



ENVIRONMENTAL DYNAMICS INC.
ATTN: Meighan Kearns
2195 - 2nd Avenue
Whitehorse YT Y1A 3T8

Date Received: 08-JAN-14
Report Date: 13-JAN-14 17:17 (MT)
Version: FINAL

Client Phone: 867-393-4882

Certificate of Analysis

Lab Work Order #: L1409501
Project P.O. #: NOT SUBMITTED
Job Reference: 13-Y-0452
C of C Numbers: 1, 2
Legal Site Desc:

Comments: An extra sample identify as "Travel Blank" was received. Analysis was performed on this samples corresponding to the bottle types received and the analyses requested on the chain of custody form.

Can Dang
Senior Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1409501-1 Surface Water 07-JAN-14 13:45 X14	L1409501-2 Surface Water 07-JAN-14 14:02 X14-R	L1409501-3 Surface Water 07-JAN-14 14:16 X10	L1409501-4 Surface Water 07-JAN-14 14:44 X3A	L1409501-5 Surface Water 07-JAN-14 14:58 XZ
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	618	617	303	292	294
	Hardness (as CaCO3) (mg/L)	313	314	152	145	141
	pH (pH)	8.04	8.04	8.11	8.06	7.96
	Total Suspended Solids (mg/L)	3.4	1.8	<1.0	<1.0	1.0
	Total Dissolved Solids (mg/L)	401	402	173	168	166
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	162	164	130	126	125
	Ammonia, Total (as N) (mg/L)	0.0677	0.0673	0.0091	0.0135	<0.0050
	Chloride (Cl) (mg/L)	<0.50	<0.50	<0.50	<0.50	<0.50
	Fluoride (F) (mg/L)	0.159	0.163	0.165	0.168	0.179
	Nitrate (as N) (mg/L)	0.199	0.201	0.224	0.224	0.246
	Nitrite (as N) (mg/L)	<0.0010	0.0020	<0.0010	0.0010	<0.0010
	Phosphorus (P)-Total (mg/L)	<0.0020	<0.0020	0.0026	0.0036	0.0044
	Sulfate (SO4) (mg/L)	178	178	33.7	32.8	33.8
	Anion Sum (meq/L)	6.96	7.01	3.32	3.23	3.22
	Cation Sum (meq/L)	6.70	6.72	3.21	3.07	3.02
	Cation - Anion Balance (%)	-1.9	-2.1	-1.7	-2.5	-3.3
Organic / Inorganic Carbon	Dissolved Organic Carbon (mg/L)	1.56	1.48	1.48	1.64	1.71
	Total Organic Carbon (mg/L)	1.52	1.50	1.48	1.68	1.74
Total Metals	Aluminum (Al)-Total (mg/L)	0.0230	0.0224	0.0085	0.0128	0.0188
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Total (mg/L)	0.00044	0.00044	0.00029	0.00044	0.00050
	Barium (Ba)-Total (mg/L)	0.0667	0.0693	0.0705	0.0707	0.0686
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Total (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Cadmium (Cd)-Total (mg/L)	0.000210	0.000224	0.000202	0.000293	0.000442
	Calcium (Ca)-Total (mg/L)	92.3	91.4	43.3	42.0	41.3
	Chromium (Cr)-Total (mg/L)	0.00016	0.00015	0.00010	0.00011	0.00014
	Cobalt (Co)-Total (mg/L)	0.00289	0.00299	0.00100	0.00171	0.00295
	Copper (Cu)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Iron (Fe)-Total (mg/L)	0.695	0.698	0.307	0.367	0.261
	Lead (Pb)-Total (mg/L)	0.000186	0.000222	0.000147	0.000206	0.000362
	Lithium (Li)-Total (mg/L)	0.00688	0.00658	0.00545	0.00564	0.00716
	Magnesium (Mg)-Total (mg/L)	20.8	21.4	10.8	10.1	10.7
	Manganese (Mn)-Total (mg/L)	3.11	3.20	0.104	0.157	0.188
	Molybdenum (Mo)-Total (mg/L)	0.000690	0.000651	0.000640	0.000629	0.000770

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1409501-6 Surface Water 07-JAN-14 15:06 NF2-A	L1409501-7 Surface Water 07-JAN-14 15:15 NF2-B	L1409501-8 Surface Water 07-JAN-14 15:00 NF2	L1409501-9 Surface Water 07-JAN-14 15:44 NF1	L1409501-10 Surface Water 07-JAN-14 16:03 R10
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	402	264	294	348	261
	Hardness (as CaCO3) (mg/L)	188	126	141	170	128
	pH (pH)	7.85	8.01	7.94	8.05	8.02
	Total Suspended Solids (mg/L)	16.8	<1.0	<1.0	13.6	1.4
	Total Dissolved Solids (mg/L)	244	145	168	198	147
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	121	121	125	163	124
	Ammonia, Total (as N) (mg/L)	0.0109	0.0050	<0.0050	0.0117	0.0054
	Chloride (Cl) (mg/L)	<0.50	<0.50	<0.50	<0.50	<0.50
	Fluoride (F) (mg/L)	0.307	0.161	0.186	0.194	0.162
	Nitrate (as N) (mg/L)	0.295	0.249	0.250	0.304	0.236
	Nitrite (as N) (mg/L)	0.0037	<0.0010	0.0014	0.0047	<0.0010
	Phosphorus (P)-Total (mg/L)	0.0145	0.0049	0.0039	0.0361	0.0047
	Sulfate (SO4) (mg/L)	93.4	21.0	34.8	28.7	20.0
	Anion Sum (meq/L)	4.40	2.89	3.25	3.88	2.92
	Cation Sum (meq/L)	4.20	2.66	3.04	3.61	2.69
	Cation - Anion Balance (%)	-2.4	-4.1	-3.4	-3.6	-4.0
Organic / Inorganic Carbon	Dissolved Organic Carbon (mg/L)	2.12	1.81	1.69	3.60	1.65
	Total Organic Carbon (mg/L)	2.09	1.71	1.50	4.09	1.64
Total Metals	Aluminum (Al)-Total (mg/L)	0.262	0.0207	0.0393	0.265	0.0162
	Antimony (Sb)-Total (mg/L)	0.00017	<0.00010	<0.00010	0.00019	<0.00010
	Arsenic (As)-Total (mg/L)	0.00104	0.00054	0.00052	0.00089	0.00057
	Barium (Ba)-Total (mg/L)	0.0738	0.0660	0.0673	0.0960	0.0680
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Total (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Cadmium (Cd)-Total (mg/L)	0.00403	0.000023	0.000917	0.000093	0.000014
	Calcium (Ca)-Total (mg/L)	39.5	38.1	37.6	50.2	38.5
	Chromium (Cr)-Total (mg/L)	0.00191	0.00014	0.00013	0.00078	0.00011
	Cobalt (Co)-Total (mg/L)	0.0264	<0.00010	0.00626	0.00035	<0.00010
	Copper (Cu)-Total (mg/L)	0.00162	<0.00050	<0.00050	0.00154	<0.00050
	Iron (Fe)-Total (mg/L)	1.80	0.143	0.294	0.527	0.148
	Lead (Pb)-Total (mg/L)	0.00499	0.000810	0.000419	0.00249	0.000067
	Lithium (Li)-Total (mg/L)	0.00893	0.00655	0.00671	0.00866	0.00633
	Magnesium (Mg)-Total (mg/L)	20.6	8.19	11.5	11.4	8.19
	Manganese (Mn)-Total (mg/L)	1.18	0.0196	0.296	0.0572	0.0274
	Molybdenum (Mo)-Total (mg/L)	0.000774	0.000777	0.000759	0.00103	0.000801

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	Description	Sampled Date	Sampled Time	Client ID	L1409501-11	L1409501-12	L1409501-13	L1409501-14								
	Surface Water	07-JAN-14	16:15	R9	Surface Water	07-JAN-14	16:27	R8	Surface Water	07-JAN-14	16:33	FIELD BLANK	Surface Water	08-JAN-14	14:38	TRAVEL BLANK
Grouping	Analyte															
WATER																
Physical Tests	Conductivity (uS/cm)	260	234	<2.0	<2.0											
	Hardness (as CaCO3) (mg/L)	130	117	<0.50	<0.50											
	pH (pH)	8.13	8.16	5.77	5.62											
	Total Suspended Solids (mg/L)	<1.0	<1.0	<1.0	<1.0											
	Total Dissolved Solids (mg/L)	148	129	<1.0	<1.0											
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	126	118	<2.0	<2.0											
	Ammonia, Total (as N) (mg/L)	0.0053	0.0063	<0.0050	<0.0050											
	Chloride (Cl) (mg/L)	<0.50	<0.50	<0.50	<0.50											
	Fluoride (F) (mg/L)	0.161	0.159	<0.020	<0.020											
	Nitrate (as N) (mg/L)	0.237	0.147	<0.0050	<0.0050											
	Nitrite (as N) (mg/L)	0.0011	<0.0010	<0.0010	<0.0010											
	Phosphorus (P)-Total (mg/L)	0.0049	0.0060	<0.0020	<0.0020											
	Sulfate (SO4) (mg/L)	19.6	9.57	<0.50	<0.50											
	Anion Sum (meq/L)	2.94	2.58	<0.10	<0.10											
	Cation Sum (meq/L)	2.73	2.48	<0.10	<0.10											
	Cation - Anion Balance (%)	-3.7	-2.0	0.0	0.0											
Organic / Inorganic Carbon	Dissolved Organic Carbon (mg/L)	1.57	1.64	<0.50	<0.50											
	Total Organic Carbon (mg/L)	1.56	1.48	<0.50	<0.50											
Total Metals	Aluminum (Al)-Total (mg/L)	0.0164	0.0123	<0.0030	<0.0030											
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010											
	Arsenic (As)-Total (mg/L)	0.00056	0.00066	<0.00010	<0.00010											
	Barium (Ba)-Total (mg/L)	0.0665	0.0661	<0.000050	<0.000050											
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010											
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050											
	Boron (B)-Total (mg/L)	<0.010	<0.010	<0.010	<0.010											
	Cadmium (Cd)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010											
	Calcium (Ca)-Total (mg/L)	37.4	35.2	<0.020	<0.020											
	Chromium (Cr)-Total (mg/L)	0.00013	0.00012	<0.00010	<0.00010											
	Cobalt (Co)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010											
	Copper (Cu)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050											
	Iron (Fe)-Total (mg/L)	0.146	0.163	<0.010	<0.010											
	Lead (Pb)-Total (mg/L)	0.000059	<0.000050	<0.000050	<0.000050											
	Lithium (Li)-Total (mg/L)	0.00579	0.00581	<0.00050	<0.00050											
	Magnesium (Mg)-Total (mg/L)	8.09	6.88	<0.0050	<0.0050											
	Manganese (Mn)-Total (mg/L)	0.0247	0.0251	<0.000050	<0.000050											
	Molybdenum (Mo)-Total (mg/L)	0.000785	0.000823	<0.000050	<0.000050											

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ALS ENVIRONMENTAL ANALYTICAL REPORT

13-JAN-14 17:17 (MT)

Version: FINAL

		Sample ID	L1409501-1	L1409501-2	L1409501-3	L1409501-4	L1409501-5
		Description	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
		Sampled Date	07-JAN-14	07-JAN-14	07-JAN-14	07-JAN-14	07-JAN-14
		Sampled Time	13:45	14:02	14:16	14:44	14:58
		Client ID	X14	X14-R	X10	X3A	XZ
Grouping	Analyte						
WATER							
Total Metals	Nickel (Ni)-Total (mg/L)		0.00667	0.00672	0.00289	0.00336	0.00474
	Phosphorus (P)-Total (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Total (mg/L)		1.67	1.72	1.07	1.08	0.981
	Selenium (Se)-Total (mg/L)		0.00037	0.00040	0.00038	0.00036	0.00040
	Silicon (Si)-Total (mg/L)		6.05	6.09	5.67	5.64	5.93
	Silver (Ag)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)		5.66	5.82	2.70	2.94	3.04
	Strontium (Sr)-Total (mg/L)		0.304	0.306	0.198	0.195	0.179
	Thallium (Tl)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Tin (Sn)-Total (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Total (mg/L)		0.00291	0.00297	0.00243	0.00242	0.00228
	Vanadium (V)-Total (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Total (mg/L)		0.325	0.331	0.391	0.466	0.664
	Zirconium (Zr)-Total (mg/L)		<0.00080	<0.00080	<0.00080	<0.00080	<0.00080
Dissolved Metals	Dissolved Metals Filtration Location		FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)		0.0022	0.0019	0.0023	0.0037	0.0042
	Antimony (Sb)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Dissolved (mg/L)		0.00025	0.00024	0.00015	0.00024	0.00028
	Barium (Ba)-Dissolved (mg/L)		0.0659	0.0665	0.0687	0.0688	0.0679
	Beryllium (Be)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
	Cadmium (Cd)-Dissolved (mg/L)		0.000206	0.000205	0.000190	0.000279	0.000428
	Calcium (Ca)-Dissolved (mg/L)		91.1	90.8	43.2	41.6	39.2
	Chromium (Cr)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Cobalt (Co)-Dissolved (mg/L)		0.00284	0.00290	0.00100	0.00163	0.00292
	Copper (Cu)-Dissolved (mg/L)		0.00027	0.00025	0.00027	0.00025	0.00024
	Iron (Fe)-Dissolved (mg/L)		0.385	0.394	0.041	0.183	0.079
	Lead (Pb)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)		0.00669	0.00657	0.00539	0.00558	0.00677
	Magnesium (Mg)-Dissolved (mg/L)		20.9	21.3	10.7	9.93	10.6
	Manganese (Mn)-Dissolved (mg/L)		3.12	3.08	0.102	0.151	0.184
	Molybdenum (Mo)-Dissolved (mg/L)		0.000650	0.000628	0.000611	0.000594	0.000740
	Nickel (Ni)-Dissolved (mg/L)		0.00647	0.00653	0.00276	0.00325	0.00470
	Phosphorus (P)-Dissolved (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)		1.69	1.69	1.07	1.07	0.978

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ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1409501-6	L1409501-7	L1409501-8	L1409501-9	L1409501-10
		Description	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
		Sampled Date	07-JAN-14	07-JAN-14	07-JAN-14	07-JAN-14	07-JAN-14
		Sampled Time	15:06	15:15	15:00	15:44	16:03
		Client ID	NF2-A	NF2-B	NF2	NF1	R10
Grouping	Analyte						
WATER							
Total Metals	Nickel (Ni)-Total (mg/L)		0.0379	0.00059	0.00924	0.00151	<0.00050
	Phosphorus (P)-Total (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Total (mg/L)		1.11	0.897	0.935	2.07	0.885
	Selenium (Se)-Total (mg/L)		0.00042	0.00040	0.00040	0.00055	0.00041
	Silicon (Si)-Total (mg/L)		6.25	5.91	5.95	8.37	5.99
	Silver (Ag)-Total (mg/L)		0.000020	<0.000010	<0.000010	0.000012	<0.000010
	Sodium (Na)-Total (mg/L)		3.33	2.76	2.92	3.81	2.80
	Strontium (Sr)-Total (mg/L)		0.182	0.173	0.167	0.224	0.170
	Thallium (Tl)-Total (mg/L)		0.000011	<0.000010	<0.000010	0.000017	<0.000010
	Tin (Sn)-Total (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)		<0.010	<0.010	<0.010	0.011	<0.010
	Uranium (U)-Total (mg/L)		0.00228	0.00211	0.00218	0.00275	0.00215
	Vanadium (V)-Total (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Total (mg/L)		5.87	0.0145	1.38	0.0306	0.0101
	Zirconium (Zr)-Total (mg/L)		<0.00080	<0.00080	<0.00080	<0.00080	<0.00080
Dissolved Metals	Dissolved Metals Filtration Location		FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)		0.0169	0.0026	0.0070	0.0020	0.0026
	Antimony (Sb)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Dissolved (mg/L)		0.00021	0.00039	0.00035	0.00048	0.00042
	Barium (Ba)-Dissolved (mg/L)		0.0678	0.0685	0.0676	0.0899	0.0684
	Beryllium (Be)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
	Cadmium (Cd)-Dissolved (mg/L)		0.00390	0.000017	0.000857	0.000072	0.000014
	Calcium (Ca)-Dissolved (mg/L)		40.7	36.6	38.4	49.2	37.7
	Chromium (Cr)-Dissolved (mg/L)		0.00032	<0.00010	<0.00010	<0.00010	<0.00010
	Cobalt (Co)-Dissolved (mg/L)		0.0255	<0.00010	0.00564	0.00015	<0.00010
	Copper (Cu)-Dissolved (mg/L)		0.00055	0.00026	0.00026	0.00061	0.00021
	Iron (Fe)-Dissolved (mg/L)		0.523	0.029	0.148	0.022	0.034
	Lead (Pb)-Dissolved (mg/L)		0.000151	<0.000050	0.000063	0.000111	<0.000050
	Lithium (Li)-Dissolved (mg/L)		0.00873	0.00586	0.00698	0.00833	0.00610
	Magnesium (Mg)-Dissolved (mg/L)		21.1	8.31	11.1	11.4	8.12
	Manganese (Mn)-Dissolved (mg/L)		1.16	0.0179	0.269	0.0402	0.0247
	Molybdenum (Mo)-Dissolved (mg/L)		0.000781	0.000719	0.000756	0.000974	0.000762
	Nickel (Ni)-Dissolved (mg/L)		0.0373	<0.00050	0.00822	0.00077	<0.00050
	Phosphorus (P)-Dissolved (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)		1.12	0.906	0.935	2.03	0.867

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1409501-11	L1409501-12	L1409501-13	L1409501-14
		Description	Surface Water	Surface Water	Surface Water	Surface Water
		Sampled Date	07-JAN-14	07-JAN-14	07-JAN-14	08-JAN-14
		Sampled Time	16:15	16:27	16:33	14:38
		Client ID	R9	R8	FIELD BLANK	TRAVEL BLANK
Grouping	Analyte					
WATER						
Total Metals	Nickel (Ni)-Total (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050
	Phosphorus (P)-Total (mg/L)		<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Total (mg/L)		0.855	0.797	<0.050	<0.050
	Selenium (Se)-Total (mg/L)		0.00043	0.00040	<0.00010	<0.00010
	Silicon (Si)-Total (mg/L)		5.74	6.05	<0.050	<0.050
	Silver (Ag)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)		2.70	2.68	<0.050	<0.050
	Strontium (Sr)-Total (mg/L)		0.160	0.149	<0.00020	<0.00020
	Thallium (Tl)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010
	Tin (Sn)-Total (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)		<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Total (mg/L)		0.00213	0.00194	<0.000010	<0.000010
	Vanadium (V)-Total (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Total (mg/L)		<0.0030	<0.0030	<0.0030	<0.0030
	Zirconium (Zr)-Total (mg/L)		<0.00080	<0.00080	<0.00080	<0.00080
Dissolved Metals	Dissolved Metals Filtration Location		FIELD	FIELD	FIELD	
	Aluminum (Al)-Dissolved (mg/L)		0.0019	0.0024	<0.0010	
	Antimony (Sb)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	
	Arsenic (As)-Dissolved (mg/L)		0.00041	0.00046	<0.00010	
	Barium (Ba)-Dissolved (mg/L)		0.0676	0.0684	<0.000050	
	Beryllium (Be)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	
	Bismuth (Bi)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	
	Boron (B)-Dissolved (mg/L)		<0.010	<0.010	<0.010	
	Cadmium (Cd)-Dissolved (mg/L)		<0.000010	<0.000010	<0.000010	
	Calcium (Ca)-Dissolved (mg/L)		38.4	35.6	<0.020	
	Chromium (Cr)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	
	Cobalt (Co)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	
	Copper (Cu)-Dissolved (mg/L)		0.00021	0.00022	<0.00020	
	Iron (Fe)-Dissolved (mg/L)		0.035	0.058	<0.010	
	Lead (Pb)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	
	Lithium (Li)-Dissolved (mg/L)		0.00605	0.00607	<0.00050	
	Magnesium (Mg)-Dissolved (mg/L)		8.17	6.80	<0.0050	
	Manganese (Mn)-Dissolved (mg/L)		0.0230	0.0230	<0.000050	
	Molybdenum (Mo)-Dissolved (mg/L)		0.000797	0.000773	<0.000050	
	Nickel (Ni)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	
	Phosphorus (P)-Dissolved (mg/L)		<0.30	<0.30	<0.30	
	Potassium (K)-Dissolved (mg/L)		0.870	0.792	<0.050	

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	Description	Sampled Date	Sampled Time	Client ID	L1409501-1	L1409501-2	L1409501-3	L1409501-4	L1409501-5											
	Surface Water	07-JAN-14	13:45	X14	Surface Water	07-JAN-14	14:02	X14-R	Surface Water	07-JAN-14	14:16	X10	Surface Water	07-JAN-14	14:44	X3A	Surface Water	07-JAN-14	14:58	XZ
Grouping	Analyte																			
WATER																				
Dissolved Metals	Selenium (Se)-Dissolved (mg/L)	0.00041	0.00039	0.00039	0.00034	0.00045														
	Silicon (Si)-Dissolved (mg/L)	6.02	5.85	5.73	5.61	6.12														
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010														
	Sodium (Na)-Dissolved (mg/L)	5.72	5.70	2.92	2.85	3.02														
	Strontium (Sr)-Dissolved (mg/L)	0.306	0.303	0.193	0.187	0.175														
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010														
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010														
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010														
	Uranium (U)-Dissolved (mg/L)	0.00290	0.00292	0.00234	0.00233	0.00220														
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010														
	Zinc (Zn)-Dissolved (mg/L)	0.325	0.327	0.393	0.463	0.682														
	Zirconium (Zr)-Dissolved (mg/L)	<0.00080	<0.00080	<0.00080	<0.00080	<0.00080														

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	Description	Sampled Date	Sampled Time	Client ID	L1409501-6	L1409501-7	L1409501-8	L1409501-9	L1409501-10
					Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
		07-JAN-14	15:06	NF2-A	07-JAN-14	07-JAN-14	07-JAN-14	07-JAN-14	07-JAN-14
					15:06	15:15	15:00	15:44	16:03
					NF2-A	NF2-B	NF2	NF1	R10
Grouping	Analyte								
WATER									
Dissolved Metals	Selenium (Se)-Dissolved (mg/L)	0.00044	0.00044	0.00041	0.00056	0.00045			
	Silicon (Si)-Dissolved (mg/L)	6.11	5.89	5.81	8.00	5.78			
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010			
	Sodium (Na)-Dissolved (mg/L)	3.44	2.80	2.94	3.82	2.72			
	Strontium (Sr)-Dissolved (mg/L)	0.183	0.156	0.171	0.213	0.163			
	Thallium (Tl)-Dissolved (mg/L)	0.000010	<0.000010	<0.000010	<0.000010	<0.000010			
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010			
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010			
	Uranium (U)-Dissolved (mg/L)	0.00221	0.00205	0.00215	0.00265	0.00211			
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010			
	Zinc (Zn)-Dissolved (mg/L)	5.98	0.0139	1.32	0.0235	0.0094			
	Zirconium (Zr)-Dissolved (mg/L)	<0.00080	<0.00080	<0.00080	<0.00080	<0.00080			

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1409501-11 Surface Water 07-JAN-14 16:15 R9	L1409501-12 Surface Water 07-JAN-14 16:27 R8	L1409501-13 Surface Water 07-JAN-14 16:33 FIELD BLANK	L1409501-14 Surface Water 08-JAN-14 14:38 TRAVEL BLANK
Grouping	Analyte				
WATER					
Dissolved Metals	Selenium (Se)-Dissolved (mg/L)	0.00044	0.00044	<0.00010	
	Silicon (Si)-Dissolved (mg/L)	5.87	5.90	<0.050	
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	
	Sodium (Na)-Dissolved (mg/L)	2.74	2.71	<0.050	
	Strontium (Sr)-Dissolved (mg/L)	0.162	0.151	<0.00020	
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	
	Uranium (U)-Dissolved (mg/L)	0.00214	0.00185	<0.000010	
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	
	Zinc (Zn)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	
	Zirconium (Zr)-Dissolved (mg/L)	<0.00080	<0.00080	<0.00080	

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Sulfate (SO4)	MS-B	L1409501-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9

Qualifiers for Individual Parameters Listed:

Qualifier	Description
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	EPA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
ANIONS-CL-IC-WR	Water	Chloride by Ion Chromatography	EPA 300.1
This analysis is carried out using procedures adapted from EPA Method 300.1, "Determination of Inorganic Anions by Ion Chromatography", Revision 1.0, April 1999 and from "Determination of Inorganic Anions in Environmental Waters Using a Hydroxide-Selective Column", Application Note 154 v.19, Dionex 2003.			
ANIONS-F-IC-WR	Water	Fluoride by Ion Chromatography	EPA 300.1
This analysis is carried out using procedures adapted from EPA Method 300.1, "Determination of Inorganic Anions by Ion Chromatography", Revision 1.0, April 1999 and from "Determination of Inorganic Anions in Environmental Waters Using a Hydroxide-Selective Column", Application Note 154 v.19, Dionex 2003.			
ANIONS-NO2-IC-WR	Water	Nitrite Nitrogen by Ion Chromatography	EPA 300.1
This analysis is carried out using procedures adapted from EPA Method 300.1, "Determination of Inorganic Anions by Ion Chromatography", Revision 1.0, April 1999 and from "Determination of Inorganic Anions in Environmental Waters Using a Hydroxide-Selective Column", Application Note 154 v.19, Dionex 2003. Nitrate is detected by UV absorbance.			
ANIONS-NO3-IC-WR	Water	Nitrate Nitrogen by Ion Chromatography	EPA 300.1
This analysis is carried out using procedures adapted from EPA Method 300.1, "Determination of Inorganic Anions by Ion Chromatography", Revision 1.0, April 1999 and from "Determination of Inorganic Anions in Environmental Waters Using a Hydroxide-Selective Column", Application Note 154 v.19, Dionex 2003. Nitrate is detected by UV absorbance.			
ANIONS-SO4-IC-WR	Water	Sulphate by Ion Chromatography	EPA 300.1
This analysis is carried out using procedures adapted from EPA Method 300.1, "Determination of Inorganic Anions by Ion Chromatography", Revision 1.0, April 1999 and from "Determination of Inorganic Anions in Environmental Waters Using a Hydroxide-Selective Column", Application Note 154 v.19, Dionex 2003.			
CARBONS-DOC-VA	Water	Dissolved organic carbon by combustion	APHA 5310 TOTAL ORGANIC CARBON (TOC)
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)". Dissolved carbon (DOC) fractions are determined by filtering the sample through a 0.45 micron membrane filter prior to analysis.			
CARBONS-TOC-VA	Water	Total organic carbon by combustion	APHA 5310 TOTAL ORGANIC CARBON (TOC)
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)".			
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO3 equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.			
IONBALANCE-VA	Water	Ion Balance Calculation	APHA 1030E
Cation Sum, Anion Sum, and Ion Balance (as % difference) are calculated based on guidance from APHA Standard Methods (1030E Checking Correctness of Analysis). Because all aqueous solutions are electrically neutral, the calculated ion balance (% difference of cations minus anions) should be near-zero.			
Cation and Anion Sums are the total meq/L concentration of major cations and anions. Dissolved species are used where available. Minor ions are included where data is present. Ion Balance is calculated as:			
Ion Balance (%) = [Cation Sum-Anion Sum] / [Cation Sum+Anion Sum]			
MET-D-CCMS-VA	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030 B&E / EPA SW-846 6020A
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using hotblock, or filtration (APHA 3030B&E). Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A).			

Reference Information

MET-T-CCMS-VA	Water	Total Metals in Water by CRC ICPMS	APHA 3030 B&E / EPA SW-846 6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using hotblock, or filtration (APHA 3030B&E). Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A).</p>			
NH3-F-VA	Water	Ammonia in Water by Fluorescence	J. ENVIRON. MONIT., 2005, 7, 37-42, RSC
<p>This analysis is carried out, on sulfuric acid preserved samples, using procedures modified from J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society of Chemistry, "Flow-injection analysis with fluorescence detection for the determination of trace levels of ammonium in seawater", Roslyn J. Weston et al.</p>			
P-T-COL-VA	Water	Total P in Water by Colour	APHA 4500-P Phosphorous
<p>This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorous". Total Phosphorous is determined colourimetrically after persulphate digestion of the sample.</p>			
PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H "pH Value"
<p>This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode</p> <p>It is recommended that this analysis be conducted in the field.</p>			
PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H pH Value
<p>This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode</p> <p>It is recommended that this analysis be conducted in the field.</p>			
TDS-CALC-VA	Water	TDS (Calculated)	APHA 1030E (20TH EDITION)
<p>This analysis is carried out using procedures adapted from APHA 1030E "Checking Correctness of Analyses".</p>			
TSS-LOW-WR	Water	Total Suspended Solids by Grav. (1 mg/L)	APHA 2540 D
<p>This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Suspended Solids are determined by filtering a sample through a glass fibre filter and drying the filter at 104 degrees celsius.</p>			
ZR-D-MS-VA	Water	Dissolved Zr in Water by ICPMS	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
ZR-T-MS-VA	Water	Total Zr in Water by ICPMS	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WR	ALS ENVIRONMENTAL - WHITEHORSE, YUKON, CANADA
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

1	2
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Reference Information

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

mg/kg - milligrams per kilogram based on dry weight of sample.

mg/kg wwt - milligrams per kilogram based on wet weight of sample.

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.

mg/L - milligrams per litre.

< - Less than.

D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Report To		Report Format / Distribution		Service Requested (Rush for routine analysis subject to availability)																																																																																																																																																								
Company: EDI		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Other <input checked="" type="checkbox"/> PDF <input type="checkbox"/> Excel <input type="checkbox"/> Digital <input type="checkbox"/> Fax		<input type="checkbox"/> Regular (Standard Turnaround Times - Business Days) <input checked="" type="checkbox"/> Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT <input type="checkbox"/> Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT <input type="checkbox"/> Same Day or Weekend Emergency - Contact ALS to Confirm TAT																																																																																																																																																								
Contact: Meighan Kearns		Email 1: mkearns@edynamics.com		Analysis Request Please indicate below Filtered, Preserved or both (F, P, F/P)																																																																																																																																																								
Address: 2195 - 2nd Avenue		Email 2: adrienne.turcotte@gov.yk.ca																																																																																																																																																										
Whitehorse, YT Y1A 3T8		Email 3:																																																																																																																																																										
Phone: 867-393-4882		Fax: 867-393-4882		Client / Project Information Job #: 13-Y-0452 PO / AFE: LSD: Quote #: Q38556 ALS Scan 5. Contact:																																																																																																																																																								
Invoice To Same as Report? <input type="checkbox"/> Yes <input type="checkbox"/> No Hardcopy of Invoice with Report? <input type="checkbox"/> Yes <input type="checkbox"/> No		Company: Contact: Address: Phone: Fax:		Lab Work Order # (lab use only) ALS Scan 5. Contact:																																																																																																																																																								
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Use Faro Equis Format to report

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab. Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

SHIPMENT RELEASE (client use)		SHIPMENT RECEPTION (lab use only)		SHIPMENT VERIFICATION (lab use only)	
Released by:	Date (dd-mm-yy): 07-Sep-14	Time (hh:mm): 15:40	Received by:	Date: 08-Sep-13	Time: 2:38
Temperature: 10.09 °C	Verified by:	Date:	Time:	Observations: Yes / No ? If Yes add SIF	

GENF 18.01 Front



ALS Environmental

Chain of Custody / Analytical Request Form
Canada Toll Free: 1 800 668 9878
www.alsglobal.com

COC # _____
Page 1 of 1

Report To: Company: EDI
Contact: Melghan Kearns
Address: 2195 - 2nd Avenue
 Whitehorse, YT Y1A 3T8
Phone: 867-393-4882 **Fax:** _____
Invoice To: Same as Report? Yes No
Hardcopy of Invoice with Report? Yes No
Company: _____
Contact: _____
Address: _____
Phone: _____ **Fax:** _____
Quote #: Q39556
ALS Contact: _____
Sample Identification: (This description will appear on the report)

Sample	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	Analyses Requested	Number of Containers
ME1	07-01-14	15:44	Surface Water	ALK-COL-VA, P-T-COL-VA	5
R10		16:03	Surface Water	ANIONS-ALL-IC-WR	5
R9		16:15	Surface Water	CARBONS-DOC-VA	5
R00		16:27	Surface Water	CARBONS-TOC-VA, NH3-F-V	5
FIELD BLANK		16:33	Surface Water	EC-MAN-WR, PH-MAN-WR	5
			Surface Water	MET-D-CCMS-VA, ZR-D-MS-	5
			Surface Water	MET-T-CCMS-VA, ZR-T-MS-	5
			Surface Water	IONBALANCE-VA	5
			Surface Water	TDS-CALC-VA	5
			Surface Water	TSS-LOW-WR	5
			Surface Water	HARDNESS-CALC-VA	5
			Surface Water		5

Barcode: L1409501-COFC

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/LAB Tier 1 - Natural, etc) / Hazardous Details

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SHIPMENT RELEASE (Client Use): Released by: _____ Date (dd-mm-yy): 08 JAN 14 Time (hh:mm): 14:18

SHIPMENT RECEPTION (Lab Use Only): Received by: _____ Date: _____ Time: _____ Temperature: 0C

SHIPMENT VERIFICATION (Lab Use Only): Verified by: _____ Date: _____ Time: _____ Observations: Yes / No? _____ If Yes add SIF _____