



EDI ENVIRONMENTAL DYNAMICS INC.
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Date Received: 14-JAN-16
Report Date: 27-JAN-16 15:47 (MT)
Version: FINAL

Client Phone: 867-393-4882

Certificate of Analysis

Lab Work Order #: L1723337
Project P.O. #: NOT SUBMITTED
Job Reference: MOUNT NANSEN 15-Y-0146
C of C Numbers: 1, 2
Legal Site Desc:

Comments: ADDITIONAL 26-JAN-16 17:54

Can Dang
Senior Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	Description	Sampled Date	Sampled Time	Client ID	L1723337-1	L1723337-2	L1723337-3	L1723337-4	L1723337-5
					Water	Water	Water	Water	Water
		12-JAN-16	17:40		12-JAN-16	12-JAN-16	12-JAN-16	12-JAN-16	13-JAN-16
					17:40	18:22	16:40	19:15	10:45
					WQ-DC-U	WQ-SEEP	WQ-VC-R+150	WQ-TP	FIELD BLANK
Grouping	Analyte								
WATER									
Physical Tests	Conductivity (uS/cm)	1620	1650	259	2400	<2.0			
	Hardness (as CaCO3) (mg/L)	900	894	130	1490	<0.50			
	pH (pH)	7.62	7.02	7.57	7.70	5.79			
	Total Suspended Solids (mg/L)	6.0	30.7	<3.0	<3.0	<3.0			
	Total Dissolved Solids (mg/L)	1220	1270	140	2030	<1.0			
Anions and Nutrients	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	259	245	92.2	203	<1.0			
	Alkalinity, Carbonate (as CaCO3) (mg/L)	<1.0	<1.0	<1.0	<1.0	<1.0			
	Alkalinity, Hydroxide (as CaCO3) (mg/L)	<1.0	<1.0	<1.0	<1.0	<1.0			
	Alkalinity, Total (as CaCO3) (mg/L)	259	245	92.2	203	<1.0			
	Ammonia, Total (as N) (mg/L)	3.96	4.76	<0.0050	1.10	<0.0050			
	Chloride (Cl) (mg/L)	<2.5 ^{DLA}	<2.5 ^{DLA}	<0.50	<2.5 ^{DLA}	<0.50			
	Fluoride (F) (mg/L)	0.146	0.113	0.037	0.35	<0.020			
	Nitrate (as N) (mg/L)	0.382	0.686	0.183	0.147	<0.0050			
	Nitrite (as N) (mg/L)	0.0180	0.0207	<0.0010	<0.0050 ^{DLA}	<0.0010			
	Sulfate (SO4) (mg/L)	694	729	34.7	1300	<0.30			
	Anion Sum (meq/L)	19.7	20.1	2.58	31.2	<0.10			
	Cation Sum (meq/L)	20.1	20.9	2.77	32.0	<0.10			
	Cation - Anion Balance (%)	1.1	2.0	3.5	1.2	0.0			
	Cyanides	Cyanide, Weak Acid Diss (mg/L)	0.0183	0.0097	<0.0050	<0.0050	<0.0050		
Cyanide, Total (mg/L)		0.0345	0.0713	<0.0050	<0.0050	<0.0050			
Cyanate (mg/L)		<0.20	<0.20	0.25	<0.20	<0.20			
Thiocyanate (SCN) (mg/L)		2.60	4.23	<0.50	<0.50	<0.50			
Total Metals	Aluminum (Al)-Total (mg/L)	0.0153	0.0165	0.0096	0.0192	<0.0030			
	Antimony (Sb)-Total (mg/L)	0.00036	0.00054	0.00053	0.0386	<0.00010			
	Arsenic (As)-Total (mg/L)	0.0361	0.0656	0.00142	0.147	<0.00010			
	Barium (Ba)-Total (mg/L)	0.0668	0.0574	0.0765	0.0293	<0.000050			
	Beryllium (Be)-Total (mg/L)	<0.000020	<0.000020	<0.000020	<0.000040 ^{DLA}	<0.000020			
	Bismuth (Bi)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.00010 ^{DLA}	<0.000050			
	Boron (B)-Total (mg/L)	0.045	0.055	<0.010	0.131	<0.010			
	Cadmium (Cd)-Total (mg/L)	0.000270	0.000606	<0.0000050	0.00325	<0.0000050			
	Calcium (Ca)-Total (mg/L)	256	262	33.8	440	<0.050			
	Chromium (Cr)-Total (mg/L)	0.00035	0.00056	<0.00010	0.00031	<0.00010			
	Cobalt (Co)-Total (mg/L)	0.00630	0.00847	<0.00010	0.00080	<0.00010			
	Copper (Cu)-Total (mg/L)	0.00213	0.00297	0.00106	0.0437	<0.00050			
	Iron (Fe)-Total (mg/L)	2.01	15.1	0.011	0.296	<0.010			
	Lead (Pb)-Total (mg/L)	<0.000050	0.000072	<0.000050	0.00762	<0.000050			
	Lithium (Li)-Total (mg/L)	0.0011	0.0013	<0.0010	0.0144	<0.0010			

* 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	L1723337-6 Water TRAVEL BLANK	L1723337-7 Water 13-JAN-16 14:20 WQ-DC-DX+105	L1723337-8 Water 13-JAN-16 12:40 WQ-VC-UMN	L1723337-9 Water 13-JAN-16 12:50 WQ-VC-UMN-R	L1723337-10 Water 13-JAN-16 09:35 WQ-VC-DBC
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	<2.0	1150	267	265	226
	Hardness (as CaCO3) (mg/L)	<0.50	679	136	137	117
	pH (pH)	5.51	7.53	7.55	7.59	7.49
	Total Suspended Solids (mg/L)	<3.0	5.3	<3.0	3.3	<3.0
	Total Dissolved Solids (mg/L)	<1.0	788	146	147	122
Anions and Nutrients	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	<1.0	259	96.8	97.7	92.3
	Alkalinity, Carbonate (as CaCO3) (mg/L)	<1.0	<1.0	<1.0	<1.0	<1.0
	Alkalinity, Hydroxide (as CaCO3) (mg/L)	<1.0	<1.0	<1.0	<1.0	<1.0
	Alkalinity, Total (as CaCO3) (mg/L)	<1.0	259	96.8	97.7	92.3
	Ammonia, Total (as N) (mg/L)	0.0055 ^{RRV}	0.0186	<0.0050	<0.0050	<0.0050
	Chloride (Cl) (mg/L)	<0.50	<1.0 ^{DLA}	<0.50	<0.50	<0.50
	Fluoride (F) (mg/L)	<0.020	0.149	0.039	0.037	0.035
	Nitrate (as N) (mg/L)	<0.0050	0.011	0.155	0.156	0.147
	Nitrite (as N) (mg/L)	<0.0010	<0.0020 ^{DLA}	<0.0010	<0.0010	<0.0010
	Sulfate (SO4) (mg/L)	<0.30	387	35.7	35.7	21.4
	Anion Sum (meq/L)	<0.10	13.3	2.69	2.71	2.30
	Cation Sum (meq/L)	<0.10	13.9	2.90	2.92	2.47
	Cation - Anion Balance (%)	0.0	2.6	3.8	3.7	3.6
	Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050
Cyanide, Total (mg/L)		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cyanate (mg/L)		<0.20	<0.20	<0.20	<0.20	<0.20
Thiocyanate (SCN) (mg/L)		<0.50	<0.50	<0.50	<0.50	<0.50
Total Metals	Aluminum (Al)-Total (mg/L)	<0.0030	0.0048	0.0128	0.0128	0.0112
	Antimony (Sb)-Total (mg/L)	<0.00010	0.00934	0.00073	0.00074	<0.00010
	Arsenic (As)-Total (mg/L)	<0.00010	0.0410	0.00420	0.00420	0.00031
	Barium (Ba)-Total (mg/L)	<0.000050	0.0117	0.0731	0.0733	0.0809
	Beryllium (Be)-Total (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Bismuth (Bi)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Boron (B)-Total (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Cadmium (Cd)-Total (mg/L)	<0.0000050	0.00170	0.0000566	0.0000566	0.0000311
	Calcium (Ca)-Total (mg/L)	<0.050	172	35.4	35.5	30.9
	Chromium (Cr)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Cobalt (Co)-Total (mg/L)	<0.00010	0.00076	<0.00010	<0.00010	<0.00010
	Copper (Cu)-Total (mg/L)	<0.00050	<0.00050	0.00123	0.00122	0.00110
	Iron (Fe)-Total (mg/L)	<0.010	0.401	0.025	0.025	0.016
	Lead (Pb)-Total (mg/L)	<0.000050	0.000052	0.000316	0.000323	<0.000050
	Lithium (Li)-Total (mg/L)	<0.0010	0.0075	<0.0010	<0.0010	<0.0010

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	Sample ID	Description	Sampled Date	Sampled Time	Client ID
		L1723337-11	Water	13-JAN-16	09:50	WQ-VC-U
WATER						
Physical Tests	Conductivity (uS/cm)			226		
	Hardness (as CaCO3) (mg/L)			117		
	pH (pH)			7.53		
	Total Suspended Solids (mg/L)			16.0		
	Total Dissolved Solids (mg/L)			121		
Anions and Nutrients	Alkalinity, Bicarbonate (as CaCO3) (mg/L)			91.1		
	Alkalinity, Carbonate (as CaCO3) (mg/L)			<1.0		
	Alkalinity, Hydroxide (as CaCO3) (mg/L)			<1.0		
	Alkalinity, Total (as CaCO3) (mg/L)			91.1		
	Ammonia, Total (as N) (mg/L)			<0.0050		
	Chloride (Cl) (mg/L)			<0.50		
	Fluoride (F) (mg/L)			0.038		
	Nitrate (as N) (mg/L)			0.147		
	Nitrite (as N) (mg/L)			<0.0010		
	Sulfate (SO4) (mg/L)			21.5		
	Anion Sum (meq/L)			2.28		
	Cation Sum (meq/L)			2.49		
	Cation - Anion Balance (%)			4.3		
Cyanides	Cyanide, Weak Acid Diss (mg/L)			<0.0050		
	Cyanide, Total (mg/L)			<0.0050		
	Cyanate (mg/L)			<0.20		
	Thiocyanate (SCN) (mg/L)			<0.50		
Total Metals	Aluminum (Al)-Total (mg/L)			0.237		
	Antimony (Sb)-Total (mg/L)			0.00013		
	Arsenic (As)-Total (mg/L)			0.00063		
	Barium (Ba)-Total (mg/L)			0.0842		
	Beryllium (Be)-Total (mg/L)			<0.000020		
	Bismuth (Bi)-Total (mg/L)			<0.000050		
	Boron (B)-Total (mg/L)			<0.010		
	Cadmium (Cd)-Total (mg/L)			0.0000394		
	Calcium (Ca)-Total (mg/L)			29.9		
	Chromium (Cr)-Total (mg/L)			0.00038		
	Cobalt (Co)-Total (mg/L)			0.00022		
	Copper (Cu)-Total (mg/L)			0.00170		
	Iron (Fe)-Total (mg/L)			0.336		
	Lead (Pb)-Total (mg/L)			0.000360		
	Lithium (Li)-Total (mg/L)			<0.0010		

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ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1723337-1	L1723337-2	L1723337-3	L1723337-4	L1723337-5
		Description	Water	Water	Water	Water	Water
		Sampled Date	12-JAN-16	12-JAN-16	12-JAN-16	12-JAN-16	13-JAN-16
		Sampled Time	17:40	18:22	16:40	19:15	10:45
		Client ID	WQ-DC-U	WQ-SEEP	WQ-VC-R+150	WQ-TP	FIELD BLANK
Grouping	Analyte						
WATER							
Total Metals	Magnesium (Mg)-Total (mg/L)		64.4	56.5	11.3	83.0	<0.10
	Manganese (Mn)-Total (mg/L)		5.77	6.51	0.00177	1.40	<0.00010
	Mercury (Hg)-Total (mg/L)		<0.0000050	0.0000062	<0.0000050	0.0000087	<0.0000050
	Molybdenum (Mo)-Total (mg/L)		0.000899	0.00106	0.000400	0.00176	<0.000050
	Nickel (Ni)-Total (mg/L)		0.00278	0.00393	<0.00050	0.0029	<0.00050
	Phosphorus (P)-Total (mg/L)		<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Total (mg/L)		7.13	7.58	1.06	30.7	<0.10
	Selenium (Se)-Total (mg/L)		0.000206	0.000265	<0.000050	<0.00010 ^{DLA}	<0.000050
	Silicon (Si)-Total (mg/L)		7.21	7.55	6.20	5.22	<0.050
	Silver (Ag)-Total (mg/L)		0.000016	0.000032	<0.000010	0.000174	<0.000010
	Sodium (Na)-Total (mg/L)		32.5	35.5	3.43	31.4	<0.050
	Strontium (Sr)-Total (mg/L)		0.794	0.769	0.303	1.14	<0.00020
	Sulfur (S)-Total (mg/L)		240	245	12.0	449	<0.50
	Thallium (Tl)-Total (mg/L)		<0.000010	<0.000010	<0.000010	0.000281	<0.000010
	Tin (Sn)-Total (mg/L)		<0.00010	<0.00010 ^{DLM}	<0.00010	<0.00020 ^{DLA}	<0.00010
	Titanium (Ti)-Total (mg/L)		0.00093	<0.0015	<0.00030	<0.00060 ^{DLA}	<0.00030
	Uranium (U)-Total (mg/L)		0.00161	0.00192	0.000729	0.00213	<0.000010
	Vanadium (V)-Total (mg/L)		0.00091	0.00225	<0.00050	<0.0010 ^{DLA}	<0.00050
	Zinc (Zn)-Total (mg/L)		0.0368	0.114	<0.0030	0.376	<0.0030
	Zirconium (Zr)-Total (mg/L)		0.00037	0.00067	<0.00030	<0.00060 ^{DLA}	<0.00030
Dissolved Metals	Dissolved Mercury Filtration Location		FIELD	FIELD	FIELD	FIELD	FIELD
	Dissolved Metals Filtration Location		FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)		0.0061	0.0093	0.0048	0.0055	<0.0010
	Antimony (Sb)-Dissolved (mg/L)		0.00035	0.00053	0.00050	0.0379	<0.00010
	Arsenic (As)-Dissolved (mg/L)		0.0344	0.0450	0.00127	0.107	<0.00010
	Barium (Ba)-Dissolved (mg/L)		0.0673	0.0579	0.0754	0.0288	<0.000050
	Beryllium (Be)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000040 ^{DLA}	<0.000020
	Bismuth (Bi)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	<0.00010 ^{DLA}	<0.000050
	Boron (B)-Dissolved (mg/L)		0.044	0.053	<0.010	0.131	<0.010
	Cadmium (Cd)-Dissolved (mg/L)		0.000240	0.000497	0.0000133	0.00317	<0.0000050
	Calcium (Ca)-Dissolved (mg/L)		255	265	34.0	458	<0.050
	Chromium (Cr)-Dissolved (mg/L)		0.00026	0.00044	<0.00010	<0.00020 ^{DLA}	<0.00010
	Cobalt (Co)-Dissolved (mg/L)		0.00611	0.00828	<0.00010	0.00074	<0.00010
	Copper (Cu)-Dissolved (mg/L)		0.00181	0.00213	0.00099	0.0389	<0.00020
	Iron (Fe)-Dissolved (mg/L)		1.64	14.2	<0.010	0.064	<0.010
	Lead (Pb)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	0.00181	<0.000050
	Lithium (Li)-Dissolved (mg/L)		0.0011	0.0012	<0.0010	0.0146	<0.0010

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1723337-6 Water TRAVEL BLANK	L1723337-7 Water 13-JAN-16 14:20 WQ-DC-DX+105	L1723337-8 Water 13-JAN-16 12:40 WQ-VC-UMN	L1723337-9 Water 13-JAN-16 12:50 WQ-VC-UMN-R	L1723337-10 Water 13-JAN-16 09:35 WQ-VC-DBC
Grouping	Analyte					
WATER						
Total Metals	Magnesium (Mg)-Total (mg/L)	<0.10	58.0	11.5	11.5	9.85
	Manganese (Mn)-Total (mg/L)	<0.00010	1.23	0.0352	0.0338	0.112
	Mercury (Hg)-Total (mg/L)	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
	Molybdenum (Mo)-Total (mg/L)	<0.000050	0.000379	0.000379	0.000374	0.000391
	Nickel (Ni)-Total (mg/L)	<0.00050	0.00154	<0.00050	<0.00050	<0.00050
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Total (mg/L)	<0.10	3.99	1.05	1.01	0.88
	Selenium (Se)-Total (mg/L)	<0.000050	<0.000050	0.000063	0.000055	<0.000050
	Silicon (Si)-Total (mg/L)	<0.050	6.31	6.41	6.38	6.27
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)	<0.050	5.05	3.60	3.56	2.80
	Strontium (Sr)-Total (mg/L)	<0.00020	0.400	0.321	0.321	0.315
	Sulfur (S)-Total (mg/L)	<0.50	136	12.2	12.2	7.47
	Thallium (Tl)-Total (mg/L)	<0.000010	0.000088	<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)	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
	Uranium (U)-Total (mg/L)	<0.000010	0.00415	0.000734	0.000726	0.000622
	Vanadium (V)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Zinc (Zn)-Total (mg/L)	<0.0030	0.688	0.0050	0.0049	<0.0030
	Zirconium (Zr)-Total (mg/L)	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Dissolved Metals	Dissolved Mercury Filtration Location		FIELD	FIELD	FIELD	FIELD
	Dissolved Metals Filtration Location		FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)		<0.0010	0.0057	0.0054	0.0055
	Antimony (Sb)-Dissolved (mg/L)		0.00909	0.00068	0.00065	<0.00010
	Arsenic (As)-Dissolved (mg/L)		0.0203	0.00365	0.00369	0.00026
	Barium (Ba)-Dissolved (mg/L)		0.0115	0.0720	0.0725	0.0797
	Beryllium (Be)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020
	Bismuth (Bi)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050
	Boron (B)-Dissolved (mg/L)		<0.010	<0.010	<0.010	<0.010
	Cadmium (Cd)-Dissolved (mg/L)		0.000495	0.0000261	0.0000499	0.0000211
	Calcium (Ca)-Dissolved (mg/L)		177	36.1	36.1	31.0
	Chromium (Cr)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010
	Cobalt (Co)-Dissolved (mg/L)		0.00075	<0.00010	<0.00010	<0.00010
	Copper (Cu)-Dissolved (mg/L)		<0.00020	0.00112	0.00115	0.00101
	Iron (Fe)-Dissolved (mg/L)		0.257	0.012	0.013	<0.010
	Lead (Pb)-Dissolved (mg/L)		<0.000050	0.000055	0.000052	<0.000050
	Lithium (Li)-Dissolved (mg/L)		0.0082	<0.0010	<0.0010	<0.0010

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1723337-11			
		Description	Water			
		Sampled Date	13-JAN-16			
		Sampled Time	09:50			
		Client ID	WQ-VC-U			
Grouping	Analyte					
WATER						
Total Metals	Magnesium (Mg)-Total (mg/L)		9.56			
	Manganese (Mn)-Total (mg/L)		0.161			
	Mercury (Hg)-Total (mg/L)		<0.0000050			
	Molybdenum (Mo)-Total (mg/L)		0.000390			
	Nickel (Ni)-Total (mg/L)		0.00061			
	Phosphorus (P)-Total (mg/L)		<0.050			
	Potassium (K)-Total (mg/L)		0.88			
	Selenium (Se)-Total (mg/L)		0.000051			
	Silicon (Si)-Total (mg/L)		6.37			
	Silver (Ag)-Total (mg/L)		<0.000010			
	Sodium (Na)-Total (mg/L)		2.74			
	Strontium (Sr)-Total (mg/L)		0.307			
	Sulfur (S)-Total (mg/L)		7.21			
	Thallium (Tl)-Total (mg/L)		<0.000010			
	Tin (Sn)-Total (mg/L)		<0.00010			
	Titanium (Ti)-Total (mg/L)		0.00807			
	Uranium (U)-Total (mg/L)		0.000654			
	Vanadium (V)-Total (mg/L)		0.00076			
	Zinc (Zn)-Total (mg/L)		<0.0030			
	Zirconium (Zr)-Total (mg/L)		<0.00030			
Dissolved Metals	Dissolved Mercury Filtration Location		FIELD			
	Dissolved Metals Filtration Location		FIELD			
	Aluminum (Al)-Dissolved (mg/L)		0.0056			
	Antimony (Sb)-Dissolved (mg/L)		<0.00010			
	Arsenic (As)-Dissolved (mg/L)		0.00022			
	Barium (Ba)-Dissolved (mg/L)		0.0804			
	Beryllium (Be)-Dissolved (mg/L)		<0.000020			
	Bismuth (Bi)-Dissolved (mg/L)		<0.000050			
	Boron (B)-Dissolved (mg/L)		<0.010			
	Cadmium (Cd)-Dissolved (mg/L)		0.0000272			
	Calcium (Ca)-Dissolved (mg/L)		31.1			
	Chromium (Cr)-Dissolved (mg/L)		<0.00010			
	Cobalt (Co)-Dissolved (mg/L)		<0.00010			
	Copper (Cu)-Dissolved (mg/L)		0.00103			
	Iron (Fe)-Dissolved (mg/L)		<0.010			
	Lead (Pb)-Dissolved (mg/L)		<0.000050			
	Lithium (Li)-Dissolved (mg/L)		<0.0010			

* 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	L1723337-1	L1723337-2	L1723337-3	L1723337-4	L1723337-5
					Water	Water	Water	Water	Water
					12-JAN-16	12-JAN-16	12-JAN-16	12-JAN-16	13-JAN-16
					17:40	18:22	16:40	19:15	10:45
					WQ-DC-U	WQ-SEEP	WQ-VC-R+150	WQ-TP	FIELD BLANK
Grouping	Analyte								
WATER									
Dissolved Metals	Magnesium (Mg)-Dissolved (mg/L)	63.7	56.4	11.0	83.3	<0.10			
	Manganese (Mn)-Dissolved (mg/L)	5.60	6.36	0.00133	1.37	<0.00010			
	Mercury (Hg)-Dissolved (mg/L)	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050			
	Molybdenum (Mo)-Dissolved (mg/L)	0.000814	0.000984	0.000357	0.00166	<0.000050			
	Nickel (Ni)-Dissolved (mg/L)	0.00265	0.00389	<0.00050	0.0028	<0.00050			
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050			
	Potassium (K)-Dissolved (mg/L)	6.95	7.44	0.92	29.0	<0.10			
	Selenium (Se)-Dissolved (mg/L)	0.000183	0.000241	<0.000050	<0.00010 ^{DLA}	<0.000050			
	Silicon (Si)-Dissolved (mg/L)	7.05	7.54	6.10	5.32	<0.050			
	Silver (Ag)-Dissolved (mg/L)	<0.000010	0.000011	<0.000010	0.000056	<0.000010			
	Sodium (Na)-Dissolved (mg/L)	31.7	35.6	3.32	31.2	<0.050			
	Strontium (Sr)-Dissolved (mg/L)	0.775	0.757	0.293	1.15	<0.00020			
	Sulfur (S)-Dissolved (mg/L)	231	235	11.9	435	<0.50			
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	0.000276	<0.000010			
	Tin (Sn)-Dissolved (mg/L)	<0.00010 ^{DLM}	<0.00010 ^{DLM}	<0.00010	<0.00020 ^{DLA}	<0.00010			
	Titanium (Ti)-Dissolved (mg/L)	<0.00090 ^{DLM}	<0.0012 ^{DLM}	<0.00030	<0.00060 ^{DLA}	<0.00030			
	Uranium (U)-Dissolved (mg/L)	0.00155	0.00188	0.000675	0.00212	<0.000010			
	Vanadium (V)-Dissolved (mg/L)	0.00084	0.00165	<0.00050	<0.0010 ^{DLA}	<0.00050			
	Zinc (Zn)-Dissolved (mg/L)	0.0361	0.115	<0.0010	0.365	<0.0010			
	Zirconium (Zr)-Dissolved (mg/L)	0.00037	0.00066	<0.00030	<0.00060 ^{DLA}	<0.00030			

* 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	L1723337-6 Water TRAVEL BLANK	L1723337-7 Water 13-JAN-16 14:20 WQ-DC-DX+105	L1723337-8 Water 13-JAN-16 12:40 WQ-VC-UMN	L1723337-9 Water 13-JAN-16 12:50 WQ-VC-UMN-R	L1723337-10 Water 13-JAN-16 09:35 WQ-VC-DBC
Grouping	Analyte					
WATER						
Dissolved Metals	Magnesium (Mg)-Dissolved (mg/L)		57.8	11.2	11.4	9.49
	Manganese (Mn)-Dissolved (mg/L)		1.20	0.0332	0.0326	0.108
	Mercury (Hg)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050
	Molybdenum (Mo)-Dissolved (mg/L)		0.000356	0.000351	0.000325	0.000337
	Nickel (Ni)-Dissolved (mg/L)		0.00145	<0.00050	<0.00050	<0.00050
	Phosphorus (P)-Dissolved (mg/L)		<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)		3.71	0.91	0.85	0.76
	Selenium (Se)-Dissolved (mg/L)		<0.000050	0.000063	<0.000050	<0.000050
	Silicon (Si)-Dissolved (mg/L)		6.31	6.34	6.53	6.15
	Silver (Ag)-Dissolved (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)		4.99	3.54	3.60	2.77
	Strontium (Sr)-Dissolved (mg/L)		0.402	0.315	0.309	0.303
	Sulfur (S)-Dissolved (mg/L)		133	12.2	11.9	7.33
	Thallium (Tl)-Dissolved (mg/L)		0.000084	<0.000010	<0.000010	<0.000010
	Tin (Sn)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)		<0.00030	<0.00030	<0.00030	<0.00030
	Uranium (U)-Dissolved (mg/L)		0.00406	0.000693	0.000674	0.000583
	Vanadium (V)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050
	Zinc (Zn)-Dissolved (mg/L)		0.664	0.0050	0.0045	<0.0010
	Zirconium (Zr)-Dissolved (mg/L)		<0.00030	<0.00030	<0.00030	<0.00030

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	Sample ID	Description	Sampled Date	Sampled Time	Client ID
		L1723337-11	Water	13-JAN-16	09:50	WQ-VC-U
WATER						
Dissolved Metals	Magnesium (Mg)-Dissolved (mg/L)			9.55		
	Manganese (Mn)-Dissolved (mg/L)			0.106		
	Mercury (Hg)-Dissolved (mg/L)			<0.0000050		
	Molybdenum (Mo)-Dissolved (mg/L)			0.000338		
	Nickel (Ni)-Dissolved (mg/L)			<0.00050		
	Phosphorus (P)-Dissolved (mg/L)			<0.050		
	Potassium (K)-Dissolved (mg/L)			0.77		
	Selenium (Se)-Dissolved (mg/L)			0.000053		
	Silicon (Si)-Dissolved (mg/L)			6.23		
	Silver (Ag)-Dissolved (mg/L)			<0.000010		
	Sodium (Na)-Dissolved (mg/L)			2.81		
	Strontium (Sr)-Dissolved (mg/L)			0.304		
	Sulfur (S)-Dissolved (mg/L)			7.35		
	Thallium (Tl)-Dissolved (mg/L)			<0.000010		
	Tin (Sn)-Dissolved (mg/L)			<0.00010		
	Titanium (Ti)-Dissolved (mg/L)			<0.00030		
	Uranium (U)-Dissolved (mg/L)			0.000574		
	Vanadium (V)-Dissolved (mg/L)			<0.00050		
	Zinc (Zn)-Dissolved (mg/L)			<0.0010		
	Zirconium (Zr)-Dissolved (mg/L)			<0.00030		

* 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)
Method Blank	Alkalinity, Total (as CaCO3)	B	L1723337-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Method Blank	Conductivity	B	L1723337-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Antimony (Sb)-Dissolved	MS-B	L1723337-1, -10, -11, -2, -3, -4, -5, -7, -8, -9
Matrix Spike	Arsenic (As)-Dissolved	MS-B	L1723337-1, -10, -11, -2, -3, -4, -5, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1723337-1, -10, -11, -2, -3, -4, -5, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1723337-1, -10, -11, -2, -3, -4, -5, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1723337-1, -10, -11, -2, -3, -4, -5, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1723337-1, -10, -11, -2, -3, -4, -5, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1723337-1, -10, -11, -2, -3, -4, -5, -7, -8, -9
Matrix Spike	Ammonia, Total (as N)	MS-B	L1723337-1, -10, -11, -2, -3, -4, -5, -7, -8, -9
Matrix Spike	Silicon (Si)-Dissolved	MS-B	L1723337-1, -10, -11, -2, -3, -4, -5, -7, -8, -9
Matrix Spike	Sulfur (S)-Dissolved	MS-B	L1723337-1, -10, -11, -2, -3, -4, -5, -7, -8, -9
Matrix Spike	Aluminum (Al)-Dissolved	MS-B	L1723337-1, -10, -11, -2, -3, -4, -5, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1723337-1, -10, -11, -2, -3, -4, -5, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1723337-1, -10, -11, -2, -3, -4, -5, -7, -8, -9
Matrix Spike	Antimony (Sb)-Total	MS-B	L1723337-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Arsenic (As)-Total	MS-B	L1723337-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Lead (Pb)-Total	MS-B	L1723337-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Total	MS-B	L1723337-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Total	MS-B	L1723337-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Total	MS-B	L1723337-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Titanium (Ti)-Total	MS-B	L1723337-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9

Qualifiers for Individual Parameters Listed:

Qualifier	Description
B	Method Blank exceeds ALS DQO. All associated sample results are at least 5 times greater than blank levels and are considered reliable.
DLA	Detection Limit adjusted for required dilution
DLM	Detection Limit Adjusted due to sample matrix effects.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RRV	Reported Result Verified By Repeat Analysis

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ALK-TITR-VA	Water	Alkalinity Species by Titration	APHA 2320 Alkalinity
This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.			
BE-D-L-CCMS-VA	Water	Diss. Be (low) in Water by CRC ICPMS	APHA 3030B/6020A (mod)
Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.			
Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.			
BE-T-L-CCMS-VA	Water	Total Be (Low) in Water by CRC ICPMS	EPA 200.2/6020A (mod)
Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.			
Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.			
CL-IC-N-WR	Water	Chloride in Water by IC	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
CN-CNO-WT	Water	Cyanate	APHA 4500-CN-L
This analysis is carried out using procedures adapted from APHA method 4500-CN "Cyanide". Cyanate is determined by the Cyanate hydrolysis method using an ammonia selective electrode			
CN-SCN-VA	Water	Thiocyanate by Colour	APHA 4500-CN CYANIDE

Reference Information

This analysis is carried out using procedures adapted from APHA Method 4500-CN- M "Thiocyanate" Thiocyanate is determined by the ferric nitrate colourimetric method.

CN-T-CFA-VA Water Total Cyanide in water by CFA ISO 14403:2002

This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis. Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero.

CN-WAD-CFA-VA Water Weak Acid Diss. Cyanide in water by CFA APHA 4500-CN CYANIDE

This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.

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.

F-IC-N-WR Water Fluoride in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

F-SIE-VA Water Fluoride by SIE APHA 4500-F "Fluoride"

This analysis is carried out using procedures adapted from APHA Method 4500-F "Fluoride". Fluoride is determined using a selective ion electrode.

This method has a significant negative interference (i.e. results could be biased low) when Al³⁺ is present in the sample at a concentration greater than 2.5 mg/L.

F-SIE-VA Water Fluoride by SIE APHA 4500-F Fluoride

This analysis is carried out using procedures adapted from APHA Method 4500-F "Fluoride". Fluoride is determined using a selective ion electrode.

This method has a significant negative interference (i.e. results could be biased low) when Al³⁺ is present in the sample at a concentration greater than 2.5 mg/L.

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.

HG-D-CVAA-VA Water Diss. Mercury in Water by CVAAS or CVAFS APHA 3030B/EPA 1631E (mod)

Water samples are filtered (0.45 µm), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS or CVAFS.

HG-T-CVAA-VA Water Total Mercury in Water by CVAAS or CVAFS EPA 1631E (mod)

Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS or CVAFS.

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:

$$\text{Ion Balance (\%)} = \frac{[\text{Cation Sum} - \text{Anion Sum}]}{[\text{Cation Sum} + \text{Anion Sum}]}$$

MET-D-CCMS-VA Water Dissolved Metals in Water by CRC ICPMS APHA 3030B/6020A (mod)

Water samples are filtered (0.45 µm), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-DIS-LOW-ICP-VA Water Dissolved Metals in Water by ICPOES EPA 3005A/6010B

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 procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

MET-T-CCMS-VA Water Total Metals in Water by CRC ICPMS EPA 200.2/6020A (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-TOT-LOW-ICP-VA Water Total Metals in Water by ICPOES EPA 3005A/6010B

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the

Reference Information

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 (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

NH3-F-VA Water Ammonia in Water by Fluorescence APHA 4500 NH3-NITROGEN (AMMONIA)

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.

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.

NO2-L-IC-N-WR Water Nitrite in Water by IC (Low Level) EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-L-IC-N-WR Water Nitrate in Water by IC (Low Level) EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

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.

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.

S-DIS-ICP-VA Water Dissolved Sulfur in Water by ICPOES EPA SW-846 3005A/6010B

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 - optical emission spectrophotometry (EPA Method 6010B).

Method Limitation: This method will not give total sulfur results for all samples. Sulfide or other volatile forms of sulfur that may be present in submitted samples, is often lost during the sampling, preservation and analysis process. The data reported as total and/or dissolved sulfur represents all non-volatile forms of sulfur present in a particular sample.

S-TOT-ICP-VA Water Total Sulfur in Water by ICPOES EPA SW-846 3005A/6010B

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 - optical emission spectrophotometry (EPA Method 6010B).

Method Limitation: This method will not give total sulfur results for all samples. Sulfide or other volatile forms of sulfur that may be present in submitted samples, is often lost during the sampling, preservation and analysis process. The data reported as total and/or dissolved sulfur represents all non-volatile forms of sulfur present in a particular sample.

SO4-IC-N-WR Water Sulfate in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

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-MAN-WR Water Total Suspended Solids by Gravimetric 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.

** 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
----------------------------	---------------------

Reference Information

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.

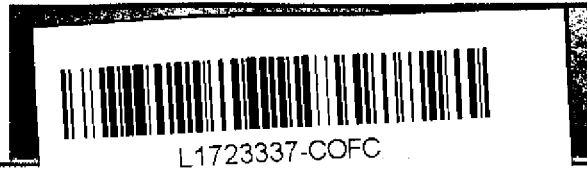
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

www.alsglobal.com



COC Number: 14 -

Page ____ of ____

Report To		Report Format / DI		Lush Turnaround Time (TAT) is not available for all tests																		
Company: EDI		Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> DIGITAL		<input checked="" type="checkbox"/> Regular (Standard TAT if received by 3 pm - business days) <input type="checkbox"/> Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT <input type="checkbox"/> Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT <input type="checkbox"/> E2 Same day or weekend emergency - contact ALS to confirm TAT and surcharge																		
Contact: Meghan Marjanovic		Quality Control (QC) Report with Report <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																				
Address: 2195 - 2nd Avenue Whitehorse, YT Y1A 3T8		<input type="checkbox"/> Criteria on Report - provide details below if box checked																				
Phone: 867-393-4882		Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX																				
		Email 1 or Fax: <u>mmarjanovic@edynamics.com</u>																				
		Email 2: <u>Emilie.Hamm@gov.yk.ca</u>																				
		Email 3: <u>erik.pit@gov.yk.ca</u>																				
Invoice To		Invoice Distribution		Analysis Request																		
Same as Report To <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Select Invoice Distribution: <input checked="" 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: <u>slenner@edynamics.com</u>																				
Company: EDI		Email 2: <u>mmarjanovic@edynamics.com</u>																				
Project Information		Oil and Gas Required Fields (client use)		Number of Containers																		
ALS Quote #: Q49310		Approver ID:		Cost Center:																		
Job #: MOUNT NANSEN 15-Y-0146		GL Account:		Routing Code:																		
PO / AFE:		Activity Code:																				
LSD:		Location:																				
ALS Lab Work Order # (lab use only)		ALS Contact: Sean Slugget		Sampler:																		
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-PCT-VA-EC-PCT-VA-PH-PCT-VA	ANIONS-ALL-IC-WR-TSS-MAN-WR	CN-WAD-CFA-VA-CN-T-CFA-VA	CN-CNO-WT	CN-SCN-VA	NH3-F-VA	MET-T-BCMDG-VA	MET-D-BCMDG-VA	IONBALANC-VA-TDS-CALC-VA									
	WQ-DC-U	12-Jan-16	1740	Water	R	R	R	R	R	R	R	R	R		9							
	WQ-SEEP	12-Jan-16	1822	Water	R	R	R	R	R	R	R	R	R		9							
	WQ-VC-R+150	12-Jan-16	1640	Water	R	R	R	R	R	R	R	R	R		9							
	WQ-TP	12-Jan-16	1915	Water	R	R	R	R	R	R	R	R	R		9							
	FIELD BLANK	13-Jan-16	1045	Water	R	R	R	R	R	R	R	R	R		9							
	TRAVEL BLANK	Jan-16		Water	R	R	R	R	R	R	R	R	R		9							
		Jan-16		Water	R	R	R	R	R	R	R	R	R		9							
Short Holding Time Rush Processing																						
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 checked="" type="checkbox"/> No				Frozen <input type="checkbox"/>					SIF Observations Yes <input type="checkbox"/> No <input type="checkbox"/>					Ice packs Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/>				
Are samples for human drinking water use? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Cooling Initiated <input checked="" type="checkbox"/>					INITIAL COOLER TEMPERATURES °C: [13.1] [15.1] [19.9] FINAL COOLER TEMPERATURES °C: [13.1] [15.1] [19.9]													
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (lab use only)		FINAL SHIPMENT RECEPTION (lab use only)																		
Released by: <u>SCOTT DILLING</u> Date: Time:		Received by: [Signature] Date: <u>14 Jan 16</u> Time: <u>19:30</u>		Received by: [Signature]					Date: <u>14/1/16</u>					Time: <u>13:00</u>								



L1723337-COFC

Report To		Report Format / Distribution		<small>Select Service Level and SW (Rush Turnaround Time (TAT) is not available for all tests)</small>							
Company: EDI		Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL)		R	<input checked="" type="checkbox"/> Regular (Standard TAT if received by 3 pm - business days)						
Contact: Meghan Marjanovic		Quality Control (QC) Report with Report <input type="checkbox"/> Yes <input checked="" 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 checked="" 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						
		Email 1 or Fax: mmjarjanovic@edynamics.com		Specify Date Required for E2,E or P:							
		Email 2: Emille.Hamm@gov.yk.ca									
		Email 3: erik.pit@gov.yk.ca									

Invoice To		Invoice Distribution		Analysis Request																														
Same as Report To <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Select Invoice Distribution: <input checked="" 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: sienner@edynamics.com				P	P	P	P	P	F/P																							
Company: EDI		Email 2: mmjarjanovic@edynamics.com		ALK-PCT-VA, EC-PCT-VA, PH-PCT-VA	ANIONS-ALL-IC-WR, TSS-MAN-WR	CN-WAD-CFA-VA, CN-T-CFA-VA	CN-CNO-WT	CN-SCN-VA	NH3-F-VA	MET-T-BCMDCG-VA	MET-D-BCMDCG-VA	IONBALANC-VA, TDS-CALC-VA							Number of Containers															
Project Information		Oil and Gas Required Fields (client use)																																
ALS Quote #: Q49310		Approver ID:																		Cost Center:														
Job #: MOUNT NANSEN 15-Y-0146		GL Account:																		Routing Code:														
PO / AFE:		Activity Code:																																
LSD:		Location:																																

ALS Lab Work Order # (lab use only):		ALS Contact: Sean Slugget		Sampler:	
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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	Analysis Request	Number of Containers
	WQ-DC-DX +105	13 Jan -16	14:20	Water	R R R R R R R R	9
	WQ-VC-UMN	13 Jan -16	12:40	Water	R R R R R R R R	9
	WQ-VC-UMN-5	13 Jan -16	12:50	Water	R R R R R R R R	9
	WQ-VC-DBC	13 Jan -16	0935	Water	R R R R R R R R	9
	WQ-VC-U	13 Jan -16	0950	Water	R R R R R R R R	9
		- Jan -16		Water	R R R R R R R R	9
		- Jan -16		Water	R R R R R R R R	9

Drinking Water (DW) Samples (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 checked="" type="checkbox"/> No					Frozen <input type="checkbox"/> SIF Observations Yes <input type="checkbox"/> No <input type="checkbox"/>									
Are samples for human drinking water use? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					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:									

SHIPMENT RELEASE (client use)				INITIAL SHIPMENT RECEPTION (lab use only)				FINAL SHIPMENT RECEPTION (lab use only)			
Released by: SCOTT DILLING	Date:	Time:		Received by:	Date:	Time:		Received by:	Date:	Time:	