



ENVIRONMENTAL DYNAMICS INC.
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Date Received: 15-JUL-15
Report Date: 24-JUL-15 17:35 (MT)
Version: FINAL

Client Phone: 867-393-4882

Certificate of Analysis

Lab Work Order #: L1642735
Project P.O. #: NOT SUBMITTED
Job Reference: MOUNT NANSEN 15-Y-0146
C of C Numbers: 1, 2, 3
Legal Site Desc:

Can Dang
Senior Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1642735-1	L1642735-2	L1642735-3	L1642735-4	L1642735-5
		Description	Water	Water	Water	Water	Water
		Sampled Date	13-JUL-15	13-JUL-15	13-JUL-15	13-JUL-15	13-JUL-15
		Sampled Time	18:00	13:00	16:00	17:45	14:45
		Client ID	WQ-VC-U	WQ-VC-R	WQ-DC-R	WQ-VC-DBC	WQ-VC-UMN
Grouping	Analyte						
WATER							
Physical Tests	Conductivity (uS/cm)		222	283	1250	224	303
	Hardness (as CaCO3) (mg/L)		115	145	730	116	155
	pH (pH)		8.07	8.12	8.01	8.03	8.09
	Total Suspended Solids (mg/L)		<3.0	<3.0	6.0	<3.0	<3.0
	Total Dissolved Solids (mg/L)		120	163	941	122	174
Anions and Nutrients	Alkalinity, Bicarbonate (as CaCO3) (mg/L)		95.1	92.6	172	96.5	98.5
	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)		95.1	92.6	172	96.5	98.5
	Ammonia, Total (as N) (mg/L)		<0.0050	0.0065	0.508 ^{DLA}	<0.0050	0.0058
	Chloride (Cl) (mg/L)		<0.50	<0.50	<1.0	<0.50	<0.50
	Fluoride (F) (mg/L)		0.052	0.056	0.150	0.053	0.053
	Nitrate (as N) (mg/L)		0.0432	0.0537	0.747	0.0415	0.0538
	Nitrite (as N) (mg/L)		<0.0010	<0.0010	0.0242	<0.0010	<0.0010
	Sulfate (SO4) (mg/L)		19.7	51.6	556	20.0	55.9
	Anion Sum (meq/L)		2.32	2.93	15.1	2.35	3.14
	Cation Sum (meq/L)		2.44	3.10	15.6	2.46	3.29
	Cation - Anion Balance (%)		2.5	2.8	1.7	2.3	2.4
	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	0.53	<0.20	0.22
Thiocyanate (SCN) (mg/L)			<0.50	<0.50	<0.50	<0.50	<0.50
Total Metals	Aluminum (Al)-Total (mg/L)		0.0105	0.0301	0.0228	0.0125	0.0185
	Antimony (Sb)-Total (mg/L)		<0.00010	0.00038	0.00088	0.00010	0.00041
	Arsenic (As)-Total (mg/L)		0.00032	0.00200	0.0190	0.00033	0.00206
	Barium (Ba)-Total (mg/L)		0.0794	0.0758	0.0633	0.0805	0.0769
	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	0.030	<0.010	<0.010
	Cadmium (Cd)-Total (mg/L)		0.0000138	0.0000191	0.0000498	0.0000134	0.0000150
	Calcium (Ca)-Total (mg/L)		29.1	37.9	188	30.1	40.6
	Chromium (Cr)-Total (mg/L)		<0.00010	0.00017	0.00028	0.00010	0.00012
	Cobalt (Co)-Total (mg/L)		<0.00010	0.00013	0.00235	<0.00010	0.00012
	Copper (Cu)-Total (mg/L)		0.00102	0.00118	0.00110	0.00104	0.00110
	Iron (Fe)-Total (mg/L)		0.016	0.139	3.59	0.018	0.053
	Lead (Pb)-Total (mg/L)		<0.000050	0.000093	0.000168	<0.000050	0.000077
	Lithium (Li)-Total (mg/L)		<0.0010	<0.0010	0.0017	<0.0010	<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	L1642735-6	L1642735-7	L1642735-8	L1642735-9	L1642735-10
					Water	Water	Water	Water	Water
		13-JUL-15	14:50	WQ-VC-UMN-R	13-JUL-15	14-JUL-15	14-JUL-15	14-JUL-15	14-JUL-15
					10:15	10:15	09:00	09:25	16:10
					WQ-VC-UMN-R	FIELD BLANK	WQ-SEEP	WQ-TP	WQ-DC-DX
Grouping	Analyte								
WATER									
Physical Tests	Conductivity (uS/cm)	305	<2.0	1660	1390	606			
	Hardness (as CaCO3) (mg/L)	155	<0.50	935	790	333			
	pH (pH)	8.11	5.43	7.56	7.98	7.80			
	Total Suspended Solids (mg/L)	<3.0	<3.0	21.3	<3.0	3.3			
	Total Dissolved Solids (mg/L)	174	<1.0	1320	1120	398			
Anions and Nutrients	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	98.3	<1.0	230	62.0	134			
	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)	98.3	<1.0	230	62.0	134			
	Ammonia, Total (as N) (mg/L)	0.0057	<0.0050	4.40	0.0119	<0.0050			
	Chloride (Cl) (mg/L)	<0.50	<0.50	<2.5 ^{DLA}	<2.5 ^{DLA}	<0.50			
	Fluoride (F) (mg/L)	0.052	<0.020	0.25	0.35	0.059			
	Nitrate (as N) (mg/L)	0.0544	<0.0050	0.260	<0.025 ^{DLA}	<0.0050			
	Nitrite (as N) (mg/L)	<0.0010	<0.0010	0.0158	<0.0050 ^{DLA}	<0.0010			
	Sulfate (SO4) (mg/L)	55.7	<0.30	783	761	186			
	Anion Sum (meq/L)	3.13	<0.10	20.9	17.1	6.54			
	Cation Sum (meq/L)	3.31	<0.10	21.3	17.0	7.17			
	Cation - Anion Balance (%)	2.8	0.0	0.9	-0.3	4.6			
	Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050	<0.0050	0.0261	<0.0050	<0.0050		
Cyanide, Total (mg/L)		<0.0050	<0.0050	0.157	<0.0050	<0.0050			
Cyanate (mg/L)		0.26	<0.20	0.72	0.25	0.20			
Thiocyanate (SCN) (mg/L)		<0.50	<0.50	4.41	<0.50	<0.50			
Total Metals	Aluminum (Al)-Total (mg/L)	0.0173	<0.0030	0.0183	0.0259	0.0370			
	Antimony (Sb)-Total (mg/L)	0.00040	<0.00010	0.00049	0.0401	0.00043			
	Arsenic (As)-Total (mg/L)	0.00212	<0.00010	0.0580	0.113	0.0126			
	Barium (Ba)-Total (mg/L)	0.0775	<0.000050	0.0675	0.0108	0.0660			
	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	0.000127	<0.000050			
	Boron (B)-Total (mg/L)	<0.010	<0.010	0.071	0.091	<0.010			
	Cadmium (Cd)-Total (mg/L)	0.0000195	<0.0000050	0.000411	0.000455	0.0000148			
	Calcium (Ca)-Total (mg/L)	41.0	<0.050	279	229	91.9			
	Chromium (Cr)-Total (mg/L)	0.00011	<0.00010	0.00046	0.00016	0.00016			
	Cobalt (Co)-Total (mg/L)	0.00012	<0.00010	0.00935	0.00040	0.00490			
	Copper (Cu)-Total (mg/L)	0.00110	<0.00050	0.00254	0.0221	0.00057			
	Iron (Fe)-Total (mg/L)	0.051	<0.010	9.13	0.170	1.76			
	Lead (Pb)-Total (mg/L)	0.000090	<0.000050	0.000078	0.00930	0.000079			
	Lithium (Li)-Total (mg/L)	<0.0010	<0.0010	0.0013	0.0092	<0.0010			

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ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1642735-11	L1642735-12	L1642735-13	L1642735-14	L1642735-15
		Description	Water	Water	Water	Water	Water
		Sampled Date	14-JUL-15	14-JUL-15	14-JUL-15	14-JUL-15	14-JUL-15
		Sampled Time	15:40	15:00	09:45	08:35	11:10
		Client ID	WQ-MS-S-03	WQ-DC-D1B	WQ-DC-B	WQ-DC-U	WQ-CH-P-13-01
Grouping	Analyte						
WATER							
Physical Tests	Conductivity (uS/cm)		1270	1560	1490	1450	1970
	Hardness (as CaCO3) (mg/L)		783	987	886	857	1160
	pH (pH)		7.91	8.28	8.22	8.20	6.07
	Total Suspended Solids (mg/L)		4.7	<3.0	10.0	6.7	<3.0
	Total Dissolved Solids (mg/L)		928	1220	1080	1140	1490
Anions and Nutrients	Alkalinity, Bicarbonate (as CaCO3) (mg/L)		277	263	207	209	2.9
	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)		277	263	207	209	2.9
	Ammonia, Total (as N) (mg/L)		0.0188	0.284	0.125	1.21	0.0052
	Chloride (Cl) (mg/L)		<1.0 ^{DLA}	<2.5 ^{DLA}	<1.0 ^{DLA}	<2.5 ^{DLA}	<1.0 ^{DLA}
	Fluoride (F) (mg/L)		0.254	0.23	0.118	0.26	0.082
	Nitrate (as N) (mg/L)		<0.010 ^{DLA}	0.163	0.068	0.414	0.067
	Nitrite (as N) (mg/L)		<0.0020 ^{DLA}	<0.0050 ^{DLA}	0.0021	0.0148	<0.0020 ^{DLA}
	Sulfate (SO4) (mg/L)		480	720	650	688	1070
	Anion Sum (meq/L)		15.5	20.3	17.7	18.5	22.4
	Cation Sum (meq/L)		16.1	20.3	18.3	18.3	23.8
	Cation - Anion Balance (%)		1.7	0.0	1.6	-0.7	2.9
Cyanides	Cyanide, Weak Acid Diss (mg/L)		<0.0050	<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	0.32	<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)		0.0744	0.0338	0.0332	0.0265	0.255
	Antimony (Sb)-Total (mg/L)		0.0165	0.00502	0.00137	0.00075	0.00013
	Arsenic (As)-Total (mg/L)		0.112	0.0278	0.00699	0.0271	0.00060
	Barium (Ba)-Total (mg/L)		0.0153	0.0314	0.0422	0.0547	0.0161
	Beryllium (Be)-Total (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020	0.000057
	Bismuth (Bi)-Total (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Boron (B)-Total (mg/L)		<0.010	0.051	0.020	0.034	<0.010
	Cadmium (Cd)-Total (mg/L)		0.00251	0.000314	0.0000169	0.0000493	0.0157
	Calcium (Ca)-Total (mg/L)		195	220	197	222	280
	Chromium (Cr)-Total (mg/L)		0.00014	0.00013	0.00015	0.00022	0.00019
	Cobalt (Co)-Total (mg/L)		0.00113	0.00045	0.00050	0.00268	0.00025
	Copper (Cu)-Total (mg/L)		0.00145	0.00090	<0.00050	0.00097	0.00124
	Iron (Fe)-Total (mg/L)		2.16	1.18	1.95	2.55	0.065
	Lead (Pb)-Total (mg/L)		0.00492	0.000185	<0.000050	<0.000050	0.000074
	Lithium (Li)-Total (mg/L)		0.0107	0.0074	0.0034	0.0021	0.0022

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ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1642735-16	L1642735-17			
		Description	Water	Water			
		Sampled Date	14-JUL-15				
		Sampled Time	09:55				
		Client ID	WQ-DC-B-R	TRIP BLANK			
Grouping	Analyte						
WATER							
Physical Tests	Conductivity (uS/cm)	1450	<2.0				
	Hardness (as CaCO3) (mg/L)	885					
	pH (pH)	8.20	5.33				
	Total Suspended Solids (mg/L)	<3.0	<3.0				
	Total Dissolved Solids (mg/L)	1110	<1.0				
Anions and Nutrients	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	198	<1.0				
	Alkalinity, Carbonate (as CaCO3) (mg/L)	<1.0	<1.0				
	Alkalinity, Hydroxide (as CaCO3) (mg/L)	<1.0	<1.0				
	Alkalinity, Total (as CaCO3) (mg/L)	198	<1.0				
	Ammonia, Total (as N) (mg/L)	0.125	<0.0050				
	Chloride (Cl) (mg/L)	<1.0 ^{DLA}	<0.50				
	Fluoride (F) (mg/L)	0.138	<0.020				
	Nitrate (as N) (mg/L)	0.071	<0.0050				
	Nitrite (as N) (mg/L)	0.0030	<0.0010				
	Sulfate (SO4) (mg/L)	682	<0.30				
	Anion Sum (meq/L)	18.2	<0.10				
	Cation Sum (meq/L)	18.2	<0.10				
	Cation - Anion Balance (%)	0.2	0.0				
	Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050	<0.0050			
Cyanide, Total (mg/L)		<0.0050	<0.0050				
Cyanate (mg/L)		<0.20	<0.20				
Thiocyanate (SCN) (mg/L)		<0.50	<0.50				
Total Metals	Aluminum (Al)-Total (mg/L)	0.0329	<0.0030				
	Antimony (Sb)-Total (mg/L)	0.00138	<0.00010				
	Arsenic (As)-Total (mg/L)	0.00730	<0.00010				
	Barium (Ba)-Total (mg/L)	0.0442	<0.000050				
	Beryllium (Be)-Total (mg/L)	<0.000020	<0.000020				
	Bismuth (Bi)-Total (mg/L)	<0.000050	<0.000050				
	Boron (B)-Total (mg/L)	0.019	<0.010				
	Cadmium (Cd)-Total (mg/L)	0.0000206	<0.0000050				
	Calcium (Ca)-Total (mg/L)	205	<0.050				
	Chromium (Cr)-Total (mg/L)	0.00016	<0.00010				
	Cobalt (Co)-Total (mg/L)	0.00052	<0.00010				
	Copper (Cu)-Total (mg/L)	0.00052	<0.00050				
	Iron (Fe)-Total (mg/L)	2.01	<0.010				
	Lead (Pb)-Total (mg/L)	0.000051	<0.000050				
	Lithium (Li)-Total (mg/L)	0.0032	<0.0010				

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ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1642735-1	L1642735-2	L1642735-3	L1642735-4	L1642735-5
		Description	Water	Water	Water	Water	Water
		Sampled Date	13-JUL-15	13-JUL-15	13-JUL-15	13-JUL-15	13-JUL-15
		Sampled Time	18:00	13:00	16:00	17:45	14:45
		Client ID	WQ-VC-U	WQ-VC-R	WQ-DC-R	WQ-VC-DBC	WQ-VC-UMN
Grouping	Analyte						
WATER							
Total Metals	Magnesium (Mg)-Total (mg/L)		9.28	11.7	60.0	9.53	12.5
	Manganese (Mn)-Total (mg/L)		0.0411	0.0268	1.98	0.0416	0.0377
	Mercury (Hg)-Total (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Molybdenum (Mo)-Total (mg/L)		0.000458	0.000430	0.000436	0.000484	0.000468
	Nickel (Ni)-Total (mg/L)		<0.00050	<0.00050	0.00137	<0.00050	<0.00050
	Phosphorus (P)-Total (mg/L)		<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Total (mg/L)		0.74	0.94	3.47	0.75	0.96
	Selenium (Se)-Total (mg/L)		<0.000050	<0.000050	0.000106	0.000052	<0.000050
	Silicon (Si)-Total (mg/L)		5.85	6.03	5.81	5.93	5.95
	Silver (Ag)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)		2.80	3.93	18.5	2.85	4.14
	Strontium (Sr)-Total (mg/L)		0.318	0.317	0.615	0.323	0.344
	Sulfur (S)-Total (mg/L)		7.00	18.2	193	7.08	19.6
	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)		<0.00030	0.00081	<0.0030 ^{DLM}	0.00030	0.00052
	Uranium (U)-Total (mg/L)		0.000676	0.000701	0.00155	0.000691	0.000774
	Vanadium (V)-Total (mg/L)		<0.00050	<0.00050	0.00066	<0.00050	<0.00050
	Zinc (Zn)-Total (mg/L)		<0.0030	<0.0030	0.0043	<0.0030	<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	FIELD
	Dissolved Metals Filtration Location		FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)		0.0063	0.0092	0.0072	0.0071	0.0050
	Antimony (Sb)-Dissolved (mg/L)		<0.00010	0.00037	0.00080	0.00011	0.00038
	Arsenic (As)-Dissolved (mg/L)		0.00032	0.00182	0.00806	0.00033	0.00191
	Barium (Ba)-Dissolved (mg/L)		0.0801	0.0752	0.0592	0.0802	0.0772
	Beryllium (Be)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Bismuth (Bi)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Boron (B)-Dissolved (mg/L)		<0.010	<0.010	0.025	<0.010	<0.010
	Cadmium (Cd)-Dissolved (mg/L)		0.0000135	0.0000142	0.0000319	0.0000121	0.0000164
	Calcium (Ca)-Dissolved (mg/L)		30.3	38.4	193	30.7	41.2
	Chromium (Cr)-Dissolved (mg/L)		<0.00010	0.00012	0.00022	<0.00010	<0.00010
	Cobalt (Co)-Dissolved (mg/L)		<0.00010	0.00013	0.00224	<0.00010	0.00011
	Copper (Cu)-Dissolved (mg/L)		0.00097	0.00119	0.00103	0.00099	0.00102
	Iron (Fe)-Dissolved (mg/L)		<0.010	0.079	0.947	<0.010	0.010
	Lead (Pb)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)		<0.0010	<0.0010	0.0015	<0.0010	<0.0010

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1642735-6	L1642735-7	L1642735-8	L1642735-9	L1642735-10
		Description	Water	Water	Water	Water	Water
		Sampled Date	13-JUL-15	14-JUL-15	14-JUL-15	14-JUL-15	14-JUL-15
		Sampled Time	14:50	10:15	09:00	09:25	16:10
		Client ID	WQ-VC-UMN-R	FIELD BLANK	WQ-SEEP	WQ-TP	WQ-DC-DX
Grouping	Analyte						
WATER							
Total Metals	Magnesium (Mg)-Total (mg/L)		12.8	<0.10	58.8	48.5	23.4
	Manganese (Mn)-Total (mg/L)		0.0366	0.00014	7.14	0.0542	4.50
	Mercury (Hg)-Total (mg/L)		<0.0000050	<0.0000050	<0.0000050	0.0000074	<0.0000050
	Molybdenum (Mo)-Total (mg/L)		0.000445	<0.000050	0.000942	0.00166	0.000236
	Nickel (Ni)-Total (mg/L)		<0.00050	<0.00050	0.00356	0.00061	0.00117
	Phosphorus (P)-Total (mg/L)		<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Total (mg/L)		0.99	<0.10	6.61	15.1	4.84
	Selenium (Se)-Total (mg/L)		<0.000050	<0.000050	0.000205	0.000064	0.000061
	Silicon (Si)-Total (mg/L)		6.04	<0.050	7.53	1.64	5.37
	Silver (Ag)-Total (mg/L)		<0.000010	<0.000010	0.000030	0.000226	<0.000010
	Sodium (Na)-Total (mg/L)		4.13	<0.050	41.0	19.0	4.53
	Strontium (Sr)-Total (mg/L)		0.342	<0.00020	0.814	0.609	0.265
	Sulfur (S)-Total (mg/L)		19.7	<0.50	270	254	68.2
	Thallium (Tl)-Total (mg/L)		<0.000010	<0.000010	<0.000010	0.000266	0.000032
	Tin (Sn)-Total (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)		0.00049	<0.00030	<0.0030 ^{DLM}	<0.00030	0.00190
	Uranium (U)-Total (mg/L)		0.000763	<0.000010	0.00173	0.00102	0.000489
	Vanadium (V)-Total (mg/L)		<0.00050	<0.00050	0.00189	<0.00050	0.00052
	Zinc (Zn)-Total (mg/L)		<0.0030	<0.0030	0.0174	0.0248	<0.0030
	Zirconium (Zr)-Total (mg/L)		<0.00030	<0.00030	0.00048	<0.00030	<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)		0.0055	<0.0010	0.0084	0.0054	0.0055
	Antimony (Sb)-Dissolved (mg/L)		0.00039	<0.00010	0.00041	0.0388	0.00031
	Arsenic (As)-Dissolved (mg/L)		0.00190	<0.00010	0.0395	0.0900	0.00258
	Barium (Ba)-Dissolved (mg/L)		0.0771	0.000064	0.0618	0.0106	0.0693
	Beryllium (Be)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Bismuth (Bi)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Boron (B)-Dissolved (mg/L)		<0.010	<0.010	0.059	0.084	<0.010
	Cadmium (Cd)-Dissolved (mg/L)		0.0000159	<0.0000050	0.000333	0.000240	0.0000092
	Calcium (Ca)-Dissolved (mg/L)		41.2	<0.050	279	236	94.1
	Chromium (Cr)-Dissolved (mg/L)		<0.00010	<0.00010	0.00031	<0.00010	<0.00010
	Cobalt (Co)-Dissolved (mg/L)		0.00011	<0.00010	0.00830	0.00036	0.00554
	Copper (Cu)-Dissolved (mg/L)		0.00099	<0.00020	0.00174	0.0163	0.00033
	Iron (Fe)-Dissolved (mg/L)		<0.010	<0.010	6.53	<0.010	0.214
	Lead (Pb)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	0.000404	<0.000050
	Lithium (Li)-Dissolved (mg/L)		<0.0010	<0.0010	0.0011	0.0093	<0.0010

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1642735-11	L1642735-12	L1642735-13	L1642735-14	L1642735-15
		Description	Water	Water	Water	Water	Water
		Sampled Date	14-JUL-15	14-JUL-15	14-JUL-15	14-JUL-15	14-JUL-15
		Sampled Time	15:40	15:00	09:45	08:35	11:10
		Client ID	WQ-MS-S-03	WQ-DC-D1B	WQ-DC-B	WQ-DC-U	WQ-CH-P-13-01
Grouping	Analyte						
WATER							
Total Metals	Magnesium (Mg)-Total (mg/L)		65.9	104	89.4	72.3	107
	Manganese (Mn)-Total (mg/L)		1.39	1.43	0.688	2.68	0.738
	Mercury (Hg)-Total (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Molybdenum (Mo)-Total (mg/L)		0.000348	0.000255	0.000378	0.000552	<0.000050
	Nickel (Ni)-Total (mg/L)		0.00227	0.00083	0.00090	0.00143	0.0117
	Phosphorus (P)-Total (mg/L)		<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Total (mg/L)		3.56	4.33	3.08	3.83	0.30
	Selenium (Se)-Total (mg/L)		<0.000050	0.000064	0.000061	0.000090	<0.000050
	Silicon (Si)-Total (mg/L)		6.51	5.97	5.53	5.70	6.11
	Silver (Ag)-Total (mg/L)		0.000083	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)		4.98	7.98	9.82	19.4	6.86
	Strontium (Sr)-Total (mg/L)		0.465	0.616	0.660	0.719	0.672
	Sulfur (S)-Total (mg/L)		166	244	220	233	390
	Thallium (Tl)-Total (mg/L)		0.000107	0.000026	<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)		0.00444	<0.0030 ^{DLM}	<0.0030 ^{DLM}	<0.0030 ^{DLM}	<0.0012 ^{DLM}
	Uranium (U)-Total (mg/L)		0.00446	0.00277	0.00290	0.00211	0.000011
	Vanadium (V)-Total (mg/L)		<0.00050	<0.00050	0.00051	0.00060	<0.00050
	Zinc (Zn)-Total (mg/L)		0.972	0.132	0.0056	0.0033	5.63
	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	FIELD
	Dissolved Metals Filtration Location		FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)		0.0012	0.0034	0.0056	0.0078	0.249
	Antimony (Sb)-Dissolved (mg/L)		0.0155	0.00497	0.00135	0.00072	0.00012
	Arsenic (As)-Dissolved (mg/L)		0.0660	0.0180	0.00448	0.0205	0.00055
	Barium (Ba)-Dissolved (mg/L)		0.0126	0.0301	0.0413	0.0527	0.0156
	Beryllium (Be)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020	0.000054
	Bismuth (Bi)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Boron (B)-Dissolved (mg/L)		<0.010	0.046	0.016	0.028	<0.010
	Cadmium (Cd)-Dissolved (mg/L)		0.000838	0.000133	0.0000136	0.0000428	0.0161
	Calcium (Ca)-Dissolved (mg/L)		203	226	203	223	288
	Chromium (Cr)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	0.00014	<0.00010
	Cobalt (Co)-Dissolved (mg/L)		0.00099	0.00041	0.00049	0.00252	0.00026
	Copper (Cu)-Dissolved (mg/L)		<0.00020	0.00067	0.00036	0.00074	0.00121
	Iron (Fe)-Dissolved (mg/L)		1.06	0.095	0.427	1.23	0.054
	Lead (Pb)-Dissolved (mg/L)		0.000095	<0.000050	<0.000050	<0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)		0.0102	0.0076	0.0033	0.0018	0.0021

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1642735-16	L1642735-17			
		Description	Water	Water			
		Sampled Date	14-JUL-15				
		Sampled Time	09:55				
		Client ID	WQ-DC-B-R	TRIP BLANK			
Grouping	Analyte						
WATER							
Total Metals	Magnesium (Mg)-Total (mg/L)		90.3	<0.10			
	Manganese (Mn)-Total (mg/L)		0.717	<0.00010			
	Mercury (Hg)-Total (mg/L)		<0.0000050	<0.0000050			
	Molybdenum (Mo)-Total (mg/L)		0.000366	<0.000050			
	Nickel (Ni)-Total (mg/L)		0.00092	<0.00050			
	Phosphorus (P)-Total (mg/L)		<0.050	<0.050			
	Potassium (K)-Total (mg/L)		2.98	<0.10			
	Selenium (Se)-Total (mg/L)		0.000061	<0.000050			
	Silicon (Si)-Total (mg/L)		5.51	<0.050			
	Silver (Ag)-Total (mg/L)		<0.000010	<0.000010			
	Sodium (Na)-Total (mg/L)		10.1	<0.050			
	Strontium (Sr)-Total (mg/L)		0.687	<0.00020			
	Sulfur (S)-Total (mg/L)		239	<0.50			
	Thallium (Tl)-Total (mg/L)		<0.000010	<0.000010			
	Tin (Sn)-Total (mg/L)		<0.00010	<0.00010			
	Titanium (Ti)-Total (mg/L)		<0.0030 ^{DLM}	<0.00030			
	Uranium (U)-Total (mg/L)		0.00301	<0.000010			
	Vanadium (V)-Total (mg/L)		0.00054	<0.00050			
	Zinc (Zn)-Total (mg/L)		0.0060	<0.0030			
	Zirconium (Zr)-Total (mg/L)		<0.00030	<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)		0.00135				
	Arsenic (As)-Dissolved (mg/L)		0.00445				
	Barium (Ba)-Dissolved (mg/L)		0.0421				
	Beryllium (Be)-Dissolved (mg/L)		<0.000020				
	Bismuth (Bi)-Dissolved (mg/L)		<0.000050				
	Boron (B)-Dissolved (mg/L)		0.016				
	Cadmium (Cd)-Dissolved (mg/L)		0.0000126				
	Calcium (Ca)-Dissolved (mg/L)		207				
	Chromium (Cr)-Dissolved (mg/L)		<0.00010				
	Cobalt (Co)-Dissolved (mg/L)		0.00048				
	Copper (Cu)-Dissolved (mg/L)		0.00036				
	Iron (Fe)-Dissolved (mg/L)		0.339				
	Lead (Pb)-Dissolved (mg/L)		<0.000050				
	Lithium (Li)-Dissolved (mg/L)		0.0029				

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1642735-1	L1642735-2	L1642735-3	L1642735-4	L1642735-5
		Description	Water	Water	Water	Water	Water
		Sampled Date	13-JUL-15	13-JUL-15	13-JUL-15	13-JUL-15	13-JUL-15
		Sampled Time	18:00	13:00	16:00	17:45	14:45
		Client ID	WQ-VC-U	WQ-VC-R	WQ-DC-R	WQ-VC-DBC	WQ-VC-UMN
Grouping	Analyte						
WATER							
Dissolved Metals	Magnesium (Mg)-Dissolved (mg/L)		9.52	12.0	60.5	9.58	12.6
	Manganese (Mn)-Dissolved (mg/L)		0.0388	0.0245	1.91	0.0372	0.0334
	Mercury (Hg)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Molybdenum (Mo)-Dissolved (mg/L)		0.000434	0.000402	0.000420	0.000426	0.000399
	Nickel (Ni)-Dissolved (mg/L)		<0.00050	0.00067	0.00181	<0.00050	<0.00050
	Phosphorus (P)-Dissolved (mg/L)		<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)		0.76	0.96	3.61	0.74	0.96
	Selenium (Se)-Dissolved (mg/L)		<0.000050	0.000052	0.000101	<0.000050	<0.000050
	Silicon (Si)-Dissolved (mg/L)		5.87	6.04	5.64	5.90	5.80
	Silver (Ag)-Dissolved (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)		2.80	3.84	17.8	2.81	4.04
	Strontium (Sr)-Dissolved (mg/L)		0.309	0.307	0.591	0.313	0.329
	Sulfur (S)-Dissolved (mg/L)		6.91	17.9	190	7.00	19.5
	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)		<0.00030	<0.00030	0.00031	<0.00030	<0.00030
	Uranium (U)-Dissolved (mg/L)		0.000636	0.000661	0.00150	0.000668	0.000713
	Vanadium (V)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Zinc (Zn)-Dissolved (mg/L)		<0.0010	0.0013	0.0021	0.0014	<0.0010
	Zirconium (Zr)-Dissolved (mg/L)		<0.00030	<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

		Sample ID	L1642735-6	L1642735-7	L1642735-8	L1642735-9	L1642735-10
		Description	Water	Water	Water	Water	Water
		Sampled Date	13-JUL-15	14-JUL-15	14-JUL-15	14-JUL-15	14-JUL-15
		Sampled Time	14:50	10:15	09:00	09:25	16:10
		Client ID	WQ-VC-UMN-R	FIELD BLANK	WQ-SEEP	WQ-TP	WQ-DC-DX
Grouping	Analyte						
WATER							
Dissolved Metals	Magnesium (Mg)-Dissolved (mg/L)		12.8	<0.10	57.6	48.8	23.9
	Manganese (Mn)-Dissolved (mg/L)		0.0309	<0.00010	6.54	0.0345	4.96
	Mercury (Hg)-Dissolved (mg/L)		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
	Molybdenum (Mo)-Dissolved (mg/L)		0.000410	<0.000050	0.000806	0.00159	0.000215
	Nickel (Ni)-Dissolved (mg/L)		<0.00050	<0.00050	0.00310	<0.00050	0.00121
	Phosphorus (P)-Dissolved (mg/L)		<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)		0.99	<0.10	6.60	15.4	4.94
	Selenium (Se)-Dissolved (mg/L)		0.000055	<0.000050	0.000219	0.000051	0.000052
	Silicon (Si)-Dissolved (mg/L)		5.88	<0.050	7.29	1.63	5.25
	Silver (Ag)-Dissolved (mg/L)		<0.000010	<0.000010	<0.000010	0.000028	<0.000010
	Sodium (Na)-Dissolved (mg/L)		4.03	<0.050	36.5	18.5	4.29
	Strontium (Sr)-Dissolved (mg/L)		0.328	<0.00020	0.776	0.595	0.255
	Sulfur (S)-Dissolved (mg/L)		19.2	<0.50	259	253	66.4
	Thallium (Tl)-Dissolved (mg/L)		<0.000010	<0.000010	<0.000010	0.000263	0.000034
	Tin (Sn)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)		<0.00030	<0.00030	0.00087	<0.00030	<0.00030
	Uranium (U)-Dissolved (mg/L)		0.000714	<0.000010	0.00162	0.000967	0.000495
	Vanadium (V)-Dissolved (mg/L)		<0.00050	<0.00050	0.00118	<0.00050	<0.00050
	Zinc (Zn)-Dissolved (mg/L)		0.0012	<0.0010	0.0141	0.0146	0.0011
	Zirconium (Zr)-Dissolved (mg/L)		<0.00030	<0.00030	0.00043	<0.00030	<0.00030

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1642735-11	L1642735-12	L1642735-13	L1642735-14	L1642735-15
		Description	Water	Water	Water	Water	Water
		Sampled Date	14-JUL-15	14-JUL-15	14-JUL-15	14-JUL-15	14-JUL-15
		Sampled Time	15:40	15:00	09:45	08:35	11:10
		Client ID	WQ-MS-S-03	WQ-DC-D1B	WQ-DC-B	WQ-DC-U	WQ-CH-P-13-01
Grouping	Analyte						
WATER							
Dissolved Metals	Magnesium (Mg)-Dissolved (mg/L)		67.1	103	92.0	72.8	108
	Manganese (Mn)-Dissolved (mg/L)		1.32	1.37	0.691	2.58	0.752
	Mercury (Hg)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Molybdenum (Mo)-Dissolved (mg/L)		0.000312	0.000230	0.000342	0.000500	<0.000050
	Nickel (Ni)-Dissolved (mg/L)		0.00205	0.00080	0.00077	0.00129	0.0116
	Phosphorus (P)-Dissolved (mg/L)		<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)		3.59	4.45	3.08	3.89	0.32
	Selenium (Se)-Dissolved (mg/L)		<0.000050	0.000074	0.000061	0.000108	<0.000050
	Silicon (Si)-Dissolved (mg/L)		6.41	5.85	5.61	5.50	6.26
	Silver (Ag)-Dissolved (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)		4.87	7.71	9.79	18.8	6.71
	Strontium (Sr)-Dissolved (mg/L)		0.452	0.600	0.664	0.691	0.659
	Sulfur (S)-Dissolved (mg/L)		165	238	223	225	384
	Thallium (Tl)-Dissolved (mg/L)		0.000095	0.000027	<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)		<0.00030	<0.00030	0.00033	<0.00030	<0.00030
	Uranium (U)-Dissolved (mg/L)		0.00437	0.00263	0.00286	0.00204	<0.000010
	Vanadium (V)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Zinc (Zn)-Dissolved (mg/L)		0.956	0.107	0.0036	0.0016	5.89
	Zirconium (Zr)-Dissolved (mg/L)		<0.00030	<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

	Sample ID Description Sampled Date Sampled Time Client ID	L1642735-16 Water 14-JUL-15 09:55 WQ-DC-B-R	L1642735-17 Water TRIP BLANK		
Grouping	Analyte				
WATER					
Dissolved Metals	Magnesium (Mg)-Dissolved (mg/L)	89.4			
	Manganese (Mn)-Dissolved (mg/L)	0.697			
	Mercury (Hg)-Dissolved (mg/L)	<0.0000050			
	Molybdenum (Mo)-Dissolved (mg/L)	0.000353			
	Nickel (Ni)-Dissolved (mg/L)	0.00096			
	Phosphorus (P)-Dissolved (mg/L)	<0.050			
	Potassium (K)-Dissolved (mg/L)	2.99			
	Selenium (Se)-Dissolved (mg/L)	0.000054			
	Silicon (Si)-Dissolved (mg/L)	5.34			
	Silver (Ag)-Dissolved (mg/L)	<0.000010			
	Sodium (Na)-Dissolved (mg/L)	9.76			
	Strontium (Sr)-Dissolved (mg/L)	0.672			
	Sulfur (S)-Dissolved (mg/L)	230			
	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)	0.00294			
	Vanadium (V)-Dissolved (mg/L)	<0.00050			
	Zinc (Zn)-Dissolved (mg/L)	0.0034			
	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)
Duplicate	Bismuth (Bi)-Dissolved	DLA	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Chromium (Cr)-Dissolved	DLA	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Cobalt (Co)-Dissolved	DLA	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Lead (Pb)-Dissolved	DLA	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Nickel (Ni)-Dissolved	DLA	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Silver (Ag)-Dissolved	DLA	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Tin (Sn)-Dissolved	DLA	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Vanadium (V)-Dissolved	DLA	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Zirconium (Zr)-Dissolved	DLA	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Cyanate	DLA	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Cadmium (Cd)-Dissolved	DLM	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Fluoride (F)	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Total	MS-B	L1642735-1, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Total	MS-B	L1642735-1, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Total	MS-B	L1642735-1, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sulfur (S)-Dissolved	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Silicon (Si)-Dissolved	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9

Reference Information

	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Sulfur (S)-Dissolved	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Silicon (Si)-Dissolved	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sulfur (S)-Dissolved	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Total	MS-B	L1642735-1, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Silicon (Si)-Total	MS-B	L1642735-1, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sulfur (S)-Total	MS-B	L1642735-1, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Total	MS-B	L1642735-10
Matrix Spike	Manganese (Mn)-Total	MS-B	L1642735-10
Matrix Spike	Sodium (Na)-Total	MS-B	L1642735-10
Matrix Spike	Strontium (Sr)-Total	MS-B	L1642735-10
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sulfur (S)-Dissolved	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Silicon (Si)-Dissolved	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Arsenic (As)-Dissolved	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Boron (B)-Dissolved	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1642735-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9

Qualifiers for Individual Parameters Listed:

Qualifier	Description
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.

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.

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 um), 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 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.

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 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

Reference Information

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
WR	ALS ENVIRONMENTAL - WHITEHORSE, YUKON, CANADA
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

1	2	3
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Reference Information

GLOSSARY OF REPORT TERMS

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

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

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

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

mg/L - milligrams per litre.

< - Less than.

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

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

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

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

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



L1642735-COFC

Report To	Report Format / Distri	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 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 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 mmarianovic@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																					
Company: EDI	Email 2 mmarianovic@edynamics.com																					
Contact: S Jenner																						
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 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-SON-VA	NH3-F-VA	MET-T-BCMDG-VA	MET-D-BCMDG-VA	IONBALANC-VA	TDS-CALC-VA	Number of Containers
		WQ-VC-U	13 - June -15	18:00	Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	9
		WQ-VC-R	13 - June -15	13:00	Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	9
		WQ-DC-R	13 - June -15	16:00	Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	9
		WQ-VC-DBC	13 - June -15	17:45	Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	9
		WQ-VC-UMN	13 - June -15	14:45	Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	9
		WQ-VC-UMN-V	13 - June -15	14:50	Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	9
		Field Blank	14 - June -15	10:15	Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	9

Drinking Water (DW) Samples¹ (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		Frozen <input type="checkbox"/>	SIF Observations <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
Are samples for human drinking water use? <input type="checkbox"/> Yes <input type="checkbox"/> No		Calpaks <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	Custody seal intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
		Quoting Initiated <input type="checkbox"/>	
		INITIAL COOLER TEMPERATURES (C)	FINAL COOLER TEMPERATURES (C)
		21	9.1
			3.5

SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (lab use only)		FINAL SHIPMENT RECEPTION (lab use only)	
Released by: <i>[Signature]</i>	Date: 15 Jul 2015	Time: 12:18	Received by: <i>[Signature]</i>	Date:	Time:



L1642735-COFC

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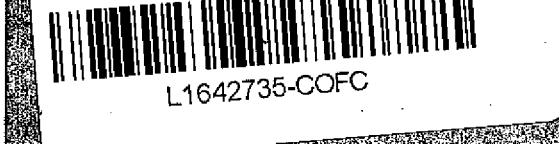
Report To		Report Format / Distribution		Push Turnaround Time (TAT) is not available for all tests										
Company:	EDI	Select Report Format:	<input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL)	R	<input checked="" type="checkbox"/> Regular (Standard TAT if received by 3 pm - business days)									
Contact:	Meghan Marjanovic	Quality Control (QC) Report with Report	<input type="checkbox"/> Yes <input 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:	mmarjanovic@edynamics.com	Specify Date Required for E2,E or P:										
		Email 2:	Emilie.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																		
Company:	EDI	Email 2:	mmarjanovic@edynamics.com																		
Contact:	S Jenner	Oil and Gas Required Fields (client use)																			
Project Information		Approver ID:	Cost Center:																		
ALS Quote #:	Q49310	GL Account:	Routing Code:																		
Job #:	MOUNT NANSEN 15-Y-0146	Activity Code:																			
PO / AFE:		Location:																			
LSD:																					

ALS Lab Work Order # (lab use only)	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	ANIONS-ALL-IC-WR	CN-WAD-CFA-VA	CN-CNO-WT	CN-SCN-VA	NH3-F-VA	MET-T-BCMDG-VA	MET-D-BCMDG-VA	IONBALANC-VA	TDS-CALC-VA	Number of Containers
		WQ-SEEP	14 - June -15	09:00	Water	R	R	R	R	R	R	R	R	R	R	9
		WQ-TP	14 - June -15	09:25	Water	R	R	R	R	R	R	R	R	R	R	9
		WQ-DC-DX	14 - June -15	16:10	Water	R	R	R	R	R	R	R	R	R	R	9
		WQ-MS-S-03	14 - June -15	15:40	Water	R	R	R	R	R	R	R	R	R	R	9
		WQ-DC-Dib	14 - June -15	15:00	Water	R	R	R	R	R	R	R	R	R	R	9
		WQ-DC-B	14 - June -15	09:45	Water	R	R	R	R	R	R	R	R	R	R	9
		WQ-DC-U	14 - June -15	08:35	Water	R	R	R	R	R	R	R	R	R	R	9

Drinking Water (DW) Samples¹ (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?				Frozen: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									
<input type="checkbox"/> Yes <input type="checkbox"/> No				SIF Observations: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No									
Are samples for human drinking water use?				Ice pack: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No									
<input type="checkbox"/> Yes <input type="checkbox"/> No				Custody seal intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No									
				Cooling/insulated: <input checked="" 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:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:
<i>[Signature]</i>	15 Jun 2015	12:18						



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Report To		Report Format / Distribution		Select Service Level Below (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 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 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:	<u>mmarjanovic@edynamics.com</u>	Specify Date Required for E2,E or P:											
		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 Filled (F), Preserved (P) or Filled and Preserved (F/P) below																	
Copy of Invoice with Report	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Email 1 or Fax:	<u>sienner@edynamics.com</u>			P	P	P	P	P	F/P										
Company:	EDI	Email 2:	<u>mmarjanovic@edynamics.com</u>																		
Contact:	S Jenner	Oil and Gas Required Fields (client use)																			
Project Information		Approver ID:	Cost Center:																		
ALS Quote #:	Q49310	GL Account:	Routing Code:																		
Job #:	MOUNT NANSEN 15-Y-0146	Activity Code:																			
PO / AFE:		Location:																			
LSD:		ALS Contact:	Sean Slugget																		
		Sampler:	LD/DH																		

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-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	Number of Containers				
	WQ-CH-P-13-01	14-June-15	11:10	Water	R	R	R	R	R	R	R	R	R	R	R	R	R					9	
	WQ-DC-B-V	14-June-15	09:55	Water	R	R	R	R	R	R	R	R	R	R	R	R	R					9	
	Trip Blank	-June-15		Water	R	R	R	R	R	R	R	R	R	R	R	R	R					9	
		-June-15		Water	R	R	R	R	R	R	R	R	R	R	R	R	R					9	
		-June-15		Water	R	R	R	R	R	R	R	R	R	R	R	R	R					9	
		-June-15		Water	R	R	R	R	R	R	R	R	R	R	R	R	R					9	
		-June-15		Water	R	R	R	R	R	R	R	R	R	R	R	R	R					9	

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				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 type="checkbox"/> No				Ice packs	Yes <input type="checkbox"/> No <input type="checkbox"/>	Gustody 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:	<i>[Signature]</i>	Date:	15 Jul 2015	Time:	12:16	Received by:		Date:		Time:		Received by:		Date:		Time:						