



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

Date Received: 19-MAR-14  
Report Date: 24-MAR-14 17:46 (MT)  
Version: FINAL

Client Phone: 867-393-4882

## Certificate of Analysis

**Lab Work Order #:** L1433930  
**Project P.O. #:** NOT SUBMITTED  
**Job Reference:** 13-Y-0452  
**C of C Numbers:** 1, 2  
**Legal Site Desc:**

Can Dang  
Senior Account Manager

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ADDRESS: 8081 Lougheed Hwy, Suite 100, Burnaby, BC V5A 1W9 Canada | Phone: +1 604 253 4188 | Fax: +1 604 253 6700  
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## ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1433930-1 Grab 18-MAR-14 11:30 NF2	L1433930-2 Grab 18-MAR-14 12:31 R10	L1433930-3 Grab 18-MAR-14 11:00 X2	L1433930-4 Grab 18-MAR-14 10:00 X10	L1433930-5 Grab 18-MAR-14 10:35 X3A
Grouping	Analyte					
<b>WATER</b>						
<b>Physical Tests</b>	Conductivity (uS/cm)	330	304	344	364	354
	Hardness (as CaCO3) (mg/L)	165	149	175	176	170
	pH (pH)	7.44	7.68	7.44	7.60	7.51
	Total Suspended Solids (mg/L)	<1.0	<1.0	<1.0	<1.0	<1.0
	Total Dissolved Solids (mg/L)	192	168	200	205	197
<b>Anions and Nutrients</b>	Alkalinity, Total (as CaCO3) (mg/L)	150	141	146	158	150
	Ammonia, Total (as N) (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Chloride (Cl) (mg/L)	<0.50	<0.50	<0.50	<0.50	<0.50
	Fluoride (F) (mg/L)	0.190	0.174	0.192	0.181	0.181
	Nitrate (as N) (mg/L)	0.293	0.282	0.290	0.292	0.296
	Nitrite (as N) (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Phosphorus (P)-Total (mg/L)	0.0034	0.0049	0.0033	0.0025	0.0032
	Sulfate (SO4) (mg/L)	34.9	22.2	41.3	40.4	38.5
	Anion Sum (meq/L)	3.76	3.31	3.82	4.02	3.83
	Cation Sum (meq/L)	3.52	3.16	3.73	3.73	3.61
	Cation - Anion Balance (%)	-3.2	-2.3	-1.1	-3.8	-3.0
<b>Organic / Inorganic Carbon</b>	Dissolved Organic Carbon (mg/L)	1.22	1.29	1.33	1.59	1.55
	Total Organic Carbon (mg/L)	1.24	1.27	1.40	1.53	1.55
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)	0.0247	0.0119	0.0162	0.0088	0.0101
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Total (mg/L)	0.00049	0.00053	0.00047	0.00025	0.00038
	Barium (Ba)-Total (mg/L)	0.0770	0.0755	0.0783	0.0773	0.0764
	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)	0.000646	0.000017	0.000636	0.000324	0.000479
	Calcium (Ca)-Total (mg/L)	46.8	46.0	49.2	48.3	47.7
	Chromium (Cr)-Total (mg/L)	0.00098	0.00013	0.00011	0.00011	0.00014
	Cobalt (Co)-Total (mg/L)	0.00438	<0.00010	0.00409	0.00104	0.00280
	Copper (Cu)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Iron (Fe)-Total (mg/L)	0.238	0.129	0.322	0.130	0.168
	Lead (Pb)-Total (mg/L)	0.000557	0.000064	0.000450	0.000209	0.000269
	Lithium (Li)-Total (mg/L)	0.00940	0.00878	0.00998	0.00872	0.00905
	Magnesium (Mg)-Total (mg/L)	11.8	9.84	12.8	13.4	13.2
	Manganese (Mn)-Total (mg/L)	0.263	0.0238	0.296	0.109	0.221
	Molybdenum (Mo)-Total (mg/L)	0.000902	0.000941	0.000932	0.000792	0.000751

\* 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	L1433930-6 Grab 18-MAR-14 09:40 X14	L1433930-7 Grab 18-MAR-14 09:00 R3	L1433930-8 Grab 18-MAR-14 09:50 X14-R	L1433930-9 Grab 18-MAR-14 11:15 NF2-B	L1433930-10 Grab 18-MAR-14 12:15 NF1
Grouping	Analyte					
<b>WATER</b>						
<b>Physical Tests</b>	Conductivity (uS/cm)	846	690	867	314	297
	Hardness (as CaCO3) (mg/L)	459	355	451	144	146
	pH (pH)	7.55	7.62	7.50	7.49	7.60
	Total Suspended Solids (mg/L)	2.0	<1.0	2.0	3.4	<1.0
	Total Dissolved Solids (mg/L)	590	456	625	171	168
<b>Anions and Nutrients</b>	Alkalinity, Total (as CaCO3) (mg/L)	232	181	211	143	141
	Ammonia, Total (as N) (mg/L)	0.122	0.0544	0.121	<0.0050	<0.0050
	Chloride (Cl) (mg/L)	<0.50	<0.50	<2.5 <sup>DLA</sup>	<0.50	<0.50
	Fluoride (F) (mg/L)	0.141	0.131	0.20	0.178	0.178
	Nitrate (as N) (mg/L)	0.197	0.241	0.224	0.305	0.300
	Nitrite (as N) (mg/L)	<0.0010	<0.0010	<0.0050 <sup>DLA</sup>	<0.0010	<0.0010
	Phosphorus (P)-Total (mg/L)	<0.0020	<0.0020	<0.0020	0.0061	0.0046
	Sulfate (SO4) (mg/L)	268	208	317	26.1	23.2
	Anion Sum (meq/L)	10.2	7.96	10.8	3.44	3.33
	Cation Sum (meq/L)	9.90	7.53	9.73	3.07	3.11
	Cation - Anion Balance (%)	-1.6	-2.8	-5.4	-5.6	-3.4
<b>Organic / Inorganic Carbon</b>	Dissolved Organic Carbon (mg/L)	1.42	1.29	1.43	1.32	1.69
	Total Organic Carbon (mg/L)	1.52	1.49	1.44	1.44	1.69
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)	0.0145	0.0043	0.0134	0.0172	0.0084
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Total (mg/L)	0.00041	0.00020	0.00039	0.00046	0.00052
	Barium (Ba)-Total (mg/L)	0.0717	0.0802	0.0711	0.0758	0.0774
	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)	0.000316	0.000134	0.000310	0.000173	0.000019
	Calcium (Ca)-Total (mg/L)	133	90.7	129	42.0	36.9
	Chromium (Cr)-Total (mg/L)	0.00010	0.00010	0.00011	<0.00010	0.00014
	Cobalt (Co)-Total (mg/L)	0.00472	0.00182	0.00470	0.00110	0.00023
	Copper (Cu)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Iron (Fe)-Total (mg/L)	0.885	0.160	0.865	0.148	0.150
	Lead (Pb)-Total (mg/L)	0.000180	0.000108	0.000170	0.000363	0.000252
	Lithium (Li)-Total (mg/L)	0.0107	0.00641	0.0109	0.00950	0.00864
	Magnesium (Mg)-Total (mg/L)	32.6	24.1	33.1	10.3	10.2
	Manganese (Mn)-Total (mg/L)	6.03	2.45	5.86	0.0714	0.0468
	Molybdenum (Mo)-Total (mg/L)	0.000851	0.000456	0.000789	0.000840	0.000768

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## ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1433930-11 Grab 18-MAR-14 08:15 FIELD BLANK	L1433930-12 Grab 18-MAR-14 12:55 R8	L1433930-13 Grab 18-MAR-14 12:40 R9	L1433930-14 Grab 19-MAR-14 10:20 TRAVEL BLANK
Grouping	Analyte				
<b>WATER</b>					
<b>Physical Tests</b>	Conductivity (uS/cm)	<2.0	273	301	<2.0
	Hardness (as CaCO3) (mg/L)	<0.50	125	137	<0.50
	pH (pH)	5.82	7.81	7.85	5.81
	Total Suspended Solids (mg/L)	<1.0	<1.0	<1.0	<1.0
	Total Dissolved Solids (mg/L)	<1.0	145	162	<1.0
<b>Anions and Nutrients</b>	Alkalinity, Total (as CaCO3) (mg/L)	<2.0	140	140	<2.0
	Ammonia, Total (as N) (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050
	Chloride (Cl) (mg/L)	<0.50	<0.50	<0.50	<0.50
	Fluoride (F) (mg/L)	<0.020	0.172	0.174	<0.020
	Nitrate (as N) (mg/L)	<0.0050	0.182	0.282	<0.0050
	Nitrite (as N) (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010
	Phosphorus (P)-Total (mg/L)	<0.0020	0.0049	0.0049	<0.0020
	Sulfate (SO4) (mg/L)	<0.50	9.76	21.7	<0.50
	Anion Sum (meq/L)	<0.10	3.02	3.28	<0.10
	Cation Sum (meq/L)	<0.10	2.67	2.90	<0.10
	Cation - Anion Balance (%)	0.0	-6.2	-6.1	0.0
<b>Organic / Inorganic Carbon</b>	Dissolved Organic Carbon (mg/L)	<0.50	1.22	1.22	
	Total Organic Carbon (mg/L)	<0.50	1.27	1.37	<0.50
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)	<0.0030	0.0066	0.0149	<0.0030
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Total (mg/L)	<0.00010	0.00052	0.00053	<0.00010
	Barium (Ba)-Total (mg/L)	<0.000050	0.0758	0.0753	<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)	<0.020	38.6	40.0	<0.020
	Chromium (Cr)-Total (mg/L)	<0.00010	<0.00010	<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)	<0.010	0.120	0.133	<0.010
	Lead (Pb)-Total (mg/L)	<0.000050	<0.000050	0.000080	<0.000050
	Lithium (Li)-Total (mg/L)	<0.00050	0.00964	0.00960	<0.00050
	Magnesium (Mg)-Total (mg/L)	<0.0050	7.95	9.59	<0.0050
	Manganese (Mn)-Total (mg/L)	<0.000050	0.0179	0.0200	<0.000050
	Molybdenum (Mo)-Total (mg/L)	<0.000050	0.000867	0.000835	<0.000050

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## ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1433930-1	L1433930-2	L1433930-3	L1433930-4	L1433930-5
		Description	Grab	Grab	Grab	Grab	Grab
		Sampled Date	18-MAR-14	18-MAR-14	18-MAR-14	18-MAR-14	18-MAR-14
		Sampled Time	11:30	12:31	11:00	10:00	10:35
		Client ID	NF2	R10	X2	X10	X3A
Grouping	Analyte						
<b>WATER</b>							
<b>Total Metals</b>	Nickel (Ni)-Total (mg/L)		0.00694	<0.00050	0.00658	0.00489	0.00530
	Phosphorus (P)-Total (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Total (mg/L)		1.18	1.09	1.22	1.26	1.30
	Selenium (Se)-Total (mg/L)		0.00045	0.00045	0.00046	0.00045	0.00045
	Silicon (Si)-Total (mg/L)		6.04	5.96	6.32	5.86	5.82
	Silver (Ag)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)		3.49	3.32	3.57	3.57	3.64
	Strontium (Sr)-Total (mg/L)		0.205	0.195	0.217	0.221	0.215
	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)		0.00297	0.00293	0.00306	0.00297	0.00288
	Vanadium (V)-Total (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Total (mg/L)		1.03	0.0094	1.01	0.654	0.805
	Zirconium (Zr)-Total (mg/L)		<0.00080	<0.00080	<0.00080	<0.00080	<0.00080
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location		FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)		0.0044	0.0014	0.0034	0.0017	0.0025
	Antimony (Sb)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Dissolved (mg/L)		0.00031	0.00037	0.00020	0.00016	0.00019
	Barium (Ba)-Dissolved (mg/L)		0.0775	0.0756	0.0764	0.0779	0.0757
	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)		0.000642	0.000015	0.000605	0.000319	0.000459
	Calcium (Ca)-Dissolved (mg/L)		46.3	44.9	49.5	48.2	46.8
	Chromium (Cr)-Dissolved (mg/L)		<0.00010	<0.00010	0.00011	<0.00010	<0.00010
	Cobalt (Co)-Dissolved (mg/L)		0.00430	<0.00010	0.00393	0.00103	0.00262
	Copper (Cu)-Dissolved (mg/L)		0.00028	0.00027	0.00026	0.00205 <sup>DTC</sup>	0.00029
	Iron (Fe)-Dissolved (mg/L)		0.099	0.025	0.084	0.014	0.021
	Lead (Pb)-Dissolved (mg/L)		0.000063	<0.000050	0.000051	<0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)		0.00886	0.00841	0.00982	0.00859	0.00879
	Magnesium (Mg)-Dissolved (mg/L)		11.9	9.07	12.5	13.5	12.8
	Manganese (Mn)-Dissolved (mg/L)		0.258	0.0208	0.286	0.108	0.210
	Molybdenum (Mo)-Dissolved (mg/L)		0.000843	0.000909	0.000875	0.000660	0.000679
	Nickel (Ni)-Dissolved (mg/L)		0.00652	<0.00050	0.00647	0.00495	0.00519
	Phosphorus (P)-Dissolved (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)		1.18	1.08	1.21	1.26	1.22

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

## ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1433930-6	L1433930-7	L1433930-8	L1433930-9	L1433930-10
		Description	Grab	Grab	Grab	Grab	Grab
		Sampled Date	18-MAR-14	18-MAR-14	18-MAR-14	18-MAR-14	18-MAR-14
		Sampled Time	09:40	09:00	09:50	11:15	12:15
		Client ID	X14	R3	X14-R	NF2-B	NF1
Grouping	Analyte						
<b>WATER</b>							
<b>Total Metals</b>	Nickel (Ni)-Total (mg/L)		0.0122	0.00569	0.0120	0.00196	0.00070
	Phosphorus (P)-Total (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Total (mg/L)		2.30	1.83	2.26	1.09	1.13
	Selenium (Se)-Total (mg/L)		0.00043	0.00043	0.00044	0.00044	0.00045
	Silicon (Si)-Total (mg/L)		6.45	5.75	6.57	6.10	6.09
	Silver (Ag)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)		9.24	6.62	9.36	3.51	3.58
	Strontium (Sr)-Total (mg/L)		0.422	0.289	0.413	0.194	0.164
	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)		0.00370	0.00265	0.00369	0.00266	0.00253
	Vanadium (V)-Total (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Total (mg/L)		0.432	0.191	0.430	0.257	0.0190
	Zirconium (Zr)-Total (mg/L)		<0.00080	<0.00080	<0.00080	<0.00080	<0.00080
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location		FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)		0.0021	<0.0010	0.0019	0.0021	0.0015
	Antimony (Sb)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Dissolved (mg/L)		0.00028	0.00013	0.00030	0.00029	0.00033
	Barium (Ba)-Dissolved (mg/L)		0.0705	0.0810	0.0700	0.0759	0.0753
	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)		0.000295	0.000136	0.000308	0.000170	0.000019
	Calcium (Ca)-Dissolved (mg/L)		130	102	129	40.8	41.9
	Chromium (Cr)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Cobalt (Co)-Dissolved (mg/L)		0.00461	0.00176	0.00462	0.00105	0.00023
	Copper (Cu)-Dissolved (mg/L)		0.00026	0.00032	0.00027	0.00025	0.00027
	Iron (Fe)-Dissolved (mg/L)		0.712	<0.010	0.715	0.032	0.024
	Lead (Pb)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)		0.0104	0.00699	0.0104	0.00950	0.00975
	Magnesium (Mg)-Dissolved (mg/L)		32.6	24.5	31.6	10.3	10.1
	Manganese (Mn)-Dissolved (mg/L)		5.83	2.45	5.93	0.0669	0.0458
	Molybdenum (Mo)-Dissolved (mg/L)		0.000694	0.000487	0.000684	0.000745	0.000790
	Nickel (Ni)-Dissolved (mg/L)		0.0118	0.00543	0.0119	0.00173	0.00052
	Phosphorus (P)-Dissolved (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)		2.25	1.81	2.22	1.07	1.09

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

# ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1433930-11	L1433930-12	L1433930-13	L1433930-14
		Description	Grab	Grab	Grab	Grab
		Sampled Date	18-MAR-14	18-MAR-14	18-MAR-14	19-MAR-14
		Sampled Time	08:15	12:55	12:40	10:20
		Client ID	FIELD BLANK	R8	R9	TRAVEL BLANK
Grouping	Analyte					
<b>WATER</b>						
<b>Total Metals</b>	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)		<0.050	0.970	1.05	<0.050
	Selenium (Se)-Total (mg/L)		<0.00010	0.00044	0.00045	<0.00010
	Silicon (Si)-Total (mg/L)		<0.050	5.91	5.91	<0.050
	Silver (Ag)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)		<0.050	3.33	3.44	<0.050
	Strontium (Sr)-Total (mg/L)		<0.00020	0.169	0.182	<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)		<0.000010	0.00241	0.00267	<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
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location		FIELD	FIELD	FIELD	
	Aluminum (Al)-Dissolved (mg/L)		<0.0010	0.0013	0.0016	
	Antimony (Sb)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	
	Arsenic (As)-Dissolved (mg/L)		<0.00010	0.00038	0.00038	
	Barium (Ba)-Dissolved (mg/L)		<0.000050	0.0749	0.0739	
	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)		<0.020	37.4	39.3	
	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)		<0.00020	<0.00020	0.00020	
	Iron (Fe)-Dissolved (mg/L)		<0.010	0.023	0.023	
	Lead (Pb)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	
	Lithium (Li)-Dissolved (mg/L)		<0.00050	0.00930	0.00932	
	Magnesium (Mg)-Dissolved (mg/L)		<0.0050	7.75	9.37	
	Manganese (Mn)-Dissolved (mg/L)		<0.000050	0.0161	0.0176	
	Molybdenum (Mo)-Dissolved (mg/L)		<0.000050	0.000782	0.000771	
	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)		<0.050	0.947	1.04	

\* 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	L1433930-1 Grab 18-MAR-14 11:30 NF2	L1433930-2 Grab 18-MAR-14 12:31 R10	L1433930-3 Grab 18-MAR-14 11:00 X2	L1433930-4 Grab 18-MAR-14 10:00 X10	L1433930-5 Grab 18-MAR-14 10:35 X3A
Grouping	Analyte					
<b>WATER</b>						
<b>Dissolved Metals</b>	Selenium (Se)-Dissolved (mg/L)	0.00048	0.00049	0.00048	0.00049	0.00046
	Silicon (Si)-Dissolved (mg/L)	5.95	6.08	6.14	5.92	5.82
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	3.51	3.20	3.54	3.56	3.48
	Strontium (Sr)-Dissolved (mg/L)	0.193	0.183	0.215	0.216	0.206
	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)	0.00286	0.00278	0.00300	0.00291	0.00276
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	1.06	0.0091	1.00	0.678	0.794
	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	L1433930-6	L1433930-7	L1433930-8	L1433930-9	L1433930-10
Description	Grab	Grab	Grab	Grab	Grab	Grab
Sampled Date	18-MAR-14	18-MAR-14	18-MAR-14	18-MAR-14	18-MAR-14	18-MAR-14
Sampled Time	09:40	09:00	09:50	11:15	12:15	
Client ID	X14	R3	X14-R	NF2-B	NF1	
Grouping	Analyte					
<b>WATER</b>						
<b>Dissolved Metals</b>	Selenium (Se)-Dissolved (mg/L)	0.00047	0.00049	0.00048	0.00049	0.00047
	Silicon (Si)-Dissolved (mg/L)	6.34	5.73	6.36	6.12	5.99
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	9.02	6.54	8.89	3.44	3.55
	Strontium (Sr)-Dissolved (mg/L)	0.408	0.322	0.398	0.187	0.182
	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)	0.00354	0.00278	0.00345	0.00258	0.00259
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	0.432	0.190	0.428	0.260	0.0179
	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	L1433930-11 Grab 18-MAR-14 08:15 FIELD BLANK	L1433930-12 Grab 18-MAR-14 12:55 R8	L1433930-13 Grab 18-MAR-14 12:40 R9	L1433930-14 Grab 19-MAR-14 10:20 TRAVEL BLANK	
Grouping	Analyte				
<b>WATER</b>					
<b>Dissolved Metals</b>	Selenium (Se)-Dissolved (mg/L)	<0.00010	0.00048	0.00049	
	Silicon (Si)-Dissolved (mg/L)	<0.050	5.84	5.95	
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	
	Sodium (Na)-Dissolved (mg/L)	<0.050	3.25	3.36	
	Strontium (Sr)-Dissolved (mg/L)	<0.00020	0.163	0.180	
	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)	<0.000010	0.00236	0.00251	
	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 &amp; Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Duplicate	Arsenic (As)-Dissolved	DLA	L1433930-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Beryllium (Be)-Dissolved	DLA	L1433930-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Bismuth (Bi)-Dissolved	DLA	L1433930-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Boron (B)-Dissolved	DLA	L1433930-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Chromium (Cr)-Dissolved	DLA	L1433930-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Cobalt (Co)-Dissolved	DLA	L1433930-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Iron (Fe)-Dissolved	DLA	L1433930-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Phosphorus (P)-Dissolved	DLA	L1433930-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Silver (Ag)-Dissolved	DLA	L1433930-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Thallium (Tl)-Dissolved	DLA	L1433930-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Tin (Sn)-Dissolved	DLA	L1433930-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Titanium (Ti)-Dissolved	DLA	L1433930-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Vanadium (V)-Dissolved	DLA	L1433930-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Fluoride (F)	MS-B	L1433930-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Nitrate (as N)	MS-B	L1433930-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Nitrite (as N)	MS-B	L1433930-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Phosphorus (P)-Total	MS-B	L1433930-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Phosphorus (P)-Total	MS-B	L1433930-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Total Organic Carbon	MS-B	L1433930-10, -11, -12, -13, -14, -2, -4, -5, -6, -7, -8, -9

## Qualifiers for Individual Parameters Listed:

Qualifier	Description
DLA	Detection Limit adjusted for required dilution
DTC	Dissolved concentration exceeds total. Results were confirmed by re-analysis.
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**
<b>ALK-COL-VA</b>	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.			
<b>ANIONS-CL-IC-WR</b>	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.			
<b>ANIONS-F-IC-WR</b>	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.			
<b>ANIONS-NO2-IC-WR</b>	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.			
<b>ANIONS-NO3-IC-WR</b>	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.			
<b>ANIONS-SO4-IC-WR</b>	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.			
<b>CARBONS-DOC-VA</b>	Water	Dissolved organic carbon by combustion	APHA 5310 TOTAL ORGANIC CARBON (TOC)

## Reference Information

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-MAN-WR**      Water      Conductivity by Meter      APHA 2510 (B)

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using an 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 CaCO<sub>3</sub> 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).

**MET-T-CCMS-VA**      Water      Total 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).

**NH3-F-VA**      Water      Ammonia in Water by Fluorescence      J. ENVIRON. MONIT., 2005, 7, 37-42, RSC

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-T-COL-VA**      Water      Total P in Water by Colour      APHA 4500-P Phosphorous

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous is determined colourimetrically after persulphate digestion of the sample.

**PH-MAN-WR**      Water      pH by Meter      APHA 4500-H (B)

"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."

**TDS-CALC-VA**      Water      TDS (Calculated)      APHA 1030E (20TH EDITION)

This analysis is carried out using procedures adapted from APHA 1030E "Checking Correctness of Analyses".

**TSS-LOW-WR**      Water      Total Suspended Solids by Grav. (1 mg/L)      APHA 2540 D

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.

**ZR-D-MS-VA**      Water      Dissolved Zr in Water by ICPMS      EPA SW-846 3005A/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 either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

**ZR-T-MS-VA**      Water      Total Zr in Water by ICPMS      EPA SW-846 3005A/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 either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

## Reference Information

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:

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

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**Chain of Custody Numbers:**

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1	2
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**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.*



Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878



L1433930-COFC

COC Number: 14 - ~~1000~~

Page \_\_\_ of \_\_\_

www.alsglobal.com

Report Format:  PDF  EXCEL  EDD (DIGITAL)

Quality Control (QC) Report with Report  Yes  No

Select Distribution:  EMAIL  MAIL  FAX

Email 1 or Fax: mkearns@edydynamics.com

Email 2: gdfierme.turcotte@gov.yk.ca

Invoice Distribution:  EMAIL  MAIL  FAX

Select Invoice Distribution:  EMAIL  MAIL  FAX

Email 1 or Fax: sjenner@edydynamics.com

Email 2

Oil and Gas Required Fields (client use)

Approver ID: Cost Center:

GL Account: Rolling Code:

Activity Code: Location:

ALS Contact: Sampler: JM/BSR

ALS Samples* (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	Analysis Request	Number of Containers
NF2		18/03/14	11:30	Grab	ALK-COL-VA, P-T-COL-VA, IONBALANCE-V	5
R10		18 Mar 14	12:30	Grab	ANIONS-ALL-IC-WR, TDS-CALC-VA	5
X2		18 Mar 14	11:00	Grab	EC-MAN-WR, PH-MAN-WR	5
X10		18 Mar 14	10:00	Grab	TSS-LOW-WR	5
X3A		18 Mar 14	10:35	Grab	CARBONS-TOC-VA, NH3-F-VA	5
X14		18 Mar 14	09:40	Grab	CARBONS-DOC-VA	5
R3		18 Mar 14	09:00	Grab	MET-T-CCMS-VA, ZR-T-MS-VA	5
X14-c		18 Mar 14	07:50	Grab	MET-D-CCMS-VA, ZR-D-MS-VA	5
					HARDNESS-CALC-VA	

Drinking Water (DW) Samples (client use)

Are samples taken from a Regulated DW System?  Yes  No

Are samples for human drinking water use?  Yes  No

Released by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Special Instructions / Specify Criteria to add on report (client use)

Use CH2M\_EQUIS for EDD.

SHIPMENT RELEASE (client use)

INITIAL SHIPMENT/RECEPTION (lab use only)

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION. WHITE - LABORATORY COPY. YELLOW - CLIENT COPY. 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 SPECIFIED ON THE BACK PAGE OF THE WHITE - REPORT COPY.



# Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878



L1433930-COFC

COC Number: 14 -

Page \_\_\_ of \_\_\_

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<b>Report To</b>		<b>Report Format / Distribution</b>			<b>Select Service Level below (Rush Turnaround Time (TAT) is not available for all tests)</b>																	
Company: EDI		Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input checked="" type="checkbox"/> EDD (DIGITAL)			R <input type="checkbox"/> Regular (Standard TAT if received by 3 pm - business days)																	
Contact: Meighan Kearns		Quality Control (QC) Report with Report <input type="checkbox"/> Yes <input type="checkbox"/> No			P <input checked="" type="checkbox"/> Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT																	
Address: 2195 - 2nd Avenue		<input type="checkbox"/> Criteria on Report - provide details below if box checked			E <input type="checkbox"/> Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT																	
Whitehorse, YT Y1A 3T8		Select Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX			E2 <input type="checkbox"/> Same day or weekend emergency - contact ALS to confirm TAT and surcharge																	
Phone: 867-393-4882		Email 1 or Fax: mkearns@edynamics.com			Specify Date Required for E2, E or P:																	
		Email 2: adrienne.turcotte@gov.yk.ca			<b>Analysis Request</b>																	
<b>Invoice To</b> Same as Report To <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>Invoice Distribution</b>			Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below																	
Copy of Invoice with Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Select Invoice Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX																				
Company: EDI		Email 1 or Fax: sjenner@edynamics.com																				
Contact: S Jenner		Email 2:																				
<b>Project Information</b>		<b>Oil and Gas Required Fields (client use)</b>																				
ALS Quote #: Q38556		Approver ID:		Cost Center:																		
Job #: 13-Y-0452		GL Account:		Routing Code:																		
PO / AFE:		Activity Code:																				
LSD:		Location:																				
ALS Lab Work Order# (lab use only)		ALS Contact:		Sampler: JM/BSn																		
ALS Sample# (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)			Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	ALK-COL-VA-P-T-COL-VA-IONBALANCE-V	ANIONS-ALL-IC-WR, TDS-CALC-VA	EC-MAN-WR, PH-MAN-WR	TSS-LOW-WR	CARBONS-TOC-VA-NH3-F-VA	CARBONS-DOC-VA	MET-T-CGMS-VA-ZR-T-MS-VA	MET-D-CGMS-VA-ZR-D-MIS-VA	HARDNESS-CALC-VA							Number of Containers
	NED-B			10 Mar 14	11:15	GRAB	P	P	P	P	P	P	P	P	P							5
	NFI			18 Mar 14	12:15	GRAB	P	P	P	P	P	P	P	P	P							5
	Field Blank			18 Mar 14	08:15	GRAB	P	P	P	P	P	P	P	P	P							5
	RB			18 Mar 14	12:55	GRAB	P	P	P	P	P	P	P	P	P							5
	R9			18 Mar 14	12:40	GRAB	P	P	P	P	P	P	P	P	P							5
	Travel Blank																					
<b>Drinking Water (DW) Samples<sup>1</sup> (client use)</b>				<b>Special Instructions / Specify Criteria to add on report (client use)</b>																		
Are samples taken from a Regulated DW System? <input type="checkbox"/> Yes <input type="checkbox"/> No				Use CH2M_EQUIS for EDD.																		
Are samples for human drinking water use? <input type="checkbox"/> Yes <input type="checkbox"/> No																						
<b>SHIPMENT RELEASE (client use)</b>				<b>INITIAL SHIPMENT RECEPTION (lab use only)</b>				<b>SAMPLE CONDITION AS RECEIVED (lab use only)</b>														
Released by:		Date:	Time:	Received by:	Date:	Time:	Frozen <input type="checkbox"/>		SIF Observations: Yes <input type="checkbox"/> No <input type="checkbox"/>		Ice packs: Yes <input type="checkbox"/> No <input type="checkbox"/>		Custody seal intact: Yes <input type="checkbox"/> No <input type="checkbox"/>		Cooling initiated: <input type="checkbox"/>							
							INITIAL COOLER TEMPERATURES °C		FINAL COOLER TEMPERATURES °C													
							15		32													
Released by:				Date:	Time:	Received by:	Date:	Time:	Received by:		Date:	Time:										