



ENVIRONMENTAL DYNAMICS INC.
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Date Received: 16-APR-14
Report Date: 28-APR-14 18:17 (MT)
Version: FINAL

Client Phone: 867-393-4882

Certificate of Analysis

Lab Work Order #: L1443909
Project P.O. #: NOT SUBMITTED
Job Reference: 14-Y-0270
C of C Numbers: 1, 2
Legal Site Desc:

Can Dang
Senior Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1443909-1 GRAB 15-APR-14 10:05 NF2	L1443909-2 GRAB 15-APR-14 10:40 NF2-B	L1443909-3 GRAB 15-APR-14 08:00 FIELD BLANK	L1443909-4 GRAB 15-APR-14 10:00 TRIP BLANK	L1443909-5 GRAB 15-APR-14 08:35 R3
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	294	304	<2.0	<2.0	714
	Hardness (as CaCO3) (mg/L)	158	148	<0.50	<0.50	377
	pH (pH)	7.91	7.96	5.75	5.58	8.06
	Total Suspended Solids (mg/L)	<1.0	1.2	<1.0	<1.0	1.0
	Total Dissolved Solids (mg/L)	181	170	<1.0	<1.0	470
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	138	141	<2.0	<2.0	179
	Ammonia, Total (as N) (mg/L)	<0.0050	<0.0050	<0.0050	<0.010	0.0543
	Chloride (Cl) (mg/L)	<0.50	<0.50	<0.50	<0.50	<0.50
	Fluoride (F) (mg/L)	0.193	0.178	<0.020	<0.020	0.132
	Nitrate (as N) (mg/L)	0.281	0.281	<0.0050	<0.0050	0.235
	Nitrite (as N) (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	0.0012
	Phosphorus (P)-Total (mg/L)	0.0040 ^{PEHT}	0.0049 ^{PEHT}	<0.0020 ^{PEHT}	<0.0020 ^{PEHT}	<0.0020 ^{PEHT}
	Sulfate (SO4) (mg/L)	33.4	24.2	<0.50	<0.50	213
	Anion Sum (meq/L)	3.49	3.36	<0.10	<0.10	8.04
	Cation Sum (meq/L)	3.38	3.14	<0.10	<0.10	7.97
	Cation - Anion Balance (%)	-1.6	-3.4	0.0	0.0	-0.4
Organic / Inorganic Carbon	Dissolved Organic Carbon (mg/L)	1.26	1.19	<0.50		1.24
	Total Organic Carbon (mg/L)	1.22	1.24	<0.50	<0.50	1.21
Total Metals	Aluminum (Al)-Total (mg/L)	0.0194	0.0102	<0.0030	<0.0030	0.0089
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Total (mg/L)	0.00051	0.00044	<0.00010	<0.00010	0.00024
	Barium (Ba)-Total (mg/L)	0.0781	0.0772	<0.000050	<0.000050	0.0761
	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)	0.000659	0.000123	<0.000010	<0.000010	0.000139
	Calcium (Ca)-Total (mg/L)	44.2	44.8	<0.020	<0.020	106
	Chromium (Cr)-Total (mg/L)	0.00010	0.00011	<0.00010	<0.00010	0.00012
	Cobalt (Co)-Total (mg/L)	0.00420	0.00076	<0.00010	<0.00010	0.00195
	Copper (Cu)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Iron (Fe)-Total (mg/L)	0.196	0.105	<0.010	<0.010	0.214
	Lead (Pb)-Total (mg/L)	0.000303	0.000189	<0.000050	<0.000050	0.000100
	Lithium (Li)-Total (mg/L)	0.00869	0.00846	<0.00050	<0.00050	0.00674
	Magnesium (Mg)-Total (mg/L)	11.5	9.44	<0.0050	<0.0050	22.8
	Manganese (Mn)-Total (mg/L)	0.251	0.0550	<0.000050	<0.000050	2.67
	Molybdenum (Mo)-Total (mg/L)	0.000855	0.000910	<0.000050	<0.000050	0.000562

* 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	L1443909-6 GRAB 15-APR-14 09:00 X14	L1443909-7 GRAB 15-APR-14 09:25 X10	L1443909-8 GRAB 15-APR-14 09:50 X3A	L1443909-9 GRAB 15-APR-14 10:20 X2	L1443909-10 GRAB 15-APR-14 11:50 NF1
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	863	345	346	360	308
	Hardness (as CaCO3) (mg/L)	464	170	171	166	150
	pH (pH)	8.06	8.13	8.05	8.05	8.08
	Total Suspended Solids (mg/L)	<1.0	1.2	1.6	1.4	4.2
	Total Dissolved Solids (mg/L)	619	195	197	198	171
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	198	150	151	154	145
	Ammonia, Total (as N) (mg/L)	0.119	<0.0050	0.0071	0.0063	0.0059
	Chloride (Cl) (mg/L)	<2.5 ^{DLA}	<0.50	<0.50	<0.50	<0.50
	Fluoride (F) (mg/L)	0.19	0.176	0.185	0.188	0.183
	Nitrate (as N) (mg/L)	0.245	0.272	0.360	0.265	0.348
	Nitrite (as N) (mg/L)	<0.0050 ^{DLA}	<0.0010	<0.0010	<0.0010	<0.0010
	Phosphorus (P)-Total (mg/L)	<0.0020 ^{PEHT}	0.0036 ^{PEHT}	0.0032 ^{PEHT}	0.0023 ^{PEHT}	0.0053 ^{PEHT}
	Sulfate (SO4) (mg/L)	315	37.7	37.6	38.4	22.7
	Anion Sum (meq/L)	10.5	3.81	3.83	3.91	3.40
	Cation Sum (meq/L)	9.96	3.58	3.62	3.54	3.17
	Cation - Anion Balance (%)	-2.8	-3.0	-2.8	-5.0	-3.4
Organic / Inorganic Carbon	Dissolved Organic Carbon (mg/L)	1.46	1.27	1.31	1.11	1.15
	Total Organic Carbon (mg/L)	1.36	1.42	1.45	1.12	1.35
Total Metals	Aluminum (Al)-Total (mg/L)	0.0075	0.0068	0.0125	0.0164	0.0602
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010	0.00011	<0.00010	<0.00010
	Arsenic (As)-Total (mg/L)	0.00043	0.00028	0.00034	0.00042	0.00065
	Barium (Ba)-Total (mg/L)	0.0726	0.0807	0.0761	0.0761	0.0788
	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)	0.000292	0.000311	0.000432	0.000635	0.000024
	Calcium (Ca)-Total (mg/L)	137	49.9	48.8	47.7	44.1
	Chromium (Cr)-Total (mg/L)	<0.00010	<0.00010	0.00024	<0.00010	0.00041
	Cobalt (Co)-Total (mg/L)	0.00485	0.00091	0.00239	0.00399	0.00027
	Copper (Cu)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	0.00059
	Iron (Fe)-Total (mg/L)	0.807	0.095	0.155	0.281	0.260
	Lead (Pb)-Total (mg/L)	0.000117	0.000154	0.000320	0.000303	0.00439
	Lithium (Li)-Total (mg/L)	0.00896	0.00777	0.00825	0.00999	0.00876
	Magnesium (Mg)-Total (mg/L)	32.4	13.5	12.4	12.2	9.43
	Manganese (Mn)-Total (mg/L)	6.42	0.0946	0.201	0.285	0.0388
	Molybdenum (Mo)-Total (mg/L)	0.000757	0.000720	0.000792	0.000876	0.000883

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ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1443909-11 GRAB 15-APR-14 12:00 R10	L1443909-12 GRAB 15-APR-14 09:05 X14-R		
Grouping	Analyte				
WATER					
Physical Tests	Conductivity (uS/cm)	294	904		
	Hardness (as CaCO3) (mg/L)	150	465		
	pH (pH)	8.13	8.04		
	Total Suspended Solids (mg/L)	1.4	2.2		
	Total Dissolved Solids (mg/L)	167	621		
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	142	204		
	Ammonia, Total (as N) (mg/L)	<0.0050	0.120		
	Chloride (Cl) (mg/L)	<0.50	<2.5		DLA
	Fluoride (F) (mg/L)	0.174	0.20		
	Nitrate (as N) (mg/L)	0.284	0.243		
	Nitrite (as N) (mg/L)	<0.0010	<0.0050		DLA
	Phosphorus (P)-Total (mg/L)	0.0039	<0.0020		PEHT
	Sulfate (SO4) (mg/L)	21.4	311		
	Anion Sum (meq/L)	3.31	10.6		
	Cation Sum (meq/L)	3.17	10.0		
	Cation - Anion Balance (%)	-2.2	-2.8		
Organic / Inorganic Carbon	Dissolved Organic Carbon (mg/L)	1.05	1.31		
	Total Organic Carbon (mg/L)	1.18	1.34		
Total Metals	Aluminum (Al)-Total (mg/L)	0.0080	0.0078		
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010		
	Arsenic (As)-Total (mg/L)	0.00053	0.00036		
	Barium (Ba)-Total (mg/L)	0.0773	0.0681		
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00010		
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050		
	Boron (B)-Total (mg/L)	<0.010	<0.010		
	Cadmium (Cd)-Total (mg/L)	0.000015	0.000288		
	Calcium (Ca)-Total (mg/L)	42.6	142		
	Chromium (Cr)-Total (mg/L)	<0.00010	<0.00010		
	Cobalt (Co)-Total (mg/L)	<0.00010	0.00457		
	Copper (Cu)-Total (mg/L)	<0.00050	<0.00050		
	Iron (Fe)-Total (mg/L)	0.107	0.794		
	Lead (Pb)-Total (mg/L)	0.000166	0.000126		
	Lithium (Li)-Total (mg/L)	0.00857	0.00985		
	Magnesium (Mg)-Total (mg/L)	9.01	30.8		
	Manganese (Mn)-Total (mg/L)	0.0212	6.14		
	Molybdenum (Mo)-Total (mg/L)	0.000845	0.000791		

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ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1443909-1	L1443909-2	L1443909-3	L1443909-4	L1443909-5
		Description	GRAB	GRAB	GRAB	GRAB	GRAB
		Sampled Date	15-APR-14	15-APR-14	15-APR-14	15-APR-14	15-APR-14
		Sampled Time	10:05	10:40	08:00	10:00	08:35
		Client ID	NF2	NF2-B	FIELD BLANK	TRIP BLANK	R3
Grouping	Analyte						
WATER							
Total Metals	Nickel (Ni)-Total (mg/L)		0.00614	0.00134	<0.00050	<0.00050	0.00596
	Phosphorus (P)-Total (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Total (mg/L)		1.17	1.11	<0.050	<0.050	1.82
	Selenium (Se)-Total (mg/L)		0.00042	0.00043	<0.00010	<0.00010	0.00041
	Silicon (Si)-Total (mg/L)		6.32	6.26	<0.050	<0.050	5.85
	Silver (Ag)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)		3.48	3.33	<0.050	<0.050	6.31
	Strontium (Sr)-Total (mg/L)		0.195	0.197	<0.00020	<0.00020	0.344
	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)		0.00283	0.00278	<0.000010	<0.000010	0.00296
	Vanadium (V)-Total (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Total (mg/L)		0.992	0.173	<0.0030	<0.0030	0.201
	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)		0.0029	0.0017	<0.0010	<0.0010	<0.0010
	Antimony (Sb)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Dissolved (mg/L)		0.00030	0.00031	<0.00010	<0.00010	0.00014
	Barium (Ba)-Dissolved (mg/L)		0.0743	0.0765	<0.000050	<0.000050	0.0779
	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)		0.000625	0.000117	<0.000010	<0.000010	0.000129
	Calcium (Ca)-Dissolved (mg/L)		44.8	43.6	<0.020	<0.020	112
	Chromium (Cr)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Cobalt (Co)-Dissolved (mg/L)		0.00402	0.00074	<0.00010	<0.00010	0.00194
	Copper (Cu)-Dissolved (mg/L)		0.00022	0.00021	<0.00020	<0.00020	0.00027
	Iron (Fe)-Dissolved (mg/L)		0.090	0.028	<0.010	<0.010	<0.010
	Lead (Pb)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)		0.00892	0.00864	<0.00050	<0.00050	0.00705
	Magnesium (Mg)-Dissolved (mg/L)		11.2	9.56	<0.0050	<0.0050	23.5
	Manganese (Mn)-Dissolved (mg/L)		0.241	0.0524	<0.000050	<0.000050	2.71
	Molybdenum (Mo)-Dissolved (mg/L)		0.000853	0.000843	<0.000050	<0.000050	0.000530
	Nickel (Ni)-Dissolved (mg/L)		0.00575	0.00131	<0.00050	<0.00050	0.00583
	Phosphorus (P)-Dissolved (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)		1.12	1.11	<0.050	<0.050	1.86

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ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1443909-6	L1443909-7	L1443909-8	L1443909-9	L1443909-10
		Description	GRAB	GRAB	GRAB	GRAB	GRAB
		Sampled Date	15-APR-14	15-APR-14	15-APR-14	15-APR-14	15-APR-14
		Sampled Time	09:00	09:25	09:50	10:20	11:50
		Client ID	X14	X10	X3A	X2	NF1
Grouping	Analyte						
WATER							
Total Metals	Nickel (Ni)-Total (mg/L)		0.0123	0.00462	0.00471	0.00629	0.00062
	Phosphorus (P)-Total (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Total (mg/L)		2.33	1.38	1.32	1.24	1.17
	Selenium (Se)-Total (mg/L)		0.00037	0.00040	0.00042	0.00041	0.00041
	Silicon (Si)-Total (mg/L)		6.46	5.99	5.84	6.13	6.11
	Silver (Ag)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)		8.42	3.64	3.38	3.71	3.37
	Strontium (Sr)-Total (mg/L)		0.420	0.215	0.220	0.216	0.195
	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)		0.00389	0.00286	0.00287	0.00287	0.00281
	Vanadium (V)-Total (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Total (mg/L)		0.424	0.635	0.699	0.977	0.0396
	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)		0.0014	0.0015	0.0022	0.0030	0.0011
	Antimony (Sb)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Dissolved (mg/L)		0.00027	0.00016	0.00019	0.00021	0.00034
	Barium (Ba)-Dissolved (mg/L)		0.0694	0.0764	0.0763	0.0754	0.0766
	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)		0.000291	0.000269	0.000404	0.000596	0.000018
	Calcium (Ca)-Dissolved (mg/L)		135	47.8	47.7	46.3	44.5
	Chromium (Cr)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Cobalt (Co)-Dissolved (mg/L)		0.00465	0.00079	0.00230	0.00373	0.00022
	Copper (Cu)-Dissolved (mg/L)		0.00028	0.00024	0.00027	0.00020	0.00022
	Iron (Fe)-Dissolved (mg/L)		0.654	0.010	0.020	0.068	0.030
	Lead (Pb)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	0.000166
	Lithium (Li)-Dissolved (mg/L)		0.00960	0.00797	0.00839	0.00992	0.00896
	Magnesium (Mg)-Dissolved (mg/L)		31.0	12.3	12.6	12.1	9.37
	Manganese (Mn)-Dissolved (mg/L)		5.89	0.0832	0.196	0.273	0.0352
	Molybdenum (Mo)-Dissolved (mg/L)		0.000678	0.000677	0.000734	0.000803	0.000881
	Nickel (Ni)-Dissolved (mg/L)		0.0116	0.00409	0.00446	0.00603	<0.00050
	Phosphorus (P)-Dissolved (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)		2.26	1.22	1.27	1.20	1.14

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ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1443909-11 GRAB 15-APR-14 12:00 R10	L1443909-12 GRAB 15-APR-14 09:05 X14-R		
Grouping	Analyte				
WATER					
Total Metals	Nickel (Ni)-Total (mg/L)	<0.00050	0.0116		
	Phosphorus (P)-Total (mg/L)	<0.30	<0.30		
	Potassium (K)-Total (mg/L)	1.10	2.31		
	Selenium (Se)-Total (mg/L)	0.00048	0.00036		
	Silicon (Si)-Total (mg/L)	6.41	6.21		
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010		
	Sodium (Na)-Total (mg/L)	3.38	8.63		
	Strontium (Sr)-Total (mg/L)	0.193	0.427		
	Thallium (Tl)-Total (mg/L)	<0.000010	<0.000010		
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010		
	Titanium (Ti)-Total (mg/L)	<0.010	<0.010		
	Uranium (U)-Total (mg/L)	0.00275	0.00366		
	Vanadium (V)-Total (mg/L)	<0.0010	<0.0010		
	Zinc (Zn)-Total (mg/L)	0.0089	0.418		
	Zirconium (Zr)-Total (mg/L)	<0.00080	<0.00080		
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD		
	Aluminum (Al)-Dissolved (mg/L)	0.0013	0.0024		
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00010		
	Arsenic (As)-Dissolved (mg/L)	0.00040	0.00028		
	Barium (Ba)-Dissolved (mg/L)	0.0789	0.0706		
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00010		
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050		
	Boron (B)-Dissolved (mg/L)	<0.010	<0.010		
	Cadmium (Cd)-Dissolved (mg/L)	0.000015	0.000287		
	Calcium (Ca)-Dissolved (mg/L)	44.2	136		
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	<0.00010		
	Cobalt (Co)-Dissolved (mg/L)	<0.00010	0.00470		
	Copper (Cu)-Dissolved (mg/L)	<0.00020	0.00028		
	Iron (Fe)-Dissolved (mg/L)	0.026	0.638		
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050		
	Lithium (Li)-Dissolved (mg/L)	0.00815	0.00986		
	Magnesium (Mg)-Dissolved (mg/L)	9.59	30.4		
	Manganese (Mn)-Dissolved (mg/L)	0.0195	6.24		
	Molybdenum (Mo)-Dissolved (mg/L)	0.000844	0.000723		
	Nickel (Ni)-Dissolved (mg/L)	<0.00050	0.0119		
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30		
	Potassium (K)-Dissolved (mg/L)	1.09	2.31		

* 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	L1443909-1	L1443909-2	L1443909-3	L1443909-4	L1443909-5
					GRAB	GRAB	GRAB	GRAB	GRAB
		15-APR-14	10:05	NF2	15-APR-14	15-APR-14	15-APR-14	15-APR-14	15-APR-14
					10:05	10:40	08:00	10:00	08:35
					NF2	NF2-B	FIELD BLANK	TRIP BLANK	R3
Grouping	Analyte								
WATER									
Dissolved Metals	Selenium (Se)-Dissolved (mg/L)	0.00045	0.00044	<0.00010	0.00041				
	Silicon (Si)-Dissolved (mg/L)	6.03	6.04	<0.050	6.05				
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010				
	Sodium (Na)-Dissolved (mg/L)	3.36	3.30	<0.050	6.29				
	Strontium (Sr)-Dissolved (mg/L)	0.200	0.194	<0.00020	0.342				
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010				
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010				
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010				
	Uranium (U)-Dissolved (mg/L)	0.00269	0.00266	<0.000010	0.00298				
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010				
	Zinc (Zn)-Dissolved (mg/L)	0.991	0.178	<0.0010	0.204				
	Zirconium (Zr)-Dissolved (mg/L)	<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	L1443909-6 GRAB 15-APR-14 09:00 X14	L1443909-7 GRAB 15-APR-14 09:25 X10	L1443909-8 GRAB 15-APR-14 09:50 X3A	L1443909-9 GRAB 15-APR-14 10:20 X2	L1443909-10 GRAB 15-APR-14 11:50 NF1
Grouping	Analyte					
WATER						
Dissolved Metals	Selenium (Se)-Dissolved (mg/L)	0.00042	0.00042	0.00045	0.00044	0.00044
	Silicon (Si)-Dissolved (mg/L)	6.20	5.65	5.78	6.20	5.97
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	8.24	3.21	3.35	3.60	3.42
	Strontium (Sr)-Dissolved (mg/L)	0.395	0.207	0.211	0.208	0.196
	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)	0.00360	0.00266	0.00276	0.00276	0.00271
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	0.417	0.584	0.709	0.967	0.0264
	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	L1443909-11	L1443909-12		
	Description	GRAB	GRAB		
	Sampled Date	15-APR-14	15-APR-14		
	Sampled Time	12:00	09:05		
	Client ID	R10	X14-R		
Grouping	Analyte				
WATER					
Dissolved Metals	Selenium (Se)-Dissolved (mg/L)	0.00050	0.00037		
	Silicon (Si)-Dissolved (mg/L)	5.99	6.02		
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010		
	Sodium (Na)-Dissolved (mg/L)	3.24	8.52		
	Strontium (Sr)-Dissolved (mg/L)	0.194	0.410		
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000010		
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010		
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010		
	Uranium (U)-Dissolved (mg/L)	0.00274	0.00351		
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010		
	Zinc (Zn)-Dissolved (mg/L)	0.0086	0.429		
	Zirconium (Zr)-Dissolved (mg/L)	<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)
Duplicate	Zirconium (Zr)-Dissolved	DLA	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Molybdenum (Mo)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Potassium (K)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Uranium (U)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Total Organic Carbon	MS-B	L1443909-10, -11, -12, -8, -9
Matrix Spike	Dissolved Organic Carbon	MS-B	L1443909-10, -11, -12, -8, -9
Matrix Spike	Antimony (Sb)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Arsenic (As)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Molybdenum (Mo)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Uranium (U)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Aluminum (Al)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Potassium (K)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Antimony (Sb)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Arsenic (As)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Molybdenum (Mo)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1443909-1, -10, -11, -12, -2, -3, -5, -6, -7, -8, -9
Duplicate	Phosphorus (P)-Total	PEHT	L1443909-1, -10, -11, -12, -2, -3, -4, -5, -6, -7, -8, -9

Qualifiers for Individual Parameters Listed:

Qualifier	Description
DLA	Detection Limit adjusted for required dilution
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
PEHT	Parameter Exceeded Recommended Holding Time Prior to Analysis

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			

Reference Information

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).

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. Waston 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-PCT-VA Water pH by Meter (Automated) APHA 4500-H "pH Value"

Reference Information

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

It is recommended that this analysis be conducted in the field.

PH-PCT-VA Water pH by Meter (Automated) APHA 4500-H pH Value

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

It is recommended that this analysis be conducted in the field.

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).

** 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

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



L1443909-COFC

COC Number: 14 -

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Report To Company: EDI Contact: Meighan Kearns Address: 2195 - 2nd Avenue Whitehorse, YT Y1A 3T8 Phone: 867-393-4882		Report Format / Distribution Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input checked="" type="checkbox"/> EDD (DIGITAL) Quality Control (QC) Report with Report <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Criteria on Report - provide details below if box checked Select Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX Email 1 or Fax: mkearns@edynamics.com Email 2: adrienne.turcotte@gov.yk.ca		Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests) R <input checked="" type="checkbox"/> Regular (Standard TAT if received by 3 pm - business days) P <input type="checkbox"/> Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT E <input type="checkbox"/> Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT E2 <input type="checkbox"/> Same day or weekend emergency - contact ALS to confirm TAT and surcharge Specify Date Required for E2, E or P:																																																																																																																															
Invoice To Same as Report To <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Copy of Invoice with Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Company: EDI Contact: S Jenner		Invoice Distribution Select Invoice Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX Email 1 or Fax: sjenner@edynamics.com Email 2:		Analysis Request Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below <table border="1"> <tr> <td>ALK-COL-VA-P-T-COL-VA,IONBALANCE-V</td> <td>ANIONS-ALL-IC-WR, TDS-CALC-VA</td> <td>EC-MAN-WR,PH-MAN-WR</td> <td>TSS-LOW-WR</td> <td>CARBONS-TOC-VA,NH3-F-VA</td> <td>CARBONS-DOC-VA</td> <td>MET-T-CCMS-VA,ZR-T-MS-VA</td> <td>MET-D-CCMS-VA,ZR-D-MS-VA</td> <td>HARDNESS-CALC-VA</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Number of Containers</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										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-CCMS-VA,ZR-T-MS-VA	MET-D-CCMS-VA,ZR-D-MS-VA	HARDNESS-CALC-VA													Number of Containers																																																																																																
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Project Information ALS Quote #: Q38556 Job #: 43-Y-0452 14-Y-0270 PO / AFE: LSD:		Oil and Gas Required Fields (client use) Approver ID: GL Account: Activity Code: Location:		ALS Contact: ALS Contact: Sampler: BSM, LG																																																																																																																															
Sample Identification and/or Coordinates (This description will appear on the report)		Date (dd-mmm-yy)		Time (hh:mm)		Sample Type		<table border="1"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>NF2</td><td></td><td>15 APR 14</td><td></td><td>10:50</td><td></td><td>GRAB</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td></td><td></td><td></td><td></td><td></td><td>5</td> </tr> <tr> <td>NF2-B</td><td></td><td>15 APR 14</td><td></td><td>10:40</td><td></td><td>GRAB</td><td>R</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Field Blank</td><td></td><td>15 APR 14</td><td></td><td>8:00</td><td></td><td>GRAB</td><td>R</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Trip Blank</td><td></td><td>15 APR 14</td><td></td><td></td><td></td><td></td><td>R</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>																																NF2		15 APR 14		10:50		GRAB	R	R	R	R	R	R	R	R	R	R						5	NF2-B		15 APR 14		10:40		GRAB	R																Field Blank		15 APR 14		8:00		GRAB	R																Trip Blank		15 APR 14					R															
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Drinking Water (DW) Samples¹ (client use)				Special Instructions / Specify Criteria to add on report (client Use)				SAMPLE CONDITION WAS RECEIVED (lab use only) Icy <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Backscat. Yes <input type="checkbox"/> No <input type="checkbox"/> Custody maintained Yes <input type="checkbox"/> No <input type="checkbox"/> Coolant Initiated <input type="checkbox"/> INITIAL COOLER TEMPERATURES (°C): <input type="checkbox"/> 0 <input type="checkbox"/> 5 <input type="checkbox"/> 10 FINAL COOLER TEMPERATURES (°C):																																																																																																																											
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																																																																																																																																			
SHIPMENT RELEASE (client use)				INITIAL SHIPMENT RECEPTION (lab use only)				FINAL SHIPMENT RECEPTION (lab use only)																																																																																																																											
Released by:		Date:		Time:		Received by:		Date:		Time:		Received by:		Date:		Time:																																																																																																																			



Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

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L1443909-COFC

COC Number: 14 -

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Report To		Report Format / Distribution			DETECT OR TIME DELAY ALLOW (Rush Turnaround Time (TAT) is not available for all tests)												
Company:	EDI	Select Report Format:	<input checked="" type="checkbox"/> PDF	<input checked="" type="checkbox"/> EXCEL	<input checked="" type="checkbox"/> EDD (DIGITAL)	R	<input checked="" 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 type="checkbox"/> Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT											
Address:	2195 - 2nd Avenue Whitehorse, YT Y1A 3T8	<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										
Phone:	867-393-4882	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											
Invoice To		Invoice Distribution			Analysis Request												
Same as Report To <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Select Invoice Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX			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		Email 1 or Fax: sjenner@edynamics.com															
Company: EDI		Email 2: adrienne.turcotte@gov.yk.ca															
Contact: S Jenner																	
Project Information		Oil and Gas Required Fields (client use)															
ALS Quote #:	Q38556	Approver ID:	Cost Center:														
Job #:	43-10452 14-Y-0270	GL Account:	Routing Code:														
PO / AFE:		Activity Code:	Location:														
LSD:		ALS Contact:	Sampler: BSM LG														
ALS Lab Work Order (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,NHG-F-VA	CARBONS-DOC-VA	MET-T-CCMS-VA,ZR-T-MS-VA	MET-D-CCMS-VA,ZR-D-MS-VA	HARDNESS-CALC-VA	Number of Containers	
ALS Sample (lab use only)	R3	15 APR 14	8:35	GRAB	R	R	R	R	R	R	R	R	R	R	5		
	X14	15 APR 14	9:00	GRAB	R												
	X10	15 APR 14	9:25	GRAB	R												
	X3A	15 APR 14	9:50	GRAB	R												
	X2	15 APR 14	10:20	GRAB	R												
	NF2-A	15 APR 14		GRAB	R												
	NF1	15 APR 14	11:50	GRAB	R												
	R10	15 APR 14	12:00	GRAB	R												
	X14-F	15 APR 14	9:05	GRAB	R												
Drinking Water (DW) Samples ¹ (client use)		Special Instructions / Specify Criteria to add on report (client Use)				SAMPLE CONDITION AS RECEIVED (lab use only)											
Are samples taken from a Regulated DW System? <input type="checkbox"/> Yes <input type="checkbox"/> No		Use CH2M_EQUIS for EDD.				Frozen <input type="checkbox"/> SIP Operators: <input type="checkbox"/> Yes <input type="checkbox"/> No											
Are samples for human drinking water use? <input type="checkbox"/> Yes <input type="checkbox"/> No						Ice pack: <input type="checkbox"/> Yes <input type="checkbox"/> No Custom seal intact: <input type="checkbox"/> Yes <input type="checkbox"/> No											
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (lab use only)				INITIAL SHIPMENT RECEPTION (lab use only)											
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time: