monitoring Zone  
Location  
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Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

ENV127L	ENV128L	ENV129L	ENV132L	ENV611	ENV611S
09-Nov-13	09-Nov-13	09-Nov-13	09-Nov-13	08-Jan-14	08-Jan-14
-0.4	0.6	-0.04	-0.1	0-0.2	-0.04
L1390251	L1390251	L1390251	L1390251	L1412224	L1412224
473090	473018	472848	472477	472537	472537
5939469	5939356	5939341	5938987	5939030	5939030

Parameter	Unit	MDL	AS Tier 1, Natural Area (Fine Sam)	CSOG FW Sediment ISQG	CSOG FW Sediment PEL						
<b>Hydrocarbons</b>											
E2 (C10-C16 Hydrocarbons)	mg/kg	20				-	-	-	-	<20	<32
Total Hydrocarbons (C6-C50)	mg/kg	20				-	-	-	-	<20	<32
Chrom. to baseline at nC50	-	-				-	-	-	-	1	1
Gravimetric Heavy Hydrocarbons	mg/kg	500				-	-	-	-	<500	<500
TEH: (C16-C34)	mg/kg	20				-	-	-	-	<20	<32
TEH: (C34-C50)	mg/kg	20				-	-	-	-	<20	<32
TVH	mg/kg	10				-	-	-	-	<10	<20
TVH: (C6-C10 / BTEX CORRECTED)	mg/kg	10				-	-	-	-	<10	<20
<b>Leachable Metals</b>											
Barium	mg/kg	5	750			53	36.1	44.1	151	-	-
Barium, extractable	mg/kg	5				-	-	-	-	33.7	24.9
Boron (B), Hot Water Ext.	mg/kg	0.1				1.24	0.22	0.52	2.61	0.22	0.39
<b>Metals</b>											
Aluminum	mg/kg	50				6800	7780	6610	3620	11,800	5580
Antimony	mg/kg	0.1	20			0.31	0.18	0.23	0.14	0.2	0.19
Arsenic	mg/kg	0.1	17	5.9	17	5.28	4.73	5.44	4.99	5.04	3.89
Barium	mg/kg	0.5	750			291	119	171	607	173	204
Beryllium	mg/kg	0.2	5			0.42	0.34	0.38	0.22	0.46	0.29
Bismuth	mg/kg	0.2				<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium	mg/kg	0.1	3.8	0.6	3.5	0.26	0.17	0.22	0.22	0.56	0.11
Calcium	mg/kg	100				9900	4550	6690	27,700	6970	6820
Chromium (III+VI)	mg/kg	0.5	64	37.3	90	11.1	13.2	11.7	5.61	17.4	12.2
Cobalt	mg/kg	0.1	20			6.05	6.11	7.46	6.5	9.45	5.19
Copper	mg/kg	0.5	63	35.7	197	10.9	8.08	9.51	5.95	9.64	6.5
Iron	mg/kg	50				11,900	14,100	13,500	29,700	16,400	10,300
Lead	mg/kg	0.5	70	35	91.3	8.39	6.75	7.79	5.03	8.06	5.94
Lithium	mg/kg	0.5				7.79	8.87	8.64	5.43	11.2	6.91
Magnesium	mg/kg	20				3200	2950	3130	2690	3510	3100
Manganese	mg/kg	1				336	372	513	5300	404	267
Mercury	mg/kg	0.005	12	0.17	0.486	0.0468	0.0236	0.031	0.0624	0.0336	0.0214
Molybdenum	mg/kg	0.1	4			0.85	0.53	0.58	1.32	0.74	0.53
Nickel	mg/kg	0.5	50			16	14.9	16.7	8.88	16.1	13.8
Phosphorus	mg/kg	50				430	503	413	852	588	390
Potassium	mg/kg	50				515	463	442	265	564	446
Selenium	mg/kg	0.2	1			0.43	0.22	0.3	0.4	0.4	<0.2
Silver	mg/kg	0.2	20			<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	mg/kg	100				370	<100	170	510	<100	160
Strontium	mg/kg	1				89.8	32.8	50.9	82.5	24.2	47.4
Thallium	mg/kg	0.05	1			0.121	0.082	0.094	0.06	0.106	0.079
Tin	mg/kg	2	5			<2	<2	<2	<2	<2	<2
Titanium	mg/kg	1				96.9	48.2	54.2	32.3	45.3	54.2
Uranium	mg/kg	0.05	33			1.61	0.836	1.04	1.1	1.27	0.688
Vanadium	mg/kg	0.2	130			18	19.9	17.7	8.45	27.1	14.2
Zinc	mg/kg	5	200	123	315	43.6	40.6	41.2	28.8	45.4	32.9
<b>Organic / Inorganic Carbon</b>											
Carbon	mg/kg	0.1				-	-	-	-	-	-
CaCO3 Equivalent	%	0.8				1.23	<0.8	0.98	1.73	<0.8	1.94
Inorganic Carbon	mg/kg	0.1				0.15	<0.1	0.12	0.21	<0.1	0.23
TOC	% dry weight	0.1				11.4 <sup>PI</sup>	1.29 <sup>PI</sup>	2.36 <sup>PI</sup>	15.9 <sup>PI</sup>	5.18 <sup>PI</sup>	1.34 <sup>PI</sup>
Total Carbon by Combustion	%	0.1				11.5	1.3	2.5	16.1	5.2	1.6
<b>Particle Size</b>											
Soil Particle Size (>75 um)	% by weight	1				-	-	-	-	35.2	66.2
% clay by hydrometer	% by weight	0.1				12.4	8	11.6	12.8	-	-
Sand % Texture	% by weight	0.1				64.8	75	70.8	42.8	-	-
Silt % Texture	% by weight	0.1				22.8	17	17.6	44.4	-	-
<b>Physical Tests</b>											
CaCO3 Equivalent	%	0.7				-	-	-	-	-	-
Moisture	%	0.1				49.6	18.3	24.9	44.8	32.7	53.4

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Northing (NAD83 Zone 11N)

ENV127L	ENV128L	ENV129L	ENV132L	ENV611	ENV611S
09-Nov-13	09-Nov-13	09-Nov-13	09-Nov-13	08-Jan-14	08-Jan-14
-0.4	0.6	-0.04	-0.1	0-0.2	-0.04
L1390251	L1390251	L1390251	L1390251	L1412224	L1412224
473090	473018	472848	472477	472537	472537
5939469	5939356	5939341	5938987	5939030	5939030

Parameter	Unit	MDL	A8 Tier 1, Natural Area (Fine Sand)	CSQG FW Sediment ISQG	CSQG FW Sediment PEL						
<b>Polycyclic Aromatic Hydrocarbons</b>											
Benzol(b)fluoranthene	mg/kg	0.005	6.2			-	-	-	-	<0.005	<0.005
C4 Benzanthracenes/Chrysenes	mg/kg	0.04				-	-	-	-	<0.04	<0.04
C4 Dibenzothiophenes	mg/kg	0.04				-	-	-	-	<0.04	<0.04
C4 Fluoranthenes/Pyrenes	mg/kg	0.04				-	-	-	-	<0.04	<0.04
C4 Naphthalenes	mg/kg	0.04				-	-	-	-	<0.04	0.24
C4 Phenanthrenes/Anthracenes	mg/kg	0.04				-	-	-	-	0.06	2.03
Biphenyl	mg/kg	0.01				-	-	-	-	<0.01	<0.01
1-Methylnaphthalene	mg/kg	0.01				-	-	-	-	<0.01	0.032
2-methylnaphthalene	mg/kg	0.005		0.0202	0.201	-	-	-	-	0.0072	0.0213
Acenaphthene	mg/kg	0.005	0.32	0.00671	0.0899	-	-	-	-	<0.005	<0.005
Acenaphthylene	mg/kg	0.005	5	0.00587	0.128	-	-	-	-	<0.005	<0.005
Anthracene	mg/kg	0.004	0.0046	0.00469	0.245	-	-	-	-	<0.004	0.0045
Benz(a)anthracene	mg/kg	0.005	0.07	0.0317	0.385	-	-	-	-	<0.005	<0.005
Benzofluoranthene	mg/kg	0.005	0.6	0.0319	0.782	-	-	-	-	<0.005	<0.005
Acridine	mg/kg	0.005				-	-	-	-	<0.005	<0.005
Benzofluoranthene	mg/kg	0.01				-	-	-	-	<0.01	<0.01
Benzofluoranthene	mg/kg	0.005				-	-	-	-	<0.005	<0.005
Benzofluoranthene	mg/kg	0.005	6.2			-	-	-	-	<0.005	<0.005
C1 Acenaphthene	mg/kg	0.04				-	-	-	-	<0.04	<0.04
C1 Benz(a)Anthracenes/Chrysenes	mg/kg	0.04				-	-	-	-	<0.04	<0.04
C1 Benzofluoranthenes/Benzopyrenes	mg/kg	0.04				-	-	-	-	<0.04	<0.04
C1 Biphenyls	mg/kg	0.04				-	-	-	-	<0.04	<0.04
C1 Dibenzothiophenes	mg/kg	0.04				-	-	-	-	<0.04	<0.04
Chrysene	mg/kg	0.005	6.2	0.0571	0.862	-	-	-	-	<0.005	<0.005
C1 Fluoranthenes/Pyrenes	mg/kg	0.04				-	-	-	-	<0.04	<0.04
C1 Fluorenes	mg/kg	0.04				-	-	-	-	<0.04	<0.04
C1 Phenanthrenes/Anthracenes	mg/kg	0.04				-	-	-	-	<0.04	0.057
Dibenz(a,h)anthracene	mg/kg	0.005	7.4	0.00622	0.135	-	-	-	-	<0.005	<0.005
Dibenzothiophene	mg/kg	0.01				-	-	-	-	<0.01	<0.01
Fluoranthene	mg/kg	0.005	0.032	0.111	2.355	-	-	-	-	<0.005	0.0139
Fluorene	mg/kg	0.005	0.29	0.0212	0.144	-	-	-	-	<0.005	0.0092
Indeno(1,2,3-c,d)pyrene	mg/kg	0.005				-	-	-	-	<0.005	<0.005
Naphthalene	mg/kg	0.005	0.016	0.0346	0.391	-	-	-	-	0.0066	<0.005
Perylene	mg/kg	0.01				-	-	-	-	0.012	0.035
Phenanthrene	mg/kg	0.005	0.051	0.0419	0.515	-	-	-	-	0.005	0.022
Pyrene	mg/kg	0.005	0.034	0.053	0.875	-	-	-	-	<0.005	0.0171
Quinoline	mg/kg	0.005				-	-	-	-	<0.005	<0.005
Retene	mg/kg	0.01				-	-	-	-	0.06	2.03
C2 Benzofluoranthenes/Benzopyrenes	mg/kg	0.04				-	-	-	-	<0.04	<0.04
C2 Biphenyls	mg/kg	0.04				-	-	-	-	<0.04	<0.04
C2 Dibenzothiophenes	mg/kg	0.04				-	-	-	-	<0.04	<0.04
C2 Fluoranthenes/Pyrenes	mg/kg	0.04				-	-	-	-	<0.04	<0.04
C2 Naphthalenes	mg/kg	0.04				-	-	-	-	<0.04	0.157
C2 Phenanthrenes/Anthracenes	mg/kg	0.04				-	-	-	-	<0.04	<0.04
C2 Fluorenes	mg/kg	0.04				-	-	-	-	<0.04	<0.04
C2 subd B(a)Anthracenes/Chrysenes	mg/kg	0.04				-	-	-	-	<0.04	<0.04
C3 Benzanthracenes/Chrysenes	mg/kg	0.04				-	-	-	-	<0.04	<0.04
C3 Dibenzothiophenes	mg/kg	0.04				-	-	-	-	<0.04	<0.04
C3 Fluoranthenes/Pyrenes	mg/kg	0.04				-	-	-	-	<0.04	<0.04
C3 Fluorenes	mg/kg	0.04				-	-	-	-	<0.04	<0.04
C3 Naphthalenes	mg/kg	0.04				-	-	-	-	<0.04	0.145
C3 Phenanthrenes/Anthracenes	mg/kg	0.04				-	-	-	-	<0.04	<0.04
<b>Saturated Paste Extractables</b>											
Sulfur (as SO4)	mg/kg	9.6				-	-	-	-	<22 <sup>st</sup>	83 <sup>st</sup>
Calcium	mg/kg	1.6				-	-	-	-	26.4 <sup>st</sup>	33.3 <sup>st</sup>
Chloride	mg/kg	6.4				-	-	-	-	<14 <sup>st</sup>	<7.8 <sup>st</sup>
Saturation Percentage	%	1				84.3	35.7	50.5	-	71.8	39.2
Electrical Conductivity (lab)	dS/m	0.01				0.75	0.482	0.562	-	0.214	0.322
Magnesium	mg/kg	0.96				-	-	-	-	4.5 <sup>st</sup>	6.8 <sup>st</sup>
pH (Lab)	pH	0.1	6-8.5			7.18	6.71	7.06	-	6.23	7.33
Potassium	mg/kg	0.64				-	-	-	-	<1.4 <sup>st</sup>	1.96 <sup>st</sup>
Sodium	mg/kg	0.64				-	-	-	-	3.1 <sup>st</sup>	33.5 <sup>st</sup>
Sodium Adsorption Ratio	---	0.1				3.22 <sup>st</sup>	1.37 <sup>st</sup>	2.18 <sup>st</sup>	-	0.17 <sup>st</sup>	2.21 <sup>st</sup>
<b>Speciated Metals</b>											
Chromium (hexavalent)	mg/kg	0.1	0.4			<0.1	<0.1	<0.1	<0.1	<0.2	<0.1
<b>Volatile Organic Compounds</b>											
Benzene	mg/kg	0.005	0.046			-	-	-	-	<0.005	<0.01
Toluene	mg/kg	0.05	0.52			-	-	-	-	<0.05	<0.1
Ethylbenzene	mg/kg	0.01	0.11			-	-	-	-	<0.015	<0.03
Xylene (m & p)	mg/kg	0.05				-	-	-	-	<0.05	<0.1
Xylene (o)	mg/kg	0.05				-	-	-	-	<0.05	<0.1
Xylenes Total	mg/kg	0.1	15			-	-	-	-	<0.1 <sup>st</sup>	<0.2 <sup>st</sup>
Styrene	mg/kg	0.05	0.68			-	-	-	-	<0.05	<0.1

Comments  
#1 CALC

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 6 - LOWER DX AREA

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

ENV612	ENV612S	ENV613	ENV613S	ENV614
08-Jan-14	08-Jan-14	08-Jan-14	08-Jan-14	09-Jan-14
0-0.2	-1	-0.14	0-0.2	-0.07
L1412224	L1412224	L1412224	L1412224	L1412224
472661	472661	472661	472826	472826
5939154	5939154	5939154	5939262	5939369

Parameter	Unit	MDL	A8 Tier 1, Natural Area (Fine Sand)	CSQG FW Sediment ISQG	CSQG FW Sediment PEL	ENV612	ENV612S	ENV613	ENV613S	ENV614
<b>Hydrocarbons</b>										
E2 (C10-C16 Hydrocarbons)	mg/kg	20				<20	<20	<30	<20	<20
Total Hydrocarbons (C6-C50)	mg/kg	20				56	21	96	54	26
Chrom. to baseline at nC50	-	-				1	1	1	1	1
Gravimetric Heavy Hydrocarbons	mg/kg	500				<500	<500	<500	<500	<500
TEH: (C16-C34)	mg/kg	20				56	21	96	27	26
TEH: (C34-C50)	mg/kg	20				<20	<20	<30	27	<20
TVH	mg/kg	10				<10	<10	<20	<10	<10
TVH: (C6-C10 / BTEX CORRECTED)	mg/kg	10				<10	<10	<20	<10	<10
<b>Leachable Metals</b>										
Barium	mg/kg	5	750			-	-	-	-	-
Barium, extractable	mg/kg	5				36.4	27.2	46	63.6	29.4
Boron (B), Hot Water Ext.	mg/kg	0.1				1.36	0.14	0.75	0.24	0.67
<b>Metals</b>										
Aluminium	mg/kg	50				8970	11,800	11,800	13,800	7080
Antimony	mg/kg	0.1	20			0.24	0.17	0.37	0.2	0.28
Arsenic	mg/kg	0.1	17	5.9	17	4.79	1.4	6.26	5.21	5.25
Barium	mg/kg	0.5	750			207	113	653	246	270
Beryllium	mg/kg	0.2	5			0.42	0.4	0.58	0.56	0.4
Bismuth	mg/kg	0.2				<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium	mg/kg	0.1	3.8	0.6	3.5	0.32	0.15	0.26	0.17	0.19
Calcium	mg/kg	100				8720	5600	12,900	6440	9770
Chromium (III+VI)	mg/kg	0.5	64	37.3	90	13.6	16.4	14.4	19.1	11.5
Cobalt	mg/kg	0.1	20			5.82	3.63	5.6	5.78	6
Copper	mg/kg	0.5	63	35.7	197	10.8	10.2	14.2	12	9.24
Iron	mg/kg	50				13,600	9460	12,300	18,200	10,800
Lead	mg/kg	0.5	70	35	91.3	7.26	7.7	12.2	8.36	7.36
Lithium	mg/kg	0.5				9.32	10.9	8.75	13.6	7.23
Magnesium	mg/kg	20				3420	3360	4650	3700	3270
Manganese	mg/kg	1				349	78.8	308	399	291
Mercury	mg/kg	0.005	12	0.17	0.486	0.0406	0.0386	0.0583	0.0504	0.0353
Molybdenum	mg/kg	0.1	4			0.71	0.19	1.01	0.73	0.78
Nickel	mg/kg	0.5	50			16.7	13.8	16	18.6	15.3
Phosphorus	mg/kg	50				600	485	373	808	432
Potassium	mg/kg	50				576	651	888	653	567
Selenium	mg/kg	0.2	1			0.46	0.25	0.47	0.48	0.28
Silver	mg/kg	0.2	20			<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	mg/kg	100				340	<100	670	<100	280
Strontium	mg/kg	1				72.7	17.9	164	44.2	78.1
Thallium	mg/kg	0.05	1			0.105	0.111	0.142	0.118	0.117
Tin	mg/kg	2	5			<2	<2	<2	<2	<2
Titanium	mg/kg	1				56	47.8	100	44.3	118
Uranium	mg/kg	0.05	33			1.1	0.881	2.31	1.41	1.2
Vanadium	mg/kg	0.2	130			19.8	21.7	18.9	29.1	17.3
Zinc	mg/kg	5	200	123	315	48	46.3	55.5	44.2	37.9
<b>Organic / Inorganic Carbon</b>										
Carbon	mg/kg	0.1				-	-	-	-	-
CaCO3 Equivalent	%	0.8				1.42	<0.8	2.12	<0.8	2.06
Inorganic Carbon	mg/kg	0.1				0.17	<0.1	0.25	<0.1	0.25
TOC	% dry weight	0.1				3.56 <sup>#1</sup>	3.71 <sup>#1</sup>	8.82 <sup>#1</sup>	4.18 <sup>#1</sup>	2.65 <sup>#1</sup>
Total Carbon by Combustion	%	0.1				3.7	3.7	9.1	4.2	2.9
<b>Particle Size</b>										
Soil Particle Size (>75 um)	% by weight	1				50.2	50.1	23.9	30	46.2
% clay by hydrometer	% by weight	0.1				-	-	-	-	-
Sand % Texture	% by weight	0.1				-	-	-	-	-
Silt % Texture	% by weight	0.1				-	-	-	-	-
<b>Physical Tests</b>										
CaCO3 Equivalent	%	0.7				-	-	-	-	-
Moisture	%	0.1				38.8	8.76	52.3	29.3	40.2

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 6 - LOWER DX AREA

Monitoring Zone

Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

ENV612	ENV612S	ENV613	ENV613S	ENV614
08-Jan-14	08-Jan-14	08-Jan-14	08-Jan-14	09-Jan-14
0-0.2	-1	-0.14	0-0.2	-0.07
L1412224	L1412224	L1412224	L1412224	L1412224
472661	472661	472661	472826	472826
472661	472661	472661	472826	472826
5939154	5939154	5939154	5939262	5939262
5939154	5939154	5939154	5939262	5939369

Parameter	Unit	MDL	A8 Tier 1, Natural Area (Fine Sand)	CSQG FW Sediment ISQG	CSQG FW Sediment PEL					
<b>Polycyclic Aromatic Hydrocarbons</b>										
Benz(b)fluoranthene	mg/kg	0.005	6.2			0.009	<0.005	0.0238	<0.005	<0.005
C4 Benzanthracenes/Chrysenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04
C4 Dibenzothiophenes	mg/kg	0.04				<0.04	<0.04	0.052	<0.04	<0.04
C4 Fluoranthenes/Pyrenes	mg/kg	0.04				<0.04	<0.04	0.043	<0.04	<0.04
C4 Naphthalenes	mg/kg	0.04				0.15	<0.04	1.05	<0.04	0.172
C4 Phenanthrenes/Anthracenes	mg/kg	0.04				1.76	<0.04	12.4	<0.04	1.47
Biphenyl	mg/kg	0.01				<0.01	<0.01	0.025	<0.01	<0.01
1-Methylnaphthalene	mg/kg	0.01				0.028	<0.01	0.14	<0.01	0.02
2-methylnaphthalene	mg/kg	0.005		0.0202	0.201	0.0167	0.0051	0.0971	0.0051	0.0138
Acenaphthene	mg/kg	0.005	0.32	0.00671	0.0899	<0.005	<0.005	0.0305	<0.005	<0.005
Acenaphthylene	mg/kg	0.005	5	0.00587	0.128	<0.005	<0.005	<0.005	<0.005	<0.005
Anthracene	mg/kg	0.004	0.0046	0.00469	0.245	<0.004	<0.004	<0.004	<0.004	<0.004
Benz(a)anthracene	mg/kg	0.005	0.07	0.0317	0.385	<0.005	<0.005	<0.005	<0.005	0.0057
Benz(a)pyrene	mg/kg	0.005	0.6	0.0319	0.782	<0.005	<0.005	<0.005	<0.005	<0.005
Acridine	mg/kg	0.005				<0.005	<0.005	<0.005	<0.005	<0.005
Benz(e)pyrene	mg/kg	0.01				<0.01	<0.01	<0.01	<0.01	<0.01
Benz(o,q,h)perylene	mg/kg	0.005				<0.005	<0.005	<0.005	<0.005	<0.005
Benz(k)fluoranthene	mg/kg	0.005	6.2			<0.005	<0.005	<0.005	<0.005	<0.005
C1 Acenaphthenes	mg/kg	0.04				<0.04	<0.04	0.048	<0.04	<0.04
C1 Benz(a)Anthracenes/Chrysenes	mg/kg	0.04				<0.04	<0.04	0.04	<0.04	<0.04
C1 Benzofluoranthenes/Benzopyrenes	mg/kg	0.04				<0.04	<0.04	0.04	<0.04	<0.04
C1 Biphenyls	mg/kg	0.04				<0.04	<0.04	0.04	<0.04	<0.04
C1 Dibenzothiophenes	mg/kg	0.04				<0.04	<0.04	0.04	<0.04	<0.04
Chrysene	mg/kg	0.005	6.2	0.0571	0.862	<0.005	<0.005	<0.005	<0.005	<0.005
C1 Fluoranthenes/Pyrenes	mg/kg	0.04				<0.04	<0.04	0.088	<0.04	<0.04
C1 Fluorenes	mg/kg	0.04				<0.04	<0.04	0.061	<0.04	<0.04
C1 Phenanthrenes/Anthracenes	mg/kg	0.04				0.041	<0.04	0.283	<0.04	<0.04
Dibenz(a,h)anthracene	mg/kg	0.005	7.4	0.00622	0.135	<0.005	<0.005	<0.005	<0.005	<0.005
Dibenzothiophene	mg/kg	0.01				<0.01	<0.01	0.092	<0.01	<0.01
Fluoranthene	mg/kg	0.005	0.032	0.111	2.355	<0.005	<0.005	0.0731	<0.005	0.0103
Fluorene	mg/kg	0.005	0.29	0.0212	0.144	<0.005	<0.005	0.0573	<0.005	0.0069
Indeno(1,2,3-c,d)pyrene	mg/kg	0.005				<0.005	<0.005	<0.005	<0.005	<0.005
Naphthalene	mg/kg	0.005	0.016	0.0346	0.391	<0.005	<0.005	<0.005	<0.005	<0.005
Perylene	mg/kg	0.01				0.04	0.126	0.094	<0.01	0.027
Phenanthrene	mg/kg	0.005	0.051	0.0419	0.515	0.0129	0.0071	0.0867	0.0056	0.0161
Pyrene	mg/kg	0.005	0.034	0.053	0.875	0.0203	<0.005	0.0802	<0.005	0.0128
Quinoline	mg/kg	0.005				<0.005	<0.005	<0.005	<0.005	<0.005
Retene	mg/kg	0.01				1.76	0.036	12.4	0.031	1.47
C2 Benzofluoranthenes/Benzopyrenes	mg/kg	0.04				<0.04	<0.04	0.04	<0.04	<0.04
C2 Biphenyls	mg/kg	0.04				<0.04	<0.04	0.04	<0.04	<0.04
C2 Dibenzothiophenes	mg/kg	0.04				<0.04	<0.04	0.054	<0.04	<0.04
C2 Fluoranthenes/Pyrenes	mg/kg	0.04				<0.04	<0.04	0.096	<0.04	<0.04
C2 Naphthalenes	mg/kg	0.04				0.139	<0.04	0.733	<0.04	0.096
C2 Phenanthrenes/Anthracenes	mg/kg	0.04				<0.04	<0.04	0.063	<0.04	<0.04
C2 Fluorenes	mg/kg	0.04				<0.04	<0.04	0.076	<0.04	<0.04
C2 subd B(a)Anthracenes/Chrysenes	mg/kg	0.04				<0.04	<0.04	0.04	<0.04	<0.04
C3 Benzanthracenes/Chrysenes	mg/kg	0.04				<0.04	<0.04	0.04	<0.04	<0.04
C3 Dibenzothiophenes	mg/kg	0.04				<0.04	<0.04	0.052	<0.04	<0.04
C3 Fluoranthenes/Pyrenes	mg/kg	0.04				<0.04	<0.04	0.045	<0.04	<0.04
C3 Fluorenes	mg/kg	0.04				<0.04	<0.04	0.076	<0.04	<0.04
C3 Naphthalenes	mg/kg	0.04				0.117	<0.04	0.705	<0.04	0.093
C3 Phenanthrenes/Anthracenes	mg/kg	0.04				<0.04	<0.04	0.04	<0.04	<0.04
<b>Saturated Paste Extractables</b>										
Sulfur (as SO4)	mg/kg	9.6				269 <sup>#1</sup>	19 <sup>#1</sup>	247 <sup>#1</sup>	42 <sup>#1</sup>	182 <sup>#1</sup>
Calcium	mg/kg	1.6				107 <sup>#1</sup>	22.7 <sup>#1</sup>	77.9 <sup>#1</sup>	28.5 <sup>#1</sup>	56.6 <sup>#1</sup>
Chloride	mg/kg	6.4				<23 <sup>#1</sup>	<1 <sup>#1</sup>	<17 <sup>#1</sup>	<15 <sup>#1</sup>	<10 <sup>#1</sup>
Saturation Percentage	%	1				114	54.8	88.1	74.8	50.8
Electrical Conductivity (lab)	dS/m	0.01				1.06	0.249	1.1	0.219	1.11
Magnesium	mg/kg	0.96				24.1 <sup>#1</sup>	4.3 <sup>#1</sup>	17.6 <sup>#1</sup>	4.1 <sup>#1</sup>	11.5 <sup>#1</sup>
pH (Lab)	pH	0.1	6-8.5			6.46	6.03	7.23	5.48	7.12
Potassium	mg/kg	0.64				4.6 <sup>#1</sup>	1.5 <sup>#1</sup>	5.8 <sup>#1</sup>	<1.5 <sup>#1</sup>	3 <sup>#1</sup>
Sodium	mg/kg	0.64				126 <sup>#1</sup>	3 <sup>#1</sup>	131 <sup>#1</sup>	5.6 <sup>#1</sup>	68.1 <sup>#1</sup>
Sodium Adsorption Ratio	---	0.1				2.69 <sup>#1</sup>	0.21 <sup>#1</sup>	3.75 <sup>#1</sup>	0.3 <sup>#1</sup>	3.03 <sup>#1</sup>
<b>Speciated Metals</b>										
Chromium (hexavalent)	mg/kg	0.1	0.4			<0.1	<0.1	<0.1	<0.1	0.14
<b>Volatile Organic Compounds</b>										
Benzene	mg/kg	0.005	0.046			<0.005	<0.005	<0.01	<0.005	<0.005
Toluene	mg/kg	0.05	0.52			<0.05	<0.05	<0.1	<0.05	<0.05
Ethylbenzene	mg/kg	0.01	0.11			<0.015	<0.015	<0.03	<0.015	<0.015
Xylene (m & p)	mg/kg	0.05				<0.05	<0.05	<0.1	<0.05	<0.05
Xylene (o)	mg/kg	0.05				<0.05	<0.05	<0.1	<0.05	<0.05
Xylenes Total	mg/kg	0.1	15			<0.1 <sup>#1</sup>	<0.1 <sup>#1</sup>	<0.2 <sup>#1</sup>	<0.1 <sup>#1</sup>	<0.1 <sup>#1</sup>
Styrene	mg/kg	0.05	0.68			<0.05	<0.05	<0.1	<0.05	<0.05

Comments  
#1 CALC

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 6 - LOWER DX AREA

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

ENV614S	ENV615	ENV615S	ENV616	ENV616S	ENV617
09-Jan-14	09-Jan-14	09-Jan-14	09-Jan-14	09-Jan-14	09-Jan-14
-0.12	0-0.2	-0.07	0-0.2	-0.15	0-0.2
L1412224	L1412224	L1412224	L1412224	L1412224	L1412224
473036	473139	473139	473193	473193	473232
5939369	5939386	5939386	5939415	5939415	5939419

Parameter	Unit	MDL	AS Tier 1, Natural Area (Fine Sam)	CSQG FW Sediment ISQG	CSQG FW Sediment PEL						
<b>Hydrocarbons</b>											
E2 (C10-C16 Hydrocarbons)	mg/kg	20				<20	<20	<20	<109	<20	<113
Total Hydrocarbons (C6-C50)	mg/kg	20				150	49	<20	2880	<20	630
Chrom. to baseline at nC50	-	-				1	1	1	0	1	0
Gravimetric Heavy Hydrocarbons	mg/kg	500				<500	<500	<500	7790	<500	840
TEH: (C16-C34)	mg/kg	20				104	28	<20	1300	<20	250
TEH: (C34-C50)	mg/kg	20				46	21	<20	1580	<20	377
TVH	mg/kg	10				<20	<10	<10	<70	<10	<70
TVH: (C6-C10 / BTEX CORRECTED)	mg/kg	10				<20	<10	<10	<70	<10	<70
<b>Leachable Metals</b>											
Barium	mg/kg	5	750			-	-	-	-	-	-
Barium, extractable	mg/kg	5				38.8	46.3	21.2	104	32.9	130
Boron (B), Hot Water Ext.	mg/kg	0.1				1.42	0.18	0.11	1.09	0.35	0.52
<b>Metals</b>											
Aluminum	mg/kg	50				9690	10,100	5180	5750	7890	1470
Antimony	mg/kg	0.1	20			0.41	0.18	0.15	0.25	0.38	<0.1
Arsenic	mg/kg	0.1	17	5.9	17	6.68	5.34	3.75	3.16	5.85	2.77
Barium	mg/kg	0.5	750			502	188	163	237	168	351
Beryllium	mg/kg	0.2	5			0.69	0.45	0.21	0.27	0.44	<0.2
Bismuth	mg/kg	0.2				<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium	mg/kg	0.1	3.8	0.6	3.5	0.3	0.15	<0.1	0.7	0.28	0.18
Calcium	mg/kg	100				13,700	5000	5790	19,700	7340	35,600
Chromium (III+VI)	mg/kg	0.5	64	37.3	90	13.7	14.6	9.33	8.58	12.5	11.3
Cobalt	mg/kg	0.1	20			8.57	7.26	5.98	2.75	6.9	3.49
Copper	mg/kg	0.5	63	35.7	197	15.8	9.29	4.77	11.5	11	4.18
Iron	mg/kg	50				12,800	15,600	10,100	13,600	14,400	14,100
Lead	mg/kg	0.5	70	35	91.3	11.9	7.12	4.37	3.5	7.46	4.18
Lithium	mg/kg	0.5				8.95	10.3	6.67	3.12	8.74	1.82
Magnesium	mg/kg	20				4100	2890	2940	1730	3080	2900
Manganese	mg/kg	1				462	714	262	192	560	1160
Mercury	mg/kg	0.005	12	0.17	0.486	0.0566	0.0337	0.0166	0.0627	0.0353	0.0476
Molybdenum	mg/kg	0.1	4			1.14	0.83	0.39	0.67	0.64	0.68
Nickel	mg/kg	0.5	50			19.9	15.4	12.6	9.97	16.8	8.64
Phosphorus	mg/kg	50				474	540	377	1330	432	583
Potassium	mg/kg	50				666	446	429	249	525	448
Selenium	mg/kg	0.2	1			0.51	0.46	<0.2	0.57	0.34	<0.2
Silver	mg/kg	0.2	20			<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	mg/kg	100				570	<100	110	100	<100	260
Strontium	mg/kg	1				148	32.1	32.4	57	52.8	192
Thallium	mg/kg	0.05	1			0.158	0.08	0.074	0.137	0.083	<0.05
Tin	mg/kg	2	5			<2	<2	<2	<2	<2	<2
Titanium	mg/kg	1				128	37.7	56.7	18.1	60.6	20.3
Uranium	mg/kg	0.05	33			2.24	1.29	0.49	2.39	0.966	1.11
Vanadium	mg/kg	0.2	130			22.6	22.2	13.4	11.8	19.5	3.81
Zinc	mg/kg	5	200	123	315	51.2	34.5	30.5	16.6	39.2	36.2
<b>Organic / Inorganic Carbon</b>											
Carbon	mg/kg	0.1				-	-	-	-	-	-
CaCO3 Equivalent	%	0.8				1.87	<0.8	1.59	1.98	<0.8	2.08
Inorganic Carbon	mg/kg	0.1				0.22	<0.1	0.19	0.24	<0.1	0.25
TOC	% dry weight	0.1				7.41 <sup>±1</sup>	3.56 <sup>±1</sup>	1.13 <sup>±1</sup>	36.9 <sup>±1</sup>	3.64 <sup>±1</sup>	28.1 <sup>±1</sup>
Total Carbon by Combustion	%	0.1				7.6	3.6	1.3	37.1	3.6	28.3
<b>Particle Size</b>											
Soil Particle Size (>75 um)	% by weight	1				26.9	49.7	70.7	17.7	64.2	46.5
% clay by hydrometer	% by weight	0.1				-	-	-	-	-	-
Sand % Texture	% by weight	0.1				-	-	-	-	-	-
Silt % Texture	% by weight	0.1				-	-	-	-	-	-
<b>Physical Tests</b>											
CaCO3 Equivalent	%	0.7				-	-	-	-	-	-
Moisture	%	0.1				49.7	29.8	21.5	85.8	35.5	86.6

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 6 - LOWER DX AREA

Monitoring Zone

Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

ENV614S	ENV615	ENV615S	ENV616	ENV616S	ENV617
09-Jan-14	09-Jan-14	09-Jan-14	09-Jan-14	09-Jan-14	09-Jan-14
-0.12	0-0.2	-0.07	0-0.2	-0.15	0-0.2
L1412224	L1412224	L1412224	L1412224	L1412224	L1412224
473036	473139	473139	473193	473193	473232
5939369	5939386	5939386	5939415	5939415	5939419

Parameter	Unit	MDL	A8 Tier 1, Natural Area (Fine Sand)	CSQG FW Sediment ISQG	CSQG FW Sediment PEL						
<b>Polycyclic Aromatic Hydrocarbons</b>											
Benzol(b)fluoranthene	mg/kg	0.005	6.2			0.023	<0.005	<0.005	<0.01	<0.005	<0.01
C4 Benzanthracenes/Chrysenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.08	<0.04	<0.08
C4 Dibenzothiophenes	mg/kg	0.04				0.061	<0.04	<0.04	<0.08	<0.04	<0.08
C4 Fluoranthenes/Pyrenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.08	<0.04	<0.08
C4 Naphthalenes	mg/kg	0.04				1.21	<0.04	0.097	<0.08	0.148	0.12
C4 Phenanthrenes/Anthracenes	mg/kg	0.04				14.3	0.079	0.84	<0.08	0.91	0.426
Biphenyl	mg/kg	0.01				0.022	<0.01	<0.01	<0.08	<0.01	<0.02
1-Methylnaphthalene	mg/kg	0.01				0.196	<0.01	0.012	<0.02	0.026	<0.02
2-methylnaphthalene	mg/kg	0.005		0.0202	0.201	0.135	0.0052	0.0078	0.011	0.0177	0.013
Acenaphthene	mg/kg	0.005	0.32	0.00671	0.0899	0.021	<0.005	<0.005	<0.01	<0.005	<0.01
Acenaphthylene	mg/kg	0.005	5	0.00587	0.128	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01
Anthracene	mg/kg	0.004	0.0046	0.00469	0.245	<0.004	<0.004	<0.004	<0.08	<0.004	<0.08
Benz(a)anthracene	mg/kg	0.005	0.07	0.0317	0.385	<0.005	<0.005	<0.005	<0.01	0.0065	<0.01
Benzofluoranthene	mg/kg	0.005	0.6	0.0319	0.782	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01
Acridine	mg/kg	0.005				<0.005	<0.005	<0.005	<0.01	<0.005	<0.01
Benzofluoranthene	mg/kg	0.01				<0.01	<0.01	<0.01	<0.02	<0.01	<0.02
Benzofluoranthene	mg/kg	0.005				<0.005	<0.005	<0.005	<0.01	<0.005	<0.01
Benzofluoranthene	mg/kg	0.005	6.2			<0.005	<0.005	<0.005	<0.01	<0.005	<0.01
C1 Acenaphthene	mg/kg	0.04				0.049	<0.04	<0.04	<0.08	<0.04	<0.08
C1 Benz(a)anthracenes/Chrysenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.08	<0.04	<0.08
C1 Benzofluoranthenes/Benzopyrenes	mg/kg	0.04				0.042	<0.04	<0.04	<0.08	<0.04	<0.08
C1 Biphenyls	mg/kg	0.04				<0.04	<0.04	<0.04	<0.08	<0.04	<0.08
C1 Dibenzothiophenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.08	<0.04	<0.08
Chrysene	mg/kg	0.005	6.2	0.0571	0.862	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01
C1 Fluoranthenes/Pyrenes	mg/kg	0.04				0.093	<0.04	<0.04	<0.08	<0.04	<0.08
C1 Fluorenes	mg/kg	0.04				0.073	<0.04	<0.04	<0.08	<0.04	<0.08
C1 Phenanthrenes/Anthracenes	mg/kg	0.04				0.293	<0.04	<0.04	<0.08	0.043	<0.08
Dibenz(a,h)anthracene	mg/kg	0.005	7.4	0.00622	0.135	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01
Dibenzothiophene	mg/kg	0.01				<0.01	<0.01	<0.01	<0.02	<0.01	<0.02
Fluoranthene	mg/kg	0.005	0.032	0.111	2.355	0.077	<0.005	0.0058	<0.01	<0.005	<0.01
Fluorene	mg/kg	0.005	0.29	0.0212	0.144	0.0628	<0.005	<0.005	<0.01	<0.005	<0.01
Indeno(1,2,3-c,d)pyrene	mg/kg	0.005				<0.005	<0.005	<0.005	<0.01	<0.005	<0.01
Naphthalene	mg/kg	0.005	0.016	0.0346	0.391	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01
Perylene	mg/kg	0.01				0.096	<0.01	0.016	<0.02	0.068	<0.02
Phenanthrene	mg/kg	0.005	0.051	0.0419	0.515	0.0975	0.0063	0.0086	<0.01	0.0138	0.013
Pyrene	mg/kg	0.005	0.034	0.053	0.875	0.0805	<0.005	0.0075	<0.01	0.017	<0.01
Quinoline	mg/kg	0.005				<0.005	<0.005	<0.005	<0.01	<0.005	<0.01
Retene	mg/kg	0.01				14.3	0.079	0.84	<0.02	0.91	0.426
C2 Benzofluoranthenes/Benzopyrenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.08	<0.04	<0.08
C2 Biphenyls	mg/kg	0.04				<0.04	<0.04	<0.04	<0.08	<0.04	<0.08
C2 Dibenzothiophenes	mg/kg	0.04				0.057	<0.04	<0.04	<0.08	<0.04	<0.08
C2 Fluoranthenes/Pyrenes	mg/kg	0.04				0.101	<0.04	<0.04	<0.08	<0.04	<0.08
C2 Naphthalenes	mg/kg	0.04				0.935	<0.04	0.065	<0.08	0.117	0.134
C2 Phenanthrenes/Anthracenes	mg/kg	0.04				0.06	<0.04	<0.04	<0.08	<0.04	<0.08
C2 Fluorenes	mg/kg	0.04				0.073	<0.04	<0.04	<0.08	<0.04	<0.08
C2 subd B(a)Anthracenes/Chrysenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.08	<0.04	<0.08
C3 Benzanthracenes/Chrysenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.08	<0.04	<0.08
C3 Dibenzothiophenes	mg/kg	0.04				0.05	<0.04	<0.04	<0.08	<0.04	<0.08
C3 Fluoranthenes/Pyrenes	mg/kg	0.04				0.043	<0.04	<0.04	<0.08	<0.04	<0.08
C3 Fluorenes	mg/kg	0.04				0.08	<0.04	<0.04	<0.08	<0.04	<0.08
C3 Naphthalenes	mg/kg	0.04				0.827	<0.04	0.054	<0.08	0.087	<0.08
C3 Phenanthrenes/Anthracenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.08	<0.04	<0.08
<b>Saturated Paste Extractables</b>											
Sulfur (as SO4)	mg/kg	9.6				240 <sup>#1</sup>	20 <sup>#1</sup>	69.9 <sup>#1</sup>	<53 <sup>#1</sup>	60 <sup>#1</sup>	177 <sup>#1</sup>
Calcium	mg/kg	1.6				82.1 <sup>#1</sup>	23.2 <sup>#1</sup>	22.8 <sup>#1</sup>	53.2 <sup>#1</sup>	55.7 <sup>#1</sup>	322 <sup>#1</sup>
Chloride	mg/kg	6.4				<14 <sup>#1</sup>	22 <sup>#1</sup>	<6.4 <sup>#1</sup>	<35 <sup>#1</sup>	<11 <sup>#1</sup>	<57 <sup>#1</sup>
Saturation Percentage	%	1				72.3	52	31.9	177	54.1	285
Electrical Conductivity (lab)	dS/m	0.01				1.22	0.335	0.749	0.189	0.705	0.725
Magnesium	mg/kg	0.96				17.1 <sup>#1</sup>	4.4 <sup>#1</sup>	4.51 <sup>#1</sup>	10.1 <sup>#1</sup>	11.3 <sup>#1</sup>	82.3 <sup>#1</sup>
pH (Lab)	pH	0.1	6-8.5			7.06	5.89	7.44	5.36	6.76	7.1
Potassium	mg/kg	0.64				4.3 <sup>#1</sup>	<1 <sup>#1</sup>	1.34 <sup>#1</sup>	<3.5 <sup>#1</sup>	2 <sup>#1</sup>	69.4 <sup>#1</sup>
Sodium	mg/kg	0.64				119 <sup>#1</sup>	7.9 <sup>#1</sup>	27.7 <sup>#1</sup>	13.2 <sup>#1</sup>	23.5 <sup>#1</sup>	66.8 <sup>#1</sup>
Sodium Adsorption Ratio	---	0.1				3.68 <sup>#1</sup>	0.54 <sup>#1</sup>	2.46 <sup>#1</sup>	0.33 <sup>#1</sup>	1.02 <sup>#1</sup>	0.53 <sup>#1</sup>
<b>Speciated Metals</b>											
Chromium (hexavalent)	mg/kg	0.1	0.4			<0.1	<0.1	<0.1	<0.55	<0.1	<0.35
<b>Volatile Organic Compounds</b>											
Benzene	mg/kg	0.005	0.046			<0.01	<0.005	<0.005	<0.035	<0.005	<0.035
Toluene	mg/kg	0.05	0.52			<0.1	<0.05	<0.05	<0.35	<0.05	<0.35
Ethylbenzene	mg/kg	0.01	0.11			<0.03	<0.015	<0.015	<0.11	<0.015	<0.11
Xylene (m & p)	mg/kg	0.05				<0.1	<0.05	<0.05	<0.35	<0.05	<0.35
Xylene (o)	mg/kg	0.05				<0.1	<0.05	<0.05	<0.35	<0.05	<0.35
Xylenes Total	mg/kg	0.1	15			<0.2 <sup>#1</sup>	<0.1 <sup>#1</sup>	<0.1 <sup>#1</sup>	<0.7 <sup>#1</sup>	<0.1 <sup>#1</sup>	<0.7 <sup>#1</sup>
Styrene	mg/kg	0.05	0.68			<0.1	<0.05	<0.05	<0.35	<0.05	<0.35

Comments  
#1 CALC



OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 6 - LOWER DX AREA

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

ENV617S	SOIL005				SOIL006	
09-Jan-14	08-Nov-13		08-Nov-13		08-Nov-13	
-0.07	0.09-0.3	-0.29-0	0-0.09	0.08-0.3	-0.33-0	
L1412224	L1390249	L1390249	L1390249	L1390249	L1390249	
473232	472872	472872	472872	472639	472639	
5939419	5939305	5939305	5939305	5939117	5939117	

Parameter	Unit	MDL	AS Tier 1, Natural Area (Fine Sam)	CSQG FW Sediment ISQG	CSQG FW Sediment PEL						
<b>Hydrocarbons</b>											
E2 (C10-C16 Hydrocarbons)	mg/kg	20				<20	<20	<49	<20	<20	<112
Total Hydrocarbons (C6-C50)	mg/kg	20				25	<20	859	<20	<20	310
Chrom. to baseline at nC50	-	-				1	1	0	1	1	1
Gravimetric Heavy Hydrocarbons	mg/kg	500				<500	-	1640	-	-	-
TEH: (C16-C34)	mg/kg	20				25	<20	524	<20	<20	161
TEH: (C34-C50)	mg/kg	20				<20	<20	335	<20	<20	152
TVH	mg/kg	10				<10	<10	<30	<10	<10	<80
TVH: (C6-C10 / BTEX CORRECTED)	mg/kg	10				<10	<10	<30	<10	<10	<80
<b>Leachable Metals</b>											
Barium	mg/kg	5	750			-	45.4	111	32.1	44.4	67
Barium, extractable	mg/kg	5				25.1	-	-	-	-	-
Boron (B), Hot Water Ext.	mg/kg	0.1				0.28	<0.2	0.58	0.12	0.38	0.61
<b>Metals</b>											
Aluminum	mg/kg	50				7360	11,900	3390	11,500	8900	1200
Antimony	mg/kg	0.1	20			0.19	0.36	0.15	0.31	0.29	0.19
Arsenic	mg/kg	0.1	17	5.9	17	4.17	7.12	2.27	6.16	6.72	1.26
Barium	mg/kg	0.5	750			155	152	287	130	123	140
Beryllium	mg/kg	0.2	5			0.33	0.53	<0.2	0.41	0.39	<0.2
Bismuth	mg/kg	0.2				<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium	mg/kg	0.1	3.8	0.6	3.5	0.16	0.16	0.28	0.23	0.37	1
Calcium	mg/kg	100				5730	5380	18,700	7790	5430	27,600
Chromium (III+VI)	mg/kg	0.5	64	37.3	90	12.3	16.1	4.94	15.4	13.5	1.71
Cobalt	mg/kg	0.1	20			6.02	7.01	2.47	6.66	5.76	1.05
Copper	mg/kg	0.5	63	35.7	197	7.01	13.1	10.2	11.1	12.5	6.91
Iron	mg/kg	50				13,000	17,400	5530	16,900	15,400	2270
Lead	mg/kg	0.5	70	35	91.3	5.67	10.5	5.84	9.89	7.74	3.43
Lithium	mg/kg	0.5				8.91	8.14	2.82	6.97	6.06	0.69
Magnesium	mg/kg	20				3360	3490	2440	3490	2930	2890
Manganese	mg/kg	1				408	350	474	353	266	171
Mercury	mg/kg	0.005	12	0.17	0.486	0.0218	0.0314	0.0992	0.0289	0.0369	0.0534
Molybdenum	mg/kg	0.1	4			0.53	0.59	0.48	0.61	0.55	1.45
Nickel	mg/kg	0.5	50			15.1	19.9	7.51	16.2	19.5	4.84
Phosphorus	mg/kg	50				464	415	823	468	492	646
Potassium	mg/kg	50				527	676	734	806	616	403
Selenium	mg/kg	0.2	1			0.2	<0.2	0.25	<0.2	<0.2	<0.2
Silver	mg/kg	0.2	20			<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	mg/kg	100				160	<100	380	<100	<100	110
Strontium	mg/kg	1				39.4	17.3	94.4	21.5	64	215
Thallium	mg/kg	0.05	1			<0.05	0.148	0.067	0.138	0.131	<0.05
Tin	mg/kg	2	5			<2	<2	<2	<2	<2	<2
Titanium	mg/kg	1				54.3	41.8	36.4	49.8	46.8	11
Uranium	mg/kg	0.05	33			0.652	0.76	0.641	0.911	0.888	2.13
Vanadium	mg/kg	0.2	130			18	25.2	7.71	25.3	21.5	3.77
Zinc	mg/kg	5	200	123	315	42.1	44.1	81.9	49.2	42.3	18.8
<b>Organic / Inorganic Carbon</b>											
Carbon	mg/kg	0.1				-	2.18 <sup>††</sup>	29.7 <sup>††</sup>	4.11 <sup>††</sup>	2.01 <sup>††</sup>	34.7 <sup>††</sup>
CaCO3 Equivalent	%	0.8				0.98	<0.8	0.89	<0.8	<0.8	0.92
Inorganic Carbon	mg/kg	0.1				0.12	<0.1	0.11	<0.1	<0.1	0.11
TOC	% dry weight	0.1				2.55 <sup>††</sup>	-	-	-	-	-
Total Carbon by Combustion	%	0.1				2.7	2.2	29.8	4.1	2	34.8
<b>Particle Size</b>											
Soil Particle Size (>75 um)	% by weight	1				70.2	-	-	-	-	-
% clay by hydrometer	% by weight	0.1				-	23	23.1	20.9	15.7	10.6
Sand % Texture	% by weight	0.1				-	50	8.9	46	64	5.35
Silt % Texture	% by weight	0.1				-	27	68	33.1	20.3	84
<b>Physical Tests</b>											
CaCO3 Equivalent	%	0.7				-	<0.7	2.56	1.06	0.89	3.18
Moisture	%	0.1				33.4	18.6	69.1	28.8	30.2	86.3

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 6 - LOWER DX AREA

Monitoring Zone

Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

ENV617S	SOIL005			SOIL006	
	09-Jan-14	08-Nov-13	08-Nov-13	08-Nov-13	08-Nov-13
-0.07	0.09-0.3	-0.29-0	0-0.09	0.08-0.3	-0.33-0
L1412224	L1390249	L1390249	L1390249	L1390249	L1390249
473232	472872	472872	472872	472639	472639
5939419	5939305	5939305	5939305	5939117	5939117

Parameter	Unit	MDL	A8 Tier 1, Natural Area (Fine Sand)	CSQG FW Sediment ISQG	CSQG FW Sediment PEL					
<b>Polycyclic Aromatic Hydrocarbons</b>										
Benzol(b)fluoranthene	mg/kg	0.005	6.2			<0.005	<0.005	<0.5	<0.005	<0.005
C4 Benzanthracenes/Chrysenes	mg/kg	0.04				<0.04	<0.04	<4	<0.04	<0.04
C4 Dibenzothiophenes	mg/kg	0.04				<0.04	<0.04	<4	<0.04	<0.04
C4 Fluoranthenes/Pyrenes	mg/kg	0.04				<0.04	<0.04	<4	<0.04	<0.04
C4 Naphthalenes	mg/kg	0.04				0.111	<0.04	1.95	<0.04	<0.04
C4 Phenanthrenes/Anthracenes	mg/kg	0.04				0.88	<0.04	<4	<0.04	0.06
Biphenyl	mg/kg	0.01				<0.01	<0.01	<0.1	<0.01	<0.01
1-Methylnaphthalene	mg/kg	0.01				0.018	<0.01	0.57	<0.01	<0.01
2-methylnaphthalene	mg/kg	0.005		0.0202	0.201	0.0123	<0.005	0.433	<0.005	<0.005
Acenaphthene	mg/kg	0.005	0.32	0.00671	0.0899	<0.005	<0.005	<0.05	<0.005	<0.005
Acenaphthylene	mg/kg	0.005	5	0.00587	0.128	<0.005	<0.005	<0.05	<0.005	<0.005
Anthracene	mg/kg	0.004	0.0046	0.00469	0.245	<0.004	<0.004	<0.04	<0.004	<0.004
Benz(a)anthracene	mg/kg	0.005	0.07	0.0317	0.385	<0.005	<0.005	<0.5	<0.005	<0.005
Benz(a)pyrene	mg/kg	0.005	0.6	0.0319	0.782	<0.005	<0.005	<0.5	<0.005	<0.005
Acridine	mg/kg	0.005				<0.005	<0.005	<0.05	<0.005	<0.005
Benz(e)pyrene	mg/kg	0.01				<0.01	<0.01	<1	<0.01	<0.01
Benz(o,q,h)perylene	mg/kg	0.005				<0.005	<0.005	<0.5	<0.005	<0.005
Benz(k)fluoranthene	mg/kg	0.005	6.2			<0.005	<0.005	<0.5	<0.005	<0.005
C1 Acenaphthenes	mg/kg	0.04				<0.04	<0.04	<0.4	<0.04	<0.04
C1 Benz(a)Anthracenes/Chrysenes	mg/kg	0.04				<0.04	<0.04	<4	<0.04	<0.04
C1 Benzofluoranthenes/Benzopyrenes	mg/kg	0.04				<0.04	<0.04	<4	<0.04	<0.04
C1 Biphenyls	mg/kg	0.04				<0.04	<0.04	<0.4	<0.04	<0.04
C1 Dibenzothiophenes	mg/kg	0.04				<0.04	<0.04	<4	<0.04	<0.04
Chrysene	mg/kg	0.005	6.2	0.0571	0.862	<0.005	<0.005	<0.5	<0.005	<0.005
C1 Fluoranthenes/Pyrenes	mg/kg	0.04				<0.04	<0.04	<4	<0.04	<0.04
C1 Fluorenes	mg/kg	0.04				<0.04	<0.04	<0.4	<0.04	<0.04
C1 Phenanthrenes/Anthracenes	mg/kg	0.04				<0.04	<0.04	<4	<0.04	<0.04
Dibenz(a,h)anthracene	mg/kg	0.005	7.4	0.00622	0.135	<0.005	<0.005	<0.5	<0.005	<0.005
Dibenzothiophene	mg/kg	0.01				<0.01	<0.01	<1	<0.01	<0.01
Fluoranthene	mg/kg	0.005	0.032	0.111	2.355	0.0069	<0.005	<0.5	<0.005	<0.005
Fluorene	mg/kg	0.005	0.29	0.0212	0.144	<0.005	<0.005	0.118	<0.005	<0.005
Indeno(1,2,3-c,d)pyrene	mg/kg	0.005				<0.005	<0.005	<0.5	<0.005	<0.005
Naphthalene	mg/kg	0.005	0.016	0.0346	0.391	<0.005	<0.005	<0.01	<0.005	<0.005
Perylene	mg/kg	0.01				0.027	<0.01	<1	<0.01	<0.01
Phenanthrene	mg/kg	0.005	0.051	0.0419	0.515	0.0094	<0.005	0.163	<0.005	<0.005
Pyrene	mg/kg	0.005	0.034	0.053	0.875	0.0094	<0.005	<0.5	<0.005	<0.005
Quinoline	mg/kg	0.005				<0.005	<0.005	<0.05	<0.005	<0.005
Retene	mg/kg	0.01				0.88	0.017	2.3	0.03	0.056
C2 Benzofluoranthenes/Benzopyrenes	mg/kg	0.04				<0.04	<0.04	<4	<0.04	<0.04
C2 Biphenyls	mg/kg	0.04				<0.04	<0.04	<4	<0.04	<0.04
C2 Dibenzothiophenes	mg/kg	0.04				<0.04	<0.04	<4	<0.04	<0.04
C2 Fluoranthenes/Pyrenes	mg/kg	0.04				<0.04	<0.04	<4	<0.04	<0.04
C2 Naphthalenes	mg/kg	0.04				0.09	<0.04	2.6	<0.04	<0.04
C2 Phenanthrenes/Anthracenes	mg/kg	0.04				<0.04	<0.04	<4	<0.04	<0.04
C2 Fluorenes	mg/kg	0.04				<0.04	<0.04	<0.4	<0.04	<0.04
C2 subd B(a)Anthracenes/Chrysenes	mg/kg	0.04				<0.04	<0.04	<4	<0.04	<0.04
C3 Benzanthracenes/Chrysenes	mg/kg	0.04				<0.04	<0.04	<4	<0.04	<0.04
C3 Dibenzothiophenes	mg/kg	0.04				<0.04	<0.04	<4	<0.04	<0.04
C3 Fluoranthenes/Pyrenes	mg/kg	0.04				<0.04	<0.04	<4	<0.04	<0.04
C3 Fluorenes	mg/kg	0.04				<0.04	<0.04	<0.4	<0.04	<0.04
C3 Naphthalenes	mg/kg	0.04				0.068	<0.04	3.4	<0.04	<0.04
C3 Phenanthrenes/Anthracenes	mg/kg	0.04				<0.04	<0.04	<4	<0.04	<0.04
<b>Saturated Paste Extractables</b>										
Sulfur (as SO4)	mg/kg	9.6				77 <sup>#1</sup>	-	-	-	-
Calcium	mg/kg	1.6				39 <sup>#1</sup>	-	-	-	-
Chloride	mg/kg	6.4				<8.9 <sup>#1</sup>	-	-	-	-
Saturation Percentage	%	1				44.7	49.5	430	59.8	40.4
Electrical Conductivity (lab)	dS/m	0.01				0.838	0.241	0.555	0.366	0.325
Magnesium	mg/kg	0.96				7.8 <sup>#1</sup>	-	-	-	-
pH (Lab)	pH	0.1	6-8.5			7.07	6.77	6.7	6.82	7.17
Potassium	mg/kg	0.64				1.61 <sup>#1</sup>	-	-	-	-
Sodium	mg/kg	0.64				37.1 <sup>#1</sup>	-	-	-	-
Sodium Adsorption Ratio	---	0.1				2.12 <sup>#1</sup>	0.28 <sup>#1</sup>	1.19 <sup>#1</sup>	0.43 <sup>#1</sup>	0.4 <sup>#1</sup>
<b>Speciated Metals</b>										
Chromium (hexavalent)	mg/kg	0.1	0.4			<0.1	<0.1	<1.5	<0.1	0.11
<b>Volatile Organic Compounds</b>										
Benzene	mg/kg	0.005	0.046			<0.005	<0.005	<0.015	<0.005	<0.005
Toluene	mg/kg	0.05	0.52			<0.05	<0.05	<0.15	<0.05	<0.4
Ethylbenzene	mg/kg	0.01	0.11			0.021	<0.015	<0.045	<0.015	<0.015
Xylene (m & p)	mg/kg	0.05				0.074	<0.05	<0.15	<0.05	<0.4
Xylene (o)	mg/kg	0.05				<0.05	<0.05	<0.15	<0.05	<0.4
Xylenes Total	mg/kg	0.1	15			<0.1 <sup>#1</sup>	<0.1 <sup>#1</sup>	<0.3 <sup>#1</sup>	<0.1 <sup>#1</sup>	<0.8 <sup>#1</sup>
Styrene	mg/kg	0.05	0.68			<0.05	-	-	-	-

Comments  
#1 CALC

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 6 - LOWER DX AREA

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

SOIL007		SOIL008		
08-Nov-13		08-Nov-13		
0-0.08	0-09-0	0-0.12	0.11-0.25	0-0.011
L1390249	L1390249	L1390249	L1390249	L1390249
472639	472711	472711	472949	472949
5939117	5939213	5939213	5939377	5939377

Parameter	Unit	MDL	A8 Tier 1, Natural Area (Fine Sam)	CSOG FW Sediment ISQG	CSOG FW Sediment PEL						
<b>Hydrocarbons</b>											
E2 (C10-C16 Hydrocarbons)	mg/kg	20				<20	<42	<20	<20	<20	<20
Total Hydrocarbons (C6-C50)	mg/kg	20				47	111	<20	108	<20	64
Chrom. to baseline at nC50	-	-				1	1	1	1	1	1
Gravimetric Heavy Hydrocarbons	mg/kg	500				-	-	-	-	-	-
TEH: (C16-C34)	mg/kg	20				25	59	<20	38	<20	27
TEH: (C34-C50)	mg/kg	20				22	52	<20	70	<20	37
TVH	mg/kg	10				<20	<30	<10	<10	<10	<10
TVH: (C6-C10 / BTEX CORRECTED)	mg/kg	10				<20	<30	<10	<10	<10	<10
<b>Leachable Metals</b>											
Barium	mg/kg	5	750			40.1	48.5	37.6	122	51.9	71
Barium, extractable	mg/kg	5				-	-	-	-	-	-
Boron (B), Hot Water Ext.	mg/kg	0.1				0.65	<0.1	0.11	0.53	0.17	0.65
<b>Metals</b>											
Aluminium	mg/kg	50				10,800	11,000	14,200	7500	11,500	14,900
Antimony	mg/kg	0.1	20			0.26	0.34	0.3	0.17	0.18	0.19
Arsenic	mg/kg	0.1	17	5.9	17	7.71	4.4	7.14	2.15	5.53	4.81
Barium	mg/kg	0.5	750			164	255	156	261	177	225
Beryllium	mg/kg	0.2	5			0.45	0.54	0.55	<0.2	0.53	0.55
Bismuth	mg/kg	0.2				<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium	mg/kg	0.1	3.8	0.6	3.5	0.48	0.42	0.13	0.96	<0.1	0.49
Calcium	mg/kg	100				8460	25,000	3900	5280	5470	5290
Chromium (III+VI)	mg/kg	0.5	64	37.3	90	16.4	11.9	19.9	9.5	17.5	20.6
Cobalt	mg/kg	0.1	20			5.31	4.5	8.18	3.19	7.77	9.04
Copper	mg/kg	0.5	63	35.7	197	12.3	12.8	12	8.09	10	9.51
Iron	mg/kg	50				19,300	13,800	19,300	8640	17,300	18,700
Lead	mg/kg	0.5	70	35	91.3	7.83	7.47	9.38	6.61	9.01	9.53
Lithium	mg/kg	0.5				8.22	9.44	12.3	5.37	13.3	13.3
Magnesium	mg/kg	20				3600	2970	3540	1910	3550	3570
Manganese	mg/kg	1				614	366	245	82	443	541
Mercury	mg/kg	0.005	12	0.17	0.486	0.0476	0.0587	0.0209	0.0643	0.0324	0.0325
Molybdenum	mg/kg	0.1	4			0.57	0.67	0.56	1.43	0.78	0.99
Nickel	mg/kg	0.5	50			19.7	15.5	21.1	8.28	17.2	17.4
Phosphorus	mg/kg	50				589	693	378	497	506	672
Potassium	mg/kg	50				727	581	700	536	526	520
Selenium	mg/kg	0.2	1			0.21	0.66	<0.2	0.32	0.4	0.38
Silver	mg/kg	0.2	20			<0.2	0.2	<0.2	<0.2	<0.2	<0.2
Sodium	mg/kg	100				<100	<100	<100	270	<100	<100
Strontium	mg/kg	1				84.2	46.7	14	60.1	38.6	46.8
Thallium	mg/kg	0.05	1			0.148	0.12	0.114	0.078	0.096	0.136
Tin	mg/kg	2	5			<2	<2	<2	<2	<2	<2
Titanium	mg/kg	1				41.6	27.7	55.8	23.8	47.3	40.7
Uranium	mg/kg	0.05	33			1.01	1.85	0.514	1.43	1.23	2.24
Vanadium	mg/kg	0.2	130			22.4	20.7	30.4	17.1	26.1	32.2
Zinc	mg/kg	5	200	123	315	50	35.6	42.1	39.6	44.9	53.3
<b>Organic / Inorganic Carbon</b>											
Carbon	mg/kg	0.1				5.18 <sup>#1</sup>	22 <sup>#1</sup>	0.92 <sup>#1</sup>	25.3 <sup>#1</sup>	1.72 <sup>#1</sup>	4.84 <sup>#1</sup>
CaCO3 Equivalent	%	0.8				<0.8	<0.8	<0.8	0.92	<0.8	<0.8
Inorganic Carbon	mg/kg	0.1				<0.1	<0.1	<0.1	0.11	<0.1	<0.1
TOC	% dry weight	0.1				-	-	-	-	-	-
Total Carbon by Combustion	%	0.1				5.2	22	0.9	25.4	1.7	4.8
<b>Particle Size</b>											
Soil Particle Size (>75 um)	% by weight	1				-	-	-	-	-	-
% clay by hydrometer	% by weight	0.1				20.9	12.2	21.8	18.9	20.4	19.1
Sand % Texture	% by weight	0.1				45	41	52	6.59	48.4	45
Silt % Texture	% by weight	0.1				34.1	46.8	26.3	74.5	31.2	35.9
<b>Physical Tests</b>											
CaCO3 Equivalent	%	0.7				1.16	2.29	<0.7	<0.7	<0.7	0.7
Moisture	%	0.1				44.8	64.9	16.8	31.8	22.8	30.8

OBED MOUNTAIN MINE  
SOIL/SEDIMENT MINE  
TABLE 6 - LOWER DX AREA

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

SOIL007		SOIL008		
08-Nov-13		08-Nov-13		
0-0.08	0-0.09-0	0-0.12	0.11-0.25	0-0.011
L1390249	L1390249	L1390249	L1390249	L1390249
472639	472711	472711	472949	472949
5939117	5939213	5939213	5939377	5939377

Parameter	Unit	MDL	A8 Tier 1, Natural Area (Fine Sand)	CSQG FW Sediment ISQG	CSQG FW Sediment PEL						
<b>Polycyclic Aromatic Hydrocarbons</b>											
Benzol(b)fluoranthene	mg/kg	0.005	6.2			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
C4 Benzanthracenes/Chrysenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C4 Dibenzothiophenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C4 Fluoranthenes/Pyrenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C4 Naphthalenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C4 Phenanthrenes/Anthracenes	mg/kg	0.04				<0.04	0.067	<0.04	0.127	<0.04	0.108
Biphenyl	mg/kg	0.01				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1-Methylnaphthalene	mg/kg	0.01				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-methylnaphthalene	mg/kg	0.005		0.0202	0.201	<0.005	0.013	<0.005	0.0069	<0.005	<0.005
Acenaphthene	mg/kg	0.005	0.32	0.00671	0.0899	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acenaphthylene	mg/kg	0.005	5	0.00587	0.128	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Anthracene	mg/kg	0.004	0.0046	0.00469	0.245	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Benz(a)anthracene	mg/kg	0.005	0.07	0.0317	0.385	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzofluoranthene	mg/kg	0.005	0.6	0.0319	0.782	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acridine	mg/kg	0.005				<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzofluoranthene	mg/kg	0.01				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzofluoranthene	mg/kg	0.005				<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzofluoranthene	mg/kg	0.005	6.2			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
C1 Acenaphthene	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C1 Benz(a)anthracenes/Chrysenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C1 Benzofluoranthenes/Benzopyrenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C1 Biphenyls	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C1 Dibenzothiophenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chrysene	mg/kg	0.005	6.2	0.0571	0.862	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
C1 Fluoranthenes/Pyrenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C1 Fluorenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C1 Phenanthrenes/Anthracenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Dibenz(a,h)anthracene	mg/kg	0.005	7.4	0.00622	0.135	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dibenzothiophene	mg/kg	0.01				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoranthene	mg/kg	0.005	0.032	0.111	2.355	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluorene	mg/kg	0.005	0.29	0.0212	0.144	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Indeno(1,2,3-c,d)pyrene	mg/kg	0.005				<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Naphthalene	mg/kg	0.005	0.016	0.0346	0.391	<0.005	0.0082	<0.005	<0.005	<0.005	<0.005
Perylene	mg/kg	0.01				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenanthrene	mg/kg	0.005	0.051	0.0419	0.515	<0.005	0.0146	<0.005	0.0068	<0.005	<0.005
Pyrene	mg/kg	0.005	0.034	0.053	0.875	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Quinoline	mg/kg	0.005				<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Retene	mg/kg	0.01				0.036	0.067	<0.01	0.127	<0.01	0.108
C2 Benzofluoranthenes/Benzopyrenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C2 Biphenyls	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C2 Dibenzothiophenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C2 Fluoranthenes/Pyrenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C2 Naphthalenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C2 Phenanthrenes/Anthracenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C2 Fluorenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C2 subd B(a)Anthracenes/Chrysenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C3 Benzanthracenes/Chrysenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C3 Dibenzothiophenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C3 Fluoranthenes/Pyrenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C3 Fluorenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C3 Naphthalenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C3 Phenanthrenes/Anthracenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
<b>Saturated Paste Extractables</b>											
Sulfur (as SO4)	mg/kg	9.6				-	-	-	-	-	-
Calcium	mg/kg	1.6				-	-	-	-	-	-
Chloride	mg/kg	6.4				-	-	-	-	-	-
Saturation Percentage	%	1				77.3	218	36.5	249	50.9	69.6
Electrical Conductivity (lab)	dS/m	0.01				0.257	0.563	0.296	0.338	0.21	0.301
Magnesium	mg/kg	0.96				-	-	-	-	-	-
pH (Lab)	pH	0.1	6-8.5			6.99	6.88	7.07	3.76	6.42	5.08
Potassium	mg/kg	0.64				-	-	-	-	-	-
Sodium	mg/kg	0.64				-	-	-	-	-	-
Sodium Adsorption Ratio	---	0.1				0.39 <sup>#1</sup>	0.22 <sup>#1</sup>	0.4 <sup>#1</sup>	1.34 <sup>#1</sup>	0.19 <sup>#1</sup>	0.29 <sup>#1</sup>
<b>Speciated Metals</b>											
Chromium (hexavalent)	mg/kg	0.1	0.4			<0.1	<1.5	0.3	<1	<0.1	<0.1
<b>Volatile Organic Compounds</b>											
Benzene	mg/kg	0.005	0.046			<0.01	<0.015	<0.005	<0.005	<0.005	<0.005
Toluene	mg/kg	0.05	0.52			<0.1	<0.15	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	mg/kg	0.01	0.11			<0.03	<0.045	<0.015	<0.015	<0.015	<0.015
Xylene (m & p)	mg/kg	0.05				<0.1	<0.15	<0.05	<0.05	<0.05	<0.05
Xylene (o)	mg/kg	0.05				<0.1	<0.15	<0.05	<0.05	<0.05	<0.05
Xylenes Total	mg/kg	0.1	15			<0.2 <sup>#1</sup>	<0.3 <sup>#1</sup>	<0.1 <sup>#1</sup>	<0.1 <sup>#1</sup>	<0.1 <sup>#1</sup>	<0.1 <sup>#1</sup>
Styrene	mg/kg	0.05	0.68			-	-	-	-	-	-

Comments  
#1 CALC

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 6 - LOWER DX AREA

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

SOIL009		SOIL010		
08-Nov-13		08-Nov-13		
-0.04-0	0-0.15	0.11-0.26	0.26-1	0-0.11
L1390249	L1390249	L1390249	L1390249	L1390249
473005	473005	472524	472524	472524
5939331	5939331	5939020	5939020	5939020

Parameter	Unit	MDL	AS Tier 1, Natural Area (Fine Sam)	CSOG FW Sediment ISQG	CSOG FW Sediment PEL					
<b>Hydrocarbons</b>										
E2 (C10-C16 Hydrocarbons)	mg/kg	20				<29	<20	<20	<20	<20
Total Hydrocarbons (C6-C50)	mg/kg	20				166	<20	<20	<20	43
Chrom. to baseline at nC50	-	-				1	1	1	1	1
Gravimetric Heavy Hydrocarbons	mg/kg	500				-	-	-	-	-
TEH: (C16-C34)	mg/kg	20				88	<20	<20	<20	22
TEH: (C34-C50)	mg/kg	20				78	<20	<20	<20	21
TVH	mg/kg	10				<20	<10	<10	<10	<10
TVH: (C6-C10 / BTEX CORRECTED)	mg/kg	10				<20	<10	<10	<10	<10
<b>Leachable Metals</b>										
Barium	mg/kg	5	750			30.1	21.9	40.8	54.1	36.6
Barium, extractable	mg/kg	5				-	-	-	-	-
Boron (B), Hot Water Ext.	mg/kg	0.1				0.24	<0.1	0.25	0.3	0.4
<b>Metals</b>										
Aluminium	mg/kg	50				10,700	12,000	9470	10,700	9460
Antimony	mg/kg	0.1	20			0.23	0.25	0.22	0.23	0.2
Arsenic	mg/kg	0.1	17	5.9	17	3.28	6.61	4.97	5.03	4.91
Barium	mg/kg	0.5	750			144	79.7	185	170	158
Beryllium	mg/kg	0.2	5			0.36	0.37	0.44	0.5	0.4
Bismuth	mg/kg	0.2				<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium	mg/kg	0.1	3.8	0.6	3.5	0.42	0.11	0.31	0.31	0.53
Calcium	mg/kg	100				9710	2960	7130	6370	7760
Chromium (III+VI)	mg/kg	0.5	64	37.3	90	12.3	15.6	15.2	16.2	14.5
Cobalt	mg/kg	0.1	20			4.4	5.22	6.61	7.59	6.54
Copper	mg/kg	0.5	63	35.7	197	7.58	7.13	10.4	11.7	9.57
Iron	mg/kg	50				11,800	17,300	15,800	16,300	15,300
Lead	mg/kg	0.5	70	35	91.3	8.82	8.1	7.77	8.3	7.5
Lithium	mg/kg	0.5				9.02	15	10.5	10.7	10.2
Magnesium	mg/kg	20				2600	3300	3410	3360	3280
Manganese	mg/kg	1				293	129	429	537	514
Mercury	mg/kg	0.005	12	0.17	0.486	0.0405	0.0107	0.0417	0.0386	0.041
Molybdenum	mg/kg	0.1	4			0.91	0.56	0.55	0.61	0.52
Nickel	mg/kg	0.5	50			11.6	17.6	17.3	19	16.1
Phosphorus	mg/kg	50				481	449	541	571	607
Potassium	mg/kg	50				727	523	511	518	498
Selenium	mg/kg	0.2	1			<0.2	<0.2	0.53	0.5	0.52
Silver	mg/kg	0.2	20			<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	mg/kg	100				100	<100	<100	<100	110
Strontium	mg/kg	1				34.1	12.7	34.8	27.6	34
Thallium	mg/kg	0.05	1			0.13	0.111	0.107	0.116	0.099
Tin	mg/kg	2	5			<2	<2	<2	<2	<2
Titanium	mg/kg	1				28.1	41.6	46.6	43.4	39.5
Uranium	mg/kg	0.05	33			0.549	0.444	1.11	1.25	1.24
Vanadium	mg/kg	0.2	130			24	27.2	22.1	23.8	21.2
Zinc	mg/kg	5	200	123	315	39.4	44.8	45.3	46.5	45
<b>Organic / Inorganic Carbon</b>										
Carbon	mg/kg	0.1				7.64 <sup>#1</sup>	0.98 <sup>#1</sup>	3.87 <sup>#1</sup>	3.49 <sup>#1</sup>	5.98 <sup>#1</sup>
CaCO3 Equivalent	%	0.8				<0.8	<0.8	<0.8	<0.8	<0.8
Inorganic Carbon	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1
TOC	% dry weight	0.1				-	-	-	-	-
Total Carbon by Combustion	%	0.1				7.6	1	3.9	3.5	6
<b>Particle Size</b>										
Soil Particle Size (>75 um)	% by weight	1				-	-	-	-	-
% clay by hydrometer	% by weight	0.1				20.4	20	14.4	18.4	14.4
Sand % Texture	% by weight	0.1				43.8	55.6	55.6	46.8	57.4
Silt % Texture	% by weight	0.1				35.8	24.4	30	34.8	28.2
<b>Physical Tests</b>										
CaCO3 Equivalent	%	0.7				1.46	<0.7	1.06	0.84	1.16
Moisture	%	0.1				55.9	18.9	28.8	25.5	35.4

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 6 - LOWER DX AREA

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

SOIL009		SOIL010		
08-Nov-13		08-Nov-13		
-0.04-0	0-0.15	0.11-0.26	0.26-1	0-0.11
L1390249	L1390249	L1390249	L1390249	L1390249
473005	473005	472524	472524	472524
5939331	5939331	5939020	5939020	5939020

Parameter	Unit	MDL	A8 Tier 1, Natural Area (Fine Sand)	CSQG FW Sediment ISQG	CSQG FW Sediment PEL					
<b>Polycyclic Aromatic Hydrocarbons</b>										
Benzol(b)fluoranthene	mg/kg	0.005	6.2			<0.005	<0.005	<0.005	<0.005	<0.005
C4 Benzanthracenes/Chrysenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04
C4 Dibenzothiophenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04
C4 Fluoranthenes/Pyrenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04
C4 Naphthalenes	mg/kg	0.04				0.057	<0.04	<0.04	0.542	0.043
C4 Phenanthrenes/Anthracenes	mg/kg	0.04				0.282	0.24	0.072	<0.04	0.382
Biphenyl	mg/kg	0.01				<0.01	<0.01	<0.01	0.086	<0.01
1-Methylnaphthalene	mg/kg	0.01				<0.01	<0.01	<0.01	1.02	<0.01
2-methylnaphthalene	mg/kg	0.005		0.0202	0.201	0.0143	0.0056	<0.005	1.89	0.0075
Acenaphthene	mg/kg	0.005	0.32	0.00671	0.0899	0.0202	<0.005	<0.005	0.0879	<0.005
Acenaphthylene	mg/kg	0.005	5	0.00587	0.128	<0.005	<0.005	<0.005	<0.005	<0.005
Anthracene	mg/kg	0.004	0.0046	0.00469	0.245	<0.004	<0.004	<0.004	<0.004	<0.004
Benz(a)anthracene	mg/kg	0.005	0.07	0.0317	0.385	<0.005	<0.005	<0.005	<0.005	<0.005
Benzofluoranthene	mg/kg	0.005	0.6	0.0319	0.782	<0.005	<0.005	<0.005	<0.005	<0.005
Acridine	mg/kg	0.005				<0.005	<0.005	<0.005	<0.005	<0.005
Benzofluoranthene	mg/kg	0.01				<0.01	<0.01	<0.01	<0.01	<0.01
Benzofluoranthene	mg/kg	0.005				<0.005	<0.005	<0.005	<0.005	<0.005
Benzofluoranthene	mg/kg	0.005	6.2			<0.005	<0.005	<0.005	<0.005	<0.005
C1 Acenaphthene	mg/kg	0.04				<0.04	<0.04	<0.04	0.383	<0.04
C1 Benz(a)anthracenes/Chrysenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04
C1 Benzofluoranthenes/Benzopyrenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04
C1 Biphenyls	mg/kg	0.04				<0.04	<0.04	<0.04	0.168	<0.04
C1 Dibenzothiophenes	mg/kg	0.04				<0.04	<0.04	<0.04	0.049	<0.04
Chrysene	mg/kg	0.005	6.2	0.0571	0.862	<0.005	<0.005	<0.005	<0.005	<0.005
C1 Fluoranthenes/Pyrenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04
C1 Fluorenes	mg/kg	0.04				<0.04	<0.04	<0.04	0.178	<0.04
C1 Phenanthrenes/Anthracenes	mg/kg	0.04				<0.04	<0.04	<0.04	0.153	<0.04
Dibenz(a,h)anthracene	mg/kg	0.005	7.4	0.00622	0.135	<0.005	<0.005	<0.005	<0.005	<0.005
Dibenzothiophene	mg/kg	0.01				<0.01	<0.01	<0.01	0.063	<0.01
Fluoranthene	mg/kg	0.005	0.032	0.111	2.355	<0.005	<0.005	<0.005	<0.005	<0.005
Fluorene	mg/kg	0.005	0.29	0.0212	0.144	<0.005	<0.005	<0.005	0.137	<0.005
Indeno(1,2,3-c,d)pyrene	mg/kg	0.005				<0.005	<0.005	<0.005	<0.005	<0.005
Naphthalene	mg/kg	0.005	0.016	0.0346	0.391	0.0079	<0.005	<0.005	0.0289	<0.005
Perylene	mg/kg	0.01				<0.01	<0.01	0.014	<0.01	0.03
Phenanthrene	mg/kg	0.005	0.051	0.0419	0.515	0.0103	0.0054	<0.005	0.168	0.0076
Pyrene	mg/kg	0.005	0.034	0.053	0.875	<0.005	<0.005	<0.005	<0.005	<0.005
Quinoline	mg/kg	0.005				<0.005	<0.005	<0.005	<0.005	<0.005
Retene	mg/kg	0.01				0.282	0.24	0.072	0.023	0.382
C2 Benzofluoranthenes/Benzopyrenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04
C2 Biphenyls	mg/kg	0.04				<0.04	<0.04	<0.04	0.088	<0.04
C2 Dibenzothiophenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04
C2 Fluoranthenes/Pyrenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04
C2 Naphthalenes	mg/kg	0.04				0.044	<0.04	<0.04	6.19	<0.04
C2 Phenanthrenes/Anthracenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04
C2 Fluorenes	mg/kg	0.04				<0.04	<0.04	<0.04	0.106	<0.04
C2 subd B(a)Anthracenes/Chrysenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04
C3 Benzanthracenes/Chrysenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04
C3 Dibenzothiophenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04
C3 Fluoranthenes/Pyrenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04
C3 Fluorenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04
C3 Naphthalenes	mg/kg	0.04				0.057	<0.04	<0.04	2.01	0.041
C3 Phenanthrenes/Anthracenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04
<b>Saturated Paste Extractables</b>										
Sulfur (as SO4)	mg/kg	9.6				-	-	-	-	-
Calcium	mg/kg	1.6				-	-	-	-	-
Chloride	mg/kg	6.4				-	-	-	-	-
Saturation Percentage	%	1				101	39.2	70.3	65.7	94.6
Electrical Conductivity (lab)	dS/m	0.01				0.367	0.165	0.552	0.225	0.447
Magnesium	mg/kg	0.96				-	-	-	-	-
pH (Lab)	pH	0.1	6-8.5			6.37	6.05	6.62	6.45	6.73
Potassium	mg/kg	0.64				-	-	-	-	-
Sodium	mg/kg	0.64				-	-	-	-	-
Sodium Adsorption Ratio	---	0.1				0.57 <sup>#1</sup>	0.4 <sup>#1</sup>	0.56 <sup>#1</sup>	0.2 <sup>#1</sup>	0.71 <sup>#1</sup>
<b>Speciated Metals</b>										
Chromium (hexavalent)	mg/kg	0.1	0.4			<0.1	<0.1	<0.1	<0.1	<0.1
<b>Volatile Organic Compounds</b>										
Benzene	mg/kg	0.005	0.046			<0.01	<0.005	<0.005	<0.005	<0.005
Toluene	mg/kg	0.05	0.52			<0.1	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	mg/kg	0.01	0.11			<0.03	<0.015	<0.015	<0.015	<0.015
Xylene (m & p)	mg/kg	0.05				<0.1	<0.05	<0.05	<0.05	<0.05
Xylene (o)	mg/kg	0.05				<0.1	<0.05	<0.05	<0.05	<0.05
Xylenes Total	mg/kg	0.1	15			<0.2 <sup>#1</sup>	<0.1 <sup>#1</sup>	<0.1 <sup>#1</sup>	<0.1 <sup>#1</sup>	<0.1 <sup>#1</sup>
Styrene	mg/kg	0.05	0.68			-	-	-	-	-

Comments  
#1 CALC