EDI ENVIRONMENTAL DYNAMICS INC.
ATTN: Meghan Marjanovic
2195 - 2nd Ave
Whitehorse YT Y1A 3T8

Date Received: 16-MAR-16
Report Date: 01-APR-16 11:39 (MT)
Version: FINAL

Client Phone: 867-393-4882

Certificate of Analysis

Lab Work Order #: L1745321

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

Can Dang
Senior Account Manager

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1745321-1 WATER 14-MAR-16 15:45 WQ-VC-UMN	L1745321-2 WATER 14-MAR-16 14:20 FIELD BLANK	L1745321-3 WATER 14-MAR-16 14:05 WQ-VC-R+150	L1745321-4 WATER 14-MAR-16 18:25 WQ-VC-U	L1745321-5 WATER 14-MAR-16 16:25 WQ-VC-UMN-R
WATER						
Physical Tests	Conductivity (uS/cm)	274	<2.0	295	229	271
	Hardness (as CaCO3) (mg/L)	151	<0.50	164	128	151
	pH (pH)	7.63	5.53	7.82	7.61	7.63
	Total Suspended Solids (mg/L)	<3.0	<3.0	<3.0	<3.0	<3.0
	Total Dissolved Solids (mg/L)	157	<1.0	168	127	157
Anions and Nutrients	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	104	<1.0	109	94.1	104
	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)	104	<1.0	109	94.1	104
	Ammonia, Total (as N) (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Chloride (Cl) (mg/L)	<0.50	<0.50	<0.50	<0.50	<0.50
	Fluoride (F) (mg/L)	0.055	<0.020	0.057	0.050	0.055
	Nitrate (as N) (mg/L)	0.0908	<0.0050	0.0682	0.163	0.0893
	Nitrite (as N) (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Sulfate (SO4) (mg/L)	36.7	<0.30	41.0	22.3	36.8
	Anion Sum (meq/L)	2.85	<0.10	3.04	2.36	2.86
	Cation Sum (meq/L)	3.21	<0.10	3.48	2.70	3.20
	Cation - Anion Balance (%)	5.9	0.0	6.8	6.7	5.6
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 SP	<0.20 SP	<0.20 SP	<0.20 SP	<0.20 SP
	Thiocyanate (SCN) (mg/L)	<0.50	<0.50	<0.50	<0.50	<0.50
Total Metals	Aluminum (Al)-Total (mg/L)	0.0096	<0.0030	0.0072	0.0153	0.0089
	Antimony (Sb)-Total (mg/L)	0.00046	<0.00010	0.00044	<0.00010	0.00051
	Arsenic (As)-Total (mg/L)	0.00134	<0.00010	0.00126	0.00025	0.00136
	Barium (Ba)-Total (mg/L)	0.0759	<0.000050	0.0812	0.0833	0.0744
	Beryllium (Be)-Total (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	0.000026
	Bismuth (Bi)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	0.000106
	Boron (B)-Total (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Cadmium (Cd)-Total (mg/L)	0.0000214	<0.0000050	0.0000219	0.0000240	0.0000203
	Calcium (Ca)-Total (mg/L)	36.4	<0.050	39.0	30.5	36.5
	Chromium (Cr)-Total (mg/L)	<0.00010	<0.00010	0.00014	<0.00010	0.00012
	Cobalt (Co)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Copper (Cu)-Total (mg/L)	0.00139	<0.00050	0.00103	0.00113	0.00104
	Iron (Fe)-Total (mg/L)	0.016	<0.010	<0.010	0.018	0.018
	Lead (Pb)-Total (mg/L)	0.000068	<0.000050	<0.000050	<0.000050	0.000064
	Lithium (Li)-Total (mg/L)	<0.0010	<0.0010	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	L1745321-6	L1745321-7	L1745321-8	L1745321-9	L1745321-10
Description	WATER	WATER	WATER	WATER	WATER
Sampled Date		14-MAR-16	15-MAR-16	15-MAR-16	15-MAR-16
Sampled Time		18:00	11:25	10:25	10:50
Client ID	TRAVEL BLANK	WQ-VC-DBC	WQ-TP	WQ-DC-U	WQ-SEEP
Grouping / **Analyte**					
WATER					
Physical Tests Conductivity (uS/cm)	<2.0	228	3270	1610	1680
Hardness (as CaCO3) (mg/L)	<0.50	129	2080	878	908
pH (pH)	5.59	7.61	7.97	7.75	7.15
Total Suspended Solids (mg/L)	<3.0	<3.0	64.7	12.0	47.0
Total Dissolved Solids (mg/L)	<1.0	128	3050	1260	1290
Anions and Nutrients Alkalinity, Bicarbonate (as CaCO3) (mg/L)	<1.0	94.6	315	267	262
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	94.6	315	267	262
Ammonia, Total (as N) (mg/L)	<0.0050	<0.0050	2.13	4.06	4.27
Chloride (Cl) (mg/L)	<0.50	<0.50	35.5	<2.5 DLA	<2.5 DLA
Fluoride (F) (mg/L)	<0.020	0.053	0.46	<0.10 DLA	<0.10 DLA
Nitrate (as N) (mg/L)	<0.0050	0.161	<0.050 DLA	0.3023	0.5236
Nitrite (as N) (mg/L)	<0.0010	<0.0010	<0.010 DLA	<0.0050 DLA	0.0135
Sulfate (SO4) (mg/L)	<0.30	22.4	1970	732	737
Anion Sum (meq/L)	<0.10	2.37	48.3	20.6	20.6
Cation Sum (meq/L)	<0.10	2.73	45.2	19.6	21.3
Cation - Anion Balance (%)	0.0	7.1	-3.3	-2.4	1.6
Cyanides Cyanide, Weak Acid Diss (mg/L)	<0.0050	<0.0050	<0.0050	0.0176	0.0153
Cyanide, Total (mg/L)	<0.0050	<0.0050	<0.0050	0.0426	0.0796
Cyanate (mg/L)	<0.20	<0.20 SP	<0.20 SP	<0.20 SP	<0.20 SFP
Thiocyanate (SCN) (mg/L)	<0.50	<0.50	<0.50	2.60	5.11
Total Metals Aluminum (Al)-Total (mg/L)	<0.0030	0.0228	0.270	0.0578	0.0170
Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010	0.0397	0.00043	0.00053
Arsenic (As)-Total (mg/L)	<0.00010	0.00026	0.578	0.0602	0.126
Barium (Ba)-Total (mg/L)	<0.000050	0.0821	0.0674	0.0812	0.0630
Beryllium (Be)-Total (mg/L)	<0.000020	<0.000020	0.00017	<0.000020	0.000023
Bismuth (Bi)-Total (mg/L)	<0.000050	<0.000050	0.00213	<0.000050	<0.000050
Boron (B)-Total (mg/L)	<0.010	<0.010	0.157	0.050	0.059
Cadmium (Cd)-Total (mg/L)	<0.0000050	0.0000307	0.00751	0.000180	0.000418
Calcium (Ca)-Total (mg/L)	<0.050	31.0	625	254	269
Chromium (Cr)-Total (mg/L)	0.00011 RRV	0.00011	0.00130	0.00043	0.00065
Cobalt (Co)-Total (mg/L)	<0.00010	<0.00010	0.00617	0.00684	0.00844
Copper (Cu)-Total (mg/L)	<0.00050	0.00110	0.0957	0.00132	0.00268
Iron (Fe)-Total (mg/L)	<0.010	0.029	4.49	5.10	18.9
Lead (Pb)-Total (mg/L)	<0.000050	<0.000050	0.153	0.000153	0.000079
Lithium (Li)-Total (mg/L)	<0.0010	<0.0010	0.0200	0.0010	<0.0010

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	L1745321-1	L1745321-2	L1745321-3	L1745321-4	L1745321-5
Description	WATER	WATER	WATER	WATER	WATER
Sampled Date	14-MAR-16	14-MAR-16	14-MAR-16	14-MAR-16	14-MAR-16
Sampled Time	15:45	14:20	14:05	18:25	16:25
Client ID	WQ-VC-UMN	FIELD BLANK	WQ-VC-R+150	WQ-VC-U	WQ-VC-UMN-R
Grouping / **Analyte**					
WATER					
Total Metals Magnesium (Mg)-Total (mg/L)	11.7	<0.10	13.3	9.89	11.9
Manganese (Mn)-Total (mg/L)	0.0115	<0.00010	0.00481	0.108	0.0112
Mercury (Hg)-Total (mg/L)	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Molybdenum (Mo)-Total (mg/L)	0.000331	<0.000050	0.000350	0.000395	0.000435
Nickel (Ni)-Total (mg/L)	<0.00050	<0.00050	<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)	0.96	<0.10	1.16	0.75	1.00
Selenium (Se)-Total (mg/L)	0.000068	<0.000050	0.000064	<0.000050	0.000073
Silicon (Si)-Total (mg/L)	6.74	<0.050	7.43	6.40	6.80
Silver (Ag)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Sodium (Na)-Total (mg/L)	3.67	<0.050	3.99	2.84	3.65
Strontium (Sr)-Total (mg/L)	0.338	<0.00020	0.350	0.323	0.331
Sulfur (S)-Total (mg/L)	12.7	<0.50	14.0	7.77	12.6
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	<0.00030	<0.00030	0.00037	<0.00030
Uranium (U)-Total (mg/L)	0.000520	<0.000010	0.000668	0.000688	0.000511
Vanadium (V)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Zinc (Zn)-Total (mg/L)	0.0035	<0.0030	0.0045	<0.0030	0.0031
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)	0.0046	<0.0010	0.0050	0.0061	0.0044
Antimony (Sb)-Dissolved (mg/L)	0.00046	<0.00010	0.00044	<0.00010	0.00046
Arsenic (As)-Dissolved (mg/L)	0.00119	<0.00010	0.00130	0.00022	0.00131
Barium (Ba)-Dissolved (mg/L)	0.0753	<0.000050	0.0795	0.0841	0.0771
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	<0.010	<0.010	<0.010
Cadmium (Cd)-Dissolved (mg/L)	0.0000210	<0.0000050	0.0000226	0.0000250	0.0000155
Calcium (Ca)-Dissolved (mg/L)	39.8	<0.050	42.3	33.7	39.4
Chromium (Cr)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cobalt (Co)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Copper (Cu)-Dissolved (mg/L)	0.00081	<0.00020	0.00089	0.00096	0.00089
Iron (Fe)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Lithium (Li)-Dissolved (mg/L)	<0.0010	<0.0010	0.0011	<0.0010	<0.0010

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	L1745321-6	L1745321-7	L1745321-8	L1745321-9	L1745321-10
Description	WATER	WATER	WATER	WATER	WATER
Sampled Date		14-MAR-16	15-MAR-16	15-MAR-16	15-MAR-16
Sampled Time		18:00	11:25	10:25	10:50
Client ID	TRAVEL BLANK	WQ-VC-DBC	WQ-TP	WQ-DC-U	WQ-SEEP
Grouping / **Analyte**					
WATER					
Total Metals Magnesium (Mg)-Total (mg/L)	<0.10	10.3	124	61.3	59.5
Manganese (Mn)-Total (mg/L)	<0.00010	0.114	20.4	5.91	6.35
Mercury (Hg)-Total (mg/L)	<0.0000050	<0.0000050	<0.000050 DLM	<0.0000050	<0.0000050
Molybdenum (Mo)-Total (mg/L)	<0.000050	0.000395	0.00627	0.00103	0.00106
Nickel (Ni)-Total (mg/L)	<0.00050	<0.00050	0.0085	0.00290	0.00375
Phosphorus (P)-Total (mg/L)	<0.050	<0.050	0.064	0.063	0.054
Potassium (K)-Total (mg/L)	<0.10	0.82	42.3	5.83	6.34
Selenium (Se)-Total (mg/L)	<0.000050	0.000053	0.00034	0.000173	0.000264
Silicon (Si)-Total (mg/L)	<0.050	6.54	6.91	7.28	7.98
Silver (Ag)-Total (mg/L)	<0.000010	<0.000010	0.00367	0.000025	0.000039
Sodium (Na)-Total (mg/L)	<0.050	2.79	42.7	33.3	36.5
Strontium (Sr)-Total (mg/L)	<0.00020	0.321	1.59	0.777	0.750
Sulfur (S)-Total (mg/L)	<0.50	7.79	645	226	242
Thallium (Tl)-Total (mg/L)	<0.000010	<0.000010	0.000493	<0.000010	<0.000010
Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.00050 DLA	<0.00010	<0.00010
Titanium (Ti)-Total (mg/L)	<0.00030	0.00070	0.0028	0.00243	0.00132
Uranium (U)-Total (mg/L)	<0.000010	0.000691	0.00404	0.00167	0.00177
Vanadium (V)-Total (mg/L)	<0.00050	<0.00050	<0.0025 DLA	0.00149	0.00311
Zinc (Zn)-Total (mg/L)	<0.0030	<0.0030	0.584	0.0471	0.116
Zirconium (Zr)-Total (mg/L)	<0.00030	<0.00030	<0.0015 DLA	0.00038	0.00070
Dissolved Metals Dissolved Mercury Filtration Location		FIELD	FIELD	FIELD	FIELD
Dissolved Metals Filtration Location		FIELD	FIELD	FIELD	FIELD
Aluminum (Al)-Dissolved (mg/L)		0.0059	0.0061	0.0057	0.0095
Antimony (Sb)-Dissolved (mg/L)		<0.00010	0.00646	0.00033	0.00050
Arsenic (As)-Dissolved (mg/L)		0.00024	0.0834	0.0403	0.0773
Barium (Ba)-Dissolved (mg/L)		0.0830	0.0510	0.0668	0.0546
Beryllium (Be)-Dissolved (mg/L)		<0.000020	<0.00010 DLA	<0.000020	<0.000020
Bismuth (Bi)-Dissolved (mg/L)		<0.000050	<0.00025 DLA	<0.000050	<0.000050
Boron (B)-Dissolved (mg/L)		<0.010	0.151	0.041	0.050
Cadmium (Cd)-Dissolved (mg/L)		0.0000229	0.00532	0.000113	0.000277
Calcium (Ca)-Dissolved (mg/L)		33.8	637	253	270
Chromium (Cr)-Dissolved (mg/L)		<0.00010	<0.00050 DLA	0.00027	0.00054
Cobalt (Co)-Dissolved (mg/L)		<0.00010	0.00535	0.00614	0.00802
Copper (Cu)-Dissolved (mg/L)		0.00092	0.0300	0.00061	0.00152
Iron (Fe)-Dissolved (mg/L)		<0.010	0.046	3.17	17.8
Lead (Pb)-Dissolved (mg/L)		<0.000050	0.00030	<0.000050	<0.000050
Lithium (Li)-Dissolved (mg/L)		<0.0010	0.0179	0.0013	0.0011

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ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1745321-1	L1745321-2	L1745321-3	L1745321-4	L1745321-5
	Description	WATER	WATER	WATER	WATER	WATER
	Sampled Date	14-MAR-16	14-MAR-16	14-MAR-16	14-MAR-16	14-MAR-16
	Sampled Time	15:45	14:20	14:05	18:25	16:25
	Client ID	WQ-VC-UMN	FIELD BLANK	WQ-VC-R+150	WQ-VC-U	WQ-VC-UMN-R
Grouping	**Analyte**					
WATER						
Dissolved Metals	Magnesium (Mg)-Dissolved (mg/L)	12.7	<0.10	14.1	10.5	12.7
	Manganese (Mn)-Dissolved (mg/L)	0.0107	<0.00010	0.00461	0.105	0.0105
	Mercury (Hg)-Dissolved (mg/L)	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
	Molybdenum (Mo)-Dissolved (mg/L)	0.000274	<0.000050	0.000297	0.000322	0.000278
	Nickel (Ni)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	1.02	<0.10	1.21	0.80	1.02
	Selenium (Se)-Dissolved (mg/L)	0.000059	<0.000050	0.000055	<0.000050	0.000067
	Silicon (Si)-Dissolved (mg/L)	6.91	<0.050	7.47	6.53	6.85
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	3.71	<0.050	4.06	2.83	3.78
	Strontium (Sr)-Dissolved (mg/L)	0.325	<0.00020	0.342	0.311	0.325
	Sulfur (S)-Dissolved (mg/L)	11.8	<0.50	13.5	7.42	12.4
	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	<0.00030	<0.00030	<0.00030
	Uranium (U)-Dissolved (mg/L)	0.000432	<0.000010	0.000562	0.000556	0.000437
	Vanadium (V)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Zinc (Zn)-Dissolved (mg/L)	0.0030	<0.0010	0.0044	<0.0010	0.0027
	Zirconium (Zr)-Dissolved (mg/L)	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	L1745321-6	L1745321-7	L1745321-8	L1745321-9	L1745321-10
Description	WATER	WATER	WATER	WATER	WATER
Sampled Date		14-MAR-16	15-MAR-16	15-MAR-16	15-MAR-16
Sampled Time		18:00	11:25	10:25	10:50
Client ID	TRAVEL BLANK	WQ-VC-DBC	WQ-TP	WQ-DC-U	WQ-SEEP
Grouping / **Analyte**					
WATER					
Dissolved Metals Magnesium (Mg)-Dissolved (mg/L)		10.9	119	59.9	56.8
Manganese (Mn)-Dissolved (mg/L)		0.112	19.9	5.57	6.36
Mercury (Hg)-Dissolved (mg/L)		<0.0000050	<0.0000050	<0.0000050	<0.0000050
Molybdenum (Mo)-Dissolved (mg/L)		0.000345	0.00678	0.000959	0.00115
Nickel (Ni)-Dissolved (mg/L)		<0.00050	0.0076	0.00252	0.00338
Phosphorus (P)-Dissolved (mg/L)		<0.050	<0.050	<0.050	<0.050
Potassium (K)-Dissolved (mg/L)		0.83	37.8	5.69	6.17
Selenium (Se)-Dissolved (mg/L)		0.000055	<0.00025 DLA	0.000183	0.000237
Silicon (Si)-Dissolved (mg/L)		6.61	6.20	6.94	7.69
Silver (Ag)-Dissolved (mg/L)		<0.000010	<0.000050 DLA	<0.000010	0.000015
Sodium (Na)-Dissolved (mg/L)		2.88	40.8	29.7	33.9
Strontium (Sr)-Dissolved (mg/L)		0.315	1.62	0.715	0.747
Sulfur (S)-Dissolved (mg/L)		7.32	604	217	231
Thallium (Tl)-Dissolved (mg/L)		<0.000010	0.000435	<0.000010	<0.000010
Tin (Sn)-Dissolved (mg/L)		<0.00010	<0.00050 DLA	<0.00010	<0.00010
Titanium (Ti)-Dissolved (mg/L)		<0.00030	<0.0015 DLA	0.00052	0.00095
Uranium (U)-Dissolved (mg/L)		0.000567	0.00401	0.00171	0.00199
Vanadium (V)-Dissolved (mg/L)		<0.00050	<0.0025 DLA	0.00094	0.00228
Zinc (Zn)-Dissolved (mg/L)		<0.0010	0.406	0.0355	0.0957
Zirconium (Zr)-Dissolved (mg/L)		<0.00030	<0.0015 DLA	0.00040	0.00077

* 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	Antimony (Sb)-Dissolved	DLA	L1745321-1, -10, -2, -3, -4, -5, -7, -8, -9
Duplicate	Bismuth (Bi)-Dissolved	DLA	L1745321-1, -10, -2, -3, -4, -5, -7, -8, -9
Duplicate	Chromium (Cr)-Dissolved	DLA	L1745321-1, -10, -2, -3, -4, -5, -7, -8, -9
Duplicate	Lead (Pb)-Dissolved	DLA	L1745321-1, -10, -2, -3, -4, -5, -7, -8, -9
Duplicate	Thallium (Tl)-Dissolved	DLA	L1745321-1, -10, -2, -3, -4, -5, -7, -8, -9
Duplicate	Tin (Sn)-Dissolved	DLA	L1745321-1, -10, -2, -3, -4, -5, -7, -8, -9
Duplicate	Titanium (Ti)-Dissolved	DLA	L1745321-1, -10, -2, -3, -4, -5, -7, -8, -9
Duplicate	Vanadium (V)-Dissolved	DLA	L1745321-1, -10, -2, -3, -4, -5, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1745321-1, -10, -2, -3, -4, -5, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1745321-1, -10, -2, -3, -4, -5, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1745321-1, -10, -2, -3, -4, -5, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1745321-1, -10, -2, -3, -4, -5, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1745321-1, -10, -2, -3, -4, -5, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1745321-1, -10, -2, -3, -4, -5, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1745321-1, -10, -2, -3, -4, -5, -7, -8, -9
Matrix Spike	Aluminum (Al)-Total	MS-B	L1745321-1, -10, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Total	MS-B	L1745321-1, -10, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Total	MS-B	L1745321-1, -10, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Total	MS-B	L1745321-1, -10, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Total	MS-B	L1745321-1, -10, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Silicon (Si)-Dissolved	MS-B	L1745321-1, -10, -2, -3, -4, -5, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1745321-1, -10, -2, -3, -4, -5, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1745321-1, -10, -2, -3, -4, -5, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1745321-1, -10, -2, -3, -4, -5, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1745321-1, -10, -2, -3, -4, -5, -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.
RRV	Reported Result Verified By Repeat Analysis
SFP	Sample was Filtered and Preserved at the laboratory
SP	Sample was Preserved at the laboratory

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

Reference Information

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

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:

Ion Balance (%) = [Cation Sum-Anion Sum] / [Cation Sum+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)

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.

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
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

1 2

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.

Chain of Custody (COC) / Analytical Request Form

ALS Environmental

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L1745321-COFC

COC Number: 14 -

Page ____ of ____

Report To		Report Format / Distribution		Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)
Company:	EDI	Select Report Format:	☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)	R ☑ Regular (Standard TAT if received by 3 pm - business days)
Contact:	Meghan Marjanovic	Quality Control (QC) Report with Report	☐ Yes ☐ No	P ☐ Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT
Address:	2195 - 2nd Avenue Whitehorse, YT Y1A 3T8	☐ Criteria on Report - provide details below if box checked		E ☐ Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT
		Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX	E2 ☐ Same day or weekend emergency - contact ALS to confirm TAT and surcharge
Phone:	867-393-4882	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	Same as Report To ☑ Yes ☑ No	Invoice Distribution		
	Copy of Invoice with Report ☑ Yes ☐ No	Select Invoice Distribution:	☑ EMAIL ☐ MAIL ☐ FAX	
Company:	EDI	Email 1 or Fax	sjenner@edynamics.com	
Contact:	S Jenner	Email 2	mmarjanovic@edynamics.com	
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: DH, MSa, DS.	

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

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					Number of Containers
							P	P	P	P	P	F/P						
	WQ-VC-UMN	14 - Mar -16	15:45	Water	R	R	R	R	R	R	R	R	R					9
	FIELD BLANK	14 - Mar -16	14:20	Water	R	R	R	R	R	R	R	R	R					9
	WQ-VC-R+ISO	14 - Mar -16	14:05	Water	R	R	R	R	R	R	R	R	R					9
	WQ-VC-U	14 - Mar -16	18:25	Water	R	R	R	R	R	R	R	R	R					9
	WQ-VC-UMN-r	14 - Mar -16	16:25	Water	R	R	R	R	R	R	R	R	R					9
	TRAVEL BLANK	✓ - Mar -16	—	Water	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)
Are samples taken from a Regulated DW System? ☐ Yes ☑ No	
Are samples for human drinking water use? ☐ Yes ☑ No	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ SIF Observations Yes ☐ No ☐

Ice packs Yes ☑ No ☐ Custody seal intact Yes ☐ No ☐

Cooling Initiated ☐

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		
0.6	1.2		1.8°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:
	15/03/2016	12:42		15-Mar-11	5:00	Shayan	Mar.17	1830

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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ALS Environmental

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Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

L1745321-COFC

COC Number: 14 -

Page ____ of ____

Report To		Report Format / Distribution		Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)
Company:	EDI	Select Report Format:	☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)	R ☑ Regular (Standard TAT if received by 3 pm - business days)
Contact:	Meghan Marjanovic	Quality Control (QC) Report with Report	☐ Yes ☐ No	P ☐ Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT
Address:	2195 - 2nd Avenue Whitehorse, YT Y1A 3T8	☐ Criteria on Report - provide details below if box checked		E ☐ Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT
		Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX	E2 ☐ Same day or weekend emergency - contact ALS to confirm TAT and surcharge
Phone:	867-393-4882	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	Same as Report To ☑ Yes ☑ No	Invoice Distribution		
	Copy of Invoice with Report ☑ Yes ☐ No	Select Invoice Distribution:	☑ EMAIL ☐ MAIL ☐ FAX	
Company:	EDI	Email 1 or Fax	sjenner@edynamics.com	
Contact:	S Jenner	Email 2	mmarjanovic@edynamics.com	
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: DH, MSA, DS	

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

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	Number of Containers
							P	P	P	P	P	F/P		
	WQ-VC-DBC	14 - Mar -16	18:00	Water	R	R	R	R	R	R	R	R	R	9
	WQ-TP	15 - Mar -16	11:25	Water	R	R	R	R	R	R	R	R	R	9
	WQ-DC-U	15 - Mar -16	10:25	Water	R	R	R	R	R	R	R	R	R	9
	WQ-SEEP	15 - Mar -16	10:50	Water	R	R	R	R	R	R	R	R	R	9
		~~- Mar -16~~		~~Water~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~9~~
		~~- Mar -16~~		~~Water~~	~~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)
Are samples taken from a Regulated DW System? ☐ Yes ☑ No	
Are samples for human drinking water use? ☐ Yes ☑ No	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen	☐	SIF Observations	Yes ☐	No ☐	
Ice packs	Yes ☐	No ☐	Custody seal intact	Yes ☐	No ☐
Cooling Initiated	☐				

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		
			1.8 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:
	15/03/2016	12:47					Mar.17	1830

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