

OBED MOUNTAIN MINE
SOIL/SEDIMENT TABLE
TABLE 5 - UPPER DX AREA

Monitoring Zone	Upper DX				
Location	ENV133L	ENV135L	ENV138L	ENV142R	ENV606
Date	09-Nov-13	09-Nov-13	09-Nov-13	09-Nov-13	09-Jan-14
Depth (m)	0.07	-0.35	0.03-0.05	0.55	0-0.2
Lab Report	L1390251	L1390251	L1390251	L1390251	L1412224
Easting (NAD83 Zone 11N)	472302	472100	471963	472336	471803
Northing (NAD83 Zone 11N)	5938811	5938539	5938411	5938887	5938453

Parameter	Unit	MDL	AB Tier 1, Natural Area (Fine Grained)	CSQG FW Sediment ISQG	CSQG FW Sediment PEL					
Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	mg/kg	20				-	-	-	-	<20
Total Hydrocarbons (C6-C50)	mg/kg	20				-	-	-	-	<20
Chrom. to baseline at nC50	-					-	-	-	-	1
Gravimetric Heavy Hydrocarbons	mg/kg	500				-	-	-	-	<500
TEH: (C16-C34)	mg/kg	20				-	-	-	-	<20
TEH: (C34-C50)	mg/kg	20				-	-	-	-	<20
TVH	mg/kg	10				-	-	-	-	<10
TVH: (C6-C10 / BTEX CORRECTED)	mg/kg	10				-	-	-	-	<10
Leachable Metals										
Barium	mg/kg	5	750			36.6	50.8	32.6	43.3	-
Barium, extractable	mg/kg	5				-	-	-	-	20.6
Boron (B), Hot Water Ext.	mg/kg	0.1				0.5	1.88	0.26	1.34	0.17
Metals										
Aluminium	mg/kg	50				5910	5870	5750	6320	5200
Antimony	mg/kg	0.1	20			0.36	0.41	0.23	0.38	0.22
Arsenic	mg/kg	0.1	17	5.9	17	6.21	6.19	5.21	7.02	5.35
Barium	mg/kg	0.5	750			222	331	264	287	104
Beryllium	mg/kg	0.2	5			0.41	0.65	0.27	0.56	0.28
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	0.15	0.24	0.25	0.22	0.11
Calcium	mg/kg	100				7320	11,600	11,200	10,300	4130
Chromium (III+VI)	mg/kg	0.5	64	37.3	90	10.5	10.1	10.1	11.3	9.56
Cobalt	mg/kg	0.1	20			6.55	5.53	5.55	6.74	5.56
Copper	mg/kg	0.5	63	35.7	197	8.51	13.5	7.48	12	5.05
Iron	mg/kg	50				11,900	10,400	12,600	12,000	13,500
Lead	mg/kg	0.5	70	35	91.3	7.27	9.57	6.43	8.93	4.3
Lithium	mg/kg	0.5				6.58	7.25	7.44	7.79	6.53
Magnesium	mg/kg	20				2960	2960	3400	3230	2620
Manganese	mg/kg	1				395	332	310	370	415
Mercury	mg/kg	0.005	12	0.17	0.486	0.0272	0.0461	0.0356	0.0344	0.0118
Molybdenum	mg/kg	0.1	4			0.75	1.33	0.54	1.06	0.52
Nickel	mg/kg	0.5	50			15.7	15.7	14.7	17.6	14
Phosphorus	mg/kg	50				354	411	510	390	318
Potassium	mg/kg	50				482	389	484	477	437
Selenium	mg/kg	0.2	1			0.25	0.5	0.24	0.35	<0.2
Silver	mg/kg	0.2	20			<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	mg/kg	100				250	490	180	390	<100
Strontium	mg/kg	1				60.6	129	57.4	94.8	24.5
Thallium	mg/kg	0.05	1			0.107	0.159	0.11	0.156	0.057
Tin	mg/kg	2	5			<2	<2	<2	<2	<2
Titanium	mg/kg	1				127	203	57.5	155	60.4
Uranium	mg/kg	0.05	33			0.983	2.07	1.02	1.63	0.406
Vanadium	mg/kg	0.2	130			17.5	19.9	14.8	19.8	16.4
Zinc	mg/kg	5	200	123	315	35.3	38.4	37.3	41.3	28.7
Organic / Inorganic Carbon										
Carbon	mg/kg	0.1				-	-	-	-	-
CaCO3 Equivalent	%	0.8				1.71	1.34	1.94	1.4	1.5
Inorganic Carbon	mg/kg	0.1				0.21	0.16	0.23	0.17	0.18
TOC	% dry weight	0.1				8.35 ^{±1}	24.3 ^{±1}	2.45 ^{±1}	11.7 ^{±1}	1.89 ^{±1}
Total Carbon by Combustion	%	0.1				8.6	24.4	2.7	11.9	2.1
Particle Size										
Soil Particle Size (>75 um)	% by weight	1				-	-	-	-	84.8
% clay by hydrometer	% by weight	1				9.4	12.2	10	10.4	-
Sand % Texture	% by weight	1				80.8	64.2	73.4	71.8	-
Silt % Texture	% by weight	1				9.8	23.6	16.6	17.8	-
Physical Tests										
CaCO3 Equivalent	%	0.7				-	-	-	-	-
Moisture	%	0.1				18.8	33.4	30.9	48.7	23.6

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Monitoring Zone	Upper DX				
Location	ENV133L	ENV135L	ENV138L	ENV142R	ENV606
Date	09-Nov-13	09-Nov-13	09-Nov-13	09-Nov-13	09-Jan-14
Depth (m)	0.07	-0.35	0.03-0.05	0.55	0-0.2
Lab Report	L1390251	L1390251	L1390251	L1390251	L1412224
Easting (NAD83 Zone 11N)	472302	472100	471963	472336	471803
Northing (NAD83 Zone 11N)	5938811	5938539	5938411	5938887	5938453

Parameter	Unit	MDL	AB Tier 1, Natural Area (Fine Gr.)	CSQG FW Sediment ISQG	CSQG FW Sediment PEL					
Polycyclic Aromatic Hydrocarbons										
Benzo(b)fluoranthene	mg/kg	0.005	6.2			-	-	-	-	<0.005
C4 Benzantracenes/Chrysenes	mg/kg	0.04				-	-	-	-	<0.04
C4 Dibenzothiophenes	mg/kg	0.04				-	-	-	-	<0.04
C4 Fluoranthenes/Pyrenes	mg/kg	0.04				-	-	-	-	<0.04
C4 Naphthalenes	mg/kg	0.04				-	-	-	-	<0.04
C4 Phenanthrenes/Anthracenes	mg/kg	0.04				-	-	-	-	0.234
Biphenyl	mg/kg	0.01				-	-	-	-	<0.01
1-Methylnaphthalene	mg/kg	0.01				-	-	-	-	<0.01
2-methylnaphthalene	mg/kg	0.005		0.0202	0.201	-	-	-	-	<0.005
Acenaphthene	mg/kg	0.005	0.32	0.00671	0.0899	-	-	-	-	<0.005
Acenaphthylene	mg/kg	0.005	5	0.00587	0.128	-	-	-	-	<0.005
Anthracene	mg/kg	0.004	0.0046	0.00469	0.245	-	-	-	-	<0.004
Benz(a)anthracene	mg/kg	0.005	0.07	0.0317	0.385	-	-	-	-	<0.005
Benzo(a)pyrene	mg/kg	0.005	0.6	0.0319	0.782	-	-	-	-	<0.005
Acridine	mg/kg	0.005				-	-	-	-	<0.005
Benzo(e)pyrene	mg/kg	0.01				-	-	-	-	<0.01
Benzo(g,h,i)perylene	mg/kg	0.005				-	-	-	-	<0.005
Benzo(k)fluoranthene	mg/kg	0.005	6.2			-	-	-	-	<0.005
C1 Acenaphthenes	mg/kg	0.04				-	-	-	-	<0.04
C1 Benz(a)Anthracenes/Chrysenes	mg/kg	0.04				-	-	-	-	<0.04
C1 Benzofluoranthenes/Benzopyrenes	mg/kg	0.04				-	-	-	-	<0.04
C1 Biphenyls	mg/kg	0.04				-	-	-	-	<0.04
C1 Dibenzothiophenes	mg/kg	0.04				-	-	-	-	<0.04
Chrysene	mg/kg	0.005	6.2	0.0571	0.862	-	-	-	-	<0.005
C1 Fluoranthenes/Pyrenes	mg/kg	0.04				-	-	-	-	<0.04
C1 Fluorenes	mg/kg	0.04				-	-	-	-	<0.04
C1 Phenanthrenes/Anthracenes	mg/kg	0.04				-	-	-	-	<0.04
Dibenz(a,h)anthracene	mg/kg	0.005	7.4	0.00622	0.135	-	-	-	-	<0.005
Dibenzofluoranthene	mg/kg	0.01				-	-	-	-	<0.01
Fluoranthene	mg/kg	0.005	0.032	0.111	2.355	-	-	-	-	<0.005
Fluorene	mg/kg	0.005	0.29	0.0212	0.144	-	-	-	-	<0.005
Indeno(1,2,3-c,d)pyrene	mg/kg	0.005				-	-	-	-	<0.005
Naphthalene	mg/kg	0.005	0.016	0.0346	0.391	-	-	-	-	<0.005
Perylene	mg/kg	0.01				-	-	-	-	<0.01
Phenanthrene	mg/kg	0.005	0.051	0.0419	0.515	-	-	-	-	<0.005
Pyrene	mg/kg	0.005	0.034	0.053	0.875	-	-	-	-	<0.005
Quinoline	mg/kg	0.005				-	-	-	-	<0.005
Retene	mg/kg	0.01				-	-	-	-	0.234
C2 Benzofluoranthenes/Benzopyrenes	mg/kg	0.04				-	-	-	-	<0.04
C2 Biphenyls	mg/kg	0.04				-	-	-	-	<0.04
C2 Dibenzothiophenes	mg/kg	0.04				-	-	-	-	<0.04
C2 Fluoranthenes/Pyrenes	mg/kg	0.04				-	-	-	-	<0.04
C2 Naphthalenes	mg/kg	0.04				-	-	-	-	<0.04
C2 Phenanthrenes/Anthracenes	mg/kg	0.04				-	-	-	-	<0.04
C2 Fluorenes	mg/kg	0.04				-	-	-	-	<0.04
C2 subd B(a)Anthracenes/Chrysenes	mg/kg	0.04				-	-	-	-	<0.04
C3 Benzantracenes/Chrysenes	mg/kg	0.04				-	-	-	-	<0.04
C3 Dibenzothiophenes	mg/kg	0.04				-	-	-	-	<0.04
C3 Fluoranthenes/Pyrenes	mg/kg	0.04				-	-	-	-	<0.04
C3 Fluorenes	mg/kg	0.04				-	-	-	-	<0.04
C3 Naphthalenes	mg/kg	0.04				-	-	-	-	<0.04
C3 Phenanthrenes/Anthracenes	mg/kg	0.04				-	-	-	-	<0.04
Saturated Paste Extractables										
Sulfur (as SO4)	mg/kg	9.3				-	-	-	-	30.8 ^{#1}
Calcium	mg/kg	1.6				-	-	-	-	15.6 ^{#1}
Chloride	mg/kg	6.2				-	-	-	-	<6.5 ^{#1}
Saturation Percentage	%	1				36.4	62.9	44.5	53	32.5
Electrical Conductivity (lab)	dS/m	0.01				0.89	1.03	0.555	0.88	0.553
Magnesium	mg/kg	0.93				-	-	-	-	2.77 ^{#1}
pH (Lab)	pH	0.1	6-8.5			7.33	7.07	7.41	7.17	7.24
Potassium	mg/kg	0.62				-	-	-	-	1.12 ^{#1}
Sodium	mg/kg	0.62				-	-	-	-	19.5 ^{#1}
Sodium Adsorption Ratio	---	0.1				3.86 ^{#1}	3.59 ^{#1}	1.6 ^{#1}	3.9 ^{#1}	2.09 ^{#1}
Speciated Metals										
Chromium (hexavalent)	mg/kg	0.1	0.4			<0.1	<0.1	<0.1	<0.1	<0.1
Volatile Organic Compounds										
Benzene	mg/kg	0.005	0.046			-	-	-	-	<0.005
Toluene	mg/kg	0.05	0.52			-	-	-	-	<0.05
Ethylbenzene	mg/kg	0.01	0.11			-	-	-	-	<0.015
Xylene (m & p)	mg/kg	0.05				-	-	-	-	<0.05
Xylene (o)	mg/kg	0.05				-	-	-	-	<0.05
Xylenes Total	mg/kg	0.1	15			-	-	-	-	<0.1 ^{#1}
Styrene	mg/kg	0.05	0.68			-	-	-	-	<0.05

Comments
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OBED MOUNTAIN MINE
SOIL/SEDIMENT TABLE
TABLE 5 - UPPER DX AREA

Monitoring Zone

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

ENV606S	ENV607	ENV607S	ENV608	ENV608S	ENV609
09-Jan-14	09-Jan-14	09-Jan-14	08-Jan-14	08-Jan-14	09-Jan-14
-0.04	-0.2	0-0.2	-0.05	0-0.2	0-0.2
L1412224	L1412224	L1412224	L1412224	L1412224	L1412224
471803	471961	471961	472000	472139	472225
5938453	5938413	5938413	5938456	5938586	5938740

Parameter	Unit	MDL	AB Tier 1, Natural Area (Fine Grained)	CSQG FW Sediment ISQG	CSQG FW Sediment PEL							
Hydrocarbons												
F2 (C10-C16 Hydrocarbons)	mg/kg	20				31	<20	<20	<30	<20	<20	<20
Total Hydrocarbons (C6-C50)	mg/kg	20				287	117	<20	81	38	122	<20
Chrom. to baseline at nC50	-					1	1	1	1	1	1	1
Gravimetric Heavy Hydrocarbons	mg/kg	500				<500	<500	<500	<500	<500	<500	<500
TEH: (C16-C34)	mg/kg	20				173	59	<20	81	38	99	<20
TEH: (C34-C50)	mg/kg	20				83	58	<20	<30	<20	23	<20
TVH	mg/kg	10				<20	<20	<10	<30	<10	<10	<10
TVH: (C6-C10 / BTEX CORRECTED)	mg/kg	10				<20	<20	<10	<20	<10	<10	<10
Leachable Metals												
Barium	mg/kg	5	750			-	-	-	-	-	-	-
Barium extractable	mg/kg	5				35	58.1	28.8	44.2	27	30.9	26.4
Boron (B), Hot Water Ext.	mg/kg	0.1				1.66	0.58	0.15	1.09	0.56	1.09	0.29
Metals												
Aluminium	mg/kg	50				6240	11,400	5120	8170	5120	6180	7070
Antimony	mg/kg	0.1	20			0.4	0.16	0.19	0.35	0.25	0.41	0.26
Arsenic	mg/kg	0.1	17	5.9	17	5.9	5.14	10.5	6.51	5.7	6.9	6.17
Barium	mg/kg	0.5	750			412	205	134	584	219	379	170
Beryllium	mg/kg	0.2	5			0.63	0.41	0.39	0.63	0.34	0.58	0.41
Bismuth	mg/kg	0.2				<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	0.22	0.63	0.12	0.27	0.15	0.27	0.19
Calcium	mg/kg	100				12,900	7530	3190	13,500	6680	11,500	6470
Chromium (III+VI)	mg/kg	0.5	64	37.3	90	9.02	17.9	23.4	9.97	8.47	9.44	12.7
Cobalt	mg/kg	0.1	20			5.05	6.2	3.72	5.31	5.28	6.21	6.9
Copper	mg/kg	0.5	63	35.7	197	12.5	8.33	6.26	11.1	6.29	11	8.94
Iron	mg/kg	50				9780	11,100	20,100	10,700	11,700	10,600	15,000
Lead	mg/kg	0.5	70	35	91.3	8.92	6.51	5.84	11	6.15	8.45	6.93
Lithium	mg/kg	0.5				5.57	16.1	6.79	7.91	6.17	6.19	8.35
Magnesium	mg/kg	20				2830	2800	1800	3360	2650	3020	3280
Manganese	mg/kg	1				318	124	131	400	362	371	469
Mercury	mg/kg	0.005	12	0.17	0.486	0.0464	0.0431	0.0142	0.0613	0.0231	0.0435	0.02
Molybdenum	mg/kg	0.1	4			1.4	0.74	1	1.19	0.76	1.22	0.65
Nickel	mg/kg	0.5	50			14.1	16.2	14.5	13.8	12.6	14.9	16.9
Phosphorus	mg/kg	50				368	579	461	435	351	397	397
Potassium	mg/kg	50				450	544	403	613	450	455	512
Selenium	mg/kg	0.2	1			0.47	0.57	0.21	0.53	0.2	0.43	0.2
Silver	mg/kg	0.2	20			<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	mg/kg	100				530	<100	<100	390	210	390	170
Strontium	mg/kg	1				145	53.8	24.8	145	56.4	119	47.5
Thallium	mg/kg	0.05	1			0.171	0.116	<0.05	0.167	0.106	0.14	0.088
Tin	mg/kg	2	5			<2	<2	<2	<2	<2	<2	<2
Titanium	mg/kg	1				233	36.5	62	165	113	190	65.7
Uranium	mg/kg	0.05	33			1.98	1.6	0.565	1.97	0.77	1.6	0.763
Vanadium	mg/kg	0.2	130			19.1	20.5	17.5	18.1	15.6	18.5	19.7
Zinc	mg/kg	5	200	123	315	36.5	57.7	28.9	47.8	31	37.7	35.8
Organic / Inorganic Carbon												
Carbon	mg/kg	0.1				-	-	-	-	-	-	-
CaCO3 Equivalent	%	0.8				1.84	0.83	<0.8	2	1.31	1.83	1.95
Inorganic Carbon	mg/kg	0.1				0.22	<0.1	<0.1	0.24	0.16	0.22	0.23
TOC	% dry weight	0.1				20.3 ^{±1}	7.33 ^{±1}	1.95 ^{±1}	8.94 ^{±1}	4.42 ^{±1}	12.7 ^{±1}	2.52 ^{±1}
Total Carbon by Combustion	%	0.1				20.5	7.3	2	9.2	4.6	13	2.8
Particle Size												
Soil Particle Size (>75 um)	% by weight	1				53.4	41.9	75.1	40.3	70.5	58.6	75.4
% clay by hydrometer	% by weight	1				-	-	-	-	-	-	-
Sand % Texture	% by weight	1				-	-	-	-	-	-	-
Silt % Texture	% by weight	1				-	-	-	-	-	-	-
Physical Tests												
CaCO3 Equivalent	%	0.7				-	-	-	-	-	-	-
Moisture	%	0.1				48.6	54.1	18	54.7	33.4	25.1	33.5

OBED MOUNTAIN MINE
SOIL/SEDIMENT TABLE
TABLE 5 - UPPER DX AREA

Monitoring Zone

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

ENV606S	ENV607	ENV607S	ENV608	ENV608S	ENV609
09-Jan-14	09-Jan-14	09-Jan-14	08-Jan-14	08-Jan-14	09-Jan-14
-0.4	-0.2	0-0.2	-0.05	0-0.2	-0.4
L1412224	L1412224	L1412224	L1412224	L1412224	L1412224
471803	471961	471961	472000	472139	472225
5938453	5938413	5938413	5938456	5938586	5938740

Parameter	Unit	MDL	AB Tier 1, Natural Area (Fine Gr.)	CSQG FW Sediment ISQG	CSQG FW Sediment PEL	ENV606S	ENV607	ENV607S	ENV608	ENV608S	ENV609	
Polycyclic Aromatic Hydrocarbons												
Benzo[b]fluoranthene	mg/kg	0.005	6.2			<0.005	<0.005	<0.005	<0.005	0.0123	<0.005	<0.005
C4 Benzantracenes/Chrysenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C4 Dibenzothiophenes	mg/kg	0.04				0.057	<0.04	<0.04	0.062	<0.04	0.046	<0.04
C4 Fluoranthenes/Pyrenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C4 Naphthalenes	mg/kg	0.04				1.36	<0.04	<0.04	1.16	0.072	1.55	0.186
C4 Phenanthrenes/Anthracenes	mg/kg	0.04				12.8	0.113	0.174	11.2	0.48	12.6	1.65
Biphenyl	mg/kg	0.01				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1-Methylnaphthalene	mg/kg	0.01				0.252	<0.01	<0.01	0.165	0.017	0.294	0.028
2-methylnaphthalene	mg/kg	0.005		0.0202	0.201	0.175	0.0074	<0.005	0.112	0.0136	0.198	0.0207
Acenaphthene	mg/kg	0.005	0.32	0.00671	0.0899	0.0295	<0.005	<0.005	0.0231	<0.005	0.0266	<0.005
Acenaphthylene	mg/kg	0.005	5	0.00587	0.128	<0.005	<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	<0.004
Benzo[a]anthracene	mg/kg	0.005	0.07	0.0317	0.385	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	<0.005
Benzo[a]pyrene	mg/kg	0.005	0.6	0.0319	0.782	<0.005	<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	<0.005
Benzo[e]pyrene	mg/kg	0.01				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo[g,h,i]perylene	mg/kg	0.005				<0.005	<0.005	<0.005	0.0139	0.0055	<0.005	<0.005
Benzo[k]fluoranthene	mg/kg	0.005	6.2			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
C1 Acenaphthenes	mg/kg	0.04				0.055	<0.04	<0.04	0.046	<0.04	0.058	<0.04
C1 Benz(a)Anthracenes/Chrysenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C1 Benzofluoranthenes/Benzopyrenes	mg/kg	0.04				0.043	<0.04	<0.04	0.062	<0.04	0.042	<0.04
C1 Biphenyls	mg/kg	0.04				<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	<0.04
Chrysene	mg/kg	0.005	6.2	0.0571	0.862	<0.005	<0.005	<0.005	0.0187	<0.005	<0.005	<0.005
C1 Fluoranthenes/Pyrenes	mg/kg	0.04				0.099	<0.04	<0.04	0.1	<0.04	0.082	<0.04
C1 Fluorenes	mg/kg	0.04				0.085	<0.04	<0.04	0.074	<0.04	0.083	<0.04
C1 Phenanthrenes/Anthracenes	mg/kg	0.04				0.317	<0.04	<0.04	0.302	<0.04	0.279	0.05
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	<0.005
Dibenzothiophene	mg/kg	0.01				<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	0.0852	<0.005	<0.005	0.0858	0.0069	0.071	0.0125
Fluorene	mg/kg	0.005	0.29	0.0212	0.144	<0.005	<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	<0.005
Naphthalene	mg/kg	0.005	0.016	0.0346	0.391	<0.005	0.0058	<0.005	<0.005	<0.005	<0.005	<0.005
Perylene	mg/kg	0.01				0.111	0.066	0.013	0.116	0.053	0.08	0.039
Phenanthrene	mg/kg	0.005	0.051	0.0419	0.515	0.112	0.0067	<0.005	0.0837	0.0115	0.106	0.0162
Pyrene	mg/kg	0.005	0.034	0.053	0.875	0.0837	<0.005	0.0069	0.0855	0.0121	0.0741	0.0177
Quinoline	mg/kg	0.005				<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Retene	mg/kg	0.01				12.8	0.113	0.174	11.2	0.48	12.6	1.65
C2 Benzofluoranthenes/Benzopyrenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C2 Biphenyls	mg/kg	0.04				0.041	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C2 Dibenzothiophenes	mg/kg	0.04				0.062	<0.04	<0.04	0.066	<0.04	<0.04	<0.04
C2 Fluoranthenes/Pyrenes	mg/kg	0.04				0.1	<0.04	<0.04	0.11	<0.04	0.086	<0.04
C2 Naphthalenes	mg/kg	0.04				1.08	<0.04	<0.04	0.755	0.074	1.38	0.144
C2 Phenanthrenes/Anthracenes	mg/kg	0.04				0.077	<0.04	<0.04	0.069	<0.04	0.081	<0.04
C2 Fluorenes	mg/kg	0.04				0.079	<0.04	<0.04	0.077	<0.04	0.074	<0.04
C2 subd B(a)Anthracenes/Chrysenes	mg/kg	0.04				0.043	<0.04	<0.04	0.04	<0.04	<0.04	<0.04
C3 Benzantracenes/Chrysenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C3 Dibenzothiophenes	mg/kg	0.04				0.047	<0.04	<0.04	0.071	<0.04	0.048	<0.04
C3 Fluoranthenes/Pyrenes	mg/kg	0.04				0.045	<0.04	<0.04	0.047	<0.04	<0.04	<0.04
C3 Fluorenes	mg/kg	0.04				0.085	<0.04	<0.04	0.066	<0.04	0.067	<0.04
C3 Naphthalenes	mg/kg	0.04				0.921	<0.04	<0.04	0.645	0.055	0.953	0.11
C3 Phenanthrenes/Anthracenes	mg/kg	0.04				<0.04	<0.04	<0.04	0.247	<0.04	0.254	<0.04
Saturated Paste Extractables												
Sulfur (as SO4)	mg/kg	9.3				209 ^{#1}	80 ^{#1}	19.2 ^{#1}	69 ^{#1}	104 ^{#1}	121 ^{#1}	61 ^{#1}
Calcium	mg/kg	1.6				62.3 ^{#1}	45.2 ^{#1}	11 ^{#1}	51.8 ^{#1}	30.9 ^{#1}	39.7 ^{#1}	25.4 ^{#1}
Chloride	mg/kg	6.2				<13 ^{#1}	<17 ^{#1}	<6.2 ^{#1}	<13 ^{#1}	<7 ^{#1}	<10 ^{#1}	<8.1 ^{#1}
Saturation Percentage	%	1				66.8	83.3	31.1	62.6	35.2	51.5	40.4
Electrical Conductivity (lab)	dS/m	0.01				1.23	0.397	0.447	0.853	1.18	0.998	0.787
Magnesium	mg/kg	0.93				12.6 ^{#1}	9.1 ^{#1}	2.15 ^{#1}	10.5 ^{#1}	6.1 ^{#1}	8.2 ^{#1}	5 ^{#1}
pH (Lab)	pH	0.1	6-8.5			7.14	5.99	6.55	7.1	7.32	7.33	7.09
Potassium	mg/kg	0.62				4.4 ^{#1}	1.8 ^{#1}	0.77 ^{#1}	2.6 ^{#1}	2 ^{#1}	2 ^{#1}	1.65 ^{#1}
Sodium	mg/kg	0.62				102 ^{#1}	14.2 ^{#1}	14.5 ^{#1}	36.3 ^{#1}	41.9 ^{#1}	52.5 ^{#1}	35.4 ^{#1}
Sodium Adsorption Ratio	---	0.1				3.77 ^{#1}	0.55 ^{#1}	1.88 ^{#1}	1.52 ^{#1}	3.04 ^{#1}	2.76 ^{#1}	2.65 ^{#1}
Speciated Metals												
Chromium (hexavalent)	mg/kg	0.1	0.4			<0.4	<0.4	<0.2	<0.1	<0.1	<0.2	<0.1
Volatile Organic Compounds												
Benzene	mg/kg	0.005	0.046			<0.01	<0.01	<0.005	<0.01	<0.005	0.0109	<0.005
Toluene	mg/kg	0.05	0.52			<0.1	<0.1	<0.05	<0.1	<0.05	<0.05	<0.05
Ethylbenzene	mg/kg	0.01	0.11			<0.03	<0.03	<0.015	<0.03	<0.015	0.028	<0.015
Xylene (m & p)	mg/kg	0.05				<0.1	<0.1	<0.05	<0.1	<0.05	<0.05	<0.05
Xylene (o)	mg/kg	0.05				<0.1	<0.1	<0.05	<0.1	<0.05	<0.05	<0.05
Xylenes Total	mg/kg	0.1	15			<0.2 ^{#1}	<0.2 ^{#1}	<0.1 ^{#1}	<0.2 ^{#1}	<0.1 ^{#1}	<0.1 ^{#1}	<0.1 ^{#1}
Styrene	mg/kg	0.05	0.68			<0.1	<0.1	<0.05	<0.1	<0.05	<0.05	<0.05

Comments
#1 CALC

OBED MOUNTAIN MINE
SOIL/SEDIMENT TABLE
TABLE 5 - UPPER DX AREA

Monitoring Zone

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

ENV610	ENV610S	ENV618S	SOIL003		SOIL004		
08-Jan-14	08-Jan-14	09-Jan-14	08-Nov-13	08-Nov-13	08-Nov-13	08-Nov-13	08-Nov-13
0-0.2	-0.14	-0.36	-0.11-0	0-0.12	-0.4-0	-0.43--0.4	0-0.2
L1412224	L1412224	L1412224	L1390249	L1390249	L1390249	L1390249	L1390249
472355	472355	472400	472231	472231	472389	472389	472389
5938919	5938919	5938944	5938708	5938708	5938930	5938930	5938930

Parameter	Unit	MDL	AB Tier 1, Natural Area (Fine Grained)	CSQG FW Sediment ISQG	CSQG FW Sediment PEL	ENV610	ENV610S	ENV618S	SOIL003	SOIL004	SOIL004	SOIL004
Hydrocarbons												
F2 (C10-C16 Hydrocarbons)	mg/kg	20				<20	30	<20	<20	<20	<20	<44
Total Hydrocarbons (C6-C50)	mg/kg	20				46	255	59	52	27	<20	142
Chrom. to baseline at nC50	-					1	1	1	1	1	1	1
Gravimetric Heavy Hydrocarbons	mg/kg	500				<500	<500	<500	-	-	-	-
TEH: (C16-C34)	mg/kg	20				46	173	59	52	27	<20	114
TEH: (C34-C50)	mg/kg	20				<20	52	<20	<20	<20	<20	<44
TVH	mg/kg	10				<10	<10	<10	<10	<10	<10	<30
TVH: (C6-C10 / BTEX CORRECTED)	mg/kg	10				<10	<10	<10	<10	<10	<10	<30
Leachable Metals												
Barium	mg/kg	5	750			-	-	-	36.5	55	34.3	47.6
Barium extractable	mg/kg	5				26.9	27.8	28.2	-	-	-	-
Boron (B), Hot Water Ext.	mg/kg	0.1				0.29	1.28	0.4	0.59	0.39	0.56	1.14
Metals												
Aluminium	mg/kg	50				7180	7850	7450	5540	7150	6840	5600
Antimony	mg/kg	0.1	20			0.27	0.25	0.27	0.24	0.3	0.26	0.33
Arsenic	mg/kg	0.1	17	5.9	17	7.41	5.77	5.93	5.91	5.28	5.79	5.89
Barium	mg/kg	0.5	750			161	188	271	276	221	193	346
Beryllium	mg/kg	0.2	5			0.37	0.4	0.38	0.34	0.35	0.36	0.49
Bismuth	mg/kg	0.2				<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	0.18	0.18	0.16	0.27	0.35	0.19	0.17
Calcium	mg/kg	100				6180	7540	9360	11,400	13,000	7020	9010
Chromium (III+VI)	mg/kg	0.5	64	37.3	90	12.7	14.5	11.9	9.57	12.3	11.4	8.62
Cobalt	mg/kg	0.1	20			6.74	7.7	6.26	5.82	6.26	7.52	5.56
Copper	mg/kg	0.5	63	35.7	197	8.2	8.8	8.3	9.88	12	8.14	8.59
Iron	mg/kg	50				13,200	13,700	12,600	12,400	14,200	13,200	9540
Lead	mg/kg	0.5	70	35	91.3	6.39	6.81	7.3	7.2	7.19	7.33	8.42
Lithium	mg/kg	0.5				7.9	8.57	8.02	7.14	7.22	6.94	4.95
Magnesium	mg/kg	20				3260	3660	3590	3200	3560	3310	2700
Manganese	mg/kg	1				382	457	425	467	524	462	364
Mercury	mg/kg	0.005	12	0.17	0.486	0.0255	0.0265	0.0292	0.0401	0.0312	0.0284	0.0388
Molybdenum	mg/kg	0.1	4			0.54	0.62	0.68	0.69	0.73	0.69	1.13
Nickel	mg/kg	0.5	50			17.1	18.5	16.3	15.4	17.8	16.6	13.4
Phosphorus	mg/kg	50				394	397	452	498	604	385	335
Potassium	mg/kg	50				527	558	586	505	711	493	417
Selenium	mg/kg	0.2	1			0.21	<0.2	0.21	0.26	0.32	0.24	0.39
Silver	mg/kg	0.2	20			<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	mg/kg	100				170	190	160	240	200	250	480
Strontium	mg/kg	1				42.6	49.8	68.8	78.6	75.7	60.1	110
Thallium	mg/kg	0.05	1			0.086	0.095	0.116	0.109	0.106	0.105	0.143
Tin	mg/kg	2	5			<2	<2	<2	<2	<2	<2	<2
Titanium	mg/kg	1				76.7	81.4	112	53.9	55.9	109	213
Uranium	mg/kg	0.05	33			0.769	0.83	0.908	1.03	1.02	0.963	1.66
Vanadium	mg/kg	0.2	130			19.4	19.8	18.5	15	18.6	18.9	17.2
Zinc	mg/kg	5	200	123	315	34.8	38.6	39.1	59.7	66.2	38.1	37.4
Organic / Inorganic Carbon												
Carbon	mg/kg	0.1				-	-	-	4.35 ^{#1}	3.94 ^{#1}	5.38 ^{#1}	12.2 ^{#1}
CaCO3 Equivalent	%	0.8				1.72	2.07	2.41	1.42	1.66	1.29	1.57
Inorganic Carbon	mg/kg	0.1				0.21	0.25	0.29	0.17	0.2	0.15	0.19
TOC	% dry weight	0.1				9.4 ^{#1}	28.6 ^{#1}	1.99 ^{#1}	-	-	-	-
Total Carbon by Combustion	%	0.1				9.6	28.8	2.3	4.5	4.1	5.5	12.4
Particle Size												
Soil Particle Size (>75 um)	% by weight	1				71.9	59.5	59.6	-	-	-	-
% clay by hydrometer	% by weight	1				-	-	-	10.1	12	8.2	19.1
Sand % Texture	% by weight	1				-	-	-	72	71	78	46
Silt % Texture	% by weight	1				-	-	-	17.9	17	13.8	34.9
Physical Tests												
CaCO3 Equivalent	%	0.7				-	-	-	2.29	2.93	1.59	1.99
Moisture	%	0.1				31.9	29.6	27.7	26	32.6	25.6	38.6

OBED MOUNTAIN MINE
SOIL/SEDIMENT TABLE
TABLE 5 - UPPER DX AREA

Monitoring Zone

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

ENV610	ENV610S	ENV618S	SOIL003		SOIL004		
08-Jan-14	08-Jan-14	09-Jan-14	08-Nov-13	08-Nov-13	08-Nov-13	08-Nov-13	
0-0.2	-0.14	-0.36	-0.11-0	0-0.12	-0.4-0	-0.43-0.4	0-0.2
L1412224	L1412224	L1412224	L1390249	L1390249	L1390249	L1390249	L1390249
472355	472355	472400	472231	472231	472389	472389	472389
5938919	5938919	5938944	5938708	5938708	5938930	5938930	5938930

Parameter	Unit	MDL	AB Tier 1, Natural Area (Fine Gr.)	CSQG FW Sediment ISQG	CSQG FW Sediment PEL								
Polycyclic Aromatic Hydrocarbons													
Benzo(b)fluoranthene	mg/kg	0.005	6.2			0.0082	<0.005	<0.005	<0.005	0.0259	<0.005	<0.005	<0.005
C4 Benzantracenes/Chrysenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C4 Dibenzothiophenes	mg/kg	0.04				<0.04	0.077	<0.04	<0.04	<0.04	<0.04	0.107	<0.04
C4 Fluoranthenes/Pyrenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.123	<0.04
C4 Naphthalenes	mg/kg	0.04				0.199	2.55	0.265	0.158	0.319	0.148	2.53	0.105
C4 Phenanthrenes/Anthracenes	mg/kg	0.04				1.62	22.2	2.23	1.33	3.09	<0.4	21.3	0.416
Biphenyl	mg/kg	0.01				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.023	<0.01
1-Methylnaphthalene	mg/kg	0.01				0.036	0.525	0.034	0.026	0.062	0.024	0.457	0.02
2-methylnaphthalene	mg/kg	0.005		0.0202	0.201	0.0251	0.36	0.0229	0.0168	0.0358	0.0156	0.292	0.0144
Acenaphthene	mg/kg	0.005	0.32	0.00671	0.0899	<0.005	0.0543	<0.005	<0.005	<0.005	<0.005	0.0412	<0.005
Acenaphthylene	mg/kg	0.005	5	0.00587	0.128	<0.005	<0.005	<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	<0.004	<0.004
Benzo(a)anthracene	mg/kg	0.005	0.07	0.0317	0.385	0.0076	<0.005	0.0079	<0.005	<0.005	<0.005	<0.005	<0.005
Benzo(a)pyrene	mg/kg	0.005	0.6	0.0319	0.782	<0.005	<0.005	<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	0.0137	<0.005
Benzo(e)pyrene	mg/kg	0.01				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(g,h,i)perylene	mg/kg	0.005				<0.005	<0.005	<0.005	<0.005	0.009	<0.005	0.0102	<0.005
Benzo(k)fluoranthene	mg/kg	0.005	6.2			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
C1 Acenaphthenes	mg/kg	0.04				<0.04	0.094	<0.04	<0.04	<0.04	<0.04	0.123	<0.04
C1 Benz(a)Anthracenes/Chrysenes	mg/kg	0.04				<0.04	0.044	<0.04	<0.04	<0.04	<0.04	0.058	<0.04
C1 Benzofluoranthenes/Benzopyrenes	mg/kg	0.04				<0.04	0.056	<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	<0.04	<0.04
C1 Dibenzothiophenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.177	<0.04
Chrysene	mg/kg	0.005	6.2	0.0571	0.862	<0.005	0.0196	<0.005	<0.005	0.0083	<0.005	<0.005	<0.005
C1 Fluoranthenes/Pyrenes	mg/kg	0.04				<0.04	0.122	<0.04	<0.04	0.08	<0.04	0.397	<0.04
C1 Fluorenes	mg/kg	0.04				<0.04	0.138	<0.04	<0.04	<0.04	<0.04	0.155	<0.04
C1 Phenanthrenes/Anthracenes	mg/kg	0.04				0.05	0.5	0.063	<0.04	0.08	<0.04	0.492	<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	<0.005	<0.005
Dibenzothiophene	mg/kg	0.01				<0.01	<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	0.012	<0.005	0.0156	0.0102	0.0347	0.0103	0.133	0.0074
Fluorene	mg/kg	0.005	0.29	0.0212	0.144	<0.005	<0.005	<0.005	0.0068	<0.005	0.0064	0.12	0.0051
Indeno(1,2,3-c,d)pyrene	mg/kg	0.005				<0.005	<0.005	<0.005	<0.005	0.011	<0.005	0.0155	<0.005
Naphthalene	mg/kg	0.005	0.016	0.0346	0.391	<0.005	<0.005	<0.005	0.0101	0.0186	0.0082	0.142	0.0088
Perylene	mg/kg	0.01				0.04	0.102	0.029	0.015	0.107	0.016	0.104	0.02
Phenanthrene	mg/kg	0.005	0.051	0.0419	0.515	0.0165	0.164	0.0228	0.0122	0.0313	0.0116	0.175	0.0124
Pyrene	mg/kg	0.005	0.034	0.053	0.875	0.015	0.102	0.0186	0.0108	0.0495	0.0106	0.124	0.0085
Quinoline	mg/kg	0.005				<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Retene	mg/kg	0.01				1.62	22.2	2.23	1.33	3.09	0.13	21.3	0.42
C2 Benzofluoranthenes/Benzopyrenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
C2 Biphenyls	mg/kg	0.04				<0.04	0.062	<0.04	<0.04	<0.04	<0.04	0.071	<0.04
C2 Dibenzothiophenes	mg/kg	0.04				<0.04	0.085	<0.04	<0.04	<0.04	<0.04	0.114	<0.04
C2 Fluoranthenes/Pyrenes	mg/kg	0.04				<0.04	0.134	<0.04	<0.04	0.056	<0.04	0.181	<0.04
C2 Naphthalenes	mg/kg	0.04				0.171	2.3	0.171	0.117	0.246	0.112	1.93	0.092
C2 Phenanthrenes/Anthracenes	mg/kg	0.04				<0.04	0.105	<0.04	0.057	0.115	0.047	0.737	0.047
C2 Fluorenes	mg/kg	0.04				<0.04	0.134	<0.04	<0.04	<0.04	<0.04	0.233	<0.04
C2 subd B(a)Anthracenes/Chrysenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.057	<0.04
C3 Benzantracenes/Chrysenes	mg/kg	0.04				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.111	<0.04
C3 Dibenzothiophenes	mg/kg	0.04				<0.04	0.07	<0.04	<0.04	<0.04	<0.04	0.123	<0.04
C3 Fluoranthenes/Pyrenes	mg/kg	0.04				<0.04	0.068	<0.04	<0.04	<0.04	<0.04	0.095	<0.04
C3 Fluorenes	mg/kg	0.04				<0.04	0.142	<0.04	<0.04	<0.04	<0.04	0.226	0.045
C3 Naphthalenes	mg/kg	0.04				0.124	1.74	0.148	0.158	0.33	0.152	2.73	0.111
C3 Phenanthrenes/Anthracenes	mg/kg	0.04				<0.04	0.353	<0.04	0.227	0.516	0.23	2.85	0.137
Saturated Paste Extractables													
Sulfur (as SO4)	mg/kg	9.3				66 ^{#1}	-	37 ^{#1}	-	-	-	-	-
Calcium	mg/kg	1.6				20.4 ^{#1}	-	32.6 ^{#1}	-	-	-	-	-
Chloride	mg/kg	6.2				<7.5 ^{#1}	<9.8 ^{#1}	<8.1 ^{#1}	-	-	-	-	-
Saturation Percentage	%	1				37.7	48.9	40.7	63.3	75.6	38.7	50.8	177
Electrical Conductivity (lab)	dS/m	0.01				0.703	1.26	0.689	0.889	0.727	0.936	1.14	0.51
Magnesium	mg/kg	0.93				4.2 ^{#1}	-	7 ^{#1}	-	-	-	-	-
pH (Lab)	pH	0.1	6-8.5			7.34	7.25	7.28	7.45	7.56	7.39	7.42	7.33
Potassium	mg/kg	0.62				1.27 ^{#1}	-	1.96 ^{#1}	-	-	-	-	-
Sodium	mg/kg	0.62				31.5 ^{#1}	-	25.9 ^{#1}	-	-	-	-	-
Sodium Adsorption Ratio	---	0.1				2.7 ^{#1}	3.13 ^{#1}	1.68 ^{#1}	2.48 ^{#1}	1.67 ^{#1}	4.57 ^{#1}	4.6 ^{#1}	0.96 ^{#1}
Speciated Metals													
Chromium (hexavalent)	mg/kg	0.1	0.4			<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.15
Volatile Organic Compounds													
Benzene	mg/kg	0.005	0.046			<0.005	0.0193	<0.005	<0.005	<0.005	<0.005	0.0058	<0.015
Toluene	mg/kg	0.05	0.52			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.15
Ethylbenzene	mg/kg	0.01	0.11			<0.015	0.058	<0.015	<0.015	<0.015	<0.015	<0.015	<0.045
Xylene (m & p)	mg/kg	0.05				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.15
Xylene (o)	mg/kg	0.05				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.15
Xylenes Total	mg/kg	0.1	15			<0.1 ^{#1}	<0.1 ^{#1}	<0.1 ^{#1}	<0.1 ^{#1}	<0.1 ^{#1}	<0.1 ^{#1}	<0.1 ^{#1}	<0.3 ^{#1}
Styrene	mg/kg	0.05	0.68			<0.05	<0.05	<0.05	-	-	-	-	<0.15

Comments
#1 CALC