



Environmental Division

Certificate of Analysis

AECOM Canada Ltd. (Winnipeg)
ATTN: CLIFF SAMOILOFF
99 COMMERCE DRIVE
WINNIPEG MB R3P 0Y7

Report Date: 02-SEP-10 14:25 (MT)

Version: FINAL REV. 2

Lab Work Order #: L906225

Date Received: 08-JUL-10

Project P.O. #: NOT SUBMITTED

Job Reference: 60157028

Legal Site Desc:

CofC Numbers:

Other Information:

Comments:

02-SEP-10: Revised Results

Gail Hill
Account Manager

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906225-1 VL-WQ1-B1057028-20100707							
Sampled By: SK, LDB on 07-JUL-10 @ 10:31							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		14-JUL-10	R1361168
Note: Initial pH above the endpoint, pH 8.3							
Ammonia (NH3) - Dissolved	<0.050		0.050	mg/L	08-JUL-10	15-JUL-10	R1368563
Bromide	<0.10		0.10	mg/L	13-JUL-10	13-JUL-10	R1355644
BOD Carbonaceous	<1.0		1.0	mg/L	09-JUL-10	14-JUL-10	R1357245
Chloride (Cl) - Dissolved	<9.0		9.0	mg/L	08-JUL-10	13-JUL-10	R1353203
Hardness (as CaCO3)	51.6		0.30	mg/L		12-JUL-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	15-JUL-10	15-JUL-10	R1388824
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	09-JUL-10	09-JUL-10	R1376324
Nitrate+Nitrite-N - Dissolved	<0.050		0.050	mg/L	08-JUL-10	15-JUL-10	R1368563
Phosphorus, Total	0.0149		0.0030	mg/L		09-JUL-10	R1339487
Silicate (as SiO2)	1.2		1.0	mg/L		15-JUL-10	R1371666
Sulphate (SO4) - Dissolved	<9.0		9.0	mg/L	08-JUL-10	13-JUL-10	R1353203
Total Dissolved Solids	37.5		5.0	mg/L		13-JUL-10	R1355943
Total Inorganic Carbon	6.9		1.0	mg/L		09-JUL-10	R1368626
Total Kjeldahl Nitrogen	0.45		0.20	mg/L	08-JUL-10	13-JUL-10	R1353503
Total Organic Carbon	16.6		1.0	mg/L		09-JUL-10	R1368626
Total Suspended Solids	<5.0		5.0	mg/L		12-JUL-10	R1353684
Color, True	40.0		5.0	T.C.U.		08-JUL-10	R1339163
Turbidity	0.86		0.10	NTU		08-JUL-10	R1337143
Hardness Calculated							
Hardness (as CaCO3)	51.6		0.20	mg/L		12-JUL-10	
Hardness (as CaCO3)	47.5		0.20	mg/L		16-AUG-10	
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0063		0.0050	mg/L	09-JUL-10	10-JUL-10	R1345203
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Arsenic (As)-Total	0.00041		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Barium (Ba)-Total	0.00481		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Boron (B)-Total	<0.010		0.010	mg/L	09-JUL-10	10-JUL-10	R1345203
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	09-JUL-10	10-JUL-10	R1345203
Calcium (Ca)-Total	14.9		0.10	mg/L	09-JUL-10	10-JUL-10	R1345203
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	09-JUL-10	10-JUL-10	R1345203
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Copper (Cu)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Iron (Fe)-Total	0.070		0.020	mg/L	09-JUL-10	10-JUL-10	R1345203
Lead (Pb)-Total	<0.000090		0.000090	mg/L	09-JUL-10	10-JUL-10	R1345203
Lithium (Li)-Total	0.0031		0.0020	mg/L	09-JUL-10	10-JUL-10	R1345203
Magnesium (Mg)-Total	4.67		0.010	mg/L	09-JUL-10	10-JUL-10	R1345203
Manganese (Mn)-Total	0.0232		0.00030	mg/L	09-JUL-10	10-JUL-10	R1345203
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	09-JUL-10	10-JUL-10	R1345203
Phosphorus (P)-Total	<0.20		0.20	mg/L	09-JUL-10	10-JUL-10	R1345203
Potassium (K)-Total	0.816		0.020	mg/L	09-JUL-10	10-JUL-10	R1345203
Rubidium (Rb)-Total	0.00077		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Selenium (Se)-Total	<0.0010		0.0010	mg/L	09-JUL-10	10-JUL-10	R1345203
Silicon (Si)-Total	0.957		0.050	mg/L	09-JUL-10	10-JUL-10	R1345203
Silver (Ag)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906225-1 VL-WQ1-B1057028-20100707							
Sampled By: SK, LDB on 07-JUL-10 @ 10:31							
Matrix: WATER							
Total Metals by ICP-MS							
Sodium (Na)-Total	1.73		0.030	mg/L	09-JUL-10	10-JUL-10	R1345203
Strontium (Sr)-Total	0.0237		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Thorium (Th)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Tin (Sn)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Tungsten (W)-Total	<0.0010		0.0010	mg/L	09-JUL-10	10-JUL-10	R1345203
Uranium (U)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Vanadium (V)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	09-JUL-10	10-JUL-10	R1345203
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	09-JUL-10	10-JUL-10	R1345203
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0023		0.0020	mg/L	08-JUL-10	07-AUG-10	R1421107
Antimony (Sb)-Dissolved	0.00047		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Arsenic (As)-Dissolved	0.00045		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Barium (Ba)-Dissolved	0.00452		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Boron (B)-Dissolved	<0.010		0.010	mg/L	08-JUL-10	07-AUG-10	R1421107
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	08-JUL-10	13-AUG-10	R1439889
Calcium (Ca)-Dissolved	11.7		0.050	mg/L	08-JUL-10	07-AUG-10	R1421107
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	13-AUG-10	R1439889
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	08-JUL-10	07-AUG-10	R1421107
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	08-JUL-10	07-AUG-10	R1421107
Lithium (Li)-Dissolved	0.0027		0.0020	mg/L	08-JUL-10	07-AUG-10	R1421107
Magnesium (Mg)-Dissolved	4.46		0.010	mg/L	08-JUL-10	07-AUG-10	R1421107
Manganese (Mn)-Dissolved	0.00057		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Molybdenum (Mo)-Dissolved	0.00014		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Nickel (Ni)-Dissolved	0.00045		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	08-JUL-10	07-AUG-10	R1421107
Potassium (K)-Dissolved	0.734		0.020	mg/L	08-JUL-10	07-AUG-10	R1421107
Rubidium (Rb)-Dissolved	0.00078		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	08-JUL-10	07-AUG-10	R1421107
Silicon (Si)-Dissolved	0.514		0.050	mg/L	08-JUL-10	07-AUG-10	R1421107
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Sodium (Na)-Dissolved	1.69		0.020	mg/L	08-JUL-10	07-AUG-10	R1421107
Strontium (Sr)-Dissolved	0.0231		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	08-JUL-10	07-AUG-10	R1421107
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Vanadium (V)-Dissolved	0.00024		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	08-JUL-10	07-AUG-10	R1421107
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	08-JUL-10	07-AUG-10	R1421107

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906225-1 VL-WQ1-B1057028-20100707							
Sampled By: SK, LDB on 07-JUL-10 @ 10:31							
Matrix: WATER							
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	1.7		1.0	ug/L	08-JUL-10	13-JUL-10	R1353923
Phaeophytin a	1.8		1.0	ug/L	08-JUL-10	13-JUL-10	R1353923
ODb/ODa	1.3		1.0	ABS Ratio	08-JUL-10	13-JUL-10	R1353923
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	48.7		1.0	mg/L		08-JUL-10	R1337504
Bicarbonate (HCO3)	59.4		2.0	mg/L		08-JUL-10	R1337504
Carbonate (CO3)	<0.60		0.60	mg/L		08-JUL-10	R1337504
Hydroxide (OH)	<0.40		0.40	mg/L		08-JUL-10	R1337504
Conductivity							
Conductivity	96.6		0.40	umhos/cm		08-JUL-10	R1337504
pH							
pH	8.02		0.10	pH units		08-JUL-10	R1337504
L906225-2 VL-WQ2-B1057028-20100707							
Sampled By: SK, LDB on 07-JUL-10 @ 10:31							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		14-JUL-10	R1361168
Note: Initial pH above the endpoint, pH 8.3							
Ammonia (NH3) - Dissolved	<0.050		0.050	mg/L	08-JUL-10	15-JUL-10	R1368563
Bromide	<0.10		0.10	mg/L	13-JUL-10	13-JUL-10	R1355644
BOD Carbonaceous	<1.0		1.0	mg/L	09-JUL-10	14-JUL-10	R1357245
Chloride (Cl) - Dissolved	<9.0		9.0	mg/L	08-JUL-10	13-JUL-10	R1353203
Hardness (as CaCO3)	49.1		0.30	mg/L		12-JUL-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	15-JUL-10	15-JUL-10	R1388824
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	09-JUL-10	09-JUL-10	R1376324
Nitrate+Nitrite-N - Dissolved	<0.050		0.050	mg/L	08-JUL-10	15-JUL-10	R1368563
Phosphorus, Total	0.0123		0.0030	mg/L		09-JUL-10	R1339487
Silicate (as SiO2)	1.4		1.0	mg/L		15-JUL-10	R1371666
Sulphate (SO4) - Dissolved	<9.0		9.0	mg/L	08-JUL-10	13-JUL-10	R1353203
Total Dissolved Solids	30.0		5.0	mg/L		13-JUL-10	R1355943
Total Inorganic Carbon	8.4		1.0	mg/L		09-JUL-10	R1368626
Total Kjeldahl Nitrogen	0.48		0.20	mg/L	08-JUL-10	13-JUL-10	R1353503
Total Organic Carbon	15.9		1.0	mg/L		09-JUL-10	R1368626
Total Suspended Solids	<5.0		5.0	mg/L		12-JUL-10	R1353684
Color, True	35.0		5.0	T.C.U.		08-JUL-10	R1339163
Turbidity	0.92		0.10	NTU		08-JUL-10	R1337143
Hardness Calculated							
Hardness (as CaCO3)	49.1		0.20	mg/L		12-JUL-10	
Hardness (as CaCO3)	47.2		0.20	mg/L		13-AUG-10	
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0067		0.0050	mg/L	09-JUL-10	10-JUL-10	R1345203
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Arsenic (As)-Total	0.00040		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Barium (Ba)-Total	0.00481		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Boron (B)-Total	<0.010		0.010	mg/L	09-JUL-10	10-JUL-10	R1345203
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	09-JUL-10	10-JUL-10	R1345203
Calcium (Ca)-Total	14.1		0.10	mg/L	09-JUL-10	10-JUL-10	R1345203

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906225-2 VL-WQ2-B1057028-20100707							
Sampled By: SK, LDB on 07-JUL-10 @ 10:31							
Matrix: WATER							
Total Metals by ICP-MS							
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	09-JUL-10	10-JUL-10	R1345203
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Copper (Cu)-Total	0.00023		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Iron (Fe)-Total	0.068		0.020	mg/L	09-JUL-10	10-JUL-10	R1345203
Lead (Pb)-Total	<0.000090		0.000090	mg/L	09-JUL-10	10-JUL-10	R1345203
Lithium (Li)-Total	<0.0020		0.0020	mg/L	09-JUL-10	10-JUL-10	R1345203
Magnesium (Mg)-Total	4.63		0.010	mg/L	09-JUL-10	10-JUL-10	R1345203
Manganese (Mn)-Total	0.0236		0.00030	mg/L	09-JUL-10	10-JUL-10	R1345203
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	09-JUL-10	10-JUL-10	R1345203
Phosphorus (P)-Total	<0.20		0.20	mg/L	09-JUL-10	10-JUL-10	R1345203
Potassium (K)-Total	0.812		0.020	mg/L	09-JUL-10	10-JUL-10	R1345203
Rubidium (Rb)-Total	0.00075		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Selenium (Se)-Total	<0.0010		0.0010	mg/L	09-JUL-10	10-JUL-10	R1345203
Silicon (Si)-Total	0.933		0.050	mg/L	09-JUL-10	10-JUL-10	R1345203
Silver (Ag)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Sodium (Na)-Total	1.69		0.030	mg/L	09-JUL-10	10-JUL-10	R1345203
Strontium (Sr)-Total	0.0230		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Thorium (Th)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Tin (Sn)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Tungsten (W)-Total	<0.0010		0.0010	mg/L	09-JUL-10	10-JUL-10	R1345203
Uranium (U)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Vanadium (V)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	09-JUL-10	10-JUL-10	R1345203
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	09-JUL-10	10-JUL-10	R1345203
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0023		0.0020	mg/L	08-JUL-10	07-AUG-10	R1421107
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Arsenic (As)-Dissolved	0.00039		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Barium (Ba)-Dissolved	0.00449		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Boron (B)-Dissolved	<0.010		0.010	mg/L	08-JUL-10	07-AUG-10	R1421107
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	08-JUL-10	07-AUG-10	R1421107
Calcium (Ca)-Dissolved	11.6		0.050	mg/L	08-JUL-10	07-AUG-10	R1421107
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	13-AUG-10	R1438859
Iron (Fe)-Dissolved	0.010		0.010	mg/L	08-JUL-10	07-AUG-10	R1421107
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	08-JUL-10	07-AUG-10	R1421107
Lithium (Li)-Dissolved	0.0039		0.0020	mg/L	08-JUL-10	07-AUG-10	R1421107
Magnesium (Mg)-Dissolved	4.41		0.010	mg/L	08-JUL-10	07-AUG-10	R1421107
Manganese (Mn)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Nickel (Ni)-Dissolved	0.00039		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	08-JUL-10	07-AUG-10	R1421107

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906225-2 VL-WQ2-B1057028-20100707 Sampled By: SK, LDB on 07-JUL-10 @ 10:31 Matrix: WATER							
Dissolved Metals by ICP-MS							
Potassium (K)-Dissolved	0.745		0.020	mg/L	08-JUL-10	07-AUG-10	R1421107
Rubidium (Rb)-Dissolved	0.00074		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	08-JUL-10	07-AUG-10	R1421107
Silicon (Si)-Dissolved	0.531		0.050	mg/L	08-JUL-10	07-AUG-10	R1421107
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Sodium (Na)-Dissolved	1.66		0.020	mg/L	08-JUL-10	07-AUG-10	R1421107
Strontium (Sr)-Dissolved	0.0230		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	08-JUL-10	07-AUG-10	R1421107
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Vanadium (V)-Dissolved	0.00023		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	08-JUL-10	07-AUG-10	R1421107
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	08-JUL-10	07-AUG-10	R1421107
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	2.7		1.0	ug/L	08-JUL-10	13-JUL-10	R1353923
Phaeophytin a	1.3		1.0	ug/L	08-JUL-10	13-JUL-10	R1353923
ODb/ODa	1.5		1.0	ABS Ratio	08-JUL-10	13-JUL-10	R1353923
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	48.0		1.0	mg/L		08-JUL-10	R1337504
Bicarbonate (HCO3)	58.5		2.0	mg/L		08-JUL-10	R1337504
Carbonate (CO3)	<0.60		0.60	mg/L		08-JUL-10	R1337504
Hydroxide (OH)	<0.40		0.40	mg/L		08-JUL-10	R1337504
Conductivity							
Conductivity	95.4		0.40	umhos/cm		08-JUL-10	R1337504
pH							
pH	7.99		0.10	pH units		08-JUL-10	R1337504
L906225-3 VL-WQ3-B1057028-20100707 Sampled By: SK, LDB on 07-JUL-10 @ 10:31 Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		14-JUL-10	R1361168
Note: Initial pH above the endpoint, pH 8.3							
Ammonia (NH3) - Dissolved	<0.050		0.050	mg/L	08-JUL-10	15-JUL-10	R1368563
Bromide	<0.10		0.10	mg/L	13-JUL-10	13-JUL-10	R1355644
BOD Carbonaceous	<1.0		1.0	mg/L	09-JUL-10	14-JUL-10	R1357245
Chloride (Cl) - Dissolved	<9.0		9.0	mg/L	08-JUL-10	13-JUL-10	R1353203
Hardness (as CaCO3)	49.4		0.30	mg/L		12-JUL-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	15-JUL-10	15-JUL-10	R1388824
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	09-JUL-10	09-JUL-10	R1376324
Nitrate+Nitrite-N - Dissolved	<0.050		0.050	mg/L	08-JUL-10	15-JUL-10	R1368563
Phosphorus, Total	<0.010	DLA	0.010	mg/L		09-JUL-10	R1339487
Silicate (as SiO2)	1.3		1.0	mg/L		15-JUL-10	R1371666
Sulphate (SO4) - Dissolved	<9.0		9.0	mg/L	08-JUL-10	13-JUL-10	R1353203
Total Dissolved Solids	52.0		5.0	mg/L		13-JUL-10	R1355943
Total Inorganic Carbon	6.7		1.0	mg/L		09-JUL-10	R1368626

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906225-3 VL-WQ3-B1057028-20100707							
Sampled By: SK, LDB on 07-JUL-10 @ 10:31							
Matrix: WATER							
Total Kjeldahl Nitrogen	0.42		0.20	mg/L	08-JUL-10	13-JUL-10	R1353503
Total Organic Carbon	16.0		1.0	mg/L		09-JUL-10	R1368626
Total Suspended Solids	5.0		5.0	mg/L		12-JUL-10	R1353684
Color, True	40.0		5.0	T.C.U.		08-JUL-10	R1339163
Turbidity	0.77		0.10	NTU		08-JUL-10	R1337143
Hardness Calculated							
Hardness (as CaCO3)	49.4		0.20	mg/L		12-JUL-10	
Hardness (as CaCO3)	47.8		0.20	mg/L		13-AUG-10	
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0085		0.0050	mg/L	09-JUL-10	10-JUL-10	R1345203
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Arsenic (As)-Total	0.00040		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Barium (Ba)-Total	0.00508		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Boron (B)-Total	<0.010		0.010	mg/L	09-JUL-10	10-JUL-10	R1345203
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	09-JUL-10	10-JUL-10	R1345203
Calcium (Ca)-Total	14.3		0.10	mg/L	09-JUL-10	10-JUL-10	R1345203
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	09-JUL-10	10-JUL-10	R1345203
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Copper (Cu)-Total	0.00024		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Iron (Fe)-Total	0.074		0.020	mg/L	09-JUL-10	10-JUL-10	R1345203
Lead (Pb)-Total	<0.000090		0.000090	mg/L	09-JUL-10	10-JUL-10	R1345203
Lithium (Li)-Total	0.0025		0.0020	mg/L	09-JUL-10	10-JUL-10	R1345203
Magnesium (Mg)-Total	4.71		0.010	mg/L	09-JUL-10	10-JUL-10	R1345203
Manganese (Mn)-Total	0.0236		0.00030	mg/L	09-JUL-10	10-JUL-10	R1345203
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	09-JUL-10	10-JUL-10	R1345203
Phosphorus (P)-Total	<0.20		0.20	mg/L	09-JUL-10	10-JUL-10	R1345203
Potassium (K)-Total	0.784		0.020	mg/L	09-JUL-10	10-JUL-10	R1345203
Rubidium (Rb)-Total	0.00078		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Selenium (Se)-Total	<0.0010		0.0010	mg/L	09-JUL-10	10-JUL-10	R1345203
Silicon (Si)-Total	0.531		0.050	mg/L	09-JUL-10	10-JUL-10	R1345203
Silver (Ag)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Sodium (Na)-Total	1.76		0.030	mg/L	09-JUL-10	10-JUL-10	R1345203
Strontium (Sr)-Total	0.0239		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Thorium (Th)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Tin (Sn)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Tungsten (W)-Total	<0.0010		0.0010	mg/L	09-JUL-10	10-JUL-10	R1345203
Uranium (U)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Vanadium (V)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	09-JUL-10	10-JUL-10	R1345203
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	09-JUL-10	10-JUL-10	R1345203
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0020		0.0020	mg/L	08-JUL-10	07-AUG-10	R1421107
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Arsenic (As)-Dissolved	0.00037		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Barium (Ba)-Dissolved	0.00453		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906225-3 VL-WQ3-B1057028-20100707							
Sampled By: SK, LDB on 07-JUL-10 @ 10:31							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Boron (B)-Dissolved	<0.010		0.010	mg/L	08-JUL-10	07-AUG-10	R1421107
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	08-JUL-10	07-AUG-10	R1421107
Calcium (Ca)-Dissolved	11.8		0.050	mg/L	08-JUL-10	07-AUG-10	R1421107
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Copper (Cu)-Dissolved	0.00023		0.00020	mg/L	08-JUL-10	13-AUG-10	R1438859
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	08-JUL-10	07-AUG-10	R1421107
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	08-JUL-10	07-AUG-10	R1421107
Lithium (Li)-Dissolved	0.0040		0.0020	mg/L	08-JUL-10	07-AUG-10	R1421107
Magnesium (Mg)-Dissolved	4.45		0.010	mg/L	08-JUL-10	07-AUG-10	R1421107
Manganese (Mn)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Nickel (Ni)-Dissolved	0.00052		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	08-JUL-10	07-AUG-10	R1421107
Potassium (K)-Dissolved	0.733		0.020	mg/L	08-JUL-10	07-AUG-10	R1421107
Rubidium (Rb)-Dissolved	0.00071		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	08-JUL-10	07-AUG-10	R1421107
Silicon (Si)-Dissolved	0.472		0.050	mg/L	08-JUL-10	07-AUG-10	R1421107
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Sodium (Na)-Dissolved	1.64		0.020	mg/L	08-JUL-10	07-AUG-10	R1421107
Strontium (Sr)-Dissolved	0.0233		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	08-JUL-10	07-AUG-10	R1421107
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Vanadium (V)-Dissolved	0.00021		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	08-JUL-10	07-AUG-10	R1421107
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	08-JUL-10	07-AUG-10	R1421107
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	2.3		1.0	ug/L	08-JUL-10	13-JUL-10	R1353923
Phaeophytin a	1.5		1.0	ug/L	08-JUL-10	13-JUL-10	R1353923
ODb/ODa	1.4		1.0	ABS Ratio	08-JUL-10	13-JUL-10	R1353923
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	48.1		1.0	mg/L		08-JUL-10	R1337504
Bicarbonate (HCO3)	58.7		2.0	mg/L		08-JUL-10	R1337504
Carbonate (CO3)	<0.60		0.60	mg/L		08-JUL-10	R1337504
Hydroxide (OH)	<0.40		0.40	mg/L		08-JUL-10	R1337504
Conductivity							
Conductivity	95.7		0.40	umhos/cm		08-JUL-10	R1337504
pH							
pH	8.00		0.10	pH units		08-JUL-10	R1337504

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Sample Parameter Qualifier Key:

Qualifier	Description
DLA	Detection Limit Adjusted For required dilution

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACIDITY-LOW-WP	Water	Acidity	APHA Method 2310B
ALK-TOT-WP	Water	Alkalinity	APHA 2320B

Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO₃⁻ and H₂CO₃ endpoints indicated electrometrically.

BR-WT	Water	Bromide	EPA 300.0 (IC)
C-TOT-INORG-WP	Water	Total Inorganic Carbon	APHA 5310 B-Instrumental

This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.

The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC.

TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.

C-TOT-ORG-WP	Water	Total Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
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This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.

The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC.

TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.

CHL/A,PHEO/A-ACET-WP	Water	Chlorophyll-a & Pheophytin-a	APHA 10200H, 1998-664/750NM
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Chlorophyll-a is filtered from the sample, then extracted with 90% (v/v) acetone. Absorbance is measured spectrophotometrically at 664 nm and 750 nm. The extract is then acidified, converting chlorophyll-a to pheophytin-a. Absorbance is determined again after acidification. The chlorophyll-a concentration is determined from the decrease in absorbance upon acidification. When a detection limit of 0.5 ug/L is required, the volume of sample filtered is doubled to 700mL.

Samples with an OD664 before/OD665 after acidification ratio (664b/665a) of 1.70 are considered to contain no pheophytin a and to be in excellent physiological condition. Solutions of pure pheophytin show no reduction in OD665 upon acidification and have a 664b/665a ratio of 1.0 Thus, mixtures of chlorophyll a and pheophytin a have absorption peak ratios ranging between 1.0 and 1.7. These ratios are based on the use of 90% acetone as solvent.

CL-DIS-WP	Water	Chloride Dissolved	APHA4500/LACHAT
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The thiocyanate ion is liberated from mercuric thiocyanate by the formation of soluble mercuric chloride. In the presence of ferric ion, the free thiocyanate forms a highly colored ferric thiocyanate complex. The intensity of the complex is proportional to the original chloride concentration and is measured by a colorimeter at 480 nm.

COL-TRU-WP	Water	True Colour	APHA, AWWA, WPCF
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Colour is measured by visual comparison against a routinely calibrated color disk. True color is the color of water from which turbidity has been removed by centrifugation.

CONSULT-BOD-CBOD-WP	Water	Carbonaceous BOD	APHA 5210 B-5 day Incub.-O ₂ electrode
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A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis.

EC-WP	Water	Conductivity	APHA 2510B
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Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
and chemically inert electrodes.			
ETL-HARDNESS-DIS-WP	Water	Hardness Calculated	Calculated
ETL-HARDNESS-TOT-WP	Water	Hardness Calculated	Calculated
HG-D-CVAF-WP	Water	Mercury Dissolved	EPA245.7 V2.0
Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.			
HG-T-CVAF-WP	Water	Mercury Total	EPA245.7 V2.0
Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.			
MET-D-L-MS-WP	Water	Dissolved Metals by ICP-MS	U.S. EPA 200.8-DL
Dissolved Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the Examination of Water and Wastewater method 3030B for filtration through a 0.45 um filter and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.			
MET-T-L-MS-WP	Water	Total Metals by ICP-MS	U.S. EPA 200.8-TL
Total Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the examination of Water and Wastewater Method 3030E and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.			
N-TOTKJ-WP	Water	Total Kjeldahl Nitrogen	Quickchem method 10-107-06-2-E Lachat
Samples are digested with a sulphuric acid solution, cooled, diluted with water, and analyzed for ammonia. Total Kjeldahl nitrogen is the sum of free-ammonia and organic nitrogen compounds which are converted to ammonium sulphate through this digestion process. Analysis is performed by Flow Injection Analysis (FIA). The pH of the digested sample is raised to a known, basic pH by neutralization with a concentrated buffer solution. This neutralization converts the ammonium cation to ammonia. The ammonia produced is heated with salicylate and hypochlorite to produce blue colour which is proportional to the ammonia concentration.			
N2N3-DIS-WP	Water	Nitrate + Nitrite Dissolved	APHA4500;2005/LACHAT;1997,1999
NH3-DIS-WP	Water	Ammonia Dissolved	LACHAT;2003
Ammonia - Colourimetric using Salicylate-nitroprusside and hypochlorite, in an alkaline phosphate buffer.			
P-TOTAL-WP	Water	Phosphorus, Total	APHA, 1998 P-T
Samples are digested using a sulphuric acid-persulfate mixture to convert organic phosphorous to orthophosphate. The samples are analyzed by either the Flow Injection Analysis (FIA) or the Segmented Flow Analysis (SFA) method. The absorbance measured by the instrument is proportional to the concentration of orthophosphate in the sample, and is reported as phosphorous.			
PH-WP	Water	pH	APHA 4500H
pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.			
SILICATE-COL-VA	Water	Silicate by Colourimetric analysis	APHA 4500-SiO2 D.
This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 D. "Silica". Silicate (molybdate-reactive silica) is determined by the molybdosilicate-heteropoly blue colourimetric method.			
SO4-DIS-WP	Water	Sulphate Dissolved	APHA4500/LACHAT
The sample reacts with barium chloride in an acidic medium and precipitates the sulphate ion SO4-2, which forms barium sulphate crystals of uniform			

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
size. The turbidity produced by the sulphate suspension is measured by a colorimeter at 420 nm.			
SOLIDS-TDS-WP	Water	Total Dissolved Solids	APHA 2540
The residue remaining in a prepared casserole after passing the sample through a 1.2 um Whatman GF/C glass microfibre filter and drying at 180 degrees C. Samples may be dried at 105 degrees C if the client specifically requests this drying temperature.			
SOLIDS-TOTSUS-WP	Water	Total Suspended Solids	APHA 2540
The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C.			
TURBIDITY-WP	Water	Turbidity	APHA, 1998, 2130B
A strong light beam is sent through a transparent tube containing the sample. Light that is reflected at 90 degrees to the axis by suspended particles is detected by the photocell. The electrical response is proportional to the sample turbidity.			

** 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
WP	ALS LABORATORY GROUP - WINNIPEG, MANITOBA, CANADA
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA
WT	ALS LABORATORY GROUP - WATERLOO, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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.



Quality Control Report

Workorder: L906225

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACIDITY-LOW-WP		Water						
Batch	R1361168							
WG1134412-1	CVS							
Acidity (as CaCO3)			106		%		85-115	14-JUL-10
WG1134412-2	DUP	L906318-3						
Acidity (as CaCO3)		<1.0	<1.0	RPD-NA	mg/L	N/A	20	14-JUL-10
WG1134412-3	DUP	L906861-2						
Acidity (as CaCO3)		<1.0	<1.0	RPD-NA	mg/L	N/A	20	14-JUL-10
ALK-TOT-WP		Water						
Batch	R1337504							
WG1131558-5	CVS							
Alkalinity, Total (as CaCO3)			101		%		85-115	08-JUL-10
WG1131558-6	CVS							
Alkalinity, Total (as CaCO3)			104		%		85-115	08-JUL-10
WG1131558-10	DUP	L904946-1						
Alkalinity, Total (as CaCO3)		20.9	20.9		mg/L	0.14	20	08-JUL-10
Bicarbonate (HCO3)		25.5	25.5		mg/L	0.14	26	08-JUL-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	08-JUL-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	08-JUL-10
WG1131558-7	DUP	L906125-1						
Alkalinity, Total (as CaCO3)		592	595		mg/L	0.44	20	08-JUL-10
Bicarbonate (HCO3)		723	726		mg/L	0.44	26	08-JUL-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	08-JUL-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	08-JUL-10
WG1131558-8	DUP	L906225-1						
Alkalinity, Total (as CaCO3)		48.7	48.7		mg/L	0.0	20	08-JUL-10
Bicarbonate (HCO3)		59.4	59.4		mg/L	0.0	26	08-JUL-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	08-JUL-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	08-JUL-10
WG1131558-9	DUP	L906318-3						
Alkalinity, Total (as CaCO3)		49.1	49.1		mg/L	0.081	20	08-JUL-10
Bicarbonate (HCO3)		59.9	60.0		mg/L	0.081	26	08-JUL-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	08-JUL-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	08-JUL-10
BR-WT		Water						



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BR-WT		Water						
Batch	R1355644							
WG1133139-3	LCS							
Bromide			97		%		75-125	13-JUL-10
WG1133139-4	LCSD	WG1133139-3						
Bromide		97	98		%	1.3	30	13-JUL-10
WG1133139-1	MB							
Bromide			<0.10		mg/L		0.1	13-JUL-10
C-TOT-INORG-WP		Water						
Batch	R1368626							
WG1135305-3	CCV							
Total Inorganic Carbon			102		%		80-120	08-JUL-10
WG1135305-2	CVS							
Total Inorganic Carbon			92		%		80-120	08-JUL-10
WG1135305-11	DUP	WG1135305-10						
Total Inorganic Carbon		1.7	1.9	J	mg/L	0.1	4	09-JUL-10
WG1135305-5	DUP	WG1135305-4						
Total Inorganic Carbon		69.3	69.9		mg/L	0.87	20	08-JUL-10
WG1135305-7	DUP	WG1135305-6						
Total Inorganic Carbon		4.7	4.8	J	mg/L	0.1	4	08-JUL-10
WG1135305-9	DUP	WG1135305-8						
Total Inorganic Carbon		56.2	56.6		mg/L	0.56	20	08-JUL-10
WG1135305-1	MB							
Total Inorganic Carbon			<1.0		mg/L		1	08-JUL-10
C-TOT-ORG-WP		Water						
Batch	R1368626							
WG1135305-3	CCV							
Total Organic Carbon			101		%		63-138	08-JUL-10
WG1135305-2	CVS							
Total Organic Carbon			99		%		80-120	08-JUL-10
WG1135305-11	DUP	WG1135305-10						
Total Organic Carbon		3.7	3.6	J	mg/L	0.1	4	09-JUL-10
WG1135305-5	DUP	WG1135305-4						
Total Organic Carbon		21.4	21.4		mg/L	0.41	20	08-JUL-10
WG1135305-7	DUP	WG1135305-6						
Total Organic Carbon		17.2	17.0		mg/L	1.2	20	08-JUL-10
WG1135305-9	DUP	WG1135305-8						
Total Organic Carbon		14.6	14.5		mg/L	1.0	20	08-JUL-10
WG1135305-1	MB							
Total Organic Carbon			<1.0				1	



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
C-TOT-ORG-WP								
	Water							
Batch	R1368626							
WG1135305-1	MB							
Total Organic Carbon			<1.0		mg/L		1	08-JUL-10
CHL/A,PHEO/A-ACET-WP								
	Water							
Batch	R1353923							
WG1133036-1	CVS							
Chlorophyll a			102		%		65-135	13-JUL-10
WG1133036-2	CVS							
Chlorophyll a			106		%		65-135	13-JUL-10
CL-DIS-WP								
	Water							
Batch	R1353203							
WG1133432-3	CCV							
Chloride (Cl) - Dissolved			98		%		85-115	13-JUL-10
WG1133432-2	CVS							
Chloride (Cl) - Dissolved			98		%		85-115	13-JUL-10
WG1133412-1	MB							
Chloride (Cl) - Dissolved			<9.0		mg/L		9	13-JUL-10
COL-TRU-WP								
	Water							
Batch	R1339163							
WG1131807-3	DUP	L906225-3						
Color, True		40.0	40.0	J	T.C.U.	0.0	20	08-JUL-10
WG1131807-1	MB							
Color, True			<5.0		T.C.U.		5	08-JUL-10
CONSULT-BOD-CBOD-WP								
	Water							
Batch	R1357245							
WG1131563-3	DUP	L906225-1						
BOD Carbonaceous		<1.0	<1.0	RPD-NA	mg/L	N/A	20	14-JUL-10
WG1131563-2	IRM	61-GG						
BOD Carbonaceous			100		%		85-115	14-JUL-10
WG1131563-1	MB							
BOD Carbonaceous			<1.0		mg/L		1	14-JUL-10
EC-WP								
	Water							
Batch	R1337504							
WG1131558-2	CCV							
Conductivity			103		%		95-105	08-JUL-10
WG1131558-1	CVS							
Conductivity			99		%		90-110	08-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-WP								
	Water							
Batch	R1337504							
WG1131558-7	DUP	L906125-1						
Conductivity		2580	2580		umhos/cm	0.11	10	08-JUL-10
WG1131558-8	DUP	L906225-1						
Conductivity		96.6	96.6		umhos/cm	0.0	10	08-JUL-10
WG1131558-9	DUP	L906318-3						
Conductivity		97.8	97.8		umhos/cm	0.0	10	08-JUL-10
HG-D-CVAF-WP								
	Water							
Batch	R1388824							
WG1137638-2	DUP	L907120-4						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	15-JUL-10
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	15-JUL-10
WG1137641-2	LCS							
Mercury (Hg)-Dissolved			95		%		63-138	15-JUL-10
Mercury (Hg)-Dissolved			95		%		63-138	15-JUL-10
WG1137638-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	15-JUL-10
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	15-JUL-10
WG1137641-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	15-JUL-10
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	15-JUL-10
WG1137638-3	MS	L907120-4						
Mercury (Hg)-Dissolved			99		%		70-130	15-JUL-10
Mercury (Hg)-Dissolved			99		%		70-130	15-JUL-10
HG-T-CVAF-WP								
	Water							
Batch	R1376324							
WG1136166-4	DUP	L906048-2						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	09-JUL-10
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	09-JUL-10
WG1136166-2	LCS							
Mercury (Hg)-Total			90		%		63-138	09-JUL-10
Mercury (Hg)-Total			90		%		63-138	09-JUL-10
WG1136166-1	MB							
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	09-JUL-10
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	09-JUL-10
WG1136166-3	MS	L906048-2						
Mercury (Hg)-Total			98		%		70-130	09-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-T-CVAF-WP								
	Water							
Batch	R1376324							
WG1136166-3 MS		L906048-2						
Mercury (Hg)-Total			98		%		70-130	09-JUL-10
MET-D-L-MS-WP								
	Water							
Batch	R1421107							
WG1146960-3 CCV								
Aluminum (Al)-Dissolved			97		%		90-110	06-AUG-10
Antimony (Sb)-Dissolved			98		%		90-110	06-AUG-10
Arsenic (As)-Dissolved			97		%		90-110	06-AUG-10
Barium (Ba)-Dissolved			98		%		90-110	06-AUG-10
Beryllium (Be)-Dissolved			103		%		90-110	06-AUG-10
Bismuth (Bi)-Dissolved			97		%		90-110	06-AUG-10
Boron (B)-Dissolved			97		%		90-110	06-AUG-10
Cadmium (Cd)-Dissolved			99		%		90-110	06-AUG-10
Calcium (Ca)-Dissolved			104		%		90-110	06-AUG-10
Cesium (Cs)-Dissolved			95		%		90-110	06-AUG-10
Chromium (Cr)-Dissolved			102		%		90-110	06-AUG-10
Cobalt (Co)-Dissolved			101		%		90-110	06-AUG-10
Iron (Fe)-Dissolved			102		%		90-110	06-AUG-10
Lead (Pb)-Dissolved			100		%		90-110	06-AUG-10
Lithium (Li)-Dissolved			107		%		90-110	06-AUG-10
Magnesium (Mg)-Dissolved			99		%		90-110	06-AUG-10
Manganese (Mn)-Dissolved			101		%		90-110	06-AUG-10
Molybdenum (Mo)-Dissolved			96		%		90-110	06-AUG-10
Nickel (Ni)-Dissolved			100		%		90-110	06-AUG-10
Phosphorus (P)-Dissolved			100		%		90-110	06-AUG-10
Potassium (K)-Dissolved			100		%		90-110	06-AUG-10
Rubidium (Rb)-Dissolved			100		%		90-110	06-AUG-10
Selenium (Se)-Dissolved			97		%		90-110	06-AUG-10
Silicon (Si)-Dissolved			98		%		90-110	06-AUG-10
Silver (Ag)-Dissolved			97		%		90-110	06-AUG-10
Sodium (Na)-Dissolved			101		%		90-110	06-AUG-10
Strontium (Sr)-Dissolved			100		%		90-110	06-AUG-10
Tellurium (Te)-Dissolved			101		%		90-110	06-AUG-10
Thallium (Tl)-Dissolved			98		%		90-110	06-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1421107							
WG1146960-3	CCV							
Thorium (Th)-Dissolved			92		%		63-138	06-AUG-10
Tin (Sn)-Dissolved			96		%		90-110	06-AUG-10
Titanium (Ti)-Dissolved			96		%		90-110	06-AUG-10
Tungsten (W)-Dissolved			99		%		90-110	06-AUG-10
Uranium (U)-Dissolved			95		%		90-110	06-AUG-10
Vanadium (V)-Dissolved			98		%		90-110	06-AUG-10
Zinc (Zn)-Dissolved			100		%		90-110	06-AUG-10
Zirconium (Zr)-Dissolved			95		%		90-110	06-AUG-10
WG1146960-1	CVS							
Aluminum (Al)-Dissolved			96		%		80-120	06-AUG-10
Antimony (Sb)-Dissolved			102		%		80-120	06-AUG-10
Arsenic (As)-Dissolved			98		%		80-120	06-AUG-10
Barium (Ba)-Dissolved			105		%		80-120	06-AUG-10
Beryllium (Be)-Dissolved			98		%		80-120	06-AUG-10
Bismuth (Bi)-Dissolved			103		%		80-120	06-AUG-10
Boron (B)-Dissolved			101		%		80-120	06-AUG-10
Cadmium (Cd)-Dissolved			98		%		80-120	06-AUG-10
Calcium (Ca)-Dissolved			101		%		80-120	06-AUG-10
Cesium (Cs)-Dissolved			98		%		80-120	06-AUG-10
Chromium (Cr)-Dissolved			98		%		80-120	06-AUG-10
Cobalt (Co)-Dissolved			100		%		80-120	06-AUG-10
Iron (Fe)-Dissolved			99		%		80-120	06-AUG-10
Lead (Pb)-Dissolved			103		%		80-120	06-AUG-10
Lithium (Li)-Dissolved			97		%		80-120	06-AUG-10
Magnesium (Mg)-Dissolved			103		%		80-120	06-AUG-10
Manganese (Mn)-Dissolved			97		%		80-120	06-AUG-10
Molybdenum (Mo)-Dissolved			95		%		80-120	06-AUG-10
Nickel (Ni)-Dissolved			102		%		80-120	06-AUG-10
Phosphorus (P)-Dissolved			98		%		80-120	06-AUG-10
Potassium (K)-Dissolved			105		%		80-120	06-AUG-10
Rubidium (Rb)-Dissolved			96		%		80-120	06-AUG-10
Selenium (Se)-Dissolved			99		%		80-120	06-AUG-10
Silicon (Si)-Dissolved			98		%		63-138	06-AUG-10
Silver (Ag)-Dissolved			95		%		63-138	06-AUG-10



Quality Control Report

Workorder: L906225

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1421107							
WG1146960-1 CVS								
Sodium (Na)-Dissolved			103		%		80-120	06-AUG-10
Strontium (Sr)-Dissolved			96		%		80-120	06-AUG-10
Tellurium (Te)-Dissolved			100		%		80-120	06-AUG-10
Thallium (Tl)-Dissolved			100		%		80-120	06-AUG-10
Thorium (Th)-Dissolved			100		%		63-138	06-AUG-10
Tin (Sn)-Dissolved			92		%		80-120	06-AUG-10
Titanium (Ti)-Dissolved			93		%		80-120	06-AUG-10
Tungsten (W)-Dissolved			100		%		80-120	06-AUG-10
Uranium (U)-Dissolved			99		%		80-120	06-AUG-10
Vanadium (V)-Dissolved			97		%		80-120	06-AUG-10
Zinc (Zn)-Dissolved			99		%		80-120	06-AUG-10
Zirconium (Zr)-Dissolved			93		%		80-120	06-AUG-10
WG1146960-2 CVS								
Aluminum (Al)-Dissolved			106		%		80-120	06-AUG-10
Antimony (Sb)-Dissolved			104		%		80-120	06-AUG-10
Arsenic (As)-Dissolved			99		%		80-120	06-AUG-10
Barium (Ba)-Dissolved			101		%		80-120	06-AUG-10
Beryllium (Be)-Dissolved			101		%		80-120	06-AUG-10
Bismuth (Bi)-Dissolved			103		%		80-120	06-AUG-10
Boron (B)-Dissolved			100		%		80-120	06-AUG-10
Cadmium (Cd)-Dissolved			103		%		80-120	06-AUG-10
Calcium (Ca)-Dissolved			101		%		80-120	06-AUG-10
Cesium (Cs)-Dissolved			101		%		80-120	06-AUG-10
Chromium (Cr)-Dissolved			100		%		80-120	06-AUG-10
Cobalt (Co)-Dissolved			105		%		80-120	06-AUG-10
Iron (Fe)-Dissolved			103		%		80-120	06-AUG-10
Lead (Pb)-Dissolved			104		%		80-120	06-AUG-10
Lithium (Li)-Dissolved			95		%		80-120	06-AUG-10
Magnesium (Mg)-Dissolved			97		%		80-120	06-AUG-10
Manganese (Mn)-Dissolved			100		%		80-120	06-AUG-10
Molybdenum (Mo)-Dissolved			101		%		80-120	06-AUG-10
Nickel (Ni)-Dissolved			100		%		80-120	06-AUG-10
Phosphorus (P)-Dissolved			99		%		80-120	06-AUG-10
Potassium (K)-Dissolved			101		%		80-120	06-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1421107							
WG1146960-2	CVS							
Rubidium (Rb)-Dissolved			109		%		80-120	06-AUG-10
Selenium (Se)-Dissolved			97		%		80-120	06-AUG-10
Silicon (Si)-Dissolved			102		%		63-138	06-AUG-10
Silver (Ag)-Dissolved			100		%		63-138	06-AUG-10
Sodium (Na)-Dissolved			98		%		80-120	06-AUG-10
Strontium (Sr)-Dissolved			104		%		80-120	06-AUG-10
Tellurium (Te)-Dissolved			98		%		80-120	06-AUG-10
Thallium (Tl)-Dissolved			103		%		80-120	06-AUG-10
Thorium (Th)-Dissolved			103		%		63-138	06-AUG-10
Tin (Sn)-Dissolved			99		%		80-120	06-AUG-10
Titanium (Ti)-Dissolved			94		%		80-120	06-AUG-10
Tungsten (W)-Dissolved			103		%		80-120	06-AUG-10
Uranium (U)-Dissolved			103		%		80-120	06-AUG-10
Vanadium (V)-Dissolved			102		%		80-120	06-AUG-10
Zinc (Zn)-Dissolved			100		%		80-120	06-AUG-10
Zirconium (Zr)-Dissolved			102		%		80-120	06-AUG-10
WG1146953-3	DUP		WG1146953-2					
Aluminum (Al)-Dissolved		0.0031	0.0029	J	mg/L	0.0001	0.008	07-AUG-10
Antimony (Sb)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Arsenic (As)-Dissolved		0.00110	0.00107	J	mg/L	0.00003	0.0008	07-AUG-10
Barium (Ba)-Dissolved		0.0150	0.0152		mg/L	1.5	20	07-AUG-10
Beryllium (Be)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Bismuth (Bi)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Boron (B)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	07-AUG-10
Cadmium (Cd)-Dissolved		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	07-AUG-10
Calcium (Ca)-Dissolved		16.6	16.2		mg/L	2.3	20	07-AUG-10
Cesium (Cs)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	07-AUG-10
Chromium (Cr)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Cobalt (Co)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Iron (Fe)-Dissolved		0.065	0.063	J	mg/L	0.002	0.04	07-AUG-10
Lead (Pb)-Dissolved		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	07-AUG-10
Lithium (Li)-Dissolved		0.0047	0.0041	J	mg/L	0.0007	0.008	07-AUG-10
Magnesium (Mg)-Dissolved		5.50	5.34		mg/L	3.1	20	07-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1421107							
WG1146953-3	DUP	WG1146953-2						
Manganese (Mn)-Dissolved		0.00047	0.00046	J	mg/L	0.00001	0.0008	07-AUG-10
Molybdenum (Mo)-Dissolved		0.00017	0.00017	J	mg/L	0.00000	0.0004	07-AUG-10
Nickel (Ni)-Dissolved		0.00069	0.00057	J	mg/L	0.00012	0.0008	07-AUG-10
Phosphorus (P)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	20	07-AUG-10
Potassium (K)-Dissolved		2.18	2.07		mg/L	5.5	20	07-AUG-10
Rubidium (Rb)-Dissolved		0.00193	0.00196	J	mg/L	0.00003	0.0008	07-AUG-10
Selenium (Se)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	07-AUG-10
Silicon (Si)-Dissolved		1.98	2.11		mg/L	6.2	20	07-AUG-10
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	07-AUG-10
Sodium (Na)-Dissolved		4.52	4.44		mg/L	1.7	20	07-AUG-10
Strontium (Sr)-Dissolved		0.0362	0.0365		mg/L	1.0	20	07-AUG-10
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	07-AUG-10
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	07-AUG-10
Tin (Sn)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Titanium (Ti)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Tungsten (W)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	07-AUG-10
Uranium (U)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	07-AUG-10
Vanadium (V)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Zinc (Zn)-Dissolved		0.0091	0.0088	J	mg/L	0.0004	0.008	07-AUG-10
Zirconium (Zr)-Dissolved		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	07-AUG-10
WG1146953-4	LCS							
Aluminum (Al)-Dissolved			94		%		80-120	07-AUG-10
Antimony (Sb)-Dissolved			100		%		80-120	07-AUG-10
Arsenic (As)-Dissolved			99		%		80-120	07-AUG-10
Barium (Ba)-Dissolved			102		%		80-120	07-AUG-10
Beryllium (Be)-Dissolved			103		%		80-120	07-AUG-10
Bismuth (Bi)-Dissolved			101		%		80-120	07-AUG-10
Boron (B)-Dissolved			103		%		80-120	07-AUG-10
Cadmium (Cd)-Dissolved			96		%		80-120	07-AUG-10
Calcium (Ca)-Dissolved			95		%		80-120	07-AUG-10
Cesium (Cs)-Dissolved			100		%		80-120	07-AUG-10
Chromium (Cr)-Dissolved			101		%		80-120	07-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1421107							
WG1146953-4	LCS							
Cobalt (Co)-Dissolved			102		%		80-120	07-AUG-10
Iron (Fe)-Dissolved			111		%		80-120	07-AUG-10
Lead (Pb)-Dissolved			97		%		80-120	07-AUG-10
Lithium (Li)-Dissolved			98		%		80-120	07-AUG-10
Magnesium (Mg)-Dissolved			102		%		80-120	07-AUG-10
Manganese (Mn)-Dissolved			99		%		80-120	07-AUG-10
Molybdenum (Mo)-Dissolved			100		%		80-120	07-AUG-10
Nickel (Ni)-Dissolved			98		%		80-120	07-AUG-10
Phosphorus (P)-Dissolved			106		%		80-120	07-AUG-10
Potassium (K)-Dissolved			104		%		80-120	07-AUG-10
Rubidium (Rb)-Dissolved			97		%		80-120	07-AUG-10
Selenium (Se)-Dissolved			100		%		80-120	07-AUG-10
Silicon (Si)-Dissolved			107		%		80-120	07-AUG-10
Silver (Ag)-Dissolved			96		%		80-120	07-AUG-10
Sodium (Na)-Dissolved			102		%		80-120	07-AUG-10
Strontium (Sr)-Dissolved			96		%		80-120	07-AUG-10
Tellurium (Te)-Dissolved			99		%		80-120	07-AUG-10
Thallium (Tl)-Dissolved			104		%		80-120	07-AUG-10
Thorium (Th)-Dissolved			93		%		80-120	07-AUG-10
Tin (Sn)-Dissolved			98		%		80-120	07-AUG-10
Titanium (Ti)-Dissolved			99		%		80-120	07-AUG-10
Tungsten (W)-Dissolved			99		%		80-120	07-AUG-10
Uranium (U)-Dissolved			93		%		80-120	07-AUG-10
Vanadium (V)-Dissolved			102		%		80-120	07-AUG-10
Zinc (Zn)-Dissolved			101		%		80-120	07-AUG-10
Zirconium (Zr)-Dissolved			98		%		80-120	07-AUG-10
WG1146953-1	MB							
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.002	07-AUG-10
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Arsenic (As)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Boron (B)-Dissolved			<0.010		mg/L		0.01	07-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch R1421107								
WG1146953-1 MB								
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.00001	07-AUG-10
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	07-AUG-10
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Chromium (Cr)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	07-AUG-10
Lead (Pb)-Dissolved			<0.000090		mg/L		0.00009	07-AUG-10
Lithium (Li)-Dissolved			<0.0020		mg/L		0.002	07-AUG-10
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.01	07-AUG-10
Manganese (Mn)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Nickel (Ni)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Phosphorus (P)-Dissolved			<0.10		mg/L		0.1	07-AUG-10
Potassium (K)-Dissolved			<0.020		mg/L		0.02	07-AUG-10
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Selenium (Se)-Dissolved			<0.0010		mg/L		0.001	07-AUG-10
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	07-AUG-10
Silver (Ag)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Sodium (Na)-Dissolved			<0.020		mg/L		0.02	07-AUG-10
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Tin (Sn)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Titanium (Ti)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Tungsten (W)-Dissolved			<0.0010		mg/L		0.001	07-AUG-10
Uranium (U)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Vanadium (V)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Zinc (Zn)-Dissolved			<0.0020		mg/L		0.002	07-AUG-10
Zirconium (Zr)-Dissolved			<0.00040		mg/L		0.0004	07-AUG-10
Batch R1438859								
WG1149656-3 CCV								
Copper (Cu)-Dissolved			105		%		90-110	12-AUG-10
WG1149656-1 CVS								



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1438859							
WG1149656-1	CVS							
Copper (Cu)-Dissolved			106		%		80-120	12-AUG-10
WG1149656-2	CVS							
Copper (Cu)-Dissolved			99		%		80-120	12-AUG-10
Batch	R1439889							
WG1150660-4	CCV							
Cadmium (Cd)-Dissolved			101		%		90-110	13-AUG-10
Copper (Cu)-Dissolved			101		%		90-110	13-AUG-10
WG1150660-2	CVS							
Cadmium (Cd)-Dissolved			103		%		80-120	13-AUG-10
Copper (Cu)-Dissolved			103		%		80-120	13-AUG-10
WG1150660-3	CVS							
Cadmium (Cd)-Dissolved			101		%		80-120	13-AUG-10
Copper (Cu)-Dissolved			99		%		80-120	13-AUG-10
MET-T-L-MS-WP		Water						
Batch	R1345203							
WG1132514-3	CCV							
Aluminum (Al)-Total			93		%		90-110	09-JUL-10
Antimony (Sb)-Total			100		%		90-110	09-JUL-10
Arsenic (As)-Total			99		%		90-110	09-JUL-10
Barium (Ba)-Total			98		%		90-110	09-JUL-10
Beryllium (Be)-Total			93		%		90-110	09-JUL-10
Bismuth (Bi)-Total			93		%		90-110	09-JUL-10
Boron (B)-Total			97		%		90-110	09-JUL-10
Cadmium (Cd)-Total			100		%		90-110	09-JUL-10
Calcium (Ca)-Total			96		%		90-110	09-JUL-10
Cesium (Cs)-Total			96		%		90-110	09-JUL-10
Chromium (Cr)-Total			97		%		90-110	09-JUL-10
Cobalt (Co)-Total			101		%		90-110	09-JUL-10
Copper (Cu)-Total			103		%		90-110	09-JUL-10
Iron (Fe)-Total			99		%		90-110	09-JUL-10
Lead (Pb)-Total			97		%		90-110	09-JUL-10
Lithium (Li)-Total			92		%		90-110	09-JUL-10
Magnesium (Mg)-Total			105		%		90-110	09-JUL-10
Manganese (Mn)-Total			99		%		90-110	09-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1345203							
WG1132514-3	CCV							
Molybdenum (Mo)-Total			101		%		90-110	09-JUL-10
Nickel (Ni)-Total			102		%		90-110	09-JUL-10
Phosphorus (P)-Total			101		%		90-110	09-JUL-10
Potassium (K)-Total			102		%		90-110	09-JUL-10
Rubidium (Rb)-Total			97		%		90-110	09-JUL-10
Selenium (Se)-Total			102		%		90-110	09-JUL-10
Silicon (Si)-Total			96		%		90-110	09-JUL-10
Silver (Ag)-Total			101		%		90-110	09-JUL-10
Sodium (Na)-Total			102		%		90-110	09-JUL-10
Strontium (Sr)-Total			100		%		90-110	09-JUL-10
Tellurium (Te)-Total			100		%		90-110	09-JUL-10
Thallium (Tl)-Total			98		%		90-110	09-JUL-10
Thorium (Th)-Total			98		%		63-138	09-JUL-10
Tin (Sn)-Total			101		%		90-110	09-JUL-10
Titanium (Ti)-Total			100		%		90-110	09-JUL-10
Tungsten (W)-Total			95		%		90-110	09-JUL-10
Uranium (U)-Total			97		%		90-110	09-JUL-10
Vanadium (V)-Total			99		%		90-110	09-JUL-10
Zinc (Zn)-Total			102		%		90-110	09-JUL-10
Zirconium (Zr)-Total			97		%		90-110	09-JUL-10
WG1132514-1	CVS							
Aluminum (Al)-Total			93		%		63-138	09-JUL-10
Antimony (Sb)-Total			96		%		63-138	09-JUL-10
Arsenic (As)-Total			99		%		63-138	09-JUL-10
Barium (Ba)-Total			96		%		63-138	09-JUL-10
Beryllium (Be)-Total			102		%		63-138	09-JUL-10
Bismuth (Bi)-Total			92		%		63-138	09-JUL-10
Boron (B)-Total			104		%		63-138	09-JUL-10
Cadmium (Cd)-Total			95		%		63-138	09-JUL-10
Calcium (Ca)-Total			98		%		63-138	09-JUL-10
Cesium (Cs)-Total			94		%		63-138	09-JUL-10
Chromium (Cr)-Total			98		%		63-138	09-JUL-10
Cobalt (Co)-Total			101		%		63-138	09-JUL-10
Copper (Cu)-Total			101		%		63-138	09-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1345203							
WG1132514-1	CVS							
Iron (Fe)-Total			98		%		63-138	09-JUL-10
Lead (Pb)-Total			96		%		63-138	09-JUL-10
Lithium (Li)-Total			106		%		63-138	09-JUL-10
Magnesium (Mg)-Total			101		%		63-138	09-JUL-10
Manganese (Mn)-Total			96		%		63-138	09-JUL-10
Molybdenum (Mo)-Total			96		%		63-138	09-JUL-10
Nickel (Ni)-Total			99		%		63-138	09-JUL-10
Phosphorus (P)-Total			100		%		63-138	09-JUL-10
Potassium (K)-Total			99		%		63-138	09-JUL-10
Rubidium (Rb)-Total			93		%		63-138	09-JUL-10
Selenium (Se)-Total			101		%		63-138	09-JUL-10
Silicon (Si)-Total			99		%		63-138	09-JUL-10
Silver (Ag)-Total			94		%		63-138	09-JUL-10
Sodium (Na)-Total			101		%		63-138	09-JUL-10
Strontium (Sr)-Total			91		%		63-138	09-JUL-10
Tellurium (Te)-Total			97		%		63-138	09-JUL-10
Thallium (Tl)-Total			94		%		63-138	09-JUL-10
Thorium (Th)-Total			98		%		63-138	09-JUL-10
Tin (Sn)-Total			93		%		63-138	09-JUL-10
Titanium (Ti)-Total			98		%		63-138	09-JUL-10
Tungsten (W)-Total			95		%		63-138	09-JUL-10
Uranium (U)-Total			91		%		63-138	09-JUL-10
Vanadium (V)-Total			97		%		63-138	09-JUL-10
Zinc (Zn)-Total			98		%		63-138	09-JUL-10
Zirconium (Zr)-Total			92		%		63-138	09-JUL-10
WG1132514-2	CVS							
Aluminum (Al)-Total			100		%		63-138	09-JUL-10
Antimony (Sb)-Total			103		%		63-138	09-JUL-10
Arsenic (As)-Total			99		%		63-138	09-JUL-10
Barium (Ba)-Total			102		%		63-138	09-JUL-10
Beryllium (Be)-Total			103		%		63-138	09-JUL-10
Bismuth (Bi)-Total			101		%		63-138	09-JUL-10
Boron (B)-Total			101		%		63-138	09-JUL-10
Cadmium (Cd)-Total			100		%		63-138	09-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1345203							
WG1132514-2	CVS							
Calcium (Ca)-Total			102		%		63-138	09-JUL-10
Cesium (Cs)-Total			102		%		63-138	09-JUL-10
Chromium (Cr)-Total			101		%		63-138	09-JUL-10
Cobalt (Co)-Total			102		%		63-138	09-JUL-10
Copper (Cu)-Total			101		%		63-138	09-JUL-10
Iron (Fe)-Total			102		%		63-138	09-JUL-10
Lead (Pb)-Total			104		%		63-138	09-JUL-10
Lithium (Li)-Total			101		%		63-138	09-JUL-10
Magnesium (Mg)-Total			101		%		63-138	09-JUL-10
Manganese (Mn)-Total			102		%		63-138	09-JUL-10
Molybdenum (Mo)-Total			103		%		63-138	09-JUL-10
Nickel (Ni)-Total			99		%		63-138	09-JUL-10
Phosphorus (P)-Total			100		%		63-138	09-JUL-10
Potassium (K)-Total			101		%		63-138	09-JUL-10
Rubidium (Rb)-Total			101		%		63-138	09-JUL-10
Selenium (Se)-Total			100		%		63-138	09-JUL-10
Silicon (Si)-Total			104		%		63-138	09-JUL-10
Silver (Ag)-Total			102		%		63-138	09-JUL-10
Sodium (Na)-Total			102		%		63-138	09-JUL-10
Strontium (Sr)-Total			101		%		63-138	09-JUL-10
Tellurium (Te)-Total			101		%		63-138	09-JUL-10
Thallium (Tl)-Total			102		%		63-138	09-JUL-10
Thorium (Th)-Total			102		%		63-138	09-JUL-10
Tin (Sn)-Total			102		%		63-138	09-JUL-10
Titanium (Ti)-Total			97		%		63-138	09-JUL-10
Tungsten (W)-Total			101		%		63-138	09-JUL-10
Uranium (U)-Total			102		%		63-138	09-JUL-10
Vanadium (V)-Total			103		%		63-138	09-JUL-10
Zinc (Zn)-Total			98		%		63-138	09-JUL-10
Zirconium (Zr)-Total			105		%		63-138	09-JUL-10
WG1131745-4	DUP		WG1131745-3					
Aluminum (Al)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	09-JUL-10
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	09-JUL-10
Arsenic (As)-Total		0.00084	0.00088		mg/L			09-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1345203							
WG1131745-4	DUP	WG1131745-3						
Arsenic (As)-Total		0.00084	0.00088	J	mg/L	0.00004	0.0008	09-JUL-10
Barium (Ba)-Total		0.0516	0.0528		mg/L	2.3	20	09-JUL-10
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	09-JUL-10
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	09-JUL-10
Boron (B)-Total		0.337	0.364		mg/L	7.7	20	09-JUL-10
Cadmium (Cd)-Total		0.000019	0.000018	J	mg/L	0.000001	0.00004	09-JUL-10
Calcium (Ca)-Total		53.0	50.2		mg/L	5.4	20	09-JUL-10
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	09-JUL-10
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	09-JUL-10
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	09-JUL-10
Copper (Cu)-Total		0.00043	0.00042	J	mg/L	0.00002	0.0008	09-JUL-10
Iron (Fe)-Total		<0.020	<0.020	RPD-NA	mg/L	N/A	20	09-JUL-10
Lead (Pb)-Total		0.000158	0.000165	J	mg/L	0.000007	0.00036	09-JUL-10
Lithium (Li)-Total		0.0065	0.0084	J	mg/L	0.0018	0.008	09-JUL-10
Magnesium (Mg)-Total		12.2	12.3		mg/L	1.2	20	09-JUL-10
Manganese (Mn)-Total		0.382	0.383		mg/L	0.18	20	09-JUL-10
Molybdenum (Mo)-Total		0.00639	0.00663		mg/L	3.5	20	09-JUL-10
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	09-JUL-10
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	20	09-JUL-10
Potassium (K)-Total		4.07	4.17		mg/L	2.5	20	09-JUL-10
Rubidium (Rb)-Total		0.00028	0.00029	J	mg/L	0.00001	0.0008	09-JUL-10
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	09-JUL-10
Silicon (Si)-Total		6.34	5.83		mg/L	8.4	20	09-JUL-10
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	09-JUL-10
Sodium (Na)-Total		107	103		mg/L	3.8	20	09-JUL-10
Strontium (Sr)-Total		0.407	0.417		mg/L	2.4	20	09-JUL-10
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	09-JUL-10
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	09-JUL-10
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	09-JUL-10
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	09-JUL-10
Titanium (Ti)-Total		0.00081	0.00074	J	mg/L	0.00007	0.0008	09-JUL-10
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	09-JUL-10
Uranium (U)-Total		0.0476	0.0481		mg/L			09-JUL-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
	Water							
Batch	R1345203							
WG1131745-4	DUP	WG1131745-3						
Uranium (U)-Total		0.0476	0.0481		mg/L	1.1	20	09-JUL-10
Vanadium (V)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	09-JUL-10
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	09-JUL-10
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	09-JUL-10
WG1131745-6	DUP	WG1131745-5						
Aluminum (Al)-Total		0.0899	0.0849		mg/L	5.8	20	10-JUL-10
Antimony (Sb)-Total		0.00301	0.00312		mg/L	3.7	20	10-JUL-10
Arsenic (As)-Total		0.00557	0.00588		mg/L	5.4	20	10-JUL-10
Barium (Ba)-Total		0.0479	0.0496		mg/L	3.3	20	10-JUL-10
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	10-JUL-10
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	10-JUL-10
Boron (B)-Total		0.204	0.220		mg/L	7.4	20	10-JUL-10
Cadmium (Cd)-Total		0.000109	0.000113		mg/L	3.6	20	10-JUL-10
Calcium (Ca)-Total		66.6	72.5		mg/L	8.5	20	10-JUL-10
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	10-JUL-10
Chromium (Cr)-Total		0.0046	0.0048	J	mg/L	0.0002	0.004	10-JUL-10
Cobalt (Co)-Total		<0.00020	0.00022	RPD-NA	mg/L	N/A	20	10-JUL-10
Copper (Cu)-Total		0.0442	0.0466		mg/L	5.2	20	10-JUL-10
Iron (Fe)-Total		0.270	0.321		mg/L	17	20	10-JUL-10
Lead (Pb)-Total		0.00116	0.00121		mg/L	3.9	20	10-JUL-10
Lithium (Li)-Total		0.107	0.114		mg/L	6.5	20	10-JUL-10
Magnesium (Mg)-Total		109	119		mg/L	8.8	20	10-JUL-10
Manganese (Mn)-Total		0.0300	0.0317		mg/L	5.6	20	10-JUL-10
Molybdenum (Mo)-Total		0.0389	0.0403		mg/L	3.6	20	10-JUL-10
Nickel (Ni)-Total		0.0227	0.0245		mg/L	7.7	20	10-JUL-10
Phosphorus (P)-Total		0.36	0.37	J	mg/L	0.02	0.8	10-JUL-10
Potassium (K)-Total		13.9	15.0		mg/L	7.6	20	10-JUL-10
Rubidium (Rb)-Total		0.00909	0.00955		mg/L	5.0	20	10-JUL-10
Selenium (Se)-Total		0.0030	0.0030	J	mg/L	0.0000	0.004	10-JUL-10
Silicon (Si)-Total		8.10	9.22		mg/L	13	20	10-JUL-10
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	10-JUL-10
Sodium (Na)-Total		68.0	74.1		mg/L	8.6	20	10-JUL-10
Strontium (Sr)-Total		0.427	0.449		mg/L	5.1	20	10-JUL-10



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Contact: CLIFF SAMOILLOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1345203							
WG1131745-6	DUP	WG1131745-5						
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	10-JUL-10
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	10-JUL-10
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	10-JUL-10
Tin (Sn)-Total		0.00052	0.00054	J	mg/L	0.00001	0.0008	10-JUL-10
Titanium (Ti)-Total		0.00550	0.00610		mg/L	10	20	10-JUL-10
Tungsten (W)-Total		0.0062	0.0063	J	mg/L	0.0001	0.004	10-JUL-10
Uranium (U)-Total		0.00903	0.00937		mg/L	3.7	20	10-JUL-10
Vanadium (V)-Total		0.00430	0.00457		mg/L	6.2	20	10-JUL-10
Zinc (Zn)-Total		0.0393	0.0412	J	mg/L	0.0019	0.02	10-JUL-10
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	10-JUL-10
WG1131745-2	LCS							
Aluminum (Al)-Total			115		%		80-120	09-JUL-10
Antimony (Sb)-Total			114		%		80-120	09-JUL-10
Arsenic (As)-Total			108		%		80-120	09-JUL-10
Barium (Ba)-Total			110		%		80-120	09-JUL-10
Beryllium (Be)-Total			109		%		80-120	09-JUL-10
Bismuth (Bi)-Total			105		%		80-120	09-JUL-10
Boron (B)-Total			104		%		80-120	09-JUL-10
Cadmium (Cd)-Total			106		%		80-120	09-JUL-10
Calcium (Ca)-Total			105		%		80-120	09-JUL-10
Cesium (Cs)-Total			106		%		80-120	09-JUL-10
Chromium (Cr)-Total			109		%		80-120	09-JUL-10
Cobalt (Co)-Total			103		%		80-120	09-JUL-10
Copper (Cu)-Total			105		%		80-120	09-JUL-10
Iron (Fe)-Total			101		%		80-120	09-JUL-10
Lead (Pb)-Total			104		%		80-120	09-JUL-10
Lithium (Li)-Total			103		%		80-120	09-JUL-10
Magnesium (Mg)-Total			104		%		80-120	09-JUL-10
Manganese (Mn)-Total			102		%		80-120	09-JUL-10
Molybdenum (Mo)-Total			110		%		80-120	09-JUL-10
Nickel (Ni)-Total			103		%		80-120	09-JUL-10
Phosphorus (P)-Total			109		%		80-120	09-JUL-10
Potassium (K)-Total			99		%		80-120	09-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1345203							
WG1131745-2 LCS								
Rubidium (Rb)-Total			105		%		80-120	09-JUL-10
Selenium (Se)-Total			108		%		80-120	09-JUL-10
Silicon (Si)-Total			111		%		80-120	09-JUL-10
Silver (Ag)-Total			107		%		80-120	09-JUL-10
Sodium (Na)-Total			108		%		80-120	09-JUL-10
Strontium (Sr)-Total			104		%		80-120	09-JUL-10
Tellurium (Te)-Total			114		%		80-120	09-JUL-10
Thallium (Tl)-Total			106		%		80-120	09-JUL-10
Thorium (Th)-Total			104		%		63-138	09-JUL-10
Tin (Sn)-Total			111		%		80-120	09-JUL-10
Titanium (Ti)-Total			105		%		80-120	09-JUL-10
Tungsten (W)-Total			102		%		80-120	09-JUL-10
Uranium (U)-Total			99		%		80-120	09-JUL-10
Vanadium (V)-Total			103		%		80-120	09-JUL-10
Zinc (Zn)-Total			104		%		80-120	09-JUL-10
Zirconium (Zr)-Total			108		%		80-120	09-JUL-10
WG1131745-1 MB								
Aluminum (Al)-Total			<0.0050		mg/L		0.005	09-JUL-10
Antimony (Sb)-Total			<0.00020		mg/L		0.0002	09-JUL-10
Arsenic (As)-Total			<0.00020		mg/L		0.0002	09-JUL-10
Barium (Ba)-Total			<0.00020		mg/L		0.0002	09-JUL-10
Beryllium (Be)-Total			<0.00020		mg/L		0.0002	09-JUL-10
Bismuth (Bi)-Total			<0.00020		mg/L		0.0002	09-JUL-10
Boron (B)-Total			<0.010		mg/L		0.01	09-JUL-10
Cadmium (Cd)-Total			<0.000010		mg/L		0.00001	09-JUL-10
Calcium (Ca)-Total			<0.10		mg/L		0.1	09-JUL-10
Cesium (Cs)-Total			<0.00010		mg/L		0.0001	09-JUL-10
Chromium (Cr)-Total			<0.0010		mg/L		0.001	09-JUL-10
Cobalt (Co)-Total			<0.00020		mg/L		0.0002	09-JUL-10
Copper (Cu)-Total			<0.00020		mg/L		0.0002	09-JUL-10
Iron (Fe)-Total			<0.020		mg/L		0.02	09-JUL-10
Lead (Pb)-Total			<0.000090		mg/L		0.00009	09-JUL-10
Lithium (Li)-Total			<0.0020		mg/L		0.002	09-JUL-10
Magnesium (Mg)-Total			<0.010		mg/L		0.01	09-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
	Water							
Batch	R1345203							
WG1131745-1 MB								
Manganese (Mn)-Total			<0.00030		mg/L		0.0003	09-JUL-10
Molybdenum (Mo)-Total			<0.00020		mg/L		0.0002	09-JUL-10
Nickel (Ni)-Total			<0.0020		mg/L		0.002	09-JUL-10
Phosphorus (P)-Total			<0.20		mg/L		0.2	09-JUL-10
Potassium (K)-Total			<0.020		mg/L		0.02	09-JUL-10
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	09-JUL-10
Selenium (Se)-Total			<0.0010		mg/L		0.001	09-JUL-10
Silicon (Si)-Total			<0.050		mg/L		0.05	09-JUL-10
Silver (Ag)-Total			<0.00010		mg/L		0.0001	09-JUL-10
Sodium (Na)-Total			<0.030		mg/L		0.03	09-JUL-10
Strontium (Sr)-Total			<0.00010		mg/L		0.0001	09-JUL-10
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	09-JUL-10
Thallium (Tl)-Total			<0.00010		mg/L		0.0001	09-JUL-10
Thorium (Th)-Total			<0.00010		mg/L		0.0001	09-JUL-10
Tin (Sn)-Total			<0.00020		mg/L		0.0002	09-JUL-10
Titanium (Ti)-Total			<0.00020		mg/L		0.0002	09-JUL-10
Tungsten (W)-Total			<0.0010		mg/L		0.001	09-JUL-10
Uranium (U)-Total			<0.00010		mg/L		0.0001	09-JUL-10
Vanadium (V)-Total			<0.00020		mg/L		0.0002	09-JUL-10
Zinc (Zn)-Total			<0.0050		mg/L		0.005	09-JUL-10
Zirconium (Zr)-Total			<0.00040		mg/L		0.0004	09-JUL-10
N-TOTKJ-WP								
	Water							
Batch	R1353503							
WG1133483-2 CCV								
Total Kjeldahl Nitrogen			91		%		90-110	13-JUL-10
WG1133483-1 CVS								
Total Kjeldahl Nitrogen			98		%		90-110	13-JUL-10
WG1132001-4 DUP		L906225-3						
Total Kjeldahl Nitrogen		0.42	0.51	J	mg/L	0.09	0.8	13-JUL-10
WG1132001-6 DUP		L906318-1						
Total Kjeldahl Nitrogen		0.85	0.88	J	mg/L	0.03	0.8	13-JUL-10
WG1132001-2 LCS								
Total Kjeldahl Nitrogen			90		%		75-125	13-JUL-10
WG1132001-1 MB								
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	13-JUL-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
P-TOTAL-WP		Water						
Batch	R1339487							
WG1131513-2	CCV							
Phosphorus, Total			100		%		90-110	09-JUL-10
WG1131460-10	CVS							
Phosphorus, Total			107		%		80-120	09-JUL-10
WG1131460-11	CVS							
Phosphorus, Total			100		%		80-120	09-JUL-10
WG1131460-2	CVS							
Phosphorus, Total			104		%		80-120	09-JUL-10
WG1131460-3	CVS							
Phosphorus, Total			100		%		80-120	09-JUL-10
WG1131460-6	CVS							
Phosphorus, Total			100		%		80-120	09-JUL-10
WG1131460-7	CVS							
Phosphorus, Total			108		%		80-120	09-JUL-10
WG1131460-4	DUP	L905807-1						
Phosphorus, Total		18.2	19.3		mg/L	5.9	20	09-JUL-10
WG1131460-1	MB							
Phosphorus, Total			<0.010		mg/L		0.01	09-JUL-10
WG1131460-13	MS	L905916-2						
Phosphorus, Total			93		%		70-130	09-JUL-10
WG1131460-5	MS	L905624-1						
Phosphorus, Total			99		%		70-130	09-JUL-10
WG1131460-9	MS	L905728-1						
Phosphorus, Total			96		%		70-130	09-JUL-10
PH-WP		Water						
Batch	R1337504							
WG1131558-4	CCV							
pH			100		%		90-110	08-JUL-10
WG1131558-3	CVS							
pH			100		%		99-101	08-JUL-10
WG1131558-7	DUP	L906125-1						
pH		7.75	7.82		pH units	0.85	5	08-JUL-10
WG1131558-8	DUP	L906225-1						
pH		8.02	8.03		pH units	0.11	5	08-JUL-10
WG1131558-9	DUP	L906318-3						
pH		8.29	8.28		pH units	0.036	5	08-JUL-10
SILICATE-COL-VA	Water							



Quality Control Report

Workorder: L906225

Report Date: 02-SEP-10

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SILICATE-COL-VA		Water						
Batch	R1371666							
WG1134793-10 CRM		VA-SIO2-CSPK1						
Silicate (as SIO2)			98		%		85-115	15-JUL-10
WG1134793-3 CRM		VA-SIO2-CSPK1						
Silicate (as SIO2)			108		%		85-115	15-JUL-10
WG1134793-6 CRM		VA-SIO2-CSPK10						
Silicate (as SIO2)			96		%		85-115	15-JUL-10
WG1134793-1 DUP		L906225-1						
Silicate (as SIO2)		1.2	1.2	J	mg/L	0.0	4	15-JUL-10
WG1134793-4 DUP		L908024-5						
Silicate (as SIO2)		<1.0	<1.0	RPD-NA	mg/L	N/A	20	15-JUL-10
WG1134793-8 DUP		L908534-5						
Silicate (as SIO2)		6.2	6.2	J	mg/L	0.1	4	15-JUL-10
WG1134793-2 MB								
Silicate (as SIO2)			<1.0		mg/L		1	15-JUL-10
WG1134793-5 MB								
Silicate (as SIO2)			<1.0		mg/L		1	15-JUL-10
WG1134793-9 MB								
Silicate (as SIO2)			<1.0		mg/L		1	15-JUL-10
SO4-DIS-WP		Water						
Batch	R1353203							
WG1133432-3 CCV								
Sulphate (SO4) - Dissolved			96		%		90-110	13-JUL-10
WG1133432-2 CVS								
Sulphate (SO4) - Dissolved			95		%		85-115	13-JUL-10
WG1133412-1 MB								
Sulphate (SO4) - Dissolved			<9.0		mg/L		9	13-JUL-10
SOLIDS-TDS-WP		Water						
Batch	R1355943							
WG1133336-2 CVS								
Total Dissolved Solids			101		%		85-115	13-JUL-10
WG1133336-3 DUP		L906159-1						
Total Dissolved Solids		512	514		mg/L	0.39	20	13-JUL-10
WG1133336-5 DUP		L907456-1						
Total Dissolved Solids		840	830		mg/L	1.2	20	13-JUL-10
WG1133336-1 MB								
Total Dissolved Solids			<5.0		mg/L		5	13-JUL-10
SOLIDS-TOTSUS-WP		Water						



Quality Control Report

Workorder: L906225

Report Date: 02-SEP-10

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SOLIDS-TOTSUS-WP								
	Water							
Batch	R1353684							
WG1132599-2	CVS							
Total Suspended Solids			84		%		85-115	12-JUL-10
WG1132599-3	DUP	L906012-1						
Total Suspended Solids		<5.0	<5.0	RPD-NA	mg/L	N/A	20	12-JUL-10
WG1132599-7	DUP	L907060-4						
Total Suspended Solids		430	420		mg/L	2.4	20	12-JUL-10
WG1132599-1	MB							
Total Suspended Solids			<5.0		mg/L		5	12-JUL-10
TURBIDITY-WP								
	Water							
Batch	R1337143							
WG1131473-4	CCV							
Turbidity			98		%		90-110	08-JUL-10
WG1131473-5	CCV							
Turbidity			101		%		90-110	08-JUL-10
WG1131473-2	CVS							
Turbidity			91		%		63-138	08-JUL-10
WG1131473-3	CVS							
Turbidity			91		%		63-138	08-JUL-10
WG1131473-6	DUP	L905902-7						
Turbidity		127	126		NTU	0.79	15	08-JUL-10
WG1131473-8	DUP	L906162-1						
Turbidity		2.12	2.11		NTU	0.47	15	08-JUL-10
WG1131473-7	LCS							
Turbidity			89		%		85-115	08-JUL-10
WG1131473-1	MB							
Turbidity			<0.10		NTU		0.1	08-JUL-10

Quality Control Report

Workorder: L906225

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Legend:

Limit 99% Confidence Interval (Laboratory Control Limits)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L906225

Report Date: 02-SEP-10

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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
pH							
	1	07-JUL-10 10:31	08-JUL-10 17:11	0.25	31	hours	EHTR-FM
	2	07-JUL-10 10:31	08-JUL-10 17:11	0.25	31	hours	EHTR-FM
	3	07-JUL-10 10:31	08-JUL-10 17:11	0.25	31	hours	EHTR-FM

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L906225 were received on 08-JUL-10 09:00.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Environmental Division

Certificate of Analysis

AECOM Canada Ltd. (Winnipeg)
ATTN: CLIFF SAMOILOFF
99 COMMERCE DRIVE
WINNIPEG MB R3P 0Y7

Report Date: 02-SEP-10 14:25 (MT)
Version: FINAL REV. 2

Lab Work Order #: L906318

Date Received: 08-JUL-10

Project P.O. #: NOT SUBMITTED
Job Reference: 60157028
Legal Site Desc:
CofC Numbers:

Other Information:

Comments:

02-SEP-10: Revised Results

Gail Hill
Account Manager

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906318-1 ML-WQ1-60157028-20100707							
Sampled By: SK,LDB on 07-JUL-10 @ 13:20							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	1.6		1.0	mg/L		14-JUL-10	R1361168
Ammonia (NH3) - Dissolved	<0.050		0.050	mg/L	08-JUL-10	15-JUL-10	R1368563
Bromide	<0.10		0.10	mg/L	13-JUL-10	13-JUL-10	R1355644
BOD Carbonaceous	1.2		1.0	mg/L	09-JUL-10	14-JUL-10	R1357245
Chloride (Cl) - Dissolved	<9.0		9.0	mg/L	08-JUL-10	13-JUL-10	R1353203
Hardness (as CaCO3)	49.3		0.30	mg/L		12-JUL-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	15-JUL-10	15-JUL-10	R1388824
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	09-JUL-10	09-JUL-10	R1376324
Nitrate+Nitrite-N - Dissolved	<0.050		0.050	mg/L	08-JUL-10	15-JUL-10	R1368563
Phosphorus, Total	0.0106		0.0030	mg/L		12-JUL-10	R1353643
Silicate (as SiO2)	1.7		1.0	mg/L		15-JUL-10	R1371666
Sulphate (SO4) - Dissolved	<9.0		9.0	mg/L	08-JUL-10	13-JUL-10	R1353203
Total Dissolved Solids	66.0		5.0	mg/L		13-JUL-10	R1355943
Total Inorganic Carbon	7.3		1.0	mg/L		09-JUL-10	R1368626
Total Kjeldahl Nitrogen	0.85		0.20	mg/L	08-JUL-10	13-JUL-10	R1353503
Total Organic Carbon	19.8		1.0	mg/L		09-JUL-10	R1368626
Total Suspended Solids	<5.0		5.0	mg/L		13-JUL-10	R1355943
Color, True	30.0		5.0	T.C.U.		09-JUL-10	R1348083
Turbidity	1.35		0.10	NTU		09-JUL-10	R1345583
Hardness Calculated							
Hardness (as CaCO3)	49.3		0.20	mg/L		13-JUL-10	
Hardness (as CaCO3)	50.2		0.20	mg/L		09-AUG-10	
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0132		0.0050	mg/L	09-JUL-10	10-JUL-10	R1345203
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Arsenic (As)-Total	0.00065		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Barium (Ba)-Total	0.00579		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Boron (B)-Total	0.011		0.010	mg/L	09-JUL-10	10-JUL-10	R1345203
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	09-JUL-10	10-JUL-10	R1345203
Calcium (Ca)-Total	13.8		0.10	mg/L	09-JUL-10	10-JUL-10	R1345203
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	09-JUL-10	10-JUL-10	R1345203
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Copper (Cu)-Total	0.00060		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Iron (Fe)-Total	0.073		0.020	mg/L	09-JUL-10	10-JUL-10	R1345203
Lead (Pb)-Total	<0.000090		0.000090	mg/L	09-JUL-10	10-JUL-10	R1345203
Lithium (Li)-Total	<0.0020		0.0020	mg/L	09-JUL-10	10-JUL-10	R1345203
Magnesium (Mg)-Total	4.71		0.010	mg/L	09-JUL-10	10-JUL-10	R1345203
Manganese (Mn)-Total	0.0412		0.00030	mg/L	09-JUL-10	10-JUL-10	R1345203
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	09-JUL-10	10-JUL-10	R1345203
Phosphorus (P)-Total	<0.20		0.20	mg/L	09-JUL-10	10-JUL-10	R1345203
Potassium (K)-Total	1.11		0.020	mg/L	09-JUL-10	10-JUL-10	R1345203
Rubidium (Rb)-Total	0.00104		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Selenium (Se)-Total	<0.0010		0.0010	mg/L	09-JUL-10	10-JUL-10	R1345203
Silicon (Si)-Total	1.10		0.050	mg/L	09-JUL-10	10-JUL-10	R1345203
Silver (Ag)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Sodium (Na)-Total	1.63		0.030	mg/L	09-JUL-10	10-JUL-10	R1345203

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906318-1 ML-WQ1-60157028-20100707							
Sampled By: SK,LDB on 07-JUL-10 @ 13:20							
Matrix: WATER							
Total Metals by ICP-MS							
Strontium (Sr)-Total	0.0224		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Thorium (Th)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Tin (Sn)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Tungsten (W)-Total	<0.0010		0.0010	mg/L	09-JUL-10	10-JUL-10	R1345203
Uranium (U)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Vanadium (V)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	09-JUL-10	10-JUL-10	R1345203
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	09-JUL-10	10-JUL-10	R1345203
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0073		0.0020	mg/L	08-JUL-10	07-AUG-10	R1421107
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Arsenic (As)-Dissolved	0.00062		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Barium (Ba)-Dissolved	0.00473		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Boron (B)-Dissolved	<0.010		0.010	mg/L	08-JUL-10	07-AUG-10	R1421107
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	08-JUL-10	07-AUG-10	R1421107
Calcium (Ca)-Dissolved	12.5		0.050	mg/L	08-JUL-10	07-AUG-10	R1421107
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Copper (Cu)-Dissolved	0.00053		0.00020	mg/L	08-JUL-10	12-AUG-10	R1438859
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	08-JUL-10	07-AUG-10	R1421107
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	08-JUL-10	07-AUG-10	R1421107
Lithium (Li)-Dissolved	0.0037		0.0020	mg/L	08-JUL-10	07-AUG-10	R1421107
Magnesium (Mg)-Dissolved	4.62		0.010	mg/L	08-JUL-10	07-AUG-10	R1421107
Manganese (Mn)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Nickel (Ni)-Dissolved	0.00051		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	08-JUL-10	07-AUG-10	R1421107
Potassium (K)-Dissolved	1.12		0.020	mg/L	08-JUL-10	07-AUG-10	R1421107
Rubidium (Rb)-Dissolved	0.00099		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	08-JUL-10	07-AUG-10	R1421107
Silicon (Si)-Dissolved	0.933		0.050	mg/L	08-JUL-10	07-AUG-10	R1421107
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Sodium (Na)-Dissolved	1.56		0.020	mg/L	08-JUL-10	07-AUG-10	R1421107
Strontium (Sr)-Dissolved	0.0211		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	08-JUL-10	07-AUG-10	R1421107
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Vanadium (V)-Dissolved	0.00025		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	08-JUL-10	07-AUG-10	R1421107
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	08-JUL-10	07-AUG-10	R1421107
Chlorophyll-a & Pheophytin-a							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906318-1 ML-WQ1-60157028-20100707							
Sampled By: SK,LDB on 07-JUL-10 @ 13:20							
Matrix: WATER							
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	2.7		1.0	ug/L	08-JUL-10	13-JUL-10	R1353923
Phaeophytin a	1.7		1.0	ug/L	08-JUL-10	13-JUL-10	R1353923
ODb/ODa	1.4		1.0	ABS Ratio	08-JUL-10	13-JUL-10	R1353923
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	49.2		1.0	mg/L		08-JUL-10	R1337504
Bicarbonate (HCO3)	56.4		2.0	mg/L		08-JUL-10	R1337504
Carbonate (CO3)	1.77		0.60	mg/L		08-JUL-10	R1337504
Hydroxide (OH)	<0.40		0.40	mg/L		08-JUL-10	R1337504
Conductivity							
Conductivity	97.9		0.40	umhos/cm		08-JUL-10	R1337504
pH							
pH	8.46		0.10	pH units		08-JUL-10	R1337504
L906318-2 ML-WQ2-60157028-20100707							
Sampled By: SK,LDB on 07-JUL-10 @ 13:37							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		14-JUL-10	R1361168
Ammonia (NH3) - Dissolved	<0.050		0.050	mg/L	08-JUL-10	15-JUL-10	R1368563
Bromide	<0.10		0.10	mg/L	13-JUL-10	13-JUL-10	R1355644
BOD Carbonaceous	1.3		1.0	mg/L	09-JUL-10	14-JUL-10	R1357245
Chloride (Cl) - Dissolved	<9.0		9.0	mg/L	08-JUL-10	13-JUL-10	R1353203
Hardness (as CaCO3)	50.1		0.30	mg/L		12-JUL-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	15-JUL-10	15-JUL-10	R1388824
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	09-JUL-10	09-JUL-10	R1376324
Nitrate+Nitrite-N - Dissolved	<0.050		0.050	mg/L	08-JUL-10	15-JUL-10	R1368563
Phosphorus, Total	0.0129		0.0030	mg/L		12-JUL-10	R1353643
Silicate (as SiO2)	1.4		1.0	mg/L		15-JUL-10	R1371666
Sulphate (SO4) - Dissolved	<9.0		9.0	mg/L	08-JUL-10	13-JUL-10	R1353203
Total Dissolved Solids	64.0		5.0	mg/L		13-JUL-10	R1355943
Total Inorganic Carbon	7.0		1.0	mg/L		09-JUL-10	R1368626
Total Kjeldahl Nitrogen	0.92		0.20	mg/L	08-JUL-10	13-JUL-10	R1353503
Total Organic Carbon	20.3		1.0	mg/L		09-JUL-10	R1368626
Total Suspended Solids	<5.0		5.0	mg/L		13-JUL-10	R1355943
Color, True	35.0		5.0	T.C.U.		09-JUL-10	R1348083
Turbidity	1.28		0.10	NTU		09-JUL-10	R1345583
Hardness Calculated							
Hardness (as CaCO3)	50.1		0.20	mg/L		16-JUL-10	
Hardness (as CaCO3)	49.4		0.20	mg/L		09-AUG-10	
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0126		0.0050	mg/L	09-JUL-10	10-JUL-10	R1345203
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Arsenic (As)-Total	0.00061		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Barium (Ba)-Total	0.00569		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Boron (B)-Total	<0.010		0.010	mg/L	09-JUL-10	10-JUL-10	R1345203
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	09-JUL-10	10-JUL-10	R1345203
Calcium (Ca)-Total	14.0		0.10	mg/L	09-JUL-10	10-JUL-10	R1345203

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906318-2 ML-WQ2-60157028-20100707							
Sampled By: SK,LDB on 07-JUL-10 @ 13:37							
Matrix: WATER							
Total Metals by ICP-MS							
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	09-JUL-10	10-JUL-10	R1345203
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Copper (Cu)-Total	0.00059		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Iron (Fe)-Total	0.071		0.020	mg/L	09-JUL-10	10-JUL-10	R1345203
Lead (Pb)-Total	<0.000090		0.000090	mg/L	09-JUL-10	10-JUL-10	R1345203
Lithium (Li)-Total	<0.0020		0.0020	mg/L	09-JUL-10	10-JUL-10	R1345203
Magnesium (Mg)-Total	4.64		0.010	mg/L	09-JUL-10	10-JUL-10	R1345203
Manganese (Mn)-Total	0.0387		0.00030	mg/L	09-JUL-10	10-JUL-10	R1345203
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	09-JUL-10	10-JUL-10	R1345203
Phosphorus (P)-Total	<0.20		0.20	mg/L	09-JUL-10	10-JUL-10	R1345203
Potassium (K)-Total	1.14		0.020	mg/L	09-JUL-10	10-JUL-10	R1345203
Rubidium (Rb)-Total	0.00103		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Selenium (Se)-Total	<0.0010		0.0010	mg/L	09-JUL-10	10-JUL-10	R1345203
Silver (Ag)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Sodium (Na)-Total	1.59		0.030	mg/L	09-JUL-10	10-JUL-10	R1345203
Strontium (Sr)-Total	0.0229		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Thorium (Th)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Tin (Sn)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Tungsten (W)-Total	<0.0010		0.0010	mg/L	09-JUL-10	10-JUL-10	R1345203
Uranium (U)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Vanadium (V)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	09-JUL-10	10-JUL-10	R1345203
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	09-JUL-10	10-JUL-10	R1345203
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0069		0.0020	mg/L	08-JUL-10	07-AUG-10	R1421107
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Arsenic (As)-Dissolved	0.00060		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Barium (Ba)-Dissolved	0.00472		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Boron (B)-Dissolved	<0.010		0.010	mg/L	08-JUL-10	07-AUG-10	R1421107
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	08-JUL-10	07-AUG-10	R1421107
Calcium (Ca)-Dissolved	12.4		0.050	mg/L	08-JUL-10	07-AUG-10	R1421107
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Copper (Cu)-Dissolved	0.00057		0.00020	mg/L	08-JUL-10	12-AUG-10	R1438859
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	08-JUL-10	07-AUG-10	R1421107
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	08-JUL-10	07-AUG-10	R1421107
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	08-JUL-10	07-AUG-10	R1421107
Magnesium (Mg)-Dissolved	4.51		0.010	mg/L	08-JUL-10	07-AUG-10	R1421107
Manganese (Mn)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Nickel (Ni)-Dissolved	0.00050		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	08-JUL-10	07-AUG-10	R1421107
Potassium (K)-Dissolved	1.09		0.020	mg/L	08-JUL-10	07-AUG-10	R1421107

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906318-2 ML-WQ2-60157028-20100707							
Sampled By: SK,LDB on 07-JUL-10 @ 13:37							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Rubidium (Rb)-Dissolved	0.00099		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	08-JUL-10	07-AUG-10	R1421107
Silicon (Si)-Dissolved	0.532		0.050	mg/L	08-JUL-10	14-JUL-10	R1363763
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Sodium (Na)-Dissolved	1.54		0.020	mg/L	08-JUL-10	07-AUG-10	R1421107
Strontium (Sr)-Dissolved	0.0222		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Tungsten (W)-Dissolved	<0.00010		0.0010	mg/L	08-JUL-10	07-AUG-10	R1421107
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Vanadium (V)-Dissolved	0.00024		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	08-JUL-10	07-AUG-10	R1421107
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	08-JUL-10	07-AUG-10	R1421107
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	2.5		1.0	ug/L	08-JUL-10	13-JUL-10	R1353923
Phaeophytin a	1.5		1.0	ug/L	08-JUL-10	13-JUL-10	R1353923
ODb/ODa	1.4		1.0	ABS Ratio	08-JUL-10	13-JUL-10	R1353923
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	49.3		1.0	mg/L		08-JUL-10	R1337504
Bicarbonate (HCO3)	56.7		2.0	mg/L		08-JUL-10	R1337504
Carbonate (CO3)	1.70		0.60	mg/L		08-JUL-10	R1337504
Hydroxide (OH)	<0.40		0.40	mg/L		08-JUL-10	R1337504
Conductivity							
Conductivity	98.4		0.40	umhos/cm		08-JUL-10	R1337504
pH							
pH	8.45		0.10	pH units		08-JUL-10	R1337504
L906318-3 ML-WQ3-60157028-20100707							
Sampled By: SK,LDB on 07-JUL-10 @ 14:11							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		14-JUL-10	R1361168
Ammonia (NH3) - Dissolved	<0.050		0.050	mg/L	08-JUL-10	15-JUL-10	R1368563
Bromide	<0.10		0.10	mg/L	13-JUL-10	13-JUL-10	R1355644
BOD Carbonaceous	1.4		1.0	mg/L	09-JUL-10	14-JUL-10	R1357245
Chloride (Cl) - Dissolved	<9.0		9.0	mg/L	08-JUL-10	13-JUL-10	R1353203
Hardness (as CaCO3)	50.1		0.30	mg/L		12-JUL-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	15-JUL-10	15-JUL-10	R1388824
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	09-JUL-10	09-JUL-10	R1376324
Nitrate+Nitrite-N - Dissolved	<0.050		0.050	mg/L	08-JUL-10	15-JUL-10	R1368563
Phosphorus, Total	0.0139		0.0030	mg/L		12-JUL-10	R1353643
Silicate (as SiO2)	1.3		1.0	mg/L		15-JUL-10	R1371666
Sulphate (SO4) - Dissolved	<9.0		9.0	mg/L	08-JUL-10	13-JUL-10	R1353203
Total Dissolved Solids	68.0		5.0	mg/L		13-JUL-10	R1355943
Total Inorganic Carbon	6.8		1.0	mg/L		09-JUL-10	R1368626
Total Kjeldahl Nitrogen	0.93		0.20	mg/L	08-JUL-10	13-JUL-10	R1353503
Total Organic Carbon	20.8		1.0	mg/L		09-JUL-10	R1368626

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906318-3 ML-WQ3-60157028-20100707							
Sampled By: SK,LDB on 07-JUL-10 @ 14:11							
Matrix: WATER							
Total Suspended Solids	<5.0		5.0	mg/L		13-JUL-10	R1355943
Color, True	35.0		5.0	T.C.U.		09-JUL-10	R1348083
Turbidity	1.31		0.10	NTU		09-JUL-10	R1345583
Hardness Calculated							
Hardness (as CaCO3)	50.1		0.20	mg/L		13-JUL-10	
Hardness (as CaCO3)	51.6		0.20	mg/L		13-AUG-10	
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0160		0.0050	mg/L	09-JUL-10	10-JUL-10	R1345203
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Arsenic (As)-Total	0.00063		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Barium (Ba)-Total	0.00602		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Boron (B)-Total	<0.010		0.010	mg/L	09-JUL-10	10-JUL-10	R1345203
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	09-JUL-10	10-JUL-10	R1345203
Calcium (Ca)-Total	13.8		0.10	mg/L	09-JUL-10	10-JUL-10	R1345203
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	09-JUL-10	10-JUL-10	R1345203
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Copper (Cu)-Total	0.00069		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Iron (Fe)-Total	0.082		0.020	mg/L	09-JUL-10	10-JUL-10	R1345203
Lead (Pb)-Total	<0.000090		0.000090	mg/L	09-JUL-10	10-JUL-10	R1345203
Lithium (Li)-Total	<0.0020		0.0020	mg/L	09-JUL-10	10-JUL-10	R1345203
Magnesium (Mg)-Total	4.66		0.010	mg/L	09-JUL-10	10-JUL-10	R1345203
Manganese (Mn)-Total	0.0368		0.00030	mg/L	09-JUL-10	10-JUL-10	R1345203
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	09-JUL-10	10-JUL-10	R1345203
Phosphorus (P)-Total	<0.20		0.20	mg/L	09-JUL-10	10-JUL-10	R1345203
Potassium (K)-Total	1.09		0.020	mg/L	09-JUL-10	10-JUL-10	R1345203
Rubidium (Rb)-Total	0.00099		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Selenium (Se)-Total	<0.0010		0.0010	mg/L	09-JUL-10	10-JUL-10	R1345203
Silicon (Si)-Total	0.865		0.050	mg/L	09-JUL-10	10-JUL-10	R1345203
Silver (Ag)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Sodium (Na)-Total	1.62		0.030	mg/L	09-JUL-10	10-JUL-10	R1345203
Strontium (Sr)-Total	0.0215		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Thorium (Th)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Tin (Sn)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Titanium (Ti)-Total	0.00034		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Tungsten (W)-Total	<0.0010		0.0010	mg/L	09-JUL-10	10-JUL-10	R1345203
Uranium (U)-Total	<0.00010		0.00010	mg/L	09-JUL-10	10-JUL-10	R1345203
Vanadium (V)-Total	<0.00020		0.00020	mg/L	09-JUL-10	10-JUL-10	R1345203
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	09-JUL-10	10-JUL-10	R1345203
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	09-JUL-10	10-JUL-10	R1345203
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0070		0.0020	mg/L	08-JUL-10	07-AUG-10	R1421107
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Arsenic (As)-Dissolved	0.00060		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Barium (Ba)-Dissolved	0.00554		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906318-3 ML-WQ3-60157028-20100707							
Sampled By: SK,LDB on 07-JUL-10 @ 14:11							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Boron (B)-Dissolved	<0.010		0.010	mg/L	08-JUL-10	07-AUG-10	R1421107
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	08-JUL-10	07-AUG-10	R1421107
Calcium (Ca)-Dissolved	12.8		0.050	mg/L	08-JUL-10	07-AUG-10	R1421107
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Copper (Cu)-Dissolved	0.00054		0.00020	mg/L	08-JUL-10	12-AUG-10	R1438859
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	08-JUL-10	07-AUG-10	R1421107
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	08-JUL-10	07-AUG-10	R1421107
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	08-JUL-10	07-AUG-10	R1421107
Magnesium (Mg)-Dissolved	4.73		0.010	mg/L	08-JUL-10	07-AUG-10	R1421107
Manganese (Mn)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Nickel (Ni)-Dissolved	0.00054		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	08-JUL-10	07-AUG-10	R1421107
Potassium (K)-Dissolved	1.10		0.020	mg/L	08-JUL-10	07-AUG-10	R1421107
Rubidium (Rb)-Dissolved	0.00097		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	08-JUL-10	07-AUG-10	R1421107
Silicon (Si)-Dissolved	0.841		0.050	mg/L	08-JUL-10	07-AUG-10	R1421107
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Sodium (Na)-Dissolved	1.56		0.020	mg/L	08-JUL-10	07-AUG-10	R1421107
Strontium (Sr)-Dissolved	0.0212		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	08-JUL-10	07-AUG-10	R1421107
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	08-JUL-10	07-AUG-10	R1421107
Vanadium (V)-Dissolved	0.00020		0.00020	mg/L	08-JUL-10	07-AUG-10	R1421107
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	08-JUL-10	07-AUG-10	R1421107
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	08-JUL-10	07-AUG-10	R1421107
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	3.4		1.0	ug/L	08-JUL-10	13-JUL-10	R1353923
Phaeophytin a	1.5		1.0	ug/L	08-JUL-10	13-JUL-10	R1353923
ODb/ODa	1.5		1.0	ABS Ratio	08-JUL-10	13-JUL-10	R1353923
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	49.1		1.0	mg/L		08-JUL-10	R1337504
Bicarbonate (HCO3)	59.9		2.0	mg/L		08-JUL-10	R1337504
Carbonate (CO3)	<0.60		0.60	mg/L		08-JUL-10	R1337504
Hydroxide (OH)	<0.40		0.40	mg/L		08-JUL-10	R1337504
Conductivity							
Conductivity	97.8		0.40	umhos/cm		08-JUL-10	R1337504
pH							
pH	8.29		0.10	pH units		08-JUL-10	R1337504

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACIDITY-LOW-WP	Water	Acidity	APHA Method 2310B
ALK-TOT-WP	Water	Alkalinity	APHA 2320B
<p>Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO₃⁻ and H₂CO₃ endpoints indicated electrometrically.</p>			
BR-WT	Water	Bromide	EPA 300.0 (IC)
C-TOT-INORG-WP	Water	Total Inorganic Carbon	APHA 5310 B-Instrumental
<p>This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.</p> <p>The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.</p>			
C-TOT-ORG-WP	Water	Total Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
<p>This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.</p> <p>The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.</p>			
CHL/A,PHEO/A-ACET-WP	Water	Chlorophyll-a & Pheophytin-a	APHA 10200H, 1998-664/750NM
<p>Chlorophyll-a is filtered from the sample, then extracted with 90% (v/v) acetone. Absorbance is measured spectrophotometrically at 664 nm and 750 nm. The extract is then acidified, converting chlorophyll-a to pheophytin-a. Absorbance is determined again after acidification. The chlorophyll-a concentration is determined from the decrease in absorbance upon acidification. When a detection limit of 0.5 ug/L is required, the volume of sample filtered is doubled to 700mL.</p> <p>Samples with an OD664 before/OD665 after acidification ratio (664b/665a) of 1.70 are considered to contain no pheophytin a and to be in excellent physiological condition. Solutions of pure pheophytin show no reduction in OD665 upon acidification and have a 664b/665a ratio of 1.0 Thus, mixtures of chlorophyll a and pheophytin a have absorption peak ratios ranging between 1.0 and 1.7. These ratios are based on the use of 90% acetone as solvent.</p>			
CL-DIS-WP	Water	Chloride Dissolved	APHA4500/LACHAT
<p>The thiocyanate ion is liberated from mercuric thiocyanate by the formation of soluble mercuric chloride. In the presence of ferric ion, the free thiocyanate forms a highly colored ferric thiocyanate complex. The intensity of the complex is proportional to the original chloride concentration and is measured by a colorimeter at 480 nm.</p>			
COL-TRU-WP	Water	True Colour	APHA, AWWA, WPCF
<p>Colour is measured by visual comparison against a routinely calibrated color disk. True color is the color of water from which turbidity has been removed by centrifugation.</p>			
CONSULT-BOD-CBOD-WP	Water	Carbonaceous BOD	APHA 5210 B-5 day Incub.-O ₂ electrode
<p>A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis.</p>			
EC-WP	Water	Conductivity	APHA 2510B
<p>Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.</p>			
ETL-HARDNESS-DIS-WP	Water	Hardness Calculated	Calculated
ETL-HARDNESS-TOT-WP	Water	Hardness Calculated	Calculated

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
HG-D-CVAF-WP	Water	Mercury Dissolved	EPA245.7 V2.0
Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.			
HG-T-CVAF-WP	Water	Mercury Total	EPA245.7 V2.0
Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.			
MET-D-L-MS-WP	Water	Dissolved Metals by ICP-MS	U.S. EPA 200.8-DL
Dissolved Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the Examination of Water and Wastewater method 3030B for filtration through a 0.45 um filter and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.			
MET-T-L-MS-WP	Water	Total Metals by ICP-MS	U.S. EPA 200.8-TL
Total Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the examination of Water and Wastewater Method 3030E and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.			
N-TOTKJ-WP	Water	Total Kjeldahl Nitrogen	Quickchem method 10-107-06-2-E Lachat
Samples are digested with a sulphuric acid solution, cooled, diluted with water, and analyzed for ammonia. Total Kjeldahl nitrogen is the sum of free-ammonia and organic nitrogen compounds which are converted to ammonium sulphate through this digestion process. Analysis is performed by Flow Injection Analysis (FIA). The pH of the digested sample is raised to a known, basic pH by neutralization with a concentrated buffer solution. This neutralization converts the ammonium cation to ammonia. The ammonia produced is heated with salicylate and hypochlorite to produce blue colour which is proportional to the ammonia concentration.			
N2N3-DIS-WP	Water	Nitrate + Nitrite Dissolved	APHA4500;2005/LACHAT;1997,1999
NH3-DIS-WP	Water	Ammonia Dissolved	LACHAT;2003
Ammonia - Colourimetric using Salicylate-nitroprusside and hypochlorite, in an alkaline phosphate buffer.			
P-TOTAL-WP	Water	Phosphorus, Total	APHA, 1998 P-T
Samples are digested using a sulphuric acid-persulfate mixture to convert organic phosphorous to orthophosphate. The samples are analyzed by either the Flow Injection Analysis (FIA) or the Segmented Flow Analysis (SFA) method. The absorbance measured by the instrument is proportional to the concentration of orthophosphate in the sample, and is reported as phosphorous.			
PH-WP	Water	pH	APHA 4500H
pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.			
SILICATE-COL-VA	Water	Silicate by Colourimetric analysis	APHA 4500-SIO2 D.
This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 D. "Silica". Silicate (molybdate-reactive silica) is determined by the molybdosilicate-heteropoly blue colourimetric method.			
SO4-DIS-WP	Water	Sulphate Dissolved	APHA4500/LACHAT
The sample reacts with barium chloride in an acidic medium and precipitates the sulphate ion SO4-2, which forms barium sulphate crystals of uniform size. The turbidity produced by the sulphate suspension is measured by a colorimeter at 420 nm.			
SOLIDS-TDS-WP	Water	Total Dissolved Solids	APHA 2540
The residue remaining in a prepared casserole after passing the sample through a 1.2 um Whatman GF/C glass microfibre filter and drying at 180 degrees C. Samples may be dried at 105 degrees C if the client specifically requests this drying temperature.			

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
SOLIDS-TOTSUS-WP	Water	Total Suspended Solids	APHA 2540
The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C.			
TURBIDITY-WP	Water	Turbidity	APHA, 1998, 2130B
A strong light beam is sent through a transparent tube containing the sample. Light that is reflected at 90 degrees to the axis by suspended particles is detected by the photocell. The electrical response is proportional to the sample turbidity.			

** 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
WP	ALS LABORATORY GROUP - WINNIPEG, MANITOBA, CANADA
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA
WT	ALS LABORATORY GROUP - WATERLOO, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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.



Quality Control Report

Workorder: L906318

Report Date: 02-SEP-10

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACIDITY-LOW-WP		Water						
Batch	R1361168							
WG1134412-1	CVS							
Acidity (as CaCO3)			106		%		85-115	14-JUL-10
WG1134412-2	DUP	L906318-3						
Acidity (as CaCO3)		<1.0	<1.0	RPD-NA	mg/L	N/A	20	14-JUL-10
WG1134412-3	DUP	L906861-2						
Acidity (as CaCO3)		<1.0	<1.0	RPD-NA	mg/L	N/A	20	14-JUL-10
ALK-TOT-WP		Water						
Batch	R1337504							
WG1131558-5	CVS							
Alkalinity, Total (as CaCO3)			101		%		85-115	08-JUL-10
WG1131558-6	CVS							
Alkalinity, Total (as CaCO3)			104		%		85-115	08-JUL-10
WG1131558-10	DUP	L904946-1						
Alkalinity, Total (as CaCO3)		20.9	20.9		mg/L	0.14	20	08-JUL-10
Bicarbonate (HCO3)		25.5	25.5		mg/L	0.14	26	08-JUL-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	08-JUL-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	08-JUL-10
WG1131558-7	DUP	L906125-1						
Alkalinity, Total (as CaCO3)		592	595		mg/L	0.44	20	08-JUL-10
Bicarbonate (HCO3)		723	726		mg/L	0.44	26	08-JUL-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	08-JUL-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	08-JUL-10
WG1131558-8	DUP	L906225-1						
Alkalinity, Total (as CaCO3)		48.7	48.7		mg/L	0.0	20	08-JUL-10
Bicarbonate (HCO3)		59.4	59.4		mg/L	0.0	26	08-JUL-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	08-JUL-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	08-JUL-10
WG1131558-9	DUP	L906318-3						
Alkalinity, Total (as CaCO3)		49.1	49.1		mg/L	0.081	20	08-JUL-10
Bicarbonate (HCO3)		59.9	60.0		mg/L	0.081	26	08-JUL-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	08-JUL-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	08-JUL-10
BR-WT		Water						



Quality Control Report

Workorder: L906318

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BR-WT		Water						
Batch	R1355644							
WG1133139-3	LCS							
Bromide			97		%		75-125	13-JUL-10
WG1133139-4	LCSD	WG1133139-3						
Bromide		97	98		%	1.3	30	13-JUL-10
WG1133139-1	MB							
Bromide			<0.10		mg/L		0.1	13-JUL-10
C-TOT-INORG-WP		Water						
Batch	R1368626							
WG1135305-3	CCV							
Total Inorganic Carbon			102		%		80-120	08-JUL-10
WG1135305-2	CVS							
Total Inorganic Carbon			92		%		80-120	08-JUL-10
WG1135305-11	DUP	WG1135305-10						
Total Inorganic Carbon		1.7	1.9	J	mg/L	0.1	4	09-JUL-10
WG1135305-5	DUP	WG1135305-4						
Total Inorganic Carbon		69.3	69.9		mg/L	0.87	20	08-JUL-10
WG1135305-7	DUP	WG1135305-6						
Total Inorganic Carbon		4.7	4.8	J	mg/L	0.1	4	08-JUL-10
WG1135305-9	DUP	WG1135305-8						
Total Inorganic Carbon		56.2	56.6		mg/L	0.56	20	08-JUL-10
WG1135305-1	MB							
Total Inorganic Carbon			<1.0		mg/L		1	08-JUL-10
C-TOT-ORG-WP		Water						
Batch	R1368626							
WG1135305-3	CCV							
Total Organic Carbon			101		%		63-138	08-JUL-10
WG1135305-2	CVS							
Total Organic Carbon			99		%		80-120	08-JUL-10
WG1135305-11	DUP	WG1135305-10						
Total Organic Carbon		3.7	3.6	J	mg/L	0.1	4	09-JUL-10
WG1135305-5	DUP	WG1135305-4						
Total Organic Carbon		21.4	21.4		mg/L	0.41	20	08-JUL-10
WG1135305-7	DUP	WG1135305-6						
Total Organic Carbon		17.2	17.0		mg/L	1.2	20	08-JUL-10
WG1135305-9	DUP	WG1135305-8						
Total Organic Carbon		14.6	14.5		mg/L	1.0	20	08-JUL-10
WG1135305-1	MB							
Total Organic Carbon			<1.0				1	



Quality Control Report

Workorder: L906318

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
C-TOT-ORG-WP Water								
Batch	R1368626							
WG1135305-1	MB							
Total Organic Carbon			<1.0		mg/L		1	08-JUL-10
CHL/A,PHEO/A-ACET-WP Water								
Batch	R1353923							
WG1133036-1	CVS							
Chlorophyll a			102		%		65-135	13-JUL-10
WG1133036-2	CVS							
Chlorophyll a			106		%		65-135	13-JUL-10
CL-DIS-WP Water								
Batch	R1353203							
WG1133432-3	CCV							
Chloride (Cl) - Dissolved			98		%		85-115	13-JUL-10
WG1133432-2	CVS							
Chloride (Cl) - Dissolved			98		%		85-115	13-JUL-10
WG1133412-1	MB							
Chloride (Cl) - Dissolved			<9.0		mg/L		9	13-JUL-10
COL-TRU-WP Water								
Batch	R1348083							
WG1132651-3	DUP	L906727-2						
Color, True		<5.0	<5.0	RPD-NA	T.C.U.	N/A	20	09-JUL-10
WG1132651-1	MB							
Color, True			<5.0		T.C.U.		5	09-JUL-10
CONSULT-BOD-CBOD-WP Water								
Batch	R1357245							
WG1131563-3	DUP	L906225-1						
BOD Carbonaceous		<1.0	<1.0	RPD-NA	mg/L	N/A	20	14-JUL-10
WG1131563-2	IRM	61-GG						
BOD Carbonaceous			100		%		85-115	14-JUL-10
WG1131563-1	MB							
BOD Carbonaceous			<1.0		mg/L		1	14-JUL-10
EC-WP Water								
Batch	R1337504							
WG1131558-2	CCV							
Conductivity			103		%		95-105	08-JUL-10
WG1131558-1	CVS							
Conductivity			99		%		90-110	08-JUL-10



Quality Control Report

Workorder: L906318

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-WP		Water						
Batch	R1337504							
WG1131558-7	DUP	L906125-1						
Conductivity		2580	2580		umhos/cm	0.11	10	08-JUL-10
WG1131558-8	DUP	L906225-1						
Conductivity		96.6	96.6		umhos/cm	0.0	10	08-JUL-10
WG1131558-9	DUP	L906318-3						
Conductivity		97.8	97.8		umhos/cm	0.0	10	08-JUL-10
HG-D-CVAF-WP		Water						
Batch	R1388824							
WG1137638-2	DUP	L907120-4						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	15-JUL-10
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	15-JUL-10
WG1137641-2	LCS							
Mercury (Hg)-Dissolved			95		%		63-138	15-JUL-10
Mercury (Hg)-Dissolved			95		%		63-138	15-JUL-10
WG1137638-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	15-JUL-10
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	15-JUL-10
WG1137641-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	15-JUL-10
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	15-JUL-10
WG1137638-3	MS	L907120-4						
Mercury (Hg)-Dissolved			99		%		70-130	15-JUL-10
Mercury (Hg)-Dissolved			99		%		70-130	15-JUL-10
HG-T-CVAF-WP		Water						
Batch	R1376324							
WG1136166-4	DUP	L906048-2						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	09-JUL-10
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	09-JUL-10
WG1136166-2	LCS							
Mercury (Hg)-Total			90		%		63-138	09-JUL-10
Mercury (Hg)-Total			90		%		63-138	09-JUL-10
WG1136166-1	MB							
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	09-JUL-10
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	09-JUL-10
WG1136166-3	MS	L906048-2						
Mercury (Hg)-Total			98		%		70-130	09-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-T-CVAF-WP								
	Water							
Batch	R1376324							
WG1136166-3 MS		L906048-2						
Mercury (Hg)-Total			98		%		70-130	09-JUL-10
MET-D-L-MS-WP								
	Water							
Batch	R1363763							
WG1134744-3 CCV								
Silicon (Si)-Dissolved			103		%		90-110	14-JUL-10
WG1134744-1 CVS								
Silicon (Si)-Dissolved			100		%		63-138	14-JUL-10
WG1134744-2 CVS								
Silicon (Si)-Dissolved			100		%		63-138	14-JUL-10
Batch	R1421107							
WG1146960-3 CCV								
Aluminum (Al)-Dissolved			97		%		90-110	06-AUG-10
Antimony (Sb)-Dissolved			98		%		90-110	06-AUG-10
Arsenic (As)-Dissolved			97		%		90-110	06-AUG-10
Barium (Ba)-Dissolved			98		%		90-110	06-AUG-10
Beryllium (Be)-Dissolved			103		%		90-110	06-AUG-10
Bismuth (Bi)-Dissolved			97		%		90-110	06-AUG-10
Boron (B)-Dissolved			97		%		90-110	06-AUG-10
Cadmium (Cd)-Dissolved			99		%		90-110	06-AUG-10
Calcium (Ca)-Dissolved			104		%		90-110	06-AUG-10
Cesium (Cs)-Dissolved			95		%		90-110	06-AUG-10
Chromium (Cr)-Dissolved			102		%		90-110	06-AUG-10
Cobalt (Co)-Dissolved			101		%		90-110	06-AUG-10
Iron (Fe)-Dissolved			102		%		90-110	06-AUG-10
Lead (Pb)-Dissolved			100		%		90-110	06-AUG-10
Lithium (Li)-Dissolved			107		%		90-110	06-AUG-10
Magnesium (Mg)-Dissolved			99		%		90-110	06-AUG-10
Manganese (Mn)-Dissolved			101		%		90-110	06-AUG-10
Molybdenum (Mo)-Dissolved			96		%		90-110	06-AUG-10
Nickel (Ni)-Dissolved			100		%		90-110	06-AUG-10
Phosphorus (P)-Dissolved			100		%		90-110	06-AUG-10
Potassium (K)-Dissolved			100		%		90-110	06-AUG-10
Rubidium (Rb)-Dissolved			100		%		90-110	06-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1421107							
WG1146960-3 CCV								
Selenium (Se)-Dissolved			97		%		90-110	06-AUG-10
Silicon (Si)-Dissolved			98		%		90-110	06-AUG-10
Silver (Ag)-Dissolved			97		%		90-110	06-AUG-10
Sodium (Na)-Dissolved			101		%		90-110	06-AUG-10
Strontium (Sr)-Dissolved			100		%		90-110	06-AUG-10
Tellurium (Te)-Dissolved			101		%		90-110	06-AUG-10
Thallium (Tl)-Dissolved			98		%		90-110	06-AUG-10
Thorium (Th)-Dissolved			92		%		63-138	06-AUG-10
Tin (Sn)-Dissolved			96		%		90-110	06-AUG-10
Titanium (Ti)-Dissolved			96		%		90-110	06-AUG-10
Tungsten (W)-Dissolved			99		%		90-110	06-AUG-10
Uranium (U)-Dissolved			95		%		90-110	06-AUG-10
Vanadium (V)-Dissolved			98		%		90-110	06-AUG-10
Zinc (Zn)-Dissolved			100		%		90-110	06-AUG-10
Zirconium (Zr)-Dissolved			95		%		90-110	06-AUG-10
WG1146960-1 CVS								
Aluminum (Al)-Dissolved			96		%		80-120	06-AUG-10
Antimony (Sb)-Dissolved			102		%		80-120	06-AUG-10
Arsenic (As)-Dissolved			98		%		80-120	06-AUG-10
Barium (Ba)-Dissolved			105		%		80-120	06-AUG-10
Beryllium (Be)-Dissolved			98		%		80-120	06-AUG-10
Bismuth (Bi)-Dissolved			103		%		80-120	06-AUG-10
Boron (B)-Dissolved			101		%		80-120	06-AUG-10
Cadmium (Cd)-Dissolved			98		%		80-120	06-AUG-10
Calcium (Ca)-Dissolved			101		%		80-120	06-AUG-10
Cesium (Cs)-Dissolved			98		%		80-120	06-AUG-10
Chromium (Cr)-Dissolved			98		%		80-120	06-AUG-10
Cobalt (Co)-Dissolved			100		%		80-120	06-AUG-10
Iron (Fe)-Dissolved			99		%		80-120	06-AUG-10
Lead (Pb)-Dissolved			103		%		80-120	06-AUG-10
Lithium (Li)-Dissolved			97		%		80-120	06-AUG-10
Magnesium (Mg)-Dissolved			103		%		80-120	06-AUG-10
Manganese (Mn)-Dissolved			97		%		80-120	06-AUG-10
Molybdenum (Mo)-Dissolved			95		%		80-120	06-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP								
	Water							
Batch	R1421107							
WG1146960-1	CVS							
Nickel (Ni)-Dissolved			102		%		80-120	06-AUG-10
Phosphorus (P)-Dissolved			98		%		80-120	06-AUG-10
Potassium (K)-Dissolved			105		%		80-120	06-AUG-10
Rubidium (Rb)-Dissolved			96		%		80-120	06-AUG-10
Selenium (Se)-Dissolved			99		%		80-120	06-AUG-10
Silicon (Si)-Dissolved			98		%		63-138	06-AUG-10
Silver (Ag)-Dissolved			95		%		63-138	06-AUG-10
Sodium (Na)-Dissolved			103		%		80-120	06-AUG-10
Strontium (Sr)-Dissolved			96		%		80-120	06-AUG-10
Tellurium (Te)-Dissolved			100		%		80-120	06-AUG-10
Thallium (Tl)-Dissolved			100		%		80-120	06-AUG-10
Thorium (Th)-Dissolved			100		%		63-138	06-AUG-10
Tin (Sn)-Dissolved			92		%		80-120	06-AUG-10
Titanium (Ti)-Dissolved			93		%		80-120	06-AUG-10
Tungsten (W)-Dissolved			100		%		80-120	06-AUG-10
Uranium (U)-Dissolved			99		%		80-120	06-AUG-10
Vanadium (V)-Dissolved			97		%		80-120	06-AUG-10
Zinc (Zn)-Dissolved			99		%		80-120	06-AUG-10
Zirconium (Zr)-Dissolved			93		%		80-120	06-AUG-10
WG1146960-2	CVS							
Aluminum (Al)-Dissolved			106		%		80-120	06-AUG-10
Antimony (Sb)-Dissolved			104		%		80-120	06-AUG-10
Arsenic (As)-Dissolved			99		%		80-120	06-AUG-10
Barium (Ba)-Dissolved			101		%		80-120	06-AUG-10
Beryllium (Be)-Dissolved			101		%		80-120	06-AUG-10
Bismuth (Bi)-Dissolved			103		%		80-120	06-AUG-10
Boron (B)-Dissolved			100		%		80-120	06-AUG-10
Cadmium (Cd)-Dissolved			103		%		80-120	06-AUG-10
Calcium (Ca)-Dissolved			101		%		80-120	06-AUG-10
Cesium (Cs)-Dissolved			101		%		80-120	06-AUG-10
Chromium (Cr)-Dissolved			100		%		80-120	06-AUG-10
Cobalt (Co)-Dissolved			105		%		80-120	06-AUG-10
Iron (Fe)-Dissolved			103		%		80-120	06-AUG-10
Lead (Pb)-Dissolved			104		%		80-120	06-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1421107							
WG1146960-2 CVS								
Lithium (Li)-Dissolved			95		%		80-120	06-AUG-10
Magnesium (Mg)-Dissolved			97		%		80-120	06-AUG-10
Manganese (Mn)-Dissolved			100		%		80-120	06-AUG-10
Molybdenum (Mo)-Dissolved			101		%		80-120	06-AUG-10
Nickel (Ni)-Dissolved			100		%		80-120	06-AUG-10
Phosphorus (P)-Dissolved			99		%		80-120	06-AUG-10
Potassium (K)-Dissolved			101		%		80-120	06-AUG-10
Rubidium (Rb)-Dissolved			109		%		80-120	06-AUG-10
Selenium (Se)-Dissolved			97		%		80-120	06-AUG-10
Silicon (Si)-Dissolved			102		%		63-138	06-AUG-10
Silver (Ag)-Dissolved			100		%		63-138	06-AUG-10
Sodium (Na)-Dissolved			98		%		80-120	06-AUG-10
Strontium (Sr)-Dissolved			104		%		80-120	06-AUG-10
Tellurium (Te)-Dissolved			98		%		80-120	06-AUG-10
Thallium (Tl)-Dissolved			103		%		80-120	06-AUG-10
Thorium (Th)-Dissolved			103		%		63-138	06-AUG-10
Tin (Sn)-Dissolved			99		%		80-120	06-AUG-10
Titanium (Ti)-Dissolved			94		%		80-120	06-AUG-10
Tungsten (W)-Dissolved			103		%		80-120	06-AUG-10
Uranium (U)-Dissolved			103		%		80-120	06-AUG-10
Vanadium (V)-Dissolved			102		%		80-120	06-AUG-10
Zinc (Zn)-Dissolved			100		%		80-120	06-AUG-10
Zirconium (Zr)-Dissolved			102		%		80-120	06-AUG-10
WG1146953-3 DUP		WG1146953-2						
Aluminum (Al)-Dissolved		0.0031	0.0029	J	mg/L	0.0001	0.008	07-AUG-10
Antimony (Sb)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Arsenic (As)-Dissolved		0.00110	0.00107	J	mg/L	0.00003	0.0008	07-AUG-10
Barium (Ba)-Dissolved		0.0150	0.0152		mg/L	1.5	20	07-AUG-10
Beryllium (Be)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Bismuth (Bi)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Boron (B)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	07-AUG-10
Cadmium (Cd)-Dissolved		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	07-AUG-10
Calcium (Ca)-Dissolved		16.6	16.2		mg/L	2.3	20	07-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1421107							
WG1146953-3	DUP	WG1146953-2						
Cesium (Cs)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	07-AUG-10
Chromium (Cr)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Cobalt (Co)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Iron (Fe)-Dissolved		0.065	0.063	J	mg/L	0.002	0.04	07-AUG-10
Lead (Pb)-Dissolved		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	07-AUG-10
Lithium (Li)-Dissolved		0.0047	0.0041	J	mg/L	0.0007	0.008	07-AUG-10
Magnesium (Mg)-Dissolved		5.50	5.34		mg/L	3.1	20	07-AUG-10
Manganese (Mn)-Dissolved		0.00047	0.00046	J	mg/L	0.00001	0.0008	07-AUG-10
Molybdenum (Mo)-Dissolved		0.00017	0.00017	J	mg/L	0.00000	0.0004	07-AUG-10
Nickel (Ni)-Dissolved		0.00069	0.00057	J	mg/L	0.00012	0.0008	07-AUG-10
Phosphorus (P)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	20	07-AUG-10
Potassium (K)-Dissolved		2.18	2.07		mg/L	5.5	20	07-AUG-10
Rubidium (Rb)-Dissolved		0.00193	0.00196	J	mg/L	0.00003	0.0008	07-AUG-10
Selenium (Se)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	07-AUG-10
Silicon (Si)-Dissolved		1.98	2.11		mg/L	6.2	20	07-AUG-10
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	07-AUG-10
Sodium (Na)-Dissolved		4.52	4.44		mg/L	1.7	20	07-AUG-10
Strontium (Sr)-Dissolved		0.0362	0.0365		mg/L	1.0	20	07-AUG-10
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	07-AUG-10
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	07-AUG-10
Tin (Sn)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Titanium (Ti)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Tungsten (W)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	07-AUG-10
Uranium (U)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	07-AUG-10
Vanadium (V)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Zinc (Zn)-Dissolved		0.0091	0.0088	J	mg/L	0.0004	0.008	07-AUG-10
Zirconium (Zr)-Dissolved		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	07-AUG-10
WG1146953-4	LCS							
Aluminum (Al)-Dissolved			94		%		80-120	07-AUG-10
Antimony (Sb)-Dissolved			100		%		80-120	07-AUG-10
Arsenic (As)-Dissolved			99		%		80-120	07-AUG-10
Barium (Ba)-Dissolved			102		%		80-120	07-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP	Water							
Batch	R1421107							
WG1146953-4	LCS							
Beryllium (Be)-Dissolved			103		%		80-120	07-AUG-10
Bismuth (Bi)-Dissolved			101		%		80-120	07-AUG-10
Boron (B)-Dissolved			103		%		80-120	07-AUG-10
Cadmium (Cd)-Dissolved			96		%		80-120	07-AUG-10
Calcium (Ca)-Dissolved			95		%		80-120	07-AUG-10
Cesium (Cs)-Dissolved			100		%		80-120	07-AUG-10
Chromium (Cr)-Dissolved			101		%		80-120	07-AUG-10
Cobalt (Co)-Dissolved			102		%		80-120	07-AUG-10
Iron (Fe)-Dissolved			111		%		80-120	07-AUG-10
Lead (Pb)-Dissolved			97		%		80-120	07-AUG-10
Lithium (Li)-Dissolved			98		%		80-120	07-AUG-10
Magnesium (Mg)-Dissolved			102		%		80-120	07-AUG-10
Manganese (Mn)-Dissolved			99		%		80-120	07-AUG-10
Molybdenum (Mo)-Dissolved			100		%		80-120	07-AUG-10
Nickel (Ni)-Dissolved			98		%		80-120	07-AUG-10
Phosphorus (P)-Dissolved			106		%		80-120	07-AUG-10
Potassium (K)-Dissolved			104		%		80-120	07-AUG-10
Rubidium (Rb)-Dissolved			97		%		80-120	07-AUG-10
Selenium (Se)-Dissolved			100		%		80-120	07-AUG-10
Silicon (Si)-Dissolved			107		%		80-120	07-AUG-10
Silver (Ag)-Dissolved			96		%		80-120	07-AUG-10
Sodium (Na)-Dissolved			102		%		80-120	07-AUG-10
Strontium (Sr)-Dissolved			96		%		80-120	07-AUG-10
Tellurium (Te)-Dissolved			99		%		80-120	07-AUG-10
Thallium (Tl)-Dissolved			104		%		80-120	07-AUG-10
Thorium (Th)-Dissolved			93		%		80-120	07-AUG-10
Tin (Sn)-Dissolved			98		%		80-120	07-AUG-10
Titanium (Ti)-Dissolved			99		%		80-120	07-AUG-10
Tungsten (W)-Dissolved			99		%		80-120	07-AUG-10
Uranium (U)-Dissolved			93		%		80-120	07-AUG-10
Vanadium (V)-Dissolved			102		%		80-120	07-AUG-10
Zinc (Zn)-Dissolved			101		%		80-120	07-AUG-10
Zirconium (Zr)-Dissolved			98		%		80-120	07-AUG-10

WG1146953-1 MB



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1421107							
WG1146953-1	MB							
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.002	07-AUG-10
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Arsenic (As)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Boron (B)-Dissolved			<0.010		mg/L		0.01	07-AUG-10
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.00001	07-AUG-10
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	07-AUG-10
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Chromium (Cr)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	07-AUG-10
Lead (Pb)-Dissolved			<0.000090		mg/L		0.00009	07-AUG-10
Lithium (Li)-Dissolved			<0.0020		mg/L		0.002	07-AUG-10
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.01	07-AUG-10
Manganese (Mn)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Nickel (Ni)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Phosphorus (P)-Dissolved			<0.10		mg/L		0.1	07-AUG-10
Potassium (K)-Dissolved			<0.020		mg/L		0.02	07-AUG-10
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Selenium (Se)-Dissolved			<0.0010		mg/L		0.001	07-AUG-10
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	07-AUG-10
Silver (Ag)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Sodium (Na)-Dissolved			<0.020		mg/L		0.02	07-AUG-10
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Tin (Sn)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Titanium (Ti)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Tungsten (W)-Dissolved			<0.0010		mg/L		0.001	07-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1421107							
WG1146953-1	MB							
Uranium (U)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Vanadium (V)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Zinc (Zn)-Dissolved			<0.0020		mg/L		0.002	07-AUG-10
Zirconium (Zr)-Dissolved			<0.00040		mg/L		0.0004	07-AUG-10
Batch	R1438859							
WG1149656-3	CCV							
Copper (Cu)-Dissolved			105		%		90-110	12-AUG-10
WG1149656-1	CVS							
Copper (Cu)-Dissolved			106		%		80-120	12-AUG-10
WG1149656-2	CVS							
Copper (Cu)-Dissolved			99		%		80-120	12-AUG-10
MET-T-L-MS-WP		Water						
Batch	R1345203							
WG1132514-3	CCV							
Aluminum (Al)-Total			93		%		90-110	09-JUL-10
Antimony (Sb)-Total			100		%		90-110	09-JUL-10
Arsenic (As)-Total			99		%		90-110	09-JUL-10
Barium (Ba)-Total			98		%		90-110	09-JUL-10
Beryllium (Be)-Total			93		%		90-110	09-JUL-10
Bismuth (Bi)-Total			93		%		90-110	09-JUL-10
Boron (B)-Total			97		%		90-110	09-JUL-10
Cadmium (Cd)-Total			100		%		90-110	09-JUL-10
Calcium (Ca)-Total			96		%		90-110	09-JUL-10
Cesium (Cs)-Total			96		%		90-110	09-JUL-10
Chromium (Cr)-Total			97		%		90-110	09-JUL-10
Cobalt (Co)-Total			101		%		90-110	09-JUL-10
Copper (Cu)-Total			103		%		90-110	09-JUL-10
Iron (Fe)-Total			99		%		90-110	09-JUL-10
Lead (Pb)-Total			97		%		90-110	09-JUL-10
Lithium (Li)-Total			92		%		90-110	09-JUL-10
Magnesium (Mg)-Total			105		%		90-110	09-JUL-10
Manganese (Mn)-Total			99		%		90-110	09-JUL-10
Molybdenum (Mo)-Total			101		%		90-110	09-JUL-10
Nickel (Ni)-Total			102		%		90-110	09-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1345203							
WG1132514-3 CCV								
Phosphorus (P)-Total			101		%		90-110	09-JUL-10
Potassium (K)-Total			102		%		90-110	09-JUL-10
Rubidium (Rb)-Total			97		%		90-110	09-JUL-10
Selenium (Se)-Total			102		%		90-110	09-JUL-10
Silicon (Si)-Total			96		%		90-110	09-JUL-10
Silver (Ag)-Total			101		%		90-110	09-JUL-10
Sodium (Na)-Total			102		%		90-110	09-JUL-10
Strontium (Sr)-Total			100		%		90-110	09-JUL-10
Tellurium (Te)-Total			100		%		90-110	09-JUL-10
Thallium (Tl)-Total			98		%		90-110	09-JUL-10
Thorium (Th)-Total			98		%		63-138	09-JUL-10
Tin (Sn)-Total			101		%		90-110	09-JUL-10
Titanium (Ti)-Total			100		%		90-110	09-JUL-10
Tungsten (W)-Total			95		%		90-110	09-JUL-10
Uranium (U)-Total			97		%		90-110	09-JUL-10
Vanadium (V)-Total			99		%		90-110	09-JUL-10
Zinc (Zn)-Total			102		%		90-110	09-JUL-10
Zirconium (Zr)-Total			97		%		90-110	09-JUL-10
WG1132514-1 CVS								
Aluminum (Al)-Total			93		%		63-138	09-JUL-10
Antimony (Sb)-Total			96		%		63-138	09-JUL-10
Arsenic (As)-Total			99		%		63-138	09-JUL-10
Barium (Ba)-Total			96		%		63-138	09-JUL-10
Beryllium (Be)-Total			102		%		63-138	09-JUL-10
Bismuth (Bi)-Total			92		%		63-138	09-JUL-10
Boron (B)-Total			104		%		63-138	09-JUL-10
Cadmium (Cd)-Total			95		%		63-138	09-JUL-10
Calcium (Ca)-Total			98		%		63-138	09-JUL-10
Cesium (Cs)-Total			94		%		63-138	09-JUL-10
Chromium (Cr)-Total			98		%		63-138	09-JUL-10
Cobalt (Co)-Total			101		%		63-138	09-JUL-10
Copper (Cu)-Total			101		%		63-138	09-JUL-10
Iron (Fe)-Total			98		%		63-138	09-JUL-10
Lead (Pb)-Total			96		%		63-138	09-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1345203							
WG1132514-1	CVS							
Lithium (Li)-Total			106		%		63-138	09-JUL-10
Magnesium (Mg)-Total			101		%		63-138	09-JUL-10
Manganese (Mn)-Total			96		%		63-138	09-JUL-10
Molybdenum (Mo)-Total			96		%		63-138	09-JUL-10
Nickel (Ni)-Total			99		%		63-138	09-JUL-10
Phosphorus (P)-Total			100		%		63-138	09-JUL-10
Potassium (K)-Total			99		%		63-138	09-JUL-10
Rubidium (Rb)-Total			93		%		63-138	09-JUL-10
Selenium (Se)-Total			101		%		63-138	09-JUL-10
Silicon (Si)-Total			99		%		63-138	09-JUL-10
Silver (Ag)-Total			94		%		63-138	09-JUL-10
Sodium (Na)-Total			101		%		63-138	09-JUL-10
Strontium (Sr)-Total			91		%		63-138	09-JUL-10
Tellurium (Te)-Total			97		%		63-138	09-JUL-10
Thallium (Tl)-Total			94		%		63-138	09-JUL-10
Thorium (Th)-Total			98		%		63-138	09-JUL-10
Tin (Sn)-Total			93		%		63-138	09-JUL-10
Titanium (Ti)-Total			98		%		63-138	09-JUL-10
Tungsten (W)-Total			95		%		63-138	09-JUL-10
Uranium (U)-Total			91		%		63-138	09-JUL-10
Vanadium (V)-Total			97		%		63-138	09-JUL-10
Zinc (Zn)-Total			98		%		63-138	09-JUL-10
Zirconium (Zr)-Total			92		%		63-138	09-JUL-10
WG1132514-2	CVS							
Aluminum (Al)-Total			100		%		63-138	09-JUL-10
Antimony (Sb)-Total			103		%		63-138	09-JUL-10
Arsenic (As)-Total			99		%		63-138	09-JUL-10
Barium (Ba)-Total			102		%		63-138	09-JUL-10
Beryllium (Be)-Total			103		%		63-138	09-JUL-10
Bismuth (Bi)-Total			101		%		63-138	09-JUL-10
Boron (B)-Total			101		%		63-138	09-JUL-10
Cadmium (Cd)-Total			100		%		63-138	09-JUL-10
Calcium (Ca)-Total			102		%		63-138	09-JUL-10
Cesium (Cs)-Total			102		%		63-138	09-JUL-10



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Contact: CLIFF SAMOIOLOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1345203							
WG1132514-2	CVS							
Chromium (Cr)-Total			101		%		63-138	09-JUL-10
Cobalt (Co)-Total			102		%		63-138	09-JUL-10
Copper (Cu)-Total			101		%		63-138	09-JUL-10
Iron (Fe)-Total			102		%		63-138	09-JUL-10
Lead (Pb)-Total			104		%		63-138	09-JUL-10
Lithium (Li)-Total			101		%		63-138	09-JUL-10
Magnesium (Mg)-Total			101		%		63-138	09-JUL-10
Manganese (Mn)-Total			102		%		63-138	09-JUL-10
Molybdenum (Mo)-Total			103		%		63-138	09-JUL-10
Nickel (Ni)-Total			99		%		63-138	09-JUL-10
Phosphorus (P)-Total			100		%		63-138	09-JUL-10
Potassium (K)-Total			101		%		63-138	09-JUL-10
Rubidium (Rb)-Total			101		%		63-138	09-JUL-10
Selenium (Se)-Total			100		%		63-138	09-JUL-10
Silicon (Si)-Total			104		%		63-138	09-JUL-10
Silver (Ag)-Total			102		%		63-138	09-JUL-10
Sodium (Na)-Total			102		%		63-138	09-JUL-10
Strontium (Sr)-Total			101		%		63-138	09-JUL-10
Tellurium (Te)-Total			101		%		63-138	09-JUL-10
Thallium (Tl)-Total			102		%		63-138	09-JUL-10
Thorium (Th)-Total			102		%		63-138	09-JUL-10
Tin (Sn)-Total			102		%		63-138	09-JUL-10
Titanium (Ti)-Total			97		%		63-138	09-JUL-10
Tungsten (W)-Total			101		%		63-138	09-JUL-10
Uranium (U)-Total			102		%		63-138	09-JUL-10
Vanadium (V)-Total			103		%		63-138	09-JUL-10
Zinc (Zn)-Total			98		%		63-138	09-JUL-10
Zirconium (Zr)-Total			105		%		63-138	09-JUL-10
WG1131745-4	DUP		WG1131745-3					
Aluminum (Al)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	09-JUL-10
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	09-JUL-10
Arsenic (As)-Total		0.00084	0.00088	J	mg/L	0.00004	0.0008	09-JUL-10
Barium (Ba)-Total		0.0516	0.0528		mg/L	2.3	20	09-JUL-10
Beryllium (Be)-Total		<0.00020	<0.00020					



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1345203							
WG1131745-4	DUP	WG1131745-3						
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	09-JUL-10
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	09-JUL-10
Boron (B)-Total		0.337	0.364		mg/L	7.7	20	09-JUL-10
Cadmium (Cd)-Total		0.000019	0.000018	J	mg/L	0.000001	0.00004	09-JUL-10
Calcium (Ca)-Total		53.0	50.2		mg/L	5.4	20	09-JUL-10
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	09-JUL-10
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	09-JUL-10
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	09-JUL-10
Copper (Cu)-Total		0.00043	0.00042	J	mg/L	0.00002	0.0008	09-JUL-10
Iron (Fe)-Total		<0.020	<0.020	RPD-NA	mg/L	N/A	20	09-JUL-10
Lead (Pb)-Total		0.000158	0.000165	J	mg/L	0.000007	0.00036	09-JUL-10
Lithium (Li)-Total		0.0065	0.0084	J	mg/L	0.0018	0.008	09-JUL-10
Magnesium (Mg)-Total		12.2	12.3		mg/L	1.2	20	09-JUL-10
Manganese (Mn)-Total		0.382	0.383		mg/L	0.18	20	09-JUL-10
Molybdenum (Mo)-Total		0.00639	0.00663		mg/L	3.5	20	09-JUL-10
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	09-JUL-10
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	20	09-JUL-10
Potassium (K)-Total		4.07	4.17		mg/L	2.5	20	09-JUL-10
Rubidium (Rb)-Total		0.00028	0.00029	J	mg/L	0.00001	0.0008	09-JUL-10
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	09-JUL-10
Silicon (Si)-Total		6.34	5.83		mg/L	8.4	20	09-JUL-10
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	09-JUL-10
Sodium (Na)-Total		107	103		mg/L	3.8	20	09-JUL-10
Strontium (Sr)-Total		0.407	0.417		mg/L	2.4	20	09-JUL-10
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	09-JUL-10
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	09-JUL-10
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	09-JUL-10
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	09-JUL-10
Titanium (Ti)-Total		0.00081	0.00074	J	mg/L	0.00007	0.0008	09-JUL-10
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	09-JUL-10
Uranium (U)-Total		0.0476	0.0481		mg/L	1.1	20	09-JUL-10
Vanadium (V)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	09-JUL-10
Zinc (Zn)-Total		<0.0050	<0.0050		mg/L			09-JUL-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
	Water							
Batch	R1345203							
WG1131745-4	DUP	WG1131745-3						
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	09-JUL-10
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	09-JUL-10
WG1131745-6	DUP	WG1131745-5						
Aluminum (Al)-Total		0.0899	0.0849		mg/L	5.8	20	10-JUL-10
Antimony (Sb)-Total		0.00301	0.00312		mg/L	3.7	20	10-JUL-10
Arsenic (As)-Total		0.00557	0.00588		mg/L	5.4	20	10-JUL-10
Barium (Ba)-Total		0.0479	0.0496		mg/L	3.3	20	10-JUL-10
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	10-JUL-10
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	10-JUL-10
Boron (B)-Total		0.204	0.220		mg/L	7.4	20	10-JUL-10
Cadmium (Cd)-Total		0.000109	0.000113		mg/L	3.6	20	10-JUL-10
Calcium (Ca)-Total		66.6	72.5		mg/L	8.5	20	10-JUL-10
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	10-JUL-10
Chromium (Cr)-Total		0.0046	0.0048	J	mg/L	0.0002	0.004	10-JUL-10
Cobalt (Co)-Total		<0.00020	0.00022	RPD-NA	mg/L	N/A	20	10-JUL-10
Copper (Cu)-Total		0.0442	0.0466		mg/L	5.2	20	10-JUL-10
Iron (Fe)-Total		0.270	0.321		mg/L	17	20	10-JUL-10
Lead (Pb)-Total		0.00116	0.00121		mg/L	3.9	20	10-JUL-10
Lithium (Li)-Total		0.107	0.114		mg/L	6.5	20	10-JUL-10
Magnesium (Mg)-Total		109	119		mg/L	8.8	20	10-JUL-10
Manganese (Mn)-Total		0.0300	0.0317		mg/L	5.6	20	10-JUL-10
Molybdenum (Mo)-Total		0.0389	0.0403		mg/L	3.6	20	10-JUL-10
Nickel (Ni)-Total		0.0227	0.0245		mg/L	7.7	20	10-JUL-10
Phosphorus (P)-Total		0.36	0.37	J	mg/L	0.02	0.8	10-JUL-10
Potassium (K)-Total		13.9	15.0		mg/L	7.6	20	10-JUL-10
Rubidium (Rb)-Total		0.00909	0.00955		mg/L	5.0	20	10-JUL-10
Selenium (Se)-Total		0.0030	0.0030	J	mg/L	0.0000	0.004	10-JUL-10
Silicon (Si)-Total		8.10	9.22		mg/L	13	20	10-JUL-10
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	10-JUL-10
Sodium (Na)-Total		68.0	74.1		mg/L	8.6	20	10-JUL-10
Strontium (Sr)-Total		0.427	0.449		mg/L	5.1	20	10-JUL-10
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	10-JUL-10
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	10-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
	Water							
Batch	R1345203							
WG1131745-6	DUP	WG1131745-5						
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	10-JUL-10
Tin (Sn)-Total		0.00052	0.00054	J	mg/L	0.00001	0.0008	10-JUL-10
Titanium (Ti)-Total		0.00550	0.00610		mg/L	10	20	10-JUL-10
Tungsten (W)-Total		0.0062	0.0063	J	mg/L	0.0001	0.004	10-JUL-10
Uranium (U)-Total		0.00903	0.00937		mg/L	3.7	20	10-JUL-10
Vanadium (V)-Total		0.00430	0.00457		mg/L	6.2	20	10-JUL-10
Zinc (Zn)-Total		0.0393	0.0412	J	mg/L	0.0019	0.02	10-JUL-10
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	10-JUL-10
WG1131745-2	LCS							
Aluminum (Al)-Total			115		%		80-120	09-JUL-10
Antimony (Sb)-Total			114		%		80-120	09-JUL-10
Arsenic (As)-Total			108		%		80-120	09-JUL-10
Barium (Ba)-Total			110		%		80-120	09-JUL-10
Beryllium (Be)-Total			109		%		80-120	09-JUL-10
Bismuth (Bi)-Total			105		%		80-120	09-JUL-10
Boron (B)-Total			104		%		80-120	09-JUL-10
Cadmium (Cd)-Total			106		%		80-120	09-JUL-10
Calcium (Ca)-Total			105		%		80-120	09-JUL-10
Cesium (Cs)-Total			106		%		80-120	09-JUL-10
Chromium (Cr)-Total			109		%		80-120	09-JUL-10
Cobalt (Co)-Total			103		%		80-120	09-JUL-10
Copper (Cu)-Total			105		%		80-120	09-JUL-10
Iron (Fe)-Total			101		%		80-120	09-JUL-10
Lead (Pb)-Total			104		%		80-120	09-JUL-10
Lithium (Li)-Total			103		%		80-120	09-JUL-10
Magnesium (Mg)-Total			104		%		80-120	09-JUL-10
Manganese (Mn)-Total			102		%		80-120	09-JUL-10
Molybdenum (Mo)-Total			110		%		80-120	09-JUL-10
Nickel (Ni)-Total			103		%		80-120	09-JUL-10
Phosphorus (P)-Total			109		%		80-120	09-JUL-10
Potassium (K)-Total			99		%		80-120	09-JUL-10
Rubidium (Rb)-Total			105		%		80-120	09-JUL-10
Selenium (Se)-Total			108		%		80-120	09-JUL-10



Quality Control Report

Workorder: L906318

Report Date: 02-SEP-10

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1345203							
WG1131745-2	LCS							
Silicon (Si)-Total			111		%		80-120	09-JUL-10
Silver (Ag)-Total			107		%		80-120	09-JUL-10
Sodium (Na)-Total			108		%		80-120	09-JUL-10
Strontium (Sr)-Total			104		%		80-120	09-JUL-10
Tellurium (Te)-Total			114		%		80-120	09-JUL-10
Thallium (Tl)-Total			106		%		80-120	09-JUL-10
Thorium (Th)-Total			104		%		63-138	09-JUL-10
Tin (Sn)-Total			111		%		80-120	09-JUL-10
Titanium (Ti)-Total			105		%		80-120	09-JUL-10
Tungsten (W)-Total			102		%		80-120	09-JUL-10
Uranium (U)-Total			99		%		80-120	09-JUL-10
Vanadium (V)-Total			103		%		80-120	09-JUL-10
Zinc (Zn)-Total			104		%		80-120	09-JUL-10
Zirconium (Zr)-Total			108		%		80-120	09-JUL-10
WG1131745-1	MB							
Aluminum (Al)-Total			<0.0050		mg/L		0.005	09-JUL-10
Antimony (Sb)-Total			<0.00020		mg/L		0.0002	09-JUL-10
Arsenic (As)-Total			<0.00020		mg/L		0.0002	09-JUL-10
Barium (Ba)-Total			<0.00020		mg/L		0.0002	09-JUL-10
Beryllium (Be)-Total			<0.00020		mg/L		0.0002	09-JUL-10
Bismuth (Bi)-Total			<0.00020		mg/L		0.0002	09-JUL-10
Boron (B)-Total			<0.010		mg/L		0.01	09-JUL-10
Cadmium (Cd)-Total			<0.000010		mg/L		0.00001	09-JUL-10
Calcium (Ca)-Total			<0.10		mg/L		0.1	09-JUL-10
Cesium (Cs)-Total			<0.00010		mg/L		0.0001	09-JUL-10
Chromium (Cr)-Total			<0.0010		mg/L		0.001	09-JUL-10
Cobalt (Co)-Total			<0.00020		mg/L		0.0002	09-JUL-10
Copper (Cu)-Total			<0.00020		mg/L		0.0002	09-JUL-10
Iron (Fe)-Total			<0.020		mg/L		0.02	09-JUL-10
Lead (Pb)-Total			<0.000090		mg/L		0.00009	09-JUL-10
Lithium (Li)-Total			<0.0020		mg/L		0.002	09-JUL-10
Magnesium (Mg)-Total			<0.010		mg/L		0.01	09-JUL-10
Manganese (Mn)-Total			<0.00030		mg/L		0.0003	09-JUL-10
Molybdenum (Mo)-Total			<0.00020		mg/L		0.0002	09-JUL-10



Quality Control Report

Workorder: L906318

Report Date: 02-SEP-10

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
	Water							
Batch	R1345203							
WG1131745-1 MB								
Nickel (Ni)-Total			<0.0020		mg/L		0.002	09-JUL-10
Phosphorus (P)-Total			<0.20		mg/L		0.2	09-JUL-10
Potassium (K)-Total			<0.020		mg/L		0.02	09-JUL-10
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	09-JUL-10
Selenium (Se)-Total			<0.0010		mg/L		0.001	09-JUL-10
Silicon (Si)-Total			<0.050		mg/L		0.05	09-JUL-10
Silver (Ag)-Total			<0.00010		mg/L		0.0001	09-JUL-10
Sodium (Na)-Total			<0.030		mg/L		0.03	09-JUL-10
Strontium (Sr)-Total			<0.00010		mg/L		0.0001	09-JUL-10
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	09-JUL-10
Thallium (Tl)-Total			<0.00010		mg/L		0.0001	09-JUL-10
Thorium (Th)-Total			<0.00010		mg/L		0.0001	09-JUL-10
Tin (Sn)-Total			<0.00020		mg/L		0.0002	09-JUL-10
Titanium (Ti)-Total			<0.00020		mg/L		0.0002	09-JUL-10
Tungsten (W)-Total			<0.0010		mg/L		0.001	09-JUL-10
Uranium (U)-Total			<0.00010		mg/L		0.0001	09-JUL-10
Vanadium (V)-Total			<0.00020		mg/L		0.0002	09-JUL-10
Zinc (Zn)-Total			<0.0050		mg/L		0.005	09-JUL-10
Zirconium (Zr)-Total			<0.00040		mg/L		0.0004	09-JUL-10
N-TOTKJ-WP								
	Water							
Batch	R1353503							
WG1133483-2 CCV								
Total Kjeldahl Nitrogen			91		%		90-110	13-JUL-10
WG1133483-1 CVS								
Total Kjeldahl Nitrogen			98		%		90-110	13-JUL-10
WG1132001-4 DUP		L906225-3						
Total Kjeldahl Nitrogen		0.42	0.51	J	mg/L	0.09	0.8	13-JUL-10
WG1132001-6 DUP		L906318-1						
Total Kjeldahl Nitrogen		0.85	0.88	J	mg/L	0.03	0.8	13-JUL-10
WG1132001-2 LCS								
Total Kjeldahl Nitrogen			90		%		75-125	13-JUL-10
WG1132001-1 MB								
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	13-JUL-10
WG1132001-3 MS		L906225-3						
Total Kjeldahl Nitrogen			106		%		70-130	13-JUL-10



Quality Control Report

Workorder: L906318

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
P-TOTAL-WP		Water						
Batch	R1353643							
WG1132137-2	CVS							
Phosphorus, Total			100		%		80-120	12-JUL-10
WG1132137-3	CVS							
Phosphorus, Total			98		%		80-120	12-JUL-10
WG1132137-6	CVS							
Phosphorus, Total			95		%		80-120	12-JUL-10
WG1132137-7	CVS							
Phosphorus, Total			96		%		80-120	12-JUL-10
WG1132137-8	DUP	L906496-1						
Phosphorus, Total		16.1	17.2		mg/L	6.6	20	12-JUL-10
WG1132137-1	MB							
Phosphorus, Total			<0.010		mg/L		0.01	12-JUL-10
WG1132137-5	MS	L906318-1						
Phosphorus, Total			86		%		70-130	12-JUL-10
WG1132137-9	MS	L906496-2						
Phosphorus, Total			99		%		70-130	12-JUL-10
PH-WP		Water						
Batch	R1337504							
WG1131558-4	CCV							
pH			100		%		90-110	08-JUL-10
WG1131558-3	CVS							
pH			100		%		99-101	08-JUL-10
WG1131558-7	DUP	L906125-1						
pH		7.75	7.82		pH units	0.85	5	08-JUL-10
WG1131558-8	DUP	L906225-1						
pH		8.02	8.03		pH units	0.11	5	08-JUL-10
WG1131558-9	DUP	L906318-3						
pH		8.29	8.28		pH units	0.036	5	08-JUL-10
SILICATE-COL-VA		Water						
Batch	R1371666							
WG1134793-10	CRM	VA-SIO2-CSPK1						
Silicate (as SIO2)			98		%		85-115	15-JUL-10
WG1134793-3	CRM	VA-SIO2-CSPK1						
Silicate (as SIO2)			108		%		85-115	15-JUL-10
WG1134793-6	CRM	VA-SIO2-CSPK10						
Silicate (as SIO2)			96		%		85-115	15-JUL-10
WG1134793-1	DUP	L906225-1						
Silicate (as SIO2)		1.2	1.2	J	mg/L	0.0	4	15-JUL-10



Quality Control Report

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SILICATE-COL-VA								
	Water							
Batch	R1371666							
WG1134793-4	DUP	L908024-5						
Silicate (as SiO2)		<1.0	<1.0	RPD-NA	mg/L	N/A	20	15-JUL-10
WG1134793-8	DUP	L908534-5						
Silicate (as SiO2)		6.2	6.2	J	mg/L	0.1	4	15-JUL-10
WG1134793-2	MB							
Silicate (as SiO2)			<1.0		mg/L		1	15-JUL-10
WG1134793-5	MB							
Silicate (as SiO2)			<1.0		mg/L		1	15-JUL-10
WG1134793-9	MB							
Silicate (as SiO2)			<1.0		mg/L		1	15-JUL-10
SO4-DIS-WP								
	Water							
Batch	R1353203							
WG1133432-3	CCV							
Sulphate (SO4) - Dissolved			96		%		90-110	13-JUL-10
WG1133432-2	CVS							
Sulphate (SO4) - Dissolved			95		%		85-115	13-JUL-10
WG1133412-1	MB							
Sulphate (SO4) - Dissolved			<9.0		mg/L		9	13-JUL-10
SOLIDS-TDS-WP								
	Water							
Batch	R1355943							
WG1133336-2	CVS							
Total Dissolved Solids			101		%		85-115	13-JUL-10
WG1133336-3	DUP	L906159-1						
Total Dissolved Solids		512	514		mg/L	0.39	20	13-JUL-10
WG1133336-5	DUP	L907456-1						
Total Dissolved Solids		840	830		mg/L	1.2	20	13-JUL-10
WG1133336-1	MB							
Total Dissolved Solids			<5.0		mg/L		5	13-JUL-10
SOLIDS-TOTSUS-WP								
	Water							
Batch	R1355943							
WG1133336-2	CVS							
Total Suspended Solids			92		%		85-115	13-JUL-10
WG1133336-5	DUP	L907456-1						
Total Suspended Solids		210	200		mg/L	4.9	20	13-JUL-10
WG1133336-6	DUP	L907559-4						
Total Suspended Solids		5.0	5.0	J	mg/L	0.0	20	13-JUL-10
WG1133336-1	MB							



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Report Date: 02-SEP-10

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SOLIDS-TOTSUS-WP								
	Water							
Batch	R1355943							
WG1133336-1	MB							
Total Suspended Solids			<5.0		mg/L		5	13-JUL-10
TURBIDITY-WP								
	Water							
Batch	R1345583							
WG1132119-4	CCV							
Turbidity			100		%		90-110	09-JUL-10
WG1132119-5	CCV							
Turbidity			102		%		90-110	09-JUL-10
WG1132119-2	CVS							
Turbidity			90		%		63-138	09-JUL-10
WG1132119-3	CVS							
Turbidity			91		%		63-138	09-JUL-10
WG1132119-7	DUP	L906568-12						
Turbidity		0.59	0.59	J	NTU	0.00	0.4	09-JUL-10
WG1132119-8	DUP	L906568-13						
Turbidity		11.8	12.0		NTU	1.7	15	09-JUL-10
WG1132119-6	LCS							
Turbidity			92		%		85-115	09-JUL-10
WG1132119-1	MB							
Turbidity			<0.10		NTU		0.1	09-JUL-10

Quality Control Report

Workorder: L906318

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Legend:

Limit 99% Confidence Interval (Laboratory Control Limits)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L906318

Report Date: 02-SEP-10

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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
True Colour	1	07-JUL-10 13:20	09-JUL-10 18:34	48	53	hours	EHTL
	2	07-JUL-10 13:37	09-JUL-10 18:34	48	53	hours	EHTL
	3	07-JUL-10 14:11	09-JUL-10 18:34	48	52	hours	EHTL
pH	1	07-JUL-10 13:20	08-JUL-10 17:11	0.25	28	hours	EHTR-FM
	2	07-JUL-10 13:37	08-JUL-10 17:11	0.25	28	hours	EHTR-FM
	3	07-JUL-10 14:11	08-JUL-10 17:11	0.25	27	hours	EHTR-FM

Legend & Qualifier Definitions:

EHTR-FM:	Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR:	Exceeded ALS recommended hold time prior to sample receipt.
EHTL:	Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT:	Exceeded ALS recommended hold time prior to analysis.
Rec. HT:	ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L906318 were received on 08-JUL-10 14:50.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

COOLER #S

Page **1** of **1**

L906318

Environmental Division



Report to: **AFLOM**
Company: **CLIFF SAMOILOFF**
Contact: **CLIFF SAMOILOFF**
Address: **99 Commerce Dr. WINNIPEG, MB R3P 0Y7**
Phone: **204-928-7427** **Fax:** **204-284-2040**
Invoice To: Same as Report? Yes / No?
Company:
Contact:
Address:
Phone: **024534** **Fax:**
Lab Work Order # (lab use only)
ALS Contact: **CHRISTINE** **Sampler:** **SK-LDB**

Report Format / Distribution
Standard: Other:
Select: PDF EXCEL Digital
Email 1: **cliff.samoiloff@aac.com**
Email 2: **shawna.kjordan@aac.com**
leanne.dolce@aac.com
Client / Project Information:
Job #: **60157028**
PO / A/E:
Legal Site Description:

Sample #	Sample Identification (This description will appear on the report)	Date	Time	Sample Type	Analysis Request							Number of Containers
					ACIDITY	CHL + PHOS	BOD / COD	TOTALS	ANIONS	TOT. METALS + Hg	DISS. METALS + Hg	
	ML-W01-60157028-20100707	7-JUL-10	1320	WATER	X	X	X	X	X	X	X	7
	ML-W02-60157028-20100707	7-JUL-10	1337	WATER	X	X	X	X	X	X	X	7
	ML-W03-60157028-20100707	7-JUL-10	1411	WATER	X	X	X	X	X	X	X	7

Special Instructions / Regulations / Hazardous Details
Label on bottles are only first 5 characters (eg. ML-W01). DISS. METALS NOT field filtered.

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.
 By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

SHIPPING RELEASE (client use)	SHIPPING RECEPTION (lab use only)	SHIPPING VERIFICATION (lab use only)
Released by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Verified by:
Date & Time: 7 JULY-10 17:00	Date: 8-7-10	Date & Time:
	Time: 2:50	Temperature: 18.4
		Observations: Yes / No? If Yes attach SIF



AECOM Canada Ltd. (Winnipeg)
ATTN: Clifton Samoiloff
99 Commerce Drive
Winnipeg MB R3P 0Y7
Phone: 204-928-7427

Date Received: 08-JUL-10
Report Date: 03-DEC-10 08:01 (MT)
Version: FINAL REV. 2

Certificate of Analysis

Lab Work Order #: L906402
Project P.O. #: NOT SUBMITTED
Job Reference: 60157028
Legal Site Desc:
C of C Numbers:

Comments:

15-NOV-10: revised prelim with Phyto
03-DEC-10: Amended report.

Paul Nicolas
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721
MANITOBA TECHNOLOGY CENTRE LTD. Part of the ALS Group A Campbell Brothers Limited Company

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906402-1 ML-PP2-60157028-20100707 Sampled By: SK, LDB on 07-JUL-10 @ 13:37 Matrix: WATER Miscellaneous Parameters Phytoplankton Biovolumes	See Attached					27-OCT-10	R1518308
L906402-2 VL-PP2-60157028-20100707 Sampled By: SK, LDB on 07-JUL-10 @ 11:06 Matrix: WATER Miscellaneous Parameters Phytoplankton Biovolumes	See Attached					27-OCT-10	R1518308
L906402-3 ML-ZP2-60157028-20100707 Sampled By: SK, LDB on 07-JUL-10 @ 13:55 Matrix: WATER Miscellaneous Parameters Zooplankton Biovolumes	See attached.				01-DEC-10	01-DEC-10	R1679204
L906402-4 VL-ZP2-60157028-20100707 Sampled By: SK, LDB on 07-JUL-10 @ 11:19 Matrix: WATER Miscellaneous Parameters Zooplankton Biovolumes	See attached.				01-DEC-10	01-DEC-10	R1679204
L906402-5 ML-SQ1-60157028-20100707 Sampled By: SK, LDB on 07-JUL-10 @ 13:30 Matrix: SEDIMENT Total Organic Carbon -Inorg & Total C Inorganic and Organic Carbon Inorganic Carbon Total Organic Carbon CaCO3 Equivalent Total Carbon by combustion method Total Carbon by Combustion Miscellaneous Parameters Mercury (Hg)-Total % Moisture Total Nitrogen by LECO Phosphorus, Total Particle Size Analysis: Hydrometer % Sand (2.0mm - 0.05mm) % Silt (0.05mm - 2um) % Clay (<2um) Texture Metals Aluminum (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Beryllium (Be) Bismuth (Bi) Boron (B) Cadmium (Cd) Calcium (Ca) Cesium (Cs) Chromium (Cr) Cobalt (Co)	0.12 32.0 1.32 32.1 0.114 97.5 3.06 520 7.3 46.1 46.7 Silty clay 3520 0.3 6.8 95.3 <0.1 0.19 14 0.85 11300 0.28 8 4.42		0.10 0.10 0.80 0.1 0.0050 0.10 0.020 100 1.0 1.0 1.0 5 0.1 0.1 0.5 0.1 0.02 1 0.02 100 0.02 1 0.02	% % % % mg/kg % % mg/kg % % % mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	14-JUL-10 14-JUL-10 14-JUL-10 13-JUL-10 12-JUL-10 14-JUL-10 13-JUL-10 14-JUL-10 14-JUL-10 16-JUL-10 14-JUL-10 16-JUL-10 14-JUL-10 16-JUL-10 12-JUL-10 12-JUL-10 12-JUL-10 12-JUL-10 12-JUL-10 12-JUL-10 12-JUL-10 12-JUL-10 12-JUL-10 12-JUL-10 12-JUL-10	14-JUL-10 14-JUL-10 14-JUL-10 13-JUL-10 03-AUG-10 14-JUL-10 13-JUL-10 14-JUL-10 16-JUL-10 16-JUL-10 16-JUL-10 16-JUL-10 12-JUL-10 12-JUL-10 12-JUL-10 12-JUL-10 12-JUL-10 12-JUL-10 12-JUL-10 12-JUL-10 12-JUL-10 12-JUL-10 12-JUL-10	R1362963 R1362963 R1362963 R1363043 R1411323 R1355627 R1363043 R1362623 R1368863 R1368863 R1368863 R1368863 R1350265 R1350265 R1350265 R1350265 R1350265 R1350265 R1350265 R1350265 R1350265 R1350265 R1350265

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906402-5 ML-SQ1-60157028-20100707 Sampled By: SK, LDB on 07-JUL-10 @ 13:30 Matrix: SEDIMENT							
Metals							
Copper (Cu)	62		1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Iron (Fe)	9260		30	mg/kg	12-JUL-10	12-JUL-10	R1350265
Lead (Pb)	26.3		0.2	mg/kg	12-JUL-10	12-JUL-10	R1350265
Magnesium (Mg)	2160		10	mg/kg	12-JUL-10	12-JUL-10	R1350265
Manganese (Mn)	194		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Molybdenum (Mo)	1.17		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Nickel (Ni)	14.9		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Phosphorus (P)	600		100	mg/kg	12-JUL-10	12-JUL-10	R1350265
Potassium (K)	550		30	mg/kg	12-JUL-10	12-JUL-10	R1350265
Rubidium (Rb)	3.34		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Selenium (Se)	1.9		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Silver (Ag)	<0.1		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Sodium (Na)	330		10	mg/kg	12-JUL-10	12-JUL-10	R1350265
Strontium (Sr)	20.0		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Tellurium (Te)	<0.1		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Thallium (Tl)	<0.1		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Tin (Sn)	<5		5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Titanium (Ti)	98.7		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Tungsten (W)	<0.05		0.05	mg/kg	12-JUL-10	12-JUL-10	R1350265
Uranium (U)	0.56		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Vanadium (V)	11.9		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Zinc (Zn)	80		10	mg/kg	12-JUL-10	12-JUL-10	R1350265
Zirconium (Zr)	1.9		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
L906402-6 ML-SQ2-60157028-20100707 Sampled By: SK, LDB on 07-JUL-10 @ 14:00 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.15		0.10	%	14-JUL-10	14-JUL-10	R1362963
Total Organic Carbon	31.5		0.10	%	14-JUL-10	14-JUL-10	R1362963
CaCO3 Equivalent	1.70		0.80	%	14-JUL-10	14-JUL-10	R1362963
Total Carbon by combustion method							
Total Carbon by Combustion	31.6		0.1	%	13-JUL-10	13-JUL-10	R1363043
Miscellaneous Parameters							
Mercury (Hg)-Total	0.125		0.0050	mg/kg	12-JUL-10	03-AUG-10	R1411323
% Moisture	97.4		0.10	%		14-JUL-10	R1355627
Total Nitrogen by LECO	2.93		0.020	%	13-JUL-10	13-JUL-10	R1363043
Phosphorus, Total	450		100	mg/kg	14-JUL-10	14-JUL-10	R1362623
Particle Size Analysis: Hydrometer							
% Sand (2.0mm - 0.05mm)	4.9		1.0	%	14-JUL-10	16-JUL-10	R1368863
% Silt (0.05mm - 2um)	45.9		1.0	%	14-JUL-10	16-JUL-10	R1368863
% Clay (<2um)	49.3		1.0	%	14-JUL-10	16-JUL-10	R1368863
Texture	Silty clay				14-JUL-10	16-JUL-10	R1368863
Metals							
Aluminum (Al)	4100		5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Antimony (Sb)	0.4		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Arsenic (As)	7.7		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Barium (Ba)	92.3		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Beryllium (Be)	<0.1		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Bismuth (Bi)	0.23		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Boron (B)	13		1	mg/kg	12-JUL-10	12-JUL-10	R1350265

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906402-6 ML-SQ2-60157028-20100707 Sampled By: SK, LDB on 07-JUL-10 @ 14:00 Matrix: SEDIMENT							
Metals							
Cadmium (Cd)	0.98		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Calcium (Ca)	11900		100	mg/kg	12-JUL-10	12-JUL-10	R1350265
Cesium (Cs)	0.32		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Chromium (Cr)	9		1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Cobalt (Co)	5.31		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Copper (Cu)	54		1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Iron (Fe)	9700		30	mg/kg	12-JUL-10	12-JUL-10	R1350265
Lead (Pb)	30.4		0.2	mg/kg	12-JUL-10	12-JUL-10	R1350265
Magnesium (Mg)	2430		10	mg/kg	12-JUL-10	12-JUL-10	R1350265
Manganese (Mn)	270		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Molybdenum (Mo)	1.20		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Nickel (Ni)	15.7		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Phosphorus (P)	600		100	mg/kg	12-JUL-10	12-JUL-10	R1350265
Potassium (K)	650		30	mg/kg	12-JUL-10	12-JUL-10	R1350265
Rubidium (Rb)	4.02		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Selenium (Se)	1.6		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Silver (Ag)	<0.1		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Sodium (Na)	340		10	mg/kg	12-JUL-10	12-JUL-10	R1350265
Strontium (Sr)	19.8		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Tellurium (Te)	0.1		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Thallium (Tl)	<0.1		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Tin (Sn)	<5		5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Titanium (Ti)	112		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Tungsten (W)	<0.05		0.05	mg/kg	12-JUL-10	12-JUL-10	R1350265
Uranium (U)	0.59		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Vanadium (V)	13.5		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Zinc (Zn)	80		10	mg/kg	12-JUL-10	12-JUL-10	R1350265
Zirconium (Zr)	2.1		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
L906402-7 ML-SQ3-60157028-20100707 Sampled By: SK, LDB on 07-JUL-10 @ 14:20 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	1.73		0.10	%	14-JUL-10	14-JUL-10	R1362963
Total Organic Carbon	9.27		0.10	%	14-JUL-10	14-JUL-10	R1362963
CaCO3 Equivalent	14.5		0.80	%	14-JUL-10	14-JUL-10	R1362963
Total Carbon by combustion method							
Total Carbon by Combustion	11.0		0.1	%	13-JUL-10	13-JUL-10	R1363043
Miscellaneous Parameters							
Mercury (Hg)-Total	0.0518		0.0050	mg/kg	12-JUL-10	03-AUG-10	R1411323
% Moisture	81.8		0.10	%		14-JUL-10	R1355627
Total Nitrogen by LECO	0.484		0.020	%	13-JUL-10	13-JUL-10	R1363043
Phosphorus, Total	240		100	mg/kg	14-JUL-10	14-JUL-10	R1362623
Particle Size Analysis: Hydrometer							
% Sand (2.0mm - 0.05mm)	29.2		1.0	%	14-JUL-10	16-JUL-10	R1368863
% Silt (0.05mm - 2um)	50.7		1.0	%	14-JUL-10	16-JUL-10	R1368863
% Clay (<2um)	20.1		1.0	%	14-JUL-10	16-JUL-10	R1368863
Texture	Silt loam				14-JUL-10	16-JUL-10	R1368863
Metals							
Aluminum (Al)	3260		5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Antimony (Sb)	<0.1		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906402-7 ML-SQ3-60157028-20100707 Sampled By: SK, LDB on 07-JUL-10 @ 14:20 Matrix: SEDIMENT							
Metals							
Arsenic (As)	1.7		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Barium (Ba)	56.1		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Beryllium (Be)	<0.1		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Bismuth (Bi)	<0.02		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Boron (B)	5		1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Cadmium (Cd)	0.24		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Calcium (Ca)	8400		100	mg/kg	12-JUL-10	12-JUL-10	R1350265
Cesium (Cs)	0.26		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Chromium (Cr)	3		1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Cobalt (Co)	4.57		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Copper (Cu)	57		1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Iron (Fe)	10600		30	mg/kg	12-JUL-10	12-JUL-10	R1350265
Lead (Pb)	4.0		0.2	mg/kg	12-JUL-10	12-JUL-10	R1350265
Magnesium (Mg)	2410		10	mg/kg	12-JUL-10	12-JUL-10	R1350265
Manganese (Mn)	293		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Molybdenum (Mo)	0.19		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Nickel (Ni)	3.7		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Phosphorus (P)	300		100	mg/kg	12-JUL-10	12-JUL-10	R1350265
Potassium (K)	580		30	mg/kg	12-JUL-10	12-JUL-10	R1350265
Rubidium (Rb)	2.73		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Selenium (Se)	1.0		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Silver (Ag)	<0.1		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Sodium (Na)	90		10	mg/kg	12-JUL-10	12-JUL-10	R1350265
Strontium (Sr)	11.9		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Tellurium (Te)	<0.1		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Thallium (Tl)	<0.1		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Tin (Sn)	<5		5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Titanium (Ti)	377		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Tungsten (W)	<0.05		0.05	mg/kg	12-JUL-10	12-JUL-10	R1350265
Uranium (U)	0.16		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Vanadium (V)	43.9		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Zinc (Zn)	60		10	mg/kg	12-JUL-10	12-JUL-10	R1350265
Zirconium (Zr)	1.7		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
L906402-8 VL-SQ1-60157028-20100707 Sampled By: SK, LDB on 07-JUL-10 @ 10:49 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	<0.10		0.10	%	14-JUL-10	14-JUL-10	R1362963
Total Organic Carbon	31.1		0.10	%	14-JUL-10	14-JUL-10	R1362963
CaCO3 Equivalent	0.89		0.80	%	14-JUL-10	14-JUL-10	R1362963
Total Carbon by combustion method							
Total Carbon by Combustion	31.1		0.1	%	13-JUL-10	13-JUL-10	R1363043
Miscellaneous Parameters							
Mercury (Hg)-Total	0.119		0.0050	mg/kg	12-JUL-10	03-AUG-10	R1411323
% Moisture	97.0		0.10	%		14-JUL-10	R1355627
Total Nitrogen by LECO	2.87		0.020	%	13-JUL-10	13-JUL-10	R1363043
Phosphorus, Total	840		100	mg/kg	14-JUL-10	14-JUL-10	R1362623
Particle Size Analysis: Hydrometer							
% Sand (2.0mm - 0.05mm)	3.0		1.0	%	14-JUL-10	16-JUL-10	R1368863
% Silt (0.05mm - 2um)	57.4		1.0	%	14-JUL-10	16-JUL-10	R1368863

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906402-8 VL-SQ1-60157028-20100707							
Sampled By: SK, LDB on 07-JUL-10 @ 10:49							
Matrix: SEDIMENT							
Particle Size Analysis: Hydrometer							
% Clay (<2um)	39.6		1.0	%	14-JUL-10	16-JUL-10	R1368863
Texture	Silty clay loam				14-JUL-10	16-JUL-10	R1368863
Metals							
Aluminum (Al)	7310		5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Antimony (Sb)	0.2		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Arsenic (As)	4.3		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Barium (Ba)	95.8		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Beryllium (Be)	0.2		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Bismuth (Bi)	0.12		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Boron (B)	14		1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Cadmium (Cd)	0.67		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Calcium (Ca)	16300		100	mg/kg	12-JUL-10	12-JUL-10	R1350265
Cesium (Cs)	0.69		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Chromium (Cr)	20		1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Cobalt (Co)	8.02		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Copper (Cu)	27		1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Iron (Fe)	11900		30	mg/kg	12-JUL-10	12-JUL-10	R1350265
Lead (Pb)	14.9		0.2	mg/kg	12-JUL-10	12-JUL-10	R1350265
Magnesium (Mg)	3840		10	mg/kg	12-JUL-10	12-JUL-10	R1350265
Manganese (Mn)	321		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Molybdenum (Mo)	1.17		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Nickel (Ni)	21.2		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Phosphorus (P)	900		100	mg/kg	12-JUL-10	12-JUL-10	R1350265
Potassium (K)	1520		30	mg/kg	12-JUL-10	12-JUL-10	R1350265
Rubidium (Rb)	11.8		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Selenium (Se)	1.2		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Silver (Ag)	<0.1		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Sodium (Na)	240		10	mg/kg	12-JUL-10	12-JUL-10	R1350265
Strontium (Sr)	29.9		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Tellurium (Te)	<0.1		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Thallium (Tl)	<0.1		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Tin (Sn)	<5		5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Titanium (Ti)	297		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Tungsten (W)	0.12		0.05	mg/kg	12-JUL-10	12-JUL-10	R1350265
Uranium (U)	1.95		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Vanadium (V)	18.1		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Zinc (Zn)	90		10	mg/kg	12-JUL-10	12-JUL-10	R1350265
Zirconium (Zr)	7.5		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
L906402-9 VL-SQ2-60157028-20100707							
Sampled By: SK, LDB on 07-JUL-10 @ 11:23							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	<0.10		0.10	%	14-JUL-10	14-JUL-10	R1362963
Total Organic Carbon	30.1		0.10	%	14-JUL-10	14-JUL-10	R1362963
CaCO3 Equivalent	0.84		0.80	%	14-JUL-10	14-JUL-10	R1362963
Total Carbon by combustion method							
Total Carbon by Combustion	30.1		0.1	%	13-JUL-10	13-JUL-10	R1363043
Miscellaneous Parameters							
Mercury (Hg)-Total	0.0864		0.0050	mg/kg	12-JUL-10	03-AUG-10	R1411323
% Moisture	96.4		0.10	%		14-JUL-10	R1355627

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906402-9 VL-SQ2-60157028-20100707							
Sampled By: SK, LDB on 07-JUL-10 @ 11:23							
Matrix: SEDIMENT							
Total Nitrogen by LECO	2.75		0.020	%	13-JUL-10	13-JUL-10	R1363043
Phosphorus, Total	740		100	mg/kg	14-JUL-10	14-JUL-10	R1362623
Particle Size Analysis: Hydrometer							
% Sand (2.0mm - 0.05mm)	3.9		1.0	%	14-JUL-10	16-JUL-10	R1368863
% Silt (0.05mm - 2um)	54.5		1.0	%	14-JUL-10	16-JUL-10	R1368863
% Clay (<2um)	41.6		1.0	%	14-JUL-10	16-JUL-10	R1368863
Texture	Silty clay				14-JUL-10	16-JUL-10	R1368863
Metals							
Aluminum (Al)	8160		5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Antimony (Sb)	0.1		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Arsenic (As)	3.4		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Barium (Ba)	108		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Beryllium (Be)	0.2		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Bismuth (Bi)	0.07		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Boron (B)	13		1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Cadmium (Cd)	0.40		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Calcium (Ca)	16000		100	mg/kg	12-JUL-10	12-JUL-10	R1350265
Cesium (Cs)	0.75		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Chromium (Cr)	24		1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Cobalt (Co)	9.06		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Copper (Cu)	26		1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Iron (Fe)	14600		30	mg/kg	12-JUL-10	12-JUL-10	R1350265
Lead (Pb)	8.1		0.2	mg/kg	12-JUL-10	12-JUL-10	R1350265
Magnesium (Mg)	4180		10	mg/kg	12-JUL-10	12-JUL-10	R1350265
Manganese (Mn)	388		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Molybdenum (Mo)	1.47		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Nickel (Ni)	23.8		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Phosphorus (P)	700		100	mg/kg	12-JUL-10	12-JUL-10	R1350265
Potassium (K)	1690		30	mg/kg	12-JUL-10	12-JUL-10	R1350265
Rubidium (Rb)	13.4		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Selenium (Se)	1.2		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Silver (Ag)	<0.1		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Sodium (Na)	280		10	mg/kg	12-JUL-10	12-JUL-10	R1350265
Strontium (Sr)	27.9		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Tellurium (Te)	<0.1		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Thallium (Tl)	0.1		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Tin (Sn)	<5		5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Titanium (Ti)	337		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Tungsten (W)	0.10		0.05	mg/kg	12-JUL-10	12-JUL-10	R1350265
Uranium (U)	2.38		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Vanadium (V)	22.1		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Zinc (Zn)	90		10	mg/kg	12-JUL-10	12-JUL-10	R1350265
Zirconium (Zr)	8.1		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
L906402-10 VL-SQ3-60157028-20100707							
Sampled By: SK, LDB on 07-JUL-10 @ 11:53							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.16		0.10	%	14-JUL-10	14-JUL-10	R1362963
Total Organic Carbon	30.0		0.10	%	14-JUL-10	14-JUL-10	R1362963
CaCO3 Equivalent	1.78		0.80	%	14-JUL-10	14-JUL-10	R1362963
Total Carbon by combustion method							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906402-10 VL-SQ3-60157028-20100707							
Sampled By: SK, LDB on 07-JUL-10 @ 11:53							
Matrix: SEDIMENT							
Total Carbon by combustion method							
Total Carbon by Combustion	30.1		0.1	%	13-JUL-10	13-JUL-10	R1363043
Miscellaneous Parameters							
Mercury (Hg)-Total	0.0838		0.0050	mg/kg	12-JUL-10	03-AUG-10	R1411323
% Moisture	93.9		0.10	%		14-JUL-10	R1355627
Total Nitrogen by LECO	2.89		0.020	%	13-JUL-10	13-JUL-10	R1363043
Phosphorus, Total	1080		100	mg/kg	14-JUL-10	14-JUL-10	R1362623
Particle Size Analysis: Hydrometer							
% Sand (2.0mm - 0.05mm)	2.7		1.0	%	14-JUL-10	16-JUL-10	R1368863
% Silt (0.05mm - 2um)	47.7		1.0	%	14-JUL-10	16-JUL-10	R1368863
% Clay (<2um)	49.6		1.0	%	14-JUL-10	16-JUL-10	R1368863
Texture	Silty clay				14-JUL-10	16-JUL-10	R1368863
Metals							
Aluminum (Al)	5410		5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Antimony (Sb)	<0.1		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Arsenic (As)	2.9		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Barium (Ba)	88.2		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Beryllium (Be)	0.1		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Bismuth (Bi)	0.08		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Boron (B)	10		1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Cadmium (Cd)	0.48		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Calcium (Ca)	12900		100	mg/kg	12-JUL-10	12-JUL-10	R1350265
Cesium (Cs)	0.46		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Chromium (Cr)	15		1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Cobalt (Co)	6.45		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Copper (Cu)	22		1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Iron (Fe)	8310		30	mg/kg	12-JUL-10	12-JUL-10	R1350265
Lead (Pb)	8.0		0.2	mg/kg	12-JUL-10	12-JUL-10	R1350265
Magnesium (Mg)	2910		10	mg/kg	12-JUL-10	12-JUL-10	R1350265
Manganese (Mn)	557		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Molybdenum (Mo)	0.99		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Nickel (Ni)	15.7		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Phosphorus (P)	1200		100	mg/kg	12-JUL-10	12-JUL-10	R1350265
Potassium (K)	1450		30	mg/kg	12-JUL-10	12-JUL-10	R1350265
Rubidium (Rb)	8.40		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Selenium (Se)	0.9		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Silver (Ag)	<0.1		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Sodium (Na)	210		10	mg/kg	12-JUL-10	12-JUL-10	R1350265
Strontium (Sr)	28.1		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Tellurium (Te)	<0.1		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Thallium (Tl)	<0.1		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265
Tin (Sn)	<5		5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Titanium (Ti)	218		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Tungsten (W)	0.07		0.05	mg/kg	12-JUL-10	12-JUL-10	R1350265
Uranium (U)	2.02		0.02	mg/kg	12-JUL-10	12-JUL-10	R1350265
Vanadium (V)	13.9		0.5	mg/kg	12-JUL-10	12-JUL-10	R1350265
Zinc (Zn)	70		10	mg/kg	12-JUL-10	12-JUL-10	R1350265
Zirconium (Zr)	3.0		0.1	mg/kg	12-JUL-10	12-JUL-10	R1350265

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
C-INORG-ORG-SK	Soil	Inorganic and Organic Carbon	SSSA (1996) P455-456
<p>When carbonates are decomposed with acid in an open system, carbon dioxide is released to the atmosphere. The decrease in sample weight resulting from CO₂ loss is proportional to the carbonate content of the soil.</p> <p>Reference: Loeppert, R.H. and Suarez, D.L. 1996. Gravimetric Method for Loss of Carbon Dioxide. P. 455-456 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5</p>			
C-TOT-LECO-SK	Soil	Total Carbon by combustion method	SSSA (1996) P. 973-974
<p>The sample is introduced into a quartz tube where it undergoes combustion at 900 °C in the presence of oxygen. Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen. This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.</p> <p>Reference: Nelson, D.W. and Sommers, L.E. 1996. Total Carbon, organic carbon and organic matter. P. 973-974 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5</p>			
HG-200.2-CVAF-WP	Soil	Mercury Total	EPA 7470A Rev 1,1994
<p>A hydrochloric acid/nitric acid and potassium persulphate block digestion is employed to oxidize the organomercury to inorganic mercury. After digestion, samples are analyzed using cold vapour techniques.</p>			
MET-200.2-MS-WP	Soil	Metals	EPA 200.8/200.2 /BCMOE-S
<p>This analysis is carried out using procedures adapted from US EPA method 200.2. Sample preparation procedure for spectrochemical determination of total recoverable elements. Soil samples are dried (<60 °C) and homogenized and a representative subsample of the dry material is digested. The digested samples are analyzed by ICPMS.</p> <p>The results are reported as mg/Kg dry weight or mg/Kg wet weight this is equivalent to ug/g dry weight or ug/g wet weight.</p> <p>Method Limitation: This method is not a total digestion technique. It is a very strong acid digestion that is intended to dissolve those metals that maybe environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not mobile in the environment. This method has known stability issues for determining Silicon.</p>			
MOIST-SK	Soil	Moisture Content	ASTM D2216-80
<p>The weighed portion of soil is placed in a 105°C oven overnight. The dried soil is allowed to cooled to room temperature, weighed and the % moisture is calculated.</p> <p>Reference: ASTM D2216-80</p>			
N-TOT-LECO-SK	Soil	Total Nitrogen by combustion method	SSSA (1996) p. 973-974
<p>The sample is introduced into a quartz tube where it undergoes combustion at 900 °C in the presence of oxygen. Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen. This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.</p> <p>Reference: Bremner, J.M. 1996. Nitrogen - Total (Dumas Methods). P. 1088 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5</p>			
P-TOT-SK	Soil	Total Phosphorus - HNO ₃ /HClO ₄ digestion	SSSA (1996) p. 870-872
<p>Phosphorous in soil is converted to soluble form by wet oxidation using a combination of nitric and perchloric acids. Perchloric acid oxidizes organic matter that interferes with analysis. Phosphorous in the extract is determined using ICP-AES.</p> <p>Reference :</p> <p>Kuo, S. 1996. Total Phosphorous, Digestion with Perchloric Acid p. 870-872 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5</p>			
PHYTO-BIO-WP	Water	Phytoplankton Biovolumes	Standard Methods 10200, 1998

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
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This procedure is applicable to the identification and enumeration of microscopic organisms occurring within samples of fresh water. Samples are prepared using a sedimentation technique, and are then examined using a compound phase contrast inverted microscope. Both phytoplankton and zooplankton are identified to species where possible, enumerated and reported.

PSA-1-SK	Soil	Particle Size Analysis: Hydrometer	CSSS (1993) P.508-509
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The hydrometer method is based on Stokes' Law which relates the radius of soil particles to the velocity of their sedimentation. Air-dried soil is wetted with a dispersing agent and then mixed with water in a sedimentation cylinder. The soil is allowed to settle and particle density readings(g/L) are taken after 40 seconds and 6 hours. These readings correspond to silt + clay and clay content respectively. Sand content is calculated by difference.

Reference:

Carter, M.R., 1993. Soil sampling and methods of analysis. Can. Soc. Soil Sci. Ottawa Ont. 508-509

Kalra, Y.P., Maynard, D.G. 1991. Methods manual for forest soil and plant analysis. Forestry Canada. p. 42-45.

** 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
SK	ALS LABORATORY GROUP - SASKATOON, SASKATCHEWAN, CANADA
WP	ALS LABORATORY GROUP - WINNIPEG, MANITOBA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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.



Quality Control Report

Workorder: L906402

Report Date: 03-DEC-10

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
C-INORG-ORG-SK								
	Soil							
Batch	R1362963							
WG1132938-1	DUP	L906402-7						
Inorganic Carbon		1.73	1.75		%	1.2	30	14-JUL-10
CaCO3 Equivalent		14.5	14.7		%	1.2	26	14-JUL-10
WG1132938-2	IRM	0.4%IC						
Inorganic Carbon			0.40		%		0.28-0.52	14-JUL-10
WG1132938-3	MB							
Inorganic Carbon			0.00		%		0.1	14-JUL-10
CaCO3 Equivalent			<0.80		%		0.8	14-JUL-10
C-TOT-LECO-SK								
	Soil							
Batch	R1363043							
WG1132940-1	DUP	L906402-7						
Total Carbon by Combustion		11.0	11.2		%	2.1	10	13-JUL-10
WG1132940-2	IRM	2004_SOIL						
Total Carbon by Combustion			1.5		%		1.1-1.7	13-JUL-10
WG1132940-3	MB							
Total Carbon by Combustion			<0.1		%		0.1	13-JUL-10
HG-200.2-CVAF-WP								
	Soil							
Batch	R1411323							
WG1144353-2	CRM	NRC PACS-2						
Mercury (Hg)-Total			114		%		70-130	03-AUG-10
WG1144353-3	CRM	NRC MESS-3						
Mercury (Hg)-Total			113		%		70-130	03-AUG-10
WG1144353-4	DUP	L906402-7						
Mercury (Hg)-Total		0.0518	0.0517		mg/kg	0.12	40	03-AUG-10
WG1144353-5	DUP	L906402-10						
Mercury (Hg)-Total		0.0838	0.0888		mg/kg	5.8	40	03-AUG-10
WG1144353-1	MB							
Mercury (Hg)-Total			<0.0050		mg/kg		0.005	03-AUG-10
MET-200.2-MS-WP								
	Soil							
Batch	R1350265							
WG1133088-3	CCV							
Aluminum (Al)			93		%		63-138	12-JUL-10
Antimony (Sb)			99		%		63-138	12-JUL-10
Arsenic (As)			96		%		63-138	12-JUL-10
Barium (Ba)			99		%		63-138	12-JUL-10
Beryllium (Be)			106		%		63-138	12-JUL-10



Quality Control Report

Workorder: L906402

Report Date: 03-DEC-10

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP								
	Soil							
Batch	R1350265							
WG1133088-3	CCV							
Bismuth (Bi)			101		%		63-138	12-JUL-10
Boron (B)			110		%		63-138	12-JUL-10
Cadmium (Cd)			100		%		63-138	12-JUL-10
Calcium (Ca)			98		%		63-138	12-JUL-10
Cesium (Cs)			97		%		63-138	12-JUL-10
Chromium (Cr)			96		%		63-138	12-JUL-10
Cobalt (Co)			97		%		63-138	12-JUL-10
Copper (Cu)			95		%		63-138	12-JUL-10
Iron (Fe)			95		%		63-138	12-JUL-10
Lead (Pb)			102		%		63-138	12-JUL-10
Magnesium (Mg)			96		%		63-138	12-JUL-10
Manganese (Mn)			98		%		63-138	12-JUL-10
Molybdenum (Mo)			99		%		63-138	12-JUL-10
Nickel (Ni)			98		%		63-138	12-JUL-10
Phosphorus (P)			95		%		63-138	12-JUL-10
Potassium (K)			97		%		63-138	12-JUL-10
Rubidium (Rb)			99		%		63-138	12-JUL-10
Selenium (Se)			95		%		63-138	12-JUL-10
Silver (Ag)			101		%		63-138	12-JUL-10
Sodium (Na)			98		%		63-138	12-JUL-10
Strontium (Sr)			97		%		63-138	12-JUL-10
Tellurium (Te)			102		%		63-138	12-JUL-10
Thallium (Tl)			99		%		63-138	12-JUL-10
Tin (Sn)			100		%		63-138	12-JUL-10
Titanium (Ti)			101		%		63-138	12-JUL-10
Tungsten (W)			101		%		63-138	12-JUL-10
Uranium (U)			101		%		63-138	12-JUL-10
Vanadium (V)			94		%		63-138	12-JUL-10
Zinc (Zn)			100		%		63-138	12-JUL-10
Zirconium (Zr)			100		%		63-138	12-JUL-10
WG1133062-2	CRM	NRC PACS-2						
Aluminum (Al)			98		%		70-130	12-JUL-10
Antimony (Sb)			117		%		70-130	12-JUL-10
Arsenic (As)			99		%		70-130	12-JUL-10



Quality Control Report

Workorder: L906402

Report Date: 03-DEC-10

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP								
	Soil							
Batch	R1350265							
WG1133062-2	CRM	NRC PACS-2						
Barium (Ba)			74		%		70-130	12-JUL-10
Beryllium (Be)			86		%		70-130	12-JUL-10
Boron (B)			100		%		70-130	12-JUL-10
Cadmium (Cd)			101		%		70-130	12-JUL-10
Calcium (Ca)			100		%		70-130	12-JUL-10
Chromium (Cr)			102		%		70-130	12-JUL-10
Cobalt (Co)			97		%		70-130	12-JUL-10
Copper (Cu)			100		%		70-130	12-JUL-10
Iron (Fe)			97		%		70-130	12-JUL-10
Lead (Pb)			96		%		70-130	12-JUL-10
Magnesium (Mg)			104		%		70-130	12-JUL-10
Manganese (Mn)			102		%		70-130	12-JUL-10
Molybdenum (Mo)			102		%		70-130	12-JUL-10
Nickel (Ni)			97		%		70-130	12-JUL-10
Phosphorus (P)			103		%		70-130	12-JUL-10
Potassium (K)			89		%		70-130	12-JUL-10
Selenium (Se)			122		%		70-130	12-JUL-10
Silver (Ag)			91		%		70-130	12-JUL-10
Sodium (Na)			103		%		70-130	12-JUL-10
Strontium (Sr)			97		%		70-130	12-JUL-10
Thallium (Tl)			86		%		70-130	12-JUL-10
Tin (Sn)			99		%		70-130	12-JUL-10
Titanium (Ti)			104		%		70-130	12-JUL-10
Uranium (U)			85		%		70-130	12-JUL-10
Vanadium (V)			106		%		70-130	12-JUL-10
Zinc (Zn)			100		%		70-130	12-JUL-10
WG1133062-3	CRM	NRC MESS-3						
Aluminum (Al)			74		%		70-130	12-JUL-10
Antimony (Sb)			84		%		70-130	12-JUL-10
Arsenic (As)			90		%		70-130	12-JUL-10
Barium (Ba)			95		%		70-130	12-JUL-10
Beryllium (Be)			72		%		70-130	12-JUL-10
Cadmium (Cd)			80		%		70-130	12-JUL-10
Calcium (Ca)			110		%		70-130	12-JUL-10



Quality Control Report

Workorder: L906402

Report Date: 03-DEC-10

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP								
	Soil							
Batch	R1350265							
WG1133062-3	CRM	NRC MESS-3						
Chromium (Cr)			80		%		70-130	12-JUL-10
Cobalt (Co)			101		%		70-130	12-JUL-10
Copper (Cu)			96		%		70-130	12-JUL-10
Iron (Fe)			103		%		70-130	12-JUL-10
Lead (Pb)			87		%		70-130	12-JUL-10
Magnesium (Mg)			100		%		70-130	12-JUL-10
Manganese (Mn)			115		%		70-130	12-JUL-10
Molybdenum (Mo)			95		%		70-130	12-JUL-10
Nickel (Ni)			98		%		70-130	12-JUL-10
Phosphorus (P)			96		%		70-130	12-JUL-10
Selenium (Se)			125		%		70-130	12-JUL-10
Silver (Ag)			87		%		70-130	12-JUL-10
Sodium (Na)			103		%		70-130	12-JUL-10
Strontium (Sr)			94		%		70-130	12-JUL-10
Tin (Sn)			91		%		70-130	12-JUL-10
Uranium (U)			85		%		70-130	12-JUL-10
Vanadium (V)			73		%		70-130	12-JUL-10
Zinc (Zn)			99		%		70-130	12-JUL-10
WG1133088-1	CVS							
Aluminum (Al)			94		%		70-130	12-JUL-10
Antimony (Sb)			98		%		70-130	12-JUL-10
Arsenic (As)			98		%		70-130	12-JUL-10
Barium (Ba)			98		%		70-130	12-JUL-10
Beryllium (Be)			98		%		70-130	12-JUL-10
Bismuth (Bi)			99		%		70-130	12-JUL-10
Boron (B)			100		%		70-130	12-JUL-10
Cadmium (Cd)			96		%		70-130	12-JUL-10
Calcium (Ca)			102		%		70-130	12-JUL-10
Cesium (Cs)			97		%		70-130	12-JUL-10
Chromium (Cr)			97		%		70-130	12-JUL-10
Cobalt (Co)			99		%		70-130	12-JUL-10
Copper (Cu)			97		%		70-130	12-JUL-10
Iron (Fe)			98		%		70-130	12-JUL-10
Lead (Pb)			98		%		70-130	12-JUL-10



Quality Control Report

Workorder: L906402

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP		Soil						
Batch	R1350265							
WG1133088-1	CVS							
Magnesium (Mg)			100		%		70-130	12-JUL-10
Manganese (Mn)			95		%		70-130	12-JUL-10
Molybdenum (Mo)			97		%		70-130	12-JUL-10
Nickel (Ni)			102		%		70-130	12-JUL-10
Phosphorus (P)			98		%		70-130	12-JUL-10
Potassium (K)			97		%		70-130	12-JUL-10
Rubidium (Rb)			94		%		70-130	12-JUL-10
Selenium (Se)			100		%		70-130	12-JUL-10
Silver (Ag)			96		%		70-130	12-JUL-10
Sodium (Na)			101		%		70-130	12-JUL-10
Strontium (Sr)			93		%		70-130	12-JUL-10
Tellurium (Te)			102		%		70-130	12-JUL-10
Thallium (Tl)			96		%		70-130	12-JUL-10
Tin (Sn)			96		%		70-130	12-JUL-10
Titanium (Ti)			100		%		70-130	12-JUL-10
Tungsten (W)			97		%		70-130	12-JUL-10
Uranium (U)			95		%		70-130	12-JUL-10
Vanadium (V)			94		%		70-130	12-JUL-10
Zinc (Zn)			103		%		70-130	12-JUL-10
Zirconium (Zr)			94		%		70-130	12-JUL-10
WG1133088-2	CVS							
Aluminum (Al)			103		%		70-130	12-JUL-10
Antimony (Sb)			103		%		70-130	12-JUL-10
Arsenic (As)			100		%		70-130	12-JUL-10
Barium (Ba)			103		%		70-130	12-JUL-10
Beryllium (Be)			101		%		70-130	12-JUL-10
Bismuth (Bi)			104		%		70-130	12-JUL-10
Boron (B)			105		%		70-130	12-JUL-10
Cadmium (Cd)			105		%		70-130	12-JUL-10
Calcium (Ca)			104		%		70-130	12-JUL-10
Cesium (Cs)			102		%		70-130	12-JUL-10
Chromium (Cr)			102		%		70-130	12-JUL-10
Cobalt (Co)			103		%		70-130	12-JUL-10
Copper (Cu)			99		%		70-130	12-JUL-10



Quality Control Report

Workorder: L906402

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP								
	Soil							
Batch	R1350265							
WG1133088-2	CVS							
Iron (Fe)			104		%		70-130	12-JUL-10
Lead (Pb)			102		%		70-130	12-JUL-10
Magnesium (Mg)			103		%		70-130	12-JUL-10
Manganese (Mn)			108		%		70-130	12-JUL-10
Molybdenum (Mo)			105		%		70-130	12-JUL-10
Nickel (Ni)			102		%		70-130	12-JUL-10
Phosphorus (P)			101		%		70-130	12-JUL-10
Potassium (K)			97		%		70-130	12-JUL-10
Rubidium (Rb)			105		%		70-130	12-JUL-10
Selenium (Se)			100		%		70-130	12-JUL-10
Silver (Ag)			104		%		70-130	12-JUL-10
Sodium (Na)			102		%		70-130	12-JUL-10
Strontium (Sr)			105		%		70-130	12-JUL-10
Tellurium (Te)			101		%		70-130	12-JUL-10
Thallium (Tl)			100		%		70-130	12-JUL-10
Tin (Sn)			105		%		70-130	12-JUL-10
Titanium (Ti)			101		%		70-130	12-JUL-10
Tungsten (W)			106		%		70-130	12-JUL-10
Uranium (U)			105		%		70-130	12-JUL-10
Vanadium (V)			101		%		70-130	12-JUL-10
Zinc (Zn)			103		%		70-130	12-JUL-10
Zirconium (Zr)			105		%		70-130	12-JUL-10
WG1133062-5	DUP	WG1133062-4						
Aluminum (Al)		3260	3350		mg/kg	2.6	40	12-JUL-10
Antimony (Sb)		<0.1	<0.1	RPD-NA	mg/kg	N/A	30	12-JUL-10
Arsenic (As)		1.7	1.8		mg/kg	3.3	30	12-JUL-10
Barium (Ba)		56.1	60.0		mg/kg	6.7	40	12-JUL-10
Beryllium (Be)		<0.1	<0.1	RPD-NA	mg/kg	N/A	30	12-JUL-10
Bismuth (Bi)		<0.02	<0.02	RPD-NA	mg/kg	N/A	30	12-JUL-10
Boron (B)		5	5	J	mg/kg	0	4	12-JUL-10
Cadmium (Cd)		0.24	0.25		mg/kg	3.1	30	12-JUL-10
Calcium (Ca)		8400	7700		mg/kg	8.3	30	12-JUL-10
Cesium (Cs)		0.26	0.28		mg/kg	7.1	30	12-JUL-10



Quality Control Report

Workorder: L906402

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP								
	Soil							
Batch	R1350265							
WG1133062-5	DUP	WG1133062-4						
Chromium (Cr)		3	3	J	mg/kg	0	4	12-JUL-10
Cobalt (Co)		4.57	4.65		mg/kg	1.7	30	12-JUL-10
Copper (Cu)		57	47		mg/kg	19	30	12-JUL-10
Iron (Fe)		10600	11000		mg/kg	3.7	30	12-JUL-10
Lead (Pb)		4.0	4.1		mg/kg	1.9	40	12-JUL-10
Magnesium (Mg)		2410	2450		mg/kg	1.3	30	12-JUL-10
Manganese (Mn)		293	316		mg/kg	7.3	30	12-JUL-10
Molybdenum (Mo)		0.19	0.14	J	mg/kg	0.04	0.08	12-JUL-10
Nickel (Ni)		3.7	3.9	J	mg/kg	0.2	2	12-JUL-10
Phosphorus (P)		300	300	J	mg/kg	0	400	12-JUL-10
Potassium (K)		580	550		mg/kg	6.4	40	12-JUL-10
Rubidium (Rb)		2.73	2.90		mg/kg	6.2	30	12-JUL-10
Selenium (Se)		1.0	0.9	J	mg/kg	0.1	2	12-JUL-10
Silver (Ag)		<0.1	<0.1	RPD-NA	mg/kg	N/A	40	12-JUL-10
Sodium (Na)		90	90	J	mg/kg	0	40	12-JUL-10
Strontium (Sr)		11.9	12.4		mg/kg	3.9	40	12-JUL-10
Tellurium (Te)		<0.1	<0.1	RPD-NA	mg/kg	N/A	30	12-JUL-10
Thallium (Tl)		<0.1	<0.1	RPD-NA	mg/kg	N/A	30	12-JUL-10
Tin (Sn)		<5	<5	RPD-NA	mg/kg	N/A	40	12-JUL-10
Titanium (Ti)		377	375		mg/kg	0.41	40	12-JUL-10
Tungsten (W)		<0.05	<0.05	RPD-NA	mg/kg	N/A	30	12-JUL-10
Uranium (U)		0.16	0.18	J	mg/kg	0.01	0.08	12-JUL-10
Vanadium (V)		43.9	44.9		mg/kg	2.2	30	12-JUL-10
Zinc (Zn)		60	60	J	mg/kg	0	40	12-JUL-10
Zirconium (Zr)		1.7	1.9		mg/kg	11	30	12-JUL-10
WG1133062-7	DUP	WG1133062-6						
Aluminum (Al)		5410	5340		mg/kg	1.2	40	12-JUL-10
Antimony (Sb)		<0.1	<0.1	RPD-NA	mg/kg	N/A	30	12-JUL-10
Arsenic (As)		2.9	3.1		mg/kg	4.9	30	12-JUL-10
Barium (Ba)		88.2	90.1		mg/kg	2.2	40	12-JUL-10
Beryllium (Be)		0.1	<0.1	RPD-NA	mg/kg	N/A	30	12-JUL-10
Bismuth (Bi)		0.08	0.07	J	mg/kg	0.00	0.08	12-JUL-10
Boron (B)		10	10	J	mg/kg	0	4	12-JUL-10



Quality Control Report

Workorder: L906402

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP								
	Soil							
Batch	R1350265							
WG1133062-7	DUP	WG1133062-6						
Cadmium (Cd)		0.48	0.58		mg/kg	19	30	12-JUL-10
Calcium (Ca)		12900	12200		mg/kg	5.3	30	12-JUL-10
Cesium (Cs)		0.46	0.47		mg/kg	3.2	30	12-JUL-10
Chromium (Cr)		15	16		mg/kg	9.9	30	12-JUL-10
Cobalt (Co)		6.45	6.44		mg/kg	0.13	30	12-JUL-10
Copper (Cu)		22	17		mg/kg	22	30	12-JUL-10
Iron (Fe)		8310	8490		mg/kg	2.1	30	12-JUL-10
Lead (Pb)		8.0	8.1		mg/kg	1.2	40	12-JUL-10
Magnesium (Mg)		2910	2830		mg/kg	3.0	30	12-JUL-10
Manganese (Mn)		557	556		mg/kg	0.21	30	12-JUL-10
Molybdenum (Mo)		0.99	0.96		mg/kg	2.7	40	12-JUL-10
Nickel (Ni)		15.7	16.3		mg/kg	4.4	30	12-JUL-10
Phosphorus (P)		1200	1200		mg/kg	0.65	30	12-JUL-10
Potassium (K)		1450	1360		mg/kg	6.5	40	12-JUL-10
Rubidium (Rb)		8.40	8.69		mg/kg	3.4	30	12-JUL-10
Selenium (Se)		0.9	0.9	J	mg/kg	0.0	2	12-JUL-10
Silver (Ag)		<0.1	<0.1	RPD-NA	mg/kg	N/A	40	12-JUL-10
Sodium (Na)		210	190		mg/kg	8.8	40	12-JUL-10
Strontium (Sr)		28.1	29.4		mg/kg	4.5	40	12-JUL-10
Tellurium (Te)		<0.1	<0.1	RPD-NA	mg/kg	N/A	30	12-JUL-10
Thallium (Tl)		<0.1	<0.1	RPD-NA	mg/kg	N/A	30	12-JUL-10
Tin (Sn)		<5	<5	RPD-NA	mg/kg	N/A	40	12-JUL-10
Titanium (Ti)		218	202		mg/kg	7.7	40	12-JUL-10
Tungsten (W)		0.07	0.07	J	mg/kg	0.00	0.2	12-JUL-10
Uranium (U)		2.02	1.96		mg/kg	2.8	30	12-JUL-10
Vanadium (V)		13.9	13.4		mg/kg	3.3	30	12-JUL-10
Zinc (Zn)		70	70	J	mg/kg	0	40	12-JUL-10
Zirconium (Zr)		3.0	3.0		mg/kg	1.2	30	12-JUL-10
WG1133062-1	MB							
Aluminum (Al)			<5		mg/kg dwt		5	12-JUL-10
Antimony (Sb)			<0.1		mg/kg dwt		0.1	12-JUL-10
Arsenic (As)			<0.1		mg/kg dwt		0.1	12-JUL-10
Barium (Ba)			<0.5		mg/kg dwt		0.5	12-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP								
	Soil							
Batch	R1350265							
WG1133062-1	MB							
Beryllium (Be)			<0.1		mg/kg dwt		0.1	12-JUL-10
Bismuth (Bi)			<0.02		mg/kg dwt		0.02	12-JUL-10
Boron (B)			<1		mg/kg dwt		1	12-JUL-10
Cadmium (Cd)			<0.02		mg/kg dwt		0.02	12-JUL-10
Calcium (Ca)			<100		mg/kg dwt		100	12-JUL-10
Cesium (Cs)			<0.02		mg/kg dwt		0.02	12-JUL-10
Chromium (Cr)			<1		mg/kg dwt		1	12-JUL-10
Cobalt (Co)			<0.02		mg/kg dwt		0.02	12-JUL-10
Copper (Cu)			<1		mg/kg dwt		1	12-JUL-10
Iron (Fe)			<30		mg/kg dwt		25	12-JUL-10
Lead (Pb)			<0.2		mg/kg dwt		0.2	12-JUL-10
Magnesium (Mg)			<10		mg/kg dwt		10	12-JUL-10
Manganese (Mn)			<0.5		mg/kg dwt		0.5	12-JUL-10
Molybdenum (Mo)			<0.02		mg/kg dwt		0.02	12-JUL-10
Nickel (Ni)			<0.5		mg/kg dwt		0.5	12-JUL-10
Phosphorus (P)			<100		mg/kg dwt		100	12-JUL-10
Potassium (K)			<30		mg/kg dwt		25	12-JUL-10
Rubidium (Rb)			<0.02		mg/kg dwt		0.02	12-JUL-10
Selenium (Se)			<0.5		mg/kg dwt		0.5	12-JUL-10
Silver (Ag)			<0.1		mg/kg dwt		0.1	12-JUL-10
Sodium (Na)			<10		mg/kg dwt		10	12-JUL-10
Strontium (Sr)			<0.1		mg/kg dwt		0.1	12-JUL-10
Tellurium (Te)			<0.1		mg/kg dwt		0.1	12-JUL-10
Thallium (Tl)			<0.1		mg/kg dwt		0.1	12-JUL-10
Tin (Sn)			<5		mg/kg dwt		5	12-JUL-10
Titanium (Ti)			<0.5		mg/kg dwt		0.5	12-JUL-10
Tungsten (W)			<0.05		mg/kg dwt		0.05	12-JUL-10
Uranium (U)			<0.02		mg/kg dwt		0.02	12-JUL-10
Vanadium (V)			<0.5		mg/kg dwt		0.5	12-JUL-10
Zinc (Zn)			<10		mg/kg dwt		10	12-JUL-10
Zirconium (Zr)			<0.1		mg/kg dwt		0.1	12-JUL-10

MOIST-SK **Soil**



Quality Control Report

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MOIST-SK								
	Soil							
Batch	R1355627							
WG1133384-1	DUP	L906402-5						
% Moisture		97.5	97.6		%	0.14	26	14-JUL-10
N-TOT-LECO-SK								
	Soil							
Batch	R1363043							
WG1132940-1	DUP	L906402-7						
Total Nitrogen by LECO		0.484	0.488	J	%	0.004	0.05	13-JUL-10
WG1132940-2	IRM	2004_SOIL						
WG1132940-3	MB							
Total Nitrogen by LECO			<0.020		%		0.02	13-JUL-10
P-TOT-SK								
	Soil							
Batch	R1362623							
WG1132922-2	CRM	SS-1_SOIL						
Phosphorus, Total			86		%		70-130	14-JUL-10
WG1132922-3	DUP	L906402-10						
Phosphorus, Total		1080	1110		mg/kg	3.4	30	14-JUL-10
WG1132922-4	DUP	L906836-2						
Phosphorus, Total		1470	1490		mg/kg	1.5	30	14-JUL-10
WG1132922-1	MB							
Phosphorus, Total			<100		mg/kg		100	14-JUL-10
PSA-1-SK								
	Soil							
Batch	R1368863							
WG1132789-1	DUP	L907175-5						
% Sand (2.0mm - 0.05mm)		42.5	45.1	J	%	2.6	5	16-JUL-10
% Silt (0.05mm - 2um)		41.2	39.5	J	%	1.7	5	16-JUL-10
% Clay (<2um)		16.3	15.4	J	%	0.9	5	16-JUL-10
WG1132789-2	IRM	FARM98						
% Sand (2.0mm - 0.05mm)			50.1		%		43-53	16-JUL-10
% Silt (0.05mm - 2um)			29.1		%		21-31	16-JUL-10
% Clay (<2um)			20.9		%		18-28	16-JUL-10

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Legend:

Limit	99% Confidence Interval (Laboratory Control Limits)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



ALS Laboratory Group
Manitoba Technology Centre
12-1329 Niakwa Road E
Winnipeg, Manitoba R2J 3T4
(204) 255-9720

Phytoplankton Sample Results

Lab Number: L906402-1 **Work Order:** L906402

Date Sampled: July 07, 2010 **Submitter:** AECOM

Source: ML-PP2-60157028-20100707 **WQNum**

Sample Type WATER

Class	Genus	Species	Number of Cells per litre	Unit Biovolume μ3	Total Biovolume μ3
Bacillariophyceae	<i>Cymbella</i>	sp.	200	16875	3375000
Bacillariophyceae	<i>Fragilaria</i>	sp.	6200	320	1984000
Bacillariophyceae	<i>Navicula</i>	sp.	32200	6000	193200000
Bacillariophyceae	<i>Synedra</i>	sp.	3700	540	1998000
Bacillariophyceae	<i>Tabellaria</i>	sp.	1400	2250	3150000
Chlorophyceae	<i>Botryococcus</i>	sp.	1200	27000	32400000
Chlorophyceae	<i>Cosmarium</i>	sp.	200	5625	1125000
Chlorophyceae	<i>Elakatothrix</i>	sp.	134400	135	18144000
Chlorophyceae	<i>Monoraphidium</i>	sp.	211200	120	25344000
Chlorophyceae	<i>Oocystis</i>	sp.	1200	1000	1200000
Chlorophyceae	<i>Pediastrum</i>	<i>Boryanum</i>	200	8100	1620000
Chlorophyceae	<i>Scenedesmus</i>	<i>arcuatus</i>	1600	160	256000
Chlorophyceae	<i>Scenedesmus</i>	sp.	307200	72	22118400
Chlorophyceae	<i>Staurastrum</i>	sp.	200	16000	3200000
Chrysoophyceae	<i>Bitrichia</i>	sp.	38400	288	11059200
Chrysoophyceae	<i>small chrysoophytes</i>		595200	64	38092800
Cryptophyceae	<i>Cryptomonas</i>	sp.	14900	2000	29800000
Myxophyceae	<i>Anabaena</i>	sp.	6200	4320	26784000
Myxophyceae	<i>Aphanocapsa</i>	sp.	2500	27000	67500000

Date Printed: October 27, 2010

Lab Number: L906402-1 **Work Order: L906402**

Date Sampled: July 07, 2010 Submitter: AECOM

Source: ML-PP2-60157028-20100707 WQNum

Sample Type WATER

Class	Genus	Species	Number of Cells per litre	Unit Biovolume µ3	Total Biovolume µ3
Myxophyceae	<i>Aphanothece</i>	<i>sp.</i>	17400	8000	139200000
Myxophyceae	<i>Chroococcus</i>	<i>sp.</i>	1200	8000	9600000
Myxophyceae	<i>Gomphosphaeria</i>	<i>sp.</i>	3700	8000	29600000
Myxophyceae	<i>Merismopedia</i>	<i>sp.</i>	134400	1	134400
Myxophyceae	<i>Planktolyngbya</i>	<i>sp.</i>	3700	480	1776000
Myxophyceae	<i>Planktothrix</i>	<i>sp.</i>	17400	3240	56376000
Myxophyceae	<i>Pseudoanabaena</i>	<i>sp.</i>	307200	360	110592000
Peridineae	<i>Ceratium</i>	<i>rhomvoides</i>	200	72000	14400000
Peridineae	<i>Peridinium</i>	<i>sp.</i>	200	36000	7200000



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Phytoplankton Sample Results

Lab Number: L906402-2 **Work Order:** L906402

Date Sampled: July 07, 2010 **Submitter:** AECOM

Source: VL-PP2-60157028-20100707 **WQNum**

Sample Type WATER

Class	Genus	Species	Number of Cells per litre	Unit Biovolume μ^3	Total Biovolume μ^3
Bacillariophyceae	<i>Cyclotella</i>	sp.	9900	4000	39600000
Bacillariophyceae	<i>Cymbella</i>	sp.	2500	900	2250000
Bacillariophyceae	<i>Navicula</i>	sp.	2500	1920	4800000
Bacillariophyceae	<i>Nitzschia</i>	sp.	38400	1800	69120000
Bacillariophyceae	<i>Synedra</i>	sp.	6200	720	4464000
Bacillariophyceae	<i>Tabellaria</i>	sp.	1200	1875	2250000
Chlorophyceae	<i>Botryococcus</i>	sp.	600	1250000	75000000
Chlorophyceae	<i>Cosmarium</i>	sp.	1200	5625	6750000
Chlorophyceae	<i>Crucigenia</i>	tetrapedia	153600	36	5529600
Chlorophyceae	<i>Elakatothrix</i>	sp.	27300	90	2457000
Chlorophyceae	<i>Monoraphidium</i>	sp.	153600	120	18432000
Chlorophyceae	<i>Oocystis</i>	sp.	5000	1000	5000000
Chlorophyceae	<i>Planctonema</i>	Lauterborni	800	1620	1296000
Chlorophyceae	<i>Quadrigula</i>	sp.	57600	180	10368000
Chlorophyceae	<i>Scenedesmus</i>	sp.	19800	160	3168000
Chlorophyceae	<i>Tetraedron</i>	minimum	19200	144	2764800
Chlorophyceae	<i>Tetraedron</i>	trigonum	1200	2250	2700000
Chrysophyceae	<i>Bitrichia</i>	sp.	19200	288	5529600
Chrysophyceae	<i>Dinobryon</i>	sp.	38400	240	9216000

Date Printed: November 22, 2010

Lab Number: L906402-2 **Work Order: L906402**

Date Sampled: July 07, 2010 Submitter: AECOM

Source: VL-PP2-60157028-20100707 WQNum

Sample Type WATER

Class	Genus	Species	Number of Cells per litre	Unit Biovolume µ3	Total Biovolume µ3
Chrysophyceae	<i>small chrysophytes</i>		768000	96	73728000
Cryptophyceae	<i>Cryptomonas</i>	<i>sp.</i>	9900	2000	19800000
Euglenophyceae	<i>Euglena</i>	<i>sp.</i>	200	6750	1350000
Euglenophyceae	<i>Trachelomonas</i>	<i>sp.</i>	400	18750	7500000
Myxophyceae	<i>Anabaena</i>	<i>sp.</i>	3700	4320	15984000
Myxophyceae	<i>Aphanocapsa</i>	<i>sp.</i>	2500	27000	67500000
Myxophyceae	<i>Aphanothece</i>	<i>sp.</i>	134400	27000	3628800000
Myxophyceae	<i>Chroococcus</i>	<i>sp.</i>	1600	3375	5400000
Myxophyceae	<i>Gomphosphaeria</i>	<i>sp.</i>	3700	2700	9990000
Myxophyceae	<i>Merismopedia</i>	<i>sp.</i>	19800	8	158400
Myxophyceae	<i>Planktolynbya</i>	<i>sp.</i>	1200	480	576000
Myxophyceae	<i>Planktothrix</i>	<i>sp.</i>	200	2160	432000
Myxophyceae	<i>Pseudoanabaena</i>	<i>sp.</i>	13600	480	6528000
Myxophyceae	<i>Rhabdoderma</i>	<i>sp.</i>	5000	40	200000
Myxophyceae	<i>Spirulina</i>	<i>sp.</i>	1200	1250	1500000
Peridinea	<i>Gymnodinium</i>	<i>sp.</i>	2500	1500	3750000



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Zooplankton Sample Results

Lab Number: L906402-3

Work Order: L906402

Date Sampled: July 07, 2010
Source: ML-ZP2-60157028-20100707

Submitter: SK/LDB
Sample ID:

Volume Decanted (mL): 100
Volume analyzed (mL): 10

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume μm^3	Biovolume per Sample μm^3
Rotifera				<i>Unidentified</i>		80	1.20E+08	9.60E+09
Crustacea	Branchiopoda	Cladocera	Bosminidae	<i>Bosmina</i>	<i>sp.</i>	40	5.40E+06	2.16E+08
Crustacea	Branchiopoda	Cladocera	Sididae	<i>Sida</i>	<i>crystallina</i>	20	8.10E+06	1.62E+08
Protozoa	Ciliata	Holotrichida	Trachelidae	<i>Dileptus</i>	<i>sp.</i>	200	1.46E+06	2.92E+08
Protozoa	Ciliata			<i>Unidentified</i>		150	2.12E+05	3.18E+07
Protozoa	Ciliata	Peritricha	Vorticellidae	<i>Vorticella</i>	<i>sp.</i>	640	5.51E+04	3.53E+07
Crustacea	Copepoda	Calanoida		<i>Naupili</i>		20	4.32E+06	8.64E+07
Crustacea	Copepoda			<i>Naupili</i>		1500	5.18E+06	7.78E+09
Protozoa	Heliozoa	Actinophryida	Actinophryidae	<i>Actinosphaerium</i>	<i>sp.</i>	10	7.29E+05	7.29E+06
Rotifera	Monogononta	Ploima	Notommatinae	<i>Cephalodella</i>	<i>sp.</i>	10	1.22E+06	1.22E+07
Rotifera	Monogononta	Flosculariacea	Conochilidae	<i>Conochilus</i>	<i>sp.</i>	620	3.24E+05	2.01E+08
Rotifera	Monogononta	Ploima	Gastropidae	<i>Gastropus</i>	<i>sp.</i>	100	1.01E+06	1.01E+08
Rotifera	Monogononta	Ploima	Brachionidae	<i>Kellicotia</i>	<i>longispina</i>	200	5.40E+05	1.08E+08
Rotifera	Monogononta	Ploima	Brachionidae	<i>Keratella</i>	<i>sp.</i>	3980	3.60E+05	1.43E+09

Date Printed: December 03, 2010



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Zooplankton Sample Results

Lab Number: L906402-3 **Work Order: L906402**

Date Sampled: July 07, 2010 **Submitter:** SK/LDB
Source: ML-ZP2-60157028-20100707 **Sample ID:**

Volume Decanted (mL): 100
Volume analyzed (mL): 10

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume μm^3	Biovolume μm^3 per Sample
Rotifera	Monogononta	Ploima	Lecanidae	<i>Lecane</i>	sp.	30	5.44E+07	1.63E+09
Rotifera	Monogononta	Ploima	Colurellidae	<i>Lepadella</i>	sp.	30	3.24E+05	9.72E+06
Rotifera	Monogononta	Ploima	Lecanidae	<i>Monostyla</i>	sp.	90	8.91E+05	8.02E+07
Rotifera	Monogononta	Ploima	Brachionidae	<i>Notholca</i>	sp.	30	3.25E+06	9.75E+07
Rotifera	Monogononta	Ploima	Synchaetidae	<i>Polyarthra</i>	sp.	500	3.60E+05	1.80E+08
Rotifera	Monogononta	Ploima	Trichocercidae	<i>Trichocerca</i>	sp.	10	1.18E+06	1.18E+07



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Zooplankton Sample Results

Lab Number: L906402-4 **Work Order: L906402**

Date Sampled: July 07, 2010 **Submitter:** SK/LDB
Source: VL-ZP2-60157028-20100707 **Sample ID:**

Volume Decanted (mL): 100
Volume analyzed (mL): 10

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume μ^3	Biovolume per Sample μ^3
Rotifera				<i>Unidentified</i>		10	5.63E+05	5.63E+06
Crustacea	Branchiopoda	Cladocera	Bosminidae	<i>Bosmina</i>	<i>sp.</i>	70	2.59E+06	1.81E+08
Protozoa	Ciliata			<i>Unidentified</i>		20	8.44E+05	1.69E+07
Protozoa	Ciliata	Peritricha	Vorticellidae	<i>Vorticella</i>	<i>sp.</i>	930	3.60E+04	3.35E+07
Crustacea	Copepoda	Calanoida	Diaptomidae	<i>Diaptomus</i>	<i>sp.</i>	200	4.15E+07	8.29E+09
Crustacea	Copepoda			<i>Naupilii</i>		760	3.96E+05	3.01E+08
Crustacea	Copepoda	Calanoida		<i>Naupilii</i>		10	6.08E+06	6.08E+07
Protozoa	Heliozoa	Actinophryida	Actinophryidae	<i>Actinosphaerium</i>	<i>sp.</i>	10	6.40E+04	6.40E+05
Rotifera	Monogononta	Flosculariacea	Conochilidae	<i>Conochiloides</i>	<i>sp.</i>	10	1.47E+05	1.47E+06
Rotifera	Monogononta	Flosculariacea	Conochilidae	<i>Conochilus</i>	<i>sp.</i>	160	4.90E+05	7.84E+07
Rotifera	Monogononta	Ploima	Gastropidae	<i>Gastropus</i>	<i>sp.</i>	40	4.41E+05	1.76E+07
Rotifera	Monogononta	Ploima	Brachionidae	<i>Kellicotia</i>	<i>longispina</i>	30	6.48E+05	1.94E+07
Rotifera	Monogononta	Ploima	Brachionidae	<i>Keratella</i>	<i>sp.</i>	40	9.72E+05	3.89E+07
Rotifera	Monogononta	Ploima	Synchaetidae	<i>Ploesoma</i>	<i>sp.</i>	10	9.72E+05	9.72E+06

Date Printed: December 03, 2010



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Zooplankton Sample Results

Lab Number: L906402-4 **Work Order: L906402**

Date Sampled: July 07, 2010

Submitter: SK/LDB

Volume Decanted (mL): 100

Source: VL-ZP2-60157028-20100707

Sample ID:

Volume analyzed (mL): 10

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume per Sample	μ3 Biovolume per Sample
Rotifera	Monogononta	Ploima	Synchaetidae	<i>Polyarthra</i>	<i>sp.</i>	380	4.32E+05	1.64E+08
Rotifera	Monogononta	Flosculariacea		<i>Unidentified</i>		90	2.21E+05	1.98E+07

COOLER #1

Environmental Division

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Page 1 of 1

L906402

Report to:		Report Format / Distribution		Service Requested: (rush - subject to availability)						
Company: AECOM		Standard: <input checked="" type="checkbox"/> Regular (Default)								
Contact: CLIFF SAMOLDF		Select: PDF <input checked="" type="checkbox"/> Excel <input type="checkbox"/> Digital <input type="checkbox"/> Other: <input type="checkbox"/>		Priority (2-3 Business Days) - 50% Surcharge						
Address: 99 COMMERCE ST.		Email 1: cliff.samoldf@aecom.com		Emergency (1 Business Day) - 100% Surcharge						
WINNIPEG, MB R3P 0Y7		Email 2: shawna.kjartansma@aecom.com		For Emergency < 1 Day, ASAP or Weekend - Contact ALS						
Phone: 204-928-7427		FAX: 204-284-2040		Analysis Request						
Invoice To: Same as Report? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Client / Project Information:		(Indicate Filtered or Preserved, F/P)						
Company:		Job #: 60157028								
Contact:		PO / AFE:								
Address:		Legal Site Description:								
Phone:		Quote #: Q24534								
Lab Work Order # (lab use only)		ALS CONTACT: CHRISTINE		Sampler: SK, LDB						
Sample #	Sample Identification (This description will appear on the report)	Date	Time	Sample Type	Phytoplankton ID	Z+P	Total Metastg	Moisture	Soil Prep	Number of Containers
1	ML-PP2-60157028-20100707	7-JUL-10	1337	WATER	X					1
2	VL-PP2-60157028-20100707	7-JUL-10	1106	WATER	X					1
3	ML-2P2-60157028-20100707	7-JUL-10	1355	WATER	X					1
4	VL-2P2-60157028-20100707	7-JUL-10	1119	WATER	X					1
5	ML-SQ1-60157028-20100707	7-JUL-10	1330	SEDIMENT	X	X	X	X	X	2
6	ML-SQ2-60157028-20100707	7-JUL-10	1400	SEDIMENT	X	X	X	X	X	2
7	ML-SQ3-60157028-20100707	7-JUL-10	1420	SEDIMENT	X	X	X	X	X	2
8	VL-SQ1-60157028-20100707	7-JUL-10	1049	SEDIMENT	X	X	X	X	X	2
9	VL-SQ2-60157028-20100707	7-JUL-10	1123	SEDIMENT	X	X	X	X	X	2
10	VL-SQ3-60157028-20100707	7-JUL-10	1153	SEDIMENT	X	X	X	X	X	2

Special Instructions / Regulations / Hazardous Details

Labels on jars will only have first 5 characters (eg. VL-2P2).

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

Released by:	Date & Time: 7-JUL-10 17:00	Received by:	Date: 8-7-10	Time: 9:10	Temperature: 14	Verified by:	Date & Time:	Observations: Yes / No? If Yes attach SIF
SHIPMENT RELEASE (client use)		SHIPMENT RECEPTION (lab use only)		SHIPMENT RECEIPT (lab use only)		GENF 18.00 Front		

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - REPORT COPY, PINK - FILE COPY, YELLOW - CLIENT COPY



Environmental Division

Certificate of Analysis

AECOM Canada Ltd. (Winnipeg)
ATTN: CLIFF SAMOIOLOFF
99 COMMERCE DRIVE
WINNIPEG MB R3P 0Y7

Report Date: 02-SEP-10 14:28 (MT)

Version: FINAL REV. 2

Lab Work Order #: L906861

Date Received: 09-JUL-10

Project P.O. #: NOT SUBMITTED

Job Reference: 60157028

Legal Site Desc:

CofC Numbers:

Other Information:

Comments:

02-SEP-10: Revised Report

Gail Hill
Account Manager

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906861-1 TB-60157028-20100708							
Sampled By: SK, LDB on 08-JUL-10 @ 08:00							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		14-JUL-10	R1361168
Ammonia (NH3) - Dissolved	<0.050		0.050	mg/L	09-JUL-10	23-JUL-10	R1399020
Bromide	<0.10		0.10	mg/L	13-JUL-10	13-JUL-10	R1355644
BOD Carbonaceous	<1.0		1.0	mg/L	10-JUL-10	15-JUL-10	R1362203
Chloride (Cl) - Dissolved	<9.0		9.0	mg/L	09-JUL-10	12-JUL-10	R1348444
Hardness (as CaCO3)	<0.30		0.30	mg/L		13-JUL-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	15-JUL-10	15-JUL-10	R1388824
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	16-JUL-10	16-JUL-10	R1389507
Nitrate+Nitrite-N - Dissolved	<0.050		0.050	mg/L	09-JUL-10	23-JUL-10	R1399020
Phosphorus, Total	<0.010		0.0030	mg/L		13-JUL-10	R1356744
Silicate (as SiO2)	<1.0		1.0	mg/L		15-JUL-10	R1371666
Sulphate (SO4) - Dissolved	<9.0		9.0	mg/L	09-JUL-10	12-JUL-10	R1348444
Total Dissolved Solids	<5.0		5.0	mg/L		14-JUL-10	R1362564
Total Inorganic Carbon	<1.0		1.0	mg/L		12-JUL-10	R1370423
Total Kjeldahl Nitrogen	<0.20		0.20	mg/L	10-JUL-10	12-JUL-10	R1349903
Total Organic Carbon	<1.0		1.0	mg/L		12-JUL-10	R1370423
Total Suspended Solids	<5.0		5.0	mg/L		14-JUL-10	R1362564
Color, True	<5.0		5.0	T.C.U.		09-JUL-10	R1348083
Turbidity	<0.10		0.10	NTU		09-JUL-10	R1345583
Hardness Calculated							
Hardness (as CaCO3)	0.29		0.20	mg/L		09-AUG-10	
Hardness (as CaCO3)	0.26		0.20	mg/L		13-JUL-10	
Total Metals by ICP-MS							
Aluminum (Al)-Total	<0.0050		0.0050	mg/L	12-JUL-10	12-JUL-10	R1352104
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Arsenic (As)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Barium (Ba)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Boron (B)-Total	<0.010		0.010	mg/L	12-JUL-10	12-JUL-10	R1352104
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	12-JUL-10	12-JUL-10	R1352104
Calcium (Ca)-Total	<0.10		0.10	mg/L	12-JUL-10	12-JUL-10	R1352104
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	12-JUL-10	12-JUL-10	R1352104
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Copper (Cu)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Iron (Fe)-Total	<0.020		0.020	mg/L	12-JUL-10	12-JUL-10	R1352104
Lead (Pb)-Total	<0.000090		0.000090	mg/L	12-JUL-10	12-JUL-10	R1352104
Lithium (Li)-Total	<0.0020		0.0020	mg/L	12-JUL-10	12-JUL-10	R1352104
Magnesium (Mg)-Total	<0.010		0.010	mg/L	12-JUL-10	12-JUL-10	R1352104
Manganese (Mn)-Total	<0.00030		0.00030	mg/L	12-JUL-10	12-JUL-10	R1352104
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	12-JUL-10	12-JUL-10	R1352104
Phosphorus (P)-Total	<0.20		0.20	mg/L	12-JUL-10	12-JUL-10	R1352104
Potassium (K)-Total	<0.020		0.020	mg/L	12-JUL-10	12-JUL-10	R1352104
Rubidium (Rb)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Selenium (Se)-Total	<0.0010		0.0010	mg/L	12-JUL-10	12-JUL-10	R1352104
Silicon (Si)-Total	<0.050		0.050	mg/L	12-JUL-10	12-JUL-10	R1352104
Silver (Ag)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Sodium (Na)-Total	<0.030		0.030	mg/L	12-JUL-10	12-JUL-10	R1352104

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906861-1 TB-60157028-20100708							
Sampled By: SK, LDB on 08-JUL-10 @ 08:00							
Matrix: WATER							
Total Metals by ICP-MS							
Strontium (Sr)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Thorium (Th)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Tin (Sn)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Tungsten (W)-Total	<0.0010		0.0010	mg/L	12-JUL-10	12-JUL-10	R1352104
Uranium (U)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Vanadium (V)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	12-JUL-10	12-JUL-10	R1352104
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	12-JUL-10	12-JUL-10	R1352104
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Arsenic (As)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Barium (Ba)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Boron (B)-Dissolved	<0.010		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	09-JUL-10	07-AUG-10	R1421107
Calcium (Ca)-Dissolved	0.117		0.050	mg/L	09-JUL-10	07-AUG-10	R1421107
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Copper (Cu)-Dissolved	0.00134		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	09-JUL-10	07-AUG-10	R1421107
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Magnesium (Mg)-Dissolved	<0.010		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107
Manganese (Mn)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Nickel (Ni)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	09-JUL-10	07-AUG-10	R1421107
Potassium (K)-Dissolved	<0.020		0.020	mg/L	09-JUL-10	07-AUG-10	R1421107
Rubidium (Rb)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	09-JUL-10	07-AUG-10	R1421107
Silicon (Si)-Dissolved	<0.050		0.050	mg/L	09-JUL-10	07-AUG-10	R1421107
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Sodium (Na)-Dissolved	<0.020		0.020	mg/L	09-JUL-10	07-AUG-10	R1421107
Strontium (Sr)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	09-JUL-10	07-AUG-10	R1421107
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	09-JUL-10	07-AUG-10	R1421107
Chlorophyll-a & Pheophytin-a							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906861-1 TB-60157028-20100708							
Sampled By: SK, LDB on 08-JUL-10 @ 08:00							
Matrix: WATER							
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	<1.0		1.0	ug/L	09-JUL-10	13-JUL-10	R1353923
Phaeophytin a	<1.0		1.0	ug/L	09-JUL-10	13-JUL-10	R1353923
ODb/ODa	1.0		1.0	ABS Ratio	09-JUL-10	13-JUL-10	R1353923
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	1.9		1.0	mg/L		12-JUL-10	R1350443
Bicarbonate (HCO3)	2.3		2.0	mg/L		12-JUL-10	R1350443
Carbonate (CO3)	<0.60		0.60	mg/L		12-JUL-10	R1350443
Hydroxide (OH)	<0.40		0.40	mg/L		12-JUL-10	R1350443
Conductivity							
Conductivity	0.70		0.40	umhos/cm		12-JUL-10	R1348063
pH							
pH	5.83		0.10	pH units		09-JUL-10	R1344783
L906861-2 FB-1-60157028-20100708							
Sampled By: SK, LDB on 08-JUL-10 @ 08:00							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		14-JUL-10	R1361168
Ammonia (NH3) - Dissolved	<0.050		0.050	mg/L	09-JUL-10	23-JUL-10	R1399020
Bromide	<0.10		0.10	mg/L	13-JUL-10	13-JUL-10	R1355644
BOD Carbonaceous	<1.0		1.0	mg/L	10-JUL-10	15-JUL-10	R1362203
Chloride (Cl) - Dissolved	<9.0		9.0	mg/L	09-JUL-10	12-JUL-10	R1348444
Hardness (as CaCO3)	0.36		0.30	mg/L		13-JUL-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	15-JUL-10	15-JUL-10	R1388824
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	16-JUL-10	16-JUL-10	R1389507
Nitrate+Nitrite-N - Dissolved	<0.050		0.050	mg/L	09-JUL-10	23-JUL-10	R1399020
Phosphorus, Total	<0.010	DLA	0.010	mg/L		13-JUL-10	R1356744
Silicate (as SiO2)	<1.0		1.0	mg/L		15-JUL-10	R1371666
Sulphate (SO4) - Dissolved	<9.0		9.0	mg/L	09-JUL-10	12-JUL-10	R1348444
Total Dissolved Solids	<5.0		5.0	mg/L		14-JUL-10	R1362564
Total Inorganic Carbon	<1.0		1.0	mg/L		12-JUL-10	R1370423
Total Kjeldahl Nitrogen	<0.20		0.20	mg/L	10-JUL-10	12-JUL-10	R1349903
Total Organic Carbon	<1.0		1.0	mg/L		12-JUL-10	R1370423
Total Suspended Solids	<5.0		5.0	mg/L		14-JUL-10	R1362564
Color, True	<5.0		5.0	T.C.U.		09-JUL-10	R1348083
Turbidity	<0.10		0.10	NTU		09-JUL-10	R1345583
Hardness Calculated							
Hardness (as CaCO3)	0.64		0.20	mg/L		09-AUG-10	
Hardness (as CaCO3)	0.61		0.20	mg/L		13-JUL-10	
Total Metals by ICP-MS							
Aluminum (Al)-Total	<0.0050		0.0050	mg/L	12-JUL-10	12-JUL-10	R1352104
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Arsenic (As)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Barium (Ba)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Boron (B)-Total	<0.010		0.010	mg/L	12-JUL-10	12-JUL-10	R1352104
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	12-JUL-10	12-JUL-10	R1352104
Calcium (Ca)-Total	0.15		0.10	mg/L	12-JUL-10	12-JUL-10	R1352104

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906861-2 FB-1-60157028-20100708							
Sampled By: SK, LDB on 08-JUL-10 @ 08:00							
Matrix: WATER							
Total Metals by ICP-MS							
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	12-JUL-10	12-JUL-10	R1352104
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Copper (Cu)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Iron (Fe)-Total	<0.020		0.020	mg/L	12-JUL-10	12-JUL-10	R1352104
Lead (Pb)-Total	<0.000090		0.000090	mg/L	12-JUL-10	12-JUL-10	R1352104
Lithium (Li)-Total	<0.0020		0.0020	mg/L	12-JUL-10	12-JUL-10	R1352104
Magnesium (Mg)-Total	<0.010		0.010	mg/L	12-JUL-10	12-JUL-10	R1352104
Manganese (Mn)-Total	<0.00030		0.00030	mg/L	12-JUL-10	12-JUL-10	R1352104
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	12-JUL-10	12-JUL-10	R1352104
Phosphorus (P)-Total	<0.20		0.20	mg/L	12-JUL-10	12-JUL-10	R1352104
Potassium (K)-Total	<0.020		0.020	mg/L	12-JUL-10	12-JUL-10	R1352104
Rubidium (Rb)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Selenium (Se)-Total	<0.0010		0.0010	mg/L	12-JUL-10	12-JUL-10	R1352104
Silicon (Si)-Total	<0.050		0.050	mg/L	12-JUL-10	12-JUL-10	R1352104
Silver (Ag)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Sodium (Na)-Total	<0.030		0.030	mg/L	12-JUL-10	12-JUL-10	R1352104
Strontium (Sr)-Total	0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Thorium (Th)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Tin (Sn)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Tungsten (W)-Total	<0.0010		0.0010	mg/L	12-JUL-10	12-JUL-10	R1352104
Uranium (U)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Vanadium (V)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	12-JUL-10	12-JUL-10	R1352104
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	12-JUL-10	12-JUL-10	R1352104
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Arsenic (As)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Barium (Ba)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Boron (B)-Dissolved	<0.010		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	09-JUL-10	07-AUG-10	R1421107
Calcium (Ca)-Dissolved	0.257		0.050	mg/L	09-JUL-10	07-AUG-10	R1421107
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Copper (Cu)-Dissolved	0.00130		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	09-JUL-10	07-AUG-10	R1421107
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Magnesium (Mg)-Dissolved	<0.010		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107
Manganese (Mn)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Nickel (Ni)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	09-JUL-10	07-AUG-10	R1421107

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906861-2 FB-1-60157028-20100708							
Sampled By: SK, LDB on 08-JUL-10 @ 08:00							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Potassium (K)-Dissolved	<0.020		0.020	mg/L	09-JUL-10	07-AUG-10	R1421107
Rubidium (Rb)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	09-JUL-10	07-AUG-10	R1421107
Silicon (Si)-Dissolved	<0.050		0.050	mg/L	09-JUL-10	07-AUG-10	R1421107
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Sodium (Na)-Dissolved	<0.020		0.020	mg/L	09-JUL-10	07-AUG-10	R1421107
Strontium (Sr)-Dissolved	0.00015		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	09-JUL-10	07-AUG-10	R1421107
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	09-JUL-10	07-AUG-10	R1421107
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	<1.0		1.0	ug/L	09-JUL-10	13-JUL-10	R1353923
Phaeophytin a	<1.0		1.0	ug/L	09-JUL-10	13-JUL-10	R1353923
ODb/ODa	1.0		1.0	ABS Ratio	09-JUL-10	13-JUL-10	R1353923
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	2.3		1.0	mg/L		12-JUL-10	R1350443
Bicarbonate (HCO3)	2.8		2.0	mg/L		12-JUL-10	R1350443
Carbonate (CO3)	<0.60		0.60	mg/L		12-JUL-10	R1350443
Hydroxide (OH)	<0.40		0.40	mg/L		12-JUL-10	R1350443
Conductivity							
Conductivity	1.28		0.40	umhos/cm		12-JUL-10	R1348063
pH							
pH	6.13		0.10	pH units		09-JUL-10	R1344783
L906861-3 DL-WQ1-60157028-20100708							
Sampled By: SK, LDB on 08-JUL-10 @ 08:00							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		14-JUL-10	R1361168
Note: Initial pH above the endpoint, pH 8.3							
Ammonia (NH3) - Dissolved	<0.050		0.050	mg/L	09-JUL-10	23-JUL-10	R1399020
Bromide	<0.10		0.10	mg/L	13-JUL-10	13-JUL-10	R1355644
BOD Carbonaceous	1.0		1.0	mg/L	10-JUL-10	15-JUL-10	R1362203
Chloride (Cl) - Dissolved	<9.0		9.0	mg/L	09-JUL-10	12-JUL-10	R1348444
Hardness (as CaCO3)	87.3		0.30	mg/L		16-JUL-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	15-JUL-10	15-JUL-10	R1388824
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	16-JUL-10	16-JUL-10	R1389507
Nitrate+Nitrite-N - Dissolved	<0.050		0.050	mg/L	09-JUL-10	23-JUL-10	R1399020
Phosphorus, Total	0.0122		0.0030	mg/L		13-JUL-10	R1356744
Silicate (as SiO2)	<1.0		1.0	mg/L		15-JUL-10	R1371666
Sulphate (SO4) - Dissolved	<9.0		9.0	mg/L	09-JUL-10	12-JUL-10	R1348444
Total Dissolved Solids	100		5.0	mg/L		14-JUL-10	R1362564
Total Inorganic Carbon	<1.0		1.0	mg/L		12-JUL-10	R1370423

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906861-3 DL-WQ1-60157028-20100708							
Sampled By: SK, LDB on 08-JUL-10 @ 08:00							
Matrix: WATER							
Total Kjeldahl Nitrogen	1.16		0.20	mg/L	10-JUL-10	12-JUL-10	R1349903
Total Organic Carbon	17.5		1.0	mg/L		12-JUL-10	R1370423
Total Suspended Solids	<5.0		5.0	mg/L		14-JUL-10	R1362564
Color, True	15.0		5.0	T.C.U.		09-JUL-10	R1348083
Turbidity	1.34		0.10	NTU		09-JUL-10	R1345583
Hardness Calculated							
Hardness (as CaCO3)	75.6		0.20	mg/L		13-JUL-10	
Hardness (as CaCO3)	77.3		0.20	mg/L		13-AUG-10	
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0126		0.0050	mg/L	12-JUL-10	12-JUL-10	R1352104
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Arsenic (As)-Total	0.00064		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Barium (Ba)-Total	0.00498		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Boron (B)-Total	0.014		0.010	mg/L	12-JUL-10	12-JUL-10	R1352104
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	12-JUL-10	12-JUL-10	R1352104
Calcium (Ca)-Total	21.4		0.10	mg/L	12-JUL-10	12-JUL-10	R1352104
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	12-JUL-10	12-JUL-10	R1352104
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Copper (Cu)-Total	0.00036		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Iron (Fe)-Total	0.111		0.020	mg/L	12-JUL-10	12-JUL-10	R1352104
Lead (Pb)-Total	<0.000090		0.000090	mg/L	12-JUL-10	12-JUL-10	R1352104
Lithium (Li)-Total	0.0026		0.0020	mg/L	12-JUL-10	12-JUL-10	R1352104
Magnesium (Mg)-Total	8.22		0.010	mg/L	12-JUL-10	12-JUL-10	R1352104
Manganese (Mn)-Total	0.0517		0.00030	mg/L	12-JUL-10	12-JUL-10	R1352104
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	12-JUL-10	12-JUL-10	R1352104
Phosphorus (P)-Total	<0.20		0.20	mg/L	12-JUL-10	12-JUL-10	R1352104
Potassium (K)-Total	2.09		0.020	mg/L	12-JUL-10	12-JUL-10	R1352104
Rubidium (Rb)-Total	0.00192		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Selenium (Se)-Total	<0.0010		0.0010	mg/L	12-JUL-10	12-JUL-10	R1352104
Silicon (Si)-Total	0.172		0.050	mg/L	12-JUL-10	12-JUL-10	R1352104
Silver (Ag)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Sodium (Na)-Total	2.42		0.030	mg/L	12-JUL-10	12-JUL-10	R1352104
Strontium (Sr)-Total	0.0292		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Thorium (Th)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Tin (Sn)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Tungsten (W)-Total	<0.0010		0.0010	mg/L	12-JUL-10	12-JUL-10	R1352104
Uranium (U)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Vanadium (V)-Total	<0.00020		0.00020	mg/L	12-JUL-10	14-JUL-10	R1363763
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	12-JUL-10	12-JUL-10	R1352104
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	12-JUL-10	12-JUL-10	R1352104
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0081		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Arsenic (As)-Dissolved	0.00061		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Barium (Ba)-Dissolved	0.00442		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906861-3 DL-WQ1-60157028-20100708							
Sampled By: SK, LDB on 08-JUL-10 @ 08:00							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Boron (B)-Dissolved	<0.010		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	09-JUL-10	07-AUG-10	R1421107
Calcium (Ca)-Dissolved	19.7		0.050	mg/L	09-JUL-10	07-AUG-10	R1421107
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Copper (Cu)-Dissolved	0.00034		0.00020	mg/L	09-JUL-10	12-AUG-10	R1438859
Iron (Fe)-Dissolved	0.015		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	09-JUL-10	07-AUG-10	R1421107
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Magnesium (Mg)-Dissolved	6.84		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107
Manganese (Mn)-Dissolved	0.00184		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Nickel (Ni)-Dissolved	0.00078		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	09-JUL-10	07-AUG-10	R1421107
Potassium (K)-Dissolved	1.89		0.020	mg/L	09-JUL-10	07-AUG-10	R1421107
Rubidium (Rb)-Dissolved	0.00151		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	09-JUL-10	07-AUG-10	R1421107
Silicon (Si)-Dissolved	0.201		0.050	mg/L	09-JUL-10	07-AUG-10	R1421107
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Sodium (Na)-Dissolved	2.06		0.020	mg/L	09-JUL-10	07-AUG-10	R1421107
Strontium (Sr)-Dissolved	0.0235		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	09-JUL-10	07-AUG-10	R1421107
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	14-JUL-10	R1363763
Zinc (Zn)-Dissolved	0.0052		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	09-JUL-10	07-AUG-10	R1421107
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	2.3		1.0	ug/L	09-JUL-10	13-JUL-10	R1353923
Phaeophytin a	<1.0		1.0	ug/L	09-JUL-10	13-JUL-10	R1353923
ODb/ODa	1.5		1.0	ABS Ratio	09-JUL-10	13-JUL-10	R1353923
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	80.8		1.0	mg/L		09-JUL-10	R1344783
Bicarbonate (HCO3)	94.2		2.0	mg/L		09-JUL-10	R1344783
Carbonate (CO3)	2.16		0.60	mg/L		09-JUL-10	R1344783
Hydroxide (OH)	<0.40		0.40	mg/L		09-JUL-10	R1344783
Conductivity							
Conductivity	152		0.40	umhos/cm		09-JUL-10	R1344783
pH							
pH	8.45		0.10	pH units		09-JUL-10	R1344783
L906861-4 DL-SQ1-60157028-20100708							
Sampled By: SK, LDB on 08-JUL-10 @ 08:00							
Matrix: SEDIMENT							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906861-4 DL-SQ1-60157028-20100708							
Sampled By: SK, LDB on 08-JUL-10 @ 08:00							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.13		0.10	%	15-JUL-10	15-JUL-10	R1366805
Total Organic Carbon	30.4		0.10	%	15-JUL-10	15-JUL-10	R1366805
CaCO3 Equivalent	1.59		0.80	%	15-JUL-10	15-JUL-10	R1366805
Total Carbon by combustion method							
Total Carbon by Combustion	30.5		0.1	%	14-JUL-10	14-JUL-10	R1366723
Miscellaneous Parameters							
Mercury (Hg)-Total	0.126		0.0050	mg/kg	14-JUL-10	03-AUG-10	R1411323
% Moisture	97.3		0.10	%		14-JUL-10	R1355623
Total Nitrogen by LECO	2.59		0.020	%	15-JUL-10	15-JUL-10	R1366883
Phosphorus, Total	570		100	mg/kg	16-JUL-10	16-JUL-10	R1369823
Particle Size Analysis: Hydrometer							
% Sand (2.0mm - 0.05mm)	6.6		1.0	%	14-JUL-10	16-JUL-10	R1368865
% Silt (0.05mm - 2um)	40.4		1.0	%	14-JUL-10	16-JUL-10	R1368865
% Clay (<2um)	52.9		1.0	%	14-JUL-10	16-JUL-10	R1368865
Texture	Silty clay				14-JUL-10	16-JUL-10	R1368865
Metals							
Aluminum (Al)	6900		5	mg/kg	14-JUL-10	15-JUL-10	R1362144
Antimony (Sb)	0.4		0.1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Arsenic (As)	3.1		0.1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Barium (Ba)	125		0.5	mg/kg	14-JUL-10	15-JUL-10	R1362144
Beryllium (Be)	0.3		0.1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Bismuth (Bi)	0.05		0.02	mg/kg	14-JUL-10	15-JUL-10	R1362144
Boron (B)	15		1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Cadmium (Cd)	0.39		0.02	mg/kg	14-JUL-10	15-JUL-10	R1362144
Calcium (Ca)	30100		100	mg/kg	14-JUL-10	15-JUL-10	R1362144
Cesium (Cs)	0.69		0.02	mg/kg	14-JUL-10	15-JUL-10	R1362144
Chromium (Cr)	27		1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Cobalt (Co)	6.76		0.02	mg/kg	14-JUL-10	15-JUL-10	R1362144
Copper (Cu)	42		1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Iron (Fe)	12200		30	mg/kg	14-JUL-10	15-JUL-10	R1362144
Lead (Pb)	35.3		0.2	mg/kg	14-JUL-10	15-JUL-10	R1362144
Magnesium (Mg)	11600		10	mg/kg	14-JUL-10	15-JUL-10	R1362144
Manganese (Mn)	226		0.5	mg/kg	14-JUL-10	15-JUL-10	R1362144
Molybdenum (Mo)	1.64		0.02	mg/kg	14-JUL-10	15-JUL-10	R1362144
Nickel (Ni)	22.8		0.5	mg/kg	14-JUL-10	15-JUL-10	R1362144
Phosphorus (P)	500		100	mg/kg	14-JUL-10	15-JUL-10	R1362144
Potassium (K)	1160		30	mg/kg	14-JUL-10	15-JUL-10	R1362144
Rubidium (Rb)	11.2		0.02	mg/kg	14-JUL-10	15-JUL-10	R1362144
Selenium (Se)	1.1		0.5	mg/kg	14-JUL-10	15-JUL-10	R1362144
Silver (Ag)	<0.1		0.1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Sodium (Na)	250		10	mg/kg	14-JUL-10	15-JUL-10	R1362144
Strontium (Sr)	44.2		0.1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Tellurium (Te)	<0.1		0.1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Thallium (Tl)	0.1		0.1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Tin (Sn)	<5		5	mg/kg	14-JUL-10	15-JUL-10	R1362144
Titanium (Ti)	252		0.5	mg/kg	14-JUL-10	15-JUL-10	R1362144
Tungsten (W)	0.14		0.05	mg/kg	14-JUL-10	15-JUL-10	R1362144
Uranium (U)	1.50		0.02	mg/kg	14-JUL-10	15-JUL-10	R1362144
Vanadium (V)	25.6		0.5	mg/kg	14-JUL-10	15-JUL-10	R1362144
Zinc (Zn)	90		10	mg/kg	14-JUL-10	15-JUL-10	R1362144

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906861-4 DL-SQ1-60157028-20100708 Sampled By: SK, LDB on 08-JUL-10 @ 08:00 Matrix: SEDIMENT Metals Zirconium (Zr)	5.1		0.1	mg/kg	14-JUL-10	15-JUL-10	R1362144

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Internal Reference Material	Total Carbon by Combustion	G	L906861-4
Matrix Spike	Total Kjeldahl Nitrogen	MS-B	L906861-1, -2, -3

Sample Parameter Qualifier Key:

Qualifier	Description
DLA	Detection Limit Adjusted For required dilution
G	QC result did not meet ALS DQO. Refer to narrative comments for further information.
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**
ACIDITY-LOW-WP	Water	Acidity	APHA Method 2310B
ALK-TOT-WP	Water	Alkalinity	APHA 2320B

Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO₃⁻ and H₂CO₃ endpoints indicated electrometrically.

BR-WT	Water	Bromide	EPA 300.0 (IC)
C-INORG-ORG-SK	Soil	Inorganic and Organic Carbon	SSSA (1996) P455-456

When carbonates are decomposed with acid in an open system, carbon dioxide is released to the atmosphere. The decrease in sample weight resulting from CO₂ loss is proportional to the carbonate content of the soil.

Reference:

Loeppert, R.H. and Suarez, D.L. 1996. Gravimetric Method for Loss of Carbon Dioxide. P. 455-456 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5

C-TOT-INORG-WP	Water	Total Inorganic Carbon	APHA 5310 B-Instrumental
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This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.

The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC.

TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.

C-TOT-LECO-SK	Soil	Total Carbon by combustion method	SSSA (1996) P. 973-974
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The sample is introduced into a quartz tube where it undergoes combustion at 900 °C in the presence of oxygen.

Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen.

This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.

Reference:

Nelson, D.W. and Sommers, L.E. 1996. Total Carbon, organic carbon and organic matter. P. 973-974 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5

C-TOT-ORG-WP	Water	Total Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
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This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.

The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC.

TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
CHL/A,PHEO/A-ACET-WP	Water	Chlorophyll-a & Pheophytin-a	APHA 10200H, 1998-664/750NM
<p>Chlorophyll-a is filtered from the sample, then extracted with 90% (v/v) acetone. Absorbance is measured spectrophotometrically at 664 nm and 750 nm. The extract is then acidified, converting chlorophyll-a to pheophytin-a. Absorbance is determined again after acidification. The chlorophyll-a concentration is determined from the decrease in absorbance upon acidification. When a detection limit of 0.5 ug/L is required, the volume of sample filtered is doubled to 700mL.</p> <p>Samples with an OD664 before/OD665 after acidification ratio (664b/665a) of 1.70 are considered to contain no pheophytin a and to be in excellent physiological condition. Solutions of pure pheophytin show no reduction in OD665 upon acidification and have a 664b/665a ratio of 1.0 Thus, mixtures of chlorophyll a and pheophytin a have absorption peak ratios ranging between 1.0 and 1.7. These ratios are based on the use of 90% acetone as solvent.</p>			
CL-DIS-WP	Water	Chloride Dissolved	APHA4500/LACHAT
<p>The thiocyanate ion is liberated from mercuric thiocyanate by the formation of soluble mercuric chloride. In the presence of ferric ion, the free thiocyanate forms a highly colored ferric thiocyanate complex. The intensity of the complex is proportional to the original chloride concentration and is measured by a colorimeter at 480 nm.</p>			
COL-TRU-WP	Water	True Colour	APHA, AWWA, WPCF
<p>Colour is measured by visual comparison against a routinely calibrated color disk. True color is the color of water from which turbidity has been removed by centrifugation.</p>			
CONSULT-BOD-CBOD-WP	Water	Carbonaceous BOD	APHA 5210 B-5 day Incub.-O2 electrode
<p>A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis.</p>			
EC-WP	Water	Conductivity	APHA 2510B
<p>Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.</p>			
ETL-HARDNESS-DIS-WP	Water	Hardness Calculated	Calculated
ETL-HARDNESS-TOT-WP	Water	Hardness Calculated	Calculated
HG-200.2-CVAF-WP	Soil	Mercury Total	EPA 7470A Rev 1,1994
<p>A hydrochloric acid/nitric acid and potassium persulphate block digestion is employed to oxidize the organomercury to inorganic mercury. After digestion, samples are analyzed using cold vapour techniques.</p>			
HG-D-CVAF-WP	Water	Mercury Dissolved	EPA245.7 V2.0
<p>Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.</p>			
HG-T-CVAF-WP	Water	Mercury Total	EPA245.7 V2.0
<p>Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.</p>			
MET-200.2-MS-WP	Soil	Metals	EPA 200.8/200.2 /BCMOE-S
<p>This analysis is carried out using procedures adapted from US EPA method 200.2. Sample preparation procedure for spectrochemical determination of total recoverable elements . Soil samples are dried (<60 C) and homogenized and a representative subsample of the dry material is digested. The digested samples are analyzed by ICPMS.</p> <p>The results are reported as mg/Kg dry weight or mg/Kg wet weight this is equivalent to ug/g dry weight or ug/g wet weight.</p> <p>Method Limitation: This method is not a total digestion technique. It is a very strong acid digestion that is intended to dissolve those metals that maybe environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not mobile in the environment. This method has known stability issues for determining Silicon.</p>			
MET-D-L-MS-WP	Water	Dissolved Metals by ICP-MS	U.S. EPA 200.8-DL
<p>Dissolved Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the Examination of Water and Wastewater method 3030B for filtration through a 0.45 um filter and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.</p>			

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
MET-T-L-MS-WP	Water	Total Metals by ICP-MS	U.S. EPA 200.8-TL
<p>Total Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the examination of Water and Wastewater Method 3030E and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.</p>			
MOIST-SK	Soil	Moisture Content	ASTM D2216-80
<p>The weighed portion of soil is placed in a 105°C oven overnight. The dried soil is allowed to cooled to room temperature, weighed and the % moisture is calculated.</p> <p>Reference: ASTM D2216-80</p>			
N-TOT-LECO-SK	Soil	Total Nitrogen by combustion method	SSSA (1996) p. 973-974
<p>The sample is introduced into a quartz tube where it undergoes combustion at 900 C in the presence of oxygen. Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen. This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.</p> <p>Reference: Bremner, J.M. 1996. Nitrogen - Total (Dumas Methods). P. 1088 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5</p>			
N-TOTKJ-WP	Water	Total Kjeldahl Nitrogen	Quickchem method 10-107-06-2-E Lachat
<p>Samples are digested with a sulphuric acid solution, cooled, diluted with water, and analyzed for ammonia. Total Kjeldahl nitrogen is the sum of free-ammonia and organic nitrogen compounds which are converted to ammonium sulphate through this digestion process. Analysis is performed by Flow Injection Analysis (FIA). The pH of the digested sample is raised to a known, basic pH by neutralization with a concentrated buffer solution. This neutralization converts the ammonium cation to ammonia. The ammonia produced is heated with salicylate and hypochlorite to produce blue colour which is proportional to the ammonia concentration.</p>			
N2N3-DIS-WP	Water	Nitrate + Nitrite Dissolved	APHA4500;2005/LACHAT;1997,1999
NH3-DIS-WP	Water	Ammonia Dissolved	LACHAT;2003
<p>Ammonia - Colourimetric using Salicylate-nitroprusside and hypochlorite, in an alkaline phosphate buffer.</p>			
P-TOT-SK	Soil	Total Phosphorus - HNO ₃ /HClO ₄ digestion	SSSA (1996) p. 870-872
<p>Phosphorous in soil is converted to soluble form by wet oxidation using a combination of nitric and perchloric acids. Perchloric acid oxidizes organic matter that interferes with analysis. Phosphorous in the extract is determined using ICP-AES.</p> <p>Reference :</p> <p>Kuo, S. 1996. Total Phosphorous, Digestion with Perchloric Acid p. 870-872 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5</p>			
P-TOTAL-WP	Water	Phosphorus, Total	APHA, 1998 P-T
<p>Samples are digested using a sulphuric acid-persulfate mixture to convert organic phosphorous to orthophosphate. The samples are analyzed by either the Flow Injection Analysis (FIA) or the Segmented Flow Analysis (SFA) method. The absorbance measured by the instrument is proportional to the concentration of orthophosphate in the sample, and is reported as phosphorous.</p>			
PH-WP	Water	pH	APHA 4500H
<p>pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.</p>			
PSA-1-SK	Soil	Particle Size Analysis: Hydrometer	CSSS (1993) P.508-509

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
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The hydrometer method is based on Stokes' Law which relates the radius of soil particles to the velocity of their sedimentation. Air-dried soil is wetted with a dispersing agent and then mixed with water in a sedimentation cylinder. The soil is allowed to settle and particle density readings(g/L) are taken after 40 seconds and 6 hours. These readings correspond to silt + clay and clay content respectively. Sand content is calculated by difference.

Reference:

Carter, M.R., 1993. Soil sampling and methods of analysis. Can. Soc. Soil Sci. Ottawa Ont. 508-509

Kalra, Y.P., Maynard, D.G. 1991. Methods manual for forest soil and plant analysis. Forestry Canada. p. 42-45.

SILICATE-COL-VA	Water	Silicate by Colourimetric analysis	APHA 4500-SIO2 D.
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This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 D. "Silica". Silicate (molybdate-reactive silica) is determined by the molybdosilicate-heteropoly blue colourimetric method.

SO4-DIS-WP	Water	Sulphate Dissolved	APHA4500/LACHAT
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The sample reacts with barium chloride in an acidic medium and precipitates the sulphate ion SO₄²⁻, which forms barium sulphate crystals of uniform size. The turbidity produced by the sulphate suspension is measured by a colorimeter at 420 nm.

SOLIDS-TDS-WP	Water	Total Dissolved Solids	APHA 2540
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The residue remaining in a prepared casserole after passing the sample through a 1.2 um Whatman GF/C glass microfibre filter and drying at 180 degrees C. Samples may be dried at 105 degrees C if the client specifically requests this drying temperature.

SOLIDS-TOTSUS-WP	Water	Total Suspended Solids	APHA 2540
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The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C.

TURBIDITY-WP	Water	Turbidity	APHA, 1998, 2130B
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A strong light beam is sent through a transparent tube containing the sample. Light that is reflected at 90 degrees to the axis by suspended particles is detected by the photocell. The electrical response is proportional to the sample turbidity.

** 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
WP	ALS LABORATORY GROUP - WINNIPEG, MANITOBA, CANADA
SK	ALS LABORATORY GROUP - SASKATOON, SASKATCHEWAN, CANADA
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA
WT	ALS LABORATORY GROUP - WATERLOO, ONTARIO, CANADA

Chain of Custody Numbers:

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
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GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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.



Quality Control Report

Workorder: L906861

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACIDITY-LOW-WP		Water						
Batch	R1361168							
WG1134412-1	CVS							
Acidity (as CaCO3)			106		%		85-115	14-JUL-10
WG1134412-2	DUP	L906318-3						
Acidity (as CaCO3)		<1.0	<1.0	RPD-NA	mg/L	N/A	20	14-JUL-10
WG1134412-3	DUP	L906861-2						
Acidity (as CaCO3)		<1.0	<1.0	RPD-NA	mg/L	N/A	20	14-JUL-10
ALK-TOT-WP		Water						
Batch	R1344783							
WG1132493-5	CVS							
Alkalinity, Total (as CaCO3)			103		%		85-115	09-JUL-10
WG1132493-6	DUP	L906844-1						
Alkalinity, Total (as CaCO3)		68.2	68.3		mg/L	0.23	20	09-JUL-10
Bicarbonate (HCO3)		83.2	83.4		mg/L	0.23	26	09-JUL-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	09-JUL-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	09-JUL-10
Batch	R1350443							
WG1133134-5	CVS							
Alkalinity, Total (as CaCO3)			104		%		85-115	12-JUL-10
WG1133134-6	DUP	L906064-1						
Alkalinity, Total (as CaCO3)		22.1	22.1		mg/L	0.090	20	12-JUL-10
Bicarbonate (HCO3)		26.9	27.0		mg/L	0.090	26	12-JUL-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	12-JUL-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	12-JUL-10
WG1133134-7	DUP	L906623-14						
Alkalinity, Total (as CaCO3)		16.6	16.6		mg/L	0.0	20	12-JUL-10
Bicarbonate (HCO3)		20.3	20.3		mg/L	0.0	26	12-JUL-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	12-JUL-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	12-JUL-10
BR-WT		Water						
Batch	R1355644							
WG1133139-3	LCS							
Bromide			97		%		75-125	13-JUL-10
WG1133139-4	LCSD	WG1133139-3						
Bromide		97	98		%	1.3	30	13-JUL-10
WG1133139-1	MB							
Bromide			<0.10		mg/L		0.1	13-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
C-TOT-INORG-WP		Water						
Batch	R1370423							
WG1135458-3	CCV							
Total Inorganic Carbon			103		%		80-120	12-JUL-10
WG1135458-2	CVS							
Total Inorganic Carbon			98		%		80-120	14-JUL-10
WG1135458-11	DUP	WG1135458-10						
Total Inorganic Carbon		10.2	10.5		mg/L	2.1	20	13-JUL-10
WG1135458-5	DUP	WG1135458-4						
Total Inorganic Carbon		<1.0	<1.0	RPD-NA	mg/L	N/A	20	12-JUL-10
WG1135458-7	DUP	WG1135458-6						
Total Inorganic Carbon		1.2	1.4	J	mg/L	0.2	4	12-JUL-10
WG1135458-9	DUP	WG1135458-8						
Total Inorganic Carbon		12.1	12.3		mg/L	1.6	20	13-JUL-10
WG1135458-1	MB							
Total Inorganic Carbon			<1.0		mg/L		1	12-JUL-10
C-TOT-ORG-WP		Water						
Batch	R1370423							
WG1135458-3	CCV							
Total Organic Carbon			102		%		63-138	12-JUL-10
WG1135458-2	CVS							
Total Organic Carbon			101		%		80-120	14-JUL-10
WG1135458-11	DUP	WG1135458-10						
Total Organic Carbon		7.9	7.6	J	mg/L	0.2	4	13-JUL-10
WG1135458-5	DUP	WG1135458-4						
Total Organic Carbon		73.9	73.9		mg/L	0.075	20	12-JUL-10
WG1135458-7	DUP	WG1135458-6						
Total Organic Carbon		10.4	10.2		mg/L	2.1	20	12-JUL-10
WG1135458-9	DUP	WG1135458-8						
Total Organic Carbon		19.2	19.0		mg/L	1.2	20	13-JUL-10
WG1135458-1	MB							
Total Organic Carbon			<1.0		mg/L		1	12-JUL-10
CHL/A,PHEO/A-ACET-WP		Water						
Batch	R1353923							
WG1133036-1	CVS							
Chlorophyll a			102		%		65-135	13-JUL-10
WG1133036-2	CVS							
Chlorophyll a			106		%		65-135	13-JUL-10
CL-DIS-WP	Water							



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-DIS-WP								
	Water							
Batch	R1348444							
WG1132848-3	CCV							
Chloride (Cl) - Dissolved			101		%		85-115	12-JUL-10
WG1132848-2	CVS							
Chloride (Cl) - Dissolved			100		%		85-115	12-JUL-10
WG1132835-1	MB							
Chloride (Cl) - Dissolved			<9.0		mg/L		9	12-JUL-10
COL-TRU-WP								
	Water							
Batch	R1348083							
WG1132651-3	DUP	L906727-2						
Color, True		<5.0	<5.0	RPD-NA	T.C.U.	N/A	20	09-JUL-10
WG1132651-1	MB							
Color, True			<5.0		T.C.U.		5	09-JUL-10
CONSULT-BOD-CBOD-WP								
	Water							
Batch	R1362203							
WG1132174-3	DUP	L906861-1						
BOD Carbonaceous		<1.0	<1.0	RPD-NA	mg/L	N/A	20	15-JUL-10
WG1132174-2	IRM	61-GG						
BOD Carbonaceous			98		%		85-115	15-JUL-10
WG1132174-1	MB							
BOD Carbonaceous			<1.0		mg/L		1	15-JUL-10
EC-WP								
	Water							
Batch	R1344783							
WG1132493-2	CCV							
Conductivity			101		%		95-105	09-JUL-10
WG1132493-1	CVS							
Conductivity			99		%		90-110	09-JUL-10
WG1132493-6	DUP	L906844-1						
Conductivity		251	251		umhos/cm	0.0	10	09-JUL-10
Batch	R1348063							
WG1132829-2	CCV							
Conductivity			101		%		95-105	12-JUL-10
WG1132829-1	CVS							
Conductivity			100		%		90-110	12-JUL-10
WG1132829-3	DUP	L906623-10						
Conductivity		0.81	0.80	J	umhos/cm	0.01	1.6	12-JUL-10
HG-D-CVAF-WP								
	Water							



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Client: AECOM Canada Ltd. (Winnipeg)
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 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-D-CVAF-WP								
	Water							
Batch	R1388824							
WG1137638-2	DUP	L907120-4						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	15-JUL-10
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	15-JUL-10
WG1137641-2	LCS							
Mercury (Hg)-Dissolved			95		%		63-138	15-JUL-10
Mercury (Hg)-Dissolved			95		%		63-138	15-JUL-10
WG1137638-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	15-JUL-10
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	15-JUL-10
WG1137641-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	15-JUL-10
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	15-JUL-10
WG1137638-3	MS	L907120-4						
Mercury (Hg)-Dissolved			99		%		70-130	15-JUL-10
Mercury (Hg)-Dissolved			99		%		70-130	15-JUL-10
HG-T-CVAF-WP								
	Water							
Batch	R1389507							
WG1137745-3	DUP	L906568-1						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	16-JUL-10
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	16-JUL-10
WG1137745-2	LCS							
Mercury (Hg)-Total			101		%		63-138	16-JUL-10
Mercury (Hg)-Total			101		%		63-138	16-JUL-10
WG1137745-1	MB							
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	16-JUL-10
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	16-JUL-10
WG1137745-4	MS	L906568-1						
Mercury (Hg)-Total			102		%		70-130	16-JUL-10
Mercury (Hg)-Total			102		%		70-130	16-JUL-10
MET-D-L-MS-WP								
	Water							
Batch	R1363763							
WG1134744-3	CCV							
Vanadium (V)-Dissolved			101		%		90-110	14-JUL-10
WG1134744-1	CVS							
Vanadium (V)-Dissolved			100		%		80-120	14-JUL-10
WG1134744-2	CVS							
Vanadium (V)-Dissolved			98		%		80-120	14-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
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 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1421107							
WG1146960-3	CCV							
Aluminum (Al)-Dissolved			97		%		90-110	06-AUG-10
Antimony (Sb)-Dissolved			98		%		90-110	06-AUG-10
Arsenic (As)-Dissolved			97		%		90-110	06-AUG-10
Barium (Ba)-Dissolved			98		%		90-110	06-AUG-10
Beryllium (Be)-Dissolved			103		%		90-110	06-AUG-10
Bismuth (Bi)-Dissolved			97		%		90-110	06-AUG-10
Boron (B)-Dissolved			97		%		90-110	06-AUG-10
Cadmium (Cd)-Dissolved			99		%		90-110	06-AUG-10
Calcium (Ca)-Dissolved			104		%		90-110	06-AUG-10
Cesium (Cs)-Dissolved			95		%		90-110	06-AUG-10
Chromium (Cr)-Dissolved			102		%		90-110	06-AUG-10
Cobalt (Co)-Dissolved			101		%		90-110	06-AUG-10
Copper (Cu)-Dissolved			102		%		90-110	06-AUG-10
Iron (Fe)-Dissolved			102		%		90-110	06-AUG-10
Lead (Pb)-Dissolved			100		%		90-110	06-AUG-10
Lithium (Li)-Dissolved			107		%		90-110	06-AUG-10
Magnesium (Mg)-Dissolved			99		%		90-110	06-AUG-10
Manganese (Mn)-Dissolved			101		%		90-110	06-AUG-10
Molybdenum (Mo)-Dissolved			96		%		90-110	06-AUG-10
Nickel (Ni)-Dissolved			100		%		90-110	06-AUG-10
Phosphorus (P)-Dissolved			100		%		90-110	06-AUG-10
Potassium (K)-Dissolved			100		%		90-110	06-AUG-10
Rubidium (Rb)-Dissolved			100		%		90-110	06-AUG-10
Selenium (Se)-Dissolved			97		%		90-110	06-AUG-10
Silicon (Si)-Dissolved			98		%		90-110	06-AUG-10
Silver (Ag)-Dissolved			97		%		90-110	06-AUG-10
Sodium (Na)-Dissolved			101		%		90-110	06-AUG-10
Strontium (Sr)-Dissolved			100		%		90-110	06-AUG-10
Tellurium (Te)-Dissolved			101		%		90-110	06-AUG-10
Thallium (Tl)-Dissolved			98		%		90-110	06-AUG-10
Thorium (Th)-Dissolved			92		%		63-138	06-AUG-10
Tin (Sn)-Dissolved			96		%		90-110	06-AUG-10
Titanium (Ti)-Dissolved			96		%		90-110	06-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP	Water							
Batch	R1421107							
WG1146960-3	CCV							
Tungsten (W)-Dissolved			99		%		90-110	06-AUG-10
Uranium (U)-Dissolved			95		%		90-110	06-AUG-10
Vanadium (V)-Dissolved			98		%		90-110	06-AUG-10
Zinc (Zn)-Dissolved			100		%		90-110	06-AUG-10
Zirconium (Zr)-Dissolved			95		%		90-110	06-AUG-10
WG1146960-1	CVS							
Aluminum (Al)-Dissolved			96		%		80-120	06-AUG-10
Antimony (Sb)-Dissolved			102		%		80-120	06-AUG-10
Arsenic (As)-Dissolved			98		%		80-120	06-AUG-10
Barium (Ba)-Dissolved			105		%		80-120	06-AUG-10
Beryllium (Be)-Dissolved			98		%		80-120	06-AUG-10
Bismuth (Bi)-Dissolved			103		%		80-120	06-AUG-10
Boron (B)-Dissolved			101		%		80-120	06-AUG-10
Cadmium (Cd)-Dissolved			98		%		80-120	06-AUG-10
Calcium (Ca)-Dissolved			101		%		80-120	06-AUG-10
Cesium (Cs)-Dissolved			98		%		80-120	06-AUG-10
Chromium (Cr)-Dissolved			98		%		80-120	06-AUG-10
Cobalt (Co)-Dissolved			100		%		80-120	06-AUG-10
Copper (Cu)-Dissolved			101		%		80-120	06-AUG-10
Iron (Fe)-Dissolved			99		%		80-120	06-AUG-10
Lead (Pb)-Dissolved			103		%		80-120	06-AUG-10
Lithium (Li)-Dissolved			97		%		80-120	06-AUG-10
Magnesium (Mg)-Dissolved			103		%		80-120	06-AUG-10
Manganese (Mn)-Dissolved			97		%		80-120	06-AUG-10
Molybdenum (Mo)-Dissolved			95		%		80-120	06-AUG-10
Nickel (Ni)-Dissolved			102		%		80-120	06-AUG-10
Phosphorus (P)-Dissolved			98		%		80-120	06-AUG-10
Potassium (K)-Dissolved			105		%		80-120	06-AUG-10
Rubidium (Rb)-Dissolved			96		%		80-120	06-AUG-10
Selenium (Se)-Dissolved			99		%		80-120	06-AUG-10
Silicon (Si)-Dissolved			98		%		63-138	06-AUG-10
Silver (Ag)-Dissolved			95		%		63-138	06-AUG-10
Sodium (Na)-Dissolved			103		%		80-120	06-AUG-10
Strontium (Sr)-Dissolved			96		%		80-120	06-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1421107							
WG1146960-1 CVS								
Tellurium (Te)-Dissolved			100		%		80-120	06-AUG-10
Thallium (Tl)-Dissolved			100		%		80-120	06-AUG-10
Thorium (Th)-Dissolved			100		%		63-138	06-AUG-10
Tin (Sn)-Dissolved			92		%		80-120	06-AUG-10
Titanium (Ti)-Dissolved			93		%		80-120	06-AUG-10
Tungsten (W)-Dissolved			100		%		80-120	06-AUG-10
Uranium (U)-Dissolved			99		%		80-120	06-AUG-10
Vanadium (V)-Dissolved			97		%		80-120	06-AUG-10
Zinc (Zn)-Dissolved			99		%		80-120	06-AUG-10
Zirconium (Zr)-Dissolved			93		%		80-120	06-AUG-10
WG1146960-2 CVS								
Aluminum (Al)-Dissolved			106		%		80-120	06-AUG-10
Antimony (Sb)-Dissolved			104		%		80-120	06-AUG-10
Arsenic (As)-Dissolved			99		%		80-120	06-AUG-10
Barium (Ba)-Dissolved			101		%		80-120	06-AUG-10
Beryllium (Be)-Dissolved			101		%		80-120	06-AUG-10
Bismuth (Bi)-Dissolved			103		%		80-120	06-AUG-10
Boron (B)-Dissolved			100		%		80-120	06-AUG-10
Cadmium (Cd)-Dissolved			103		%		80-120	06-AUG-10
Calcium (Ca)-Dissolved			101		%		80-120	06-AUG-10
Cesium (Cs)-Dissolved			101		%		80-120	06-AUG-10
Chromium (Cr)-Dissolved			100		%		80-120	06-AUG-10
Cobalt (Co)-Dissolved			105		%		80-120	06-AUG-10
Copper (Cu)-Dissolved			104		%		80-120	06-AUG-10
Iron (Fe)-Dissolved			103		%		80-120	06-AUG-10
Lead (Pb)-Dissolved			104		%		80-120	06-AUG-10
Lithium (Li)-Dissolved			95		%		80-120	06-AUG-10
Magnesium (Mg)-Dissolved			97		%		80-120	06-AUG-10
Manganese (Mn)-Dissolved			100		%		80-120	06-AUG-10
Molybdenum (Mo)-Dissolved			101		%		80-120	06-AUG-10
Nickel (Ni)-Dissolved			100		%		80-120	06-AUG-10
Phosphorus (P)-Dissolved			99		%		80-120	06-AUG-10
Potassium (K)-Dissolved			101		%		80-120	06-AUG-10
Rubidium (Rb)-Dissolved			109		%		80-120	06-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP								
	Water							
Batch	R1421107							
WG1146960-2	CVS							
Selenium (Se)-Dissolved			97		%		80-120	06-AUG-10
Silicon (Si)-Dissolved			102		%		63-138	06-AUG-10
Silver (Ag)-Dissolved			100		%		63-138	06-AUG-10
Sodium (Na)-Dissolved			98		%		80-120	06-AUG-10
Strontium (Sr)-Dissolved			104		%		80-120	06-AUG-10
Tellurium (Te)-Dissolved			98		%		80-120	06-AUG-10
Thallium (Tl)-Dissolved			103		%		80-120	06-AUG-10
Thorium (Th)-Dissolved			103		%		63-138	06-AUG-10
Tin (Sn)-Dissolved			99		%		80-120	06-AUG-10
Titanium (Ti)-Dissolved			94		%		80-120	06-AUG-10
Tungsten (W)-Dissolved			103		%		80-120	06-AUG-10
Uranium (U)-Dissolved			103		%		80-120	06-AUG-10
Vanadium (V)-Dissolved			102		%		80-120	06-AUG-10
Zinc (Zn)-Dissolved			100		%		80-120	06-AUG-10
Zirconium (Zr)-Dissolved			102		%		80-120	06-AUG-10
WG1146953-3	DUP	WG1146953-2						
Aluminum (Al)-Dissolved		0.0031	0.0029	J	mg/L	0.0001	0.008	07-AUG-10
Antimony (Sb)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Arsenic (As)-Dissolved		0.00110	0.00107	J	mg/L	0.00003	0.0008	07-AUG-10
Barium (Ba)-Dissolved		0.0150	0.0152		mg/L	1.5	20	07-AUG-10
Beryllium (Be)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Bismuth (Bi)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Boron (B)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	07-AUG-10
Cadmium (Cd)-Dissolved		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	07-AUG-10
Calcium (Ca)-Dissolved		16.6	16.2		mg/L	2.3	20	07-AUG-10
Cesium (Cs)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	07-AUG-10
Chromium (Cr)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Cobalt (Co)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Copper (Cu)-Dissolved		0.00210	0.00207		mg/L	1.2	20	07-AUG-10
Iron (Fe)-Dissolved		0.065	0.063	J	mg/L	0.002	0.04	07-AUG-10
Lead (Pb)-Dissolved		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	07-AUG-10
Lithium (Li)-Dissolved		0.0047	0.0041	J	mg/L	0.0007	0.008	07-AUG-10
Magnesium (Mg)-Dissolved		5.50	5.34		mg/L	3.1	20	07-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1421107							
WG1146953-3	DUP	WG1146953-2						
Manganese (Mn)-Dissolved		0.00047	0.00046	J	mg/L	0.00001	0.0008	07-AUG-10
Molybdenum (Mo)-Dissolved		0.00017	0.00017	J	mg/L	0.00000	0.0004	07-AUG-10
Nickel (Ni)-Dissolved		0.00069	0.00057	J	mg/L	0.00012	0.0008	07-AUG-10
Phosphorus (P)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	20	07-AUG-10
Potassium (K)-Dissolved		2.18	2.07		mg/L	5.5	20	07-AUG-10
Rubidium (Rb)-Dissolved		0.00193	0.00196	J	mg/L	0.00003	0.0008	07-AUG-10
Selenium (Se)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	07-AUG-10
Silicon (Si)-Dissolved		1.98	2.11		mg/L	6.2	20	07-AUG-10
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	07-AUG-10
Sodium (Na)-Dissolved		4.52	4.44		mg/L	1.7	20	07-AUG-10
Strontium (Sr)-Dissolved		0.0362	0.0365		mg/L	1.0	20	07-AUG-10
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	07-AUG-10
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	07-AUG-10
Tin (Sn)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Titanium (Ti)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Tungsten (W)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	07-AUG-10
Uranium (U)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	07-AUG-10
Vanadium (V)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Zinc (Zn)-Dissolved		0.0091	0.0088	J	mg/L	0.0004	0.008	07-AUG-10
Zirconium (Zr)-Dissolved		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	07-AUG-10
WG1146953-4	LCS							
Aluminum (Al)-Dissolved			94		%		80-120	07-AUG-10
Antimony (Sb)-Dissolved			100		%		80-120	07-AUG-10
Arsenic (As)-Dissolved			99		%		80-120	07-AUG-10
Barium (Ba)-Dissolved			102		%		80-120	07-AUG-10
Beryllium (Be)-Dissolved			103		%		80-120	07-AUG-10
Bismuth (Bi)-Dissolved			101		%		80-120	07-AUG-10
Boron (B)-Dissolved			103		%		80-120	07-AUG-10
Cadmium (Cd)-Dissolved			96		%		80-120	07-AUG-10
Calcium (Ca)-Dissolved			95		%		80-120	07-AUG-10
Cesium (Cs)-Dissolved			100		%		80-120	07-AUG-10
Chromium (Cr)-Dissolved			101		%		80-120	07-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1421107							
WG1146953-4	LCS							
Cobalt (Co)-Dissolved			102		%		80-120	07-AUG-10
Copper (Cu)-Dissolved			100		%		80-120	07-AUG-10
Iron (Fe)-Dissolved			111		%		80-120	07-AUG-10
Lead (Pb)-Dissolved			97		%		80-120	07-AUG-10
Lithium (Li)-Dissolved			98		%		80-120	07-AUG-10
Magnesium (Mg)-Dissolved			102		%		80-120	07-AUG-10
Manganese (Mn)-Dissolved			99		%		80-120	07-AUG-10
Molybdenum (Mo)-Dissolved			100		%		80-120	07-AUG-10
Nickel (Ni)-Dissolved			98		%		80-120	07-AUG-10
Phosphorus (P)-Dissolved			106		%		80-120	07-AUG-10
Potassium (K)-Dissolved			104		%		80-120	07-AUG-10
Rubidium (Rb)-Dissolved			97		%		80-120	07-AUG-10
Selenium (Se)-Dissolved			100		%		80-120	07-AUG-10
Silicon (Si)-Dissolved			107		%		80-120	07-AUG-10
Silver (Ag)-Dissolved			96		%		80-120	07-AUG-10
Sodium (Na)-Dissolved			102		%		80-120	07-AUG-10
Strontium (Sr)-Dissolved			96		%		80-120	07-AUG-10
Tellurium (Te)-Dissolved			99		%		80-120	07-AUG-10
Thallium (Tl)-Dissolved			104		%		80-120	07-AUG-10
Thorium (Th)-Dissolved			93		%		80-120	07-AUG-10
Tin (Sn)-Dissolved			98		%		80-120	07-AUG-10
Titanium (Ti)-Dissolved			99		%		80-120	07-AUG-10
Tungsten (W)-Dissolved			99		%		80-120	07-AUG-10
Uranium (U)-Dissolved			93		%		80-120	07-AUG-10
Vanadium (V)-Dissolved			102		%		80-120	07-AUG-10
Zinc (Zn)-Dissolved			101		%		80-120	07-AUG-10
Zirconium (Zr)-Dissolved			98		%		80-120	07-AUG-10
WG1146953-1	MB							
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.002	07-AUG-10
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Arsenic (As)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP								
	Water							
Batch	R1421107							
WG1146953-1	MB							
Boron (B)-Dissolved			<0.010		mg/L		0.01	07-AUG-10
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.00001	07-AUG-10
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	07-AUG-10
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Chromium (Cr)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	07-AUG-10
Lead (Pb)-Dissolved			<0.000090		mg/L		0.00009	07-AUG-10
Lithium (Li)-Dissolved			<0.0020		mg/L		0.002	07-AUG-10
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.01	07-AUG-10
Manganese (Mn)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Nickel (Ni)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Phosphorus (P)-Dissolved			<0.10		mg/L		0.1	07-AUG-10
Potassium (K)-Dissolved			<0.020		mg/L		0.02	07-AUG-10
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Selenium (Se)-Dissolved			<0.0010		mg/L		0.001	07-AUG-10
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	07-AUG-10
Silver (Ag)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Sodium (Na)-Dissolved			<0.020		mg/L		0.02	07-AUG-10
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Tin (Sn)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Titanium (Ti)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Tungsten (W)-Dissolved			<0.0010		mg/L		0.001	07-AUG-10
Uranium (U)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Vanadium (V)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Zinc (Zn)-Dissolved			<0.0020		mg/L		0.002	07-AUG-10
Zirconium (Zr)-Dissolved			<0.00040		mg/L		0.0004	07-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1438859							
WG1149656-3	CCV							
Copper (Cu)-Dissolved			105		%		90-110	12-AUG-10
WG1149656-1	CVS							
Copper (Cu)-Dissolved			106		%		80-120	12-AUG-10
WG1149656-2	CVS							
Copper (Cu)-Dissolved			99		%		80-120	12-AUG-10
MET-T-L-MS-WP		Water						
Batch	R1352104							
WG1133320-3	CCV							
Aluminum (Al)-Total			97		%		90-110	12-JUL-10
Antimony (Sb)-Total			103		%		90-110	12-JUL-10
Arsenic (As)-Total			102		%		90-110	12-JUL-10
Barium (Ba)-Total			103		%		90-110	12-JUL-10
Beryllium (Be)-Total			101		%		90-110	12-JUL-10
Bismuth (Bi)-Total			108		%		90-110	12-JUL-10
Boron (B)-Total			98		%		90-110	12-JUL-10
Cadmium (Cd)-Total			102		%		90-110	12-JUL-10
Calcium (Ca)-Total			100		%		90-110	12-JUL-10
Cesium (Cs)-Total			107		%		90-110	12-JUL-10
Chromium (Cr)-Total			104		%		90-110	12-JUL-10
Cobalt (Co)-Total			106		%		90-110	12-JUL-10
Copper (Cu)-Total			103		%		90-110	12-JUL-10
Iron (Fe)-Total			106		%		90-110	12-JUL-10
Lead (Pb)-Total			104		%		90-110	12-JUL-10
Lithium (Li)-Total			100		%		90-110	12-JUL-10
Magnesium (Mg)-Total			95		%		90-110	12-JUL-10
Manganese (Mn)-Total			106		%		90-110	12-JUL-10
Molybdenum (Mo)-Total			102		%		90-110	12-JUL-10
Nickel (Ni)-Total			103		%		90-110	12-JUL-10
Phosphorus (P)-Total			106		%		90-110	12-JUL-10
Potassium (K)-Total			101		%		90-110	12-JUL-10
Rubidium (Rb)-Total			103		%		90-110	12-JUL-10
Selenium (Se)-Total			104		%		90-110	12-JUL-10
Silicon (Si)-Total			100		%		90-110	12-JUL-10
Silver (Ag)-Total			101		%		90-110	12-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILLOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1352104							
WG1133320-3	CCV							
Sodium (Na)-Total			94		%		90-110	12-JUL-10
Strontium (Sr)-Total			104		%		90-110	12-JUL-10
Tellurium (Te)-Total			100		%		90-110	12-JUL-10
Thallium (Tl)-Total			107		%		90-110	12-JUL-10
Thorium (Th)-Total			98		%		63-138	12-JUL-10
Tin (Sn)-Total			105		%		90-110	12-JUL-10
Titanium (Ti)-Total			107		%		90-110	12-JUL-10
Tungsten (W)-Total			102		%		90-110	12-JUL-10
Uranium (U)-Total			100		%		90-110	12-JUL-10
Vanadium (V)-Total			102		%		90-110	12-JUL-10
Zinc (Zn)-Total			102		%		90-110	12-JUL-10
Zirconium (Zr)-Total			103		%		90-110	12-JUL-10
WG1133320-1	CVS							
Aluminum (Al)-Total			92		%		63-138	12-JUL-10
Antimony (Sb)-Total			101		%		63-138	12-JUL-10
Arsenic (As)-Total			98		%		63-138	12-JUL-10
Barium (Ba)-Total			101		%		63-138	12-JUL-10
Beryllium (Be)-Total			95		%		63-138	12-JUL-10
Bismuth (Bi)-Total			93		%		63-138	12-JUL-10
Boron (B)-Total			99		%		63-138	12-JUL-10
Cadmium (Cd)-Total			98		%		63-138	12-JUL-10
Calcium (Ca)-Total			96		%		63-138	12-JUL-10
Cesium (Cs)-Total			105		%		63-138	12-JUL-10
Chromium (Cr)-Total			100		%		63-138	12-JUL-10
Cobalt (Co)-Total			102		%		63-138	12-JUL-10
Copper (Cu)-Total			98		%		63-138	12-JUL-10
Iron (Fe)-Total			104		%		63-138	12-JUL-10
Lead (Pb)-Total			102		%		63-138	12-JUL-10
Lithium (Li)-Total			99		%		63-138	12-JUL-10
Magnesium (Mg)-Total			93		%		63-138	12-JUL-10
Manganese (Mn)-Total			101		%		63-138	12-JUL-10
Molybdenum (Mo)-Total			99		%		63-138	12-JUL-10
Nickel (Ni)-Total			98		%		63-138	12-JUL-10
Phosphorus (P)-Total			96		%		63-138	12-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1352104							
WG1133320-1 CVS								
Potassium (K)-Total			97		%		63-138	12-JUL-10
Rubidium (Rb)-Total			98		%		63-138	12-JUL-10
Selenium (Se)-Total			99		%		63-138	12-JUL-10
Silicon (Si)-Total			92		%		63-138	12-JUL-10
Silver (Ag)-Total			98		%		63-138	12-JUL-10
Sodium (Na)-Total			95		%		63-138	12-JUL-10
Strontium (Sr)-Total			99		%		63-138	12-JUL-10
Tellurium (Te)-Total			99		%		63-138	12-JUL-10
Thallium (Tl)-Total			102		%		63-138	12-JUL-10
Thorium (Th)-Total			97		%		63-138	12-JUL-10
Tin (Sn)-Total			100		%		63-138	12-JUL-10
Titanium (Ti)-Total			94		%		63-138	12-JUL-10
Tungsten (W)-Total			101		%		63-138	12-JUL-10
Uranium (U)-Total			98		%		63-138	12-JUL-10
Vanadium (V)-Total			97		%		63-138	12-JUL-10
Zinc (Zn)-Total			98		%		63-138	12-JUL-10
Zirconium (Zr)-Total			98		%		63-138	12-JUL-10
WG1133320-2 CVS								
Aluminum (Al)-Total			99		%		63-138	12-JUL-10
Antimony (Sb)-Total			96		%		63-138	12-JUL-10
Arsenic (As)-Total			100		%		63-138	12-JUL-10
Barium (Ba)-Total			95		%		63-138	12-JUL-10
Beryllium (Be)-Total			104		%		63-138	12-JUL-10
Bismuth (Bi)-Total			91		%		63-138	12-JUL-10
Boron (B)-Total			103		%		63-138	12-JUL-10
Cadmium (Cd)-Total			98		%		63-138	12-JUL-10
Calcium (Ca)-Total			100		%		63-138	12-JUL-10
Cesium (Cs)-Total			99		%		63-138	12-JUL-10
Chromium (Cr)-Total			96		%		63-138	12-JUL-10
Cobalt (Co)-Total			96		%		63-138	12-JUL-10
Copper (Cu)-Total			95		%		63-138	12-JUL-10
Iron (Fe)-Total			98		%		63-138	12-JUL-10
Lead (Pb)-Total			96		%		63-138	12-JUL-10
Lithium (Li)-Total			102		%		63-138	12-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
	Water							
Batch	R1352104							
WG1133320-2	CVS							
Magnesium (Mg)-Total			99		%		63-138	12-JUL-10
Manganese (Mn)-Total			100		%		63-138	12-JUL-10
Molybdenum (Mo)-Total			101		%		63-138	12-JUL-10
Nickel (Ni)-Total			96		%		63-138	12-JUL-10
Phosphorus (P)-Total			97		%		63-138	12-JUL-10
Potassium (K)-Total			100		%		63-138	12-JUL-10
Rubidium (Rb)-Total			96		%		63-138	12-JUL-10
Selenium (Se)-Total			99		%		63-138	12-JUL-10
Silicon (Si)-Total			100		%		63-138	12-JUL-10
Silver (Ag)-Total			94		%		63-138	12-JUL-10
Sodium (Na)-Total			100		%		63-138	12-JUL-10
Strontium (Sr)-Total			99		%		63-138	12-JUL-10
Tellurium (Te)-Total			99		%		63-138	12-JUL-10
Thallium (Tl)-Total			98		%		63-138	12-JUL-10
Thorium (Th)-Total			100		%		63-138	12-JUL-10
Tin (Sn)-Total			99		%		63-138	12-JUL-10
Titanium (Ti)-Total			97		%		63-138	12-JUL-10
Tungsten (W)-Total			97		%		63-138	12-JUL-10
Uranium (U)-Total			100		%		63-138	12-JUL-10
Vanadium (V)-Total			95		%		63-138	12-JUL-10
Zinc (Zn)-Total			97		%		63-138	12-JUL-10
Zirconium (Zr)-Total			101		%		63-138	12-JUL-10
WG1132699-4	DUP	WG1132699-3						
Aluminum (Al)-Total		0.0442	0.0440	J	mg/L	0.0002	0.02	12-JUL-10
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	12-JUL-10
Arsenic (As)-Total		0.00227	0.00223		mg/L	1.8	20	12-JUL-10
Barium (Ba)-Total		0.00673	0.00680		mg/L	1.0	20	12-JUL-10
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	12-JUL-10
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	12-JUL-10
Boron (B)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	20	12-JUL-10
Cadmium (Cd)-Total		0.000033	0.000029	J	mg/L	0.000004	0.00004	12-JUL-10
Calcium (Ca)-Total		4.37	4.26		mg/L	2.4	20	12-JUL-10
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	12-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1352104							
WG1132699-4	DUP	WG1132699-3						
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	12-JUL-10
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	12-JUL-10
Copper (Cu)-Total		0.00086	0.00085	J	mg/L	0.00001	0.0008	12-JUL-10
Iron (Fe)-Total		0.149	0.150	J	mg/L	0.000	0.08	12-JUL-10
Lead (Pb)-Total		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	12-JUL-10
Lithium (Li)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	12-JUL-10
Magnesium (Mg)-Total		1.60	1.57		mg/L	1.7	20	12-JUL-10
Manganese (Mn)-Total		0.0110	0.0109		mg/L	0.90	20	12-JUL-10
Molybdenum (Mo)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	12-JUL-10
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	12-JUL-10
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	20	12-JUL-10
Potassium (K)-Total		0.573	0.561		mg/L	2.1	20	12-JUL-10
Rubidium (Rb)-Total		0.00145	0.00142	J	mg/L	0.00003	0.0008	12-JUL-10
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	12-JUL-10
Silicon (Si)-Total		0.200	0.200	J	mg/L	0.000	0.2	12-JUL-10
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	12-JUL-10
Sodium (Na)-Total		1.04	1.02		mg/L	1.3	20	12-JUL-10
Strontium (Sr)-Total		0.0160	0.0156		mg/L	2.8	20	12-JUL-10
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	12-JUL-10
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	12-JUL-10
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	12-JUL-10
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	12-JUL-10
Titanium (Ti)-Total		0.00091	0.00079	J	mg/L	0.00012	0.0008	12-JUL-10
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	12-JUL-10
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	12-JUL-10
Vanadium (V)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	12-JUL-10
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	12-JUL-10
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	12-JUL-10
WG1132699-6	DUP	WG1132699-5						
Aluminum (Al)-Total		0.192	0.197		mg/L	2.8	20	12-JUL-10
Antimony (Sb)-Total		0.00025	0.00024	J	mg/L	0.00001	0.0008	12-JUL-10
Arsenic (As)-Total		0.00343	0.00349		mg/L	1.7	20	12-JUL-10
Barium (Ba)-Total		0.0813	0.0820		mg/L	0.83	20	12-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILLOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1352104							
WG1132699-6	DUP	WG1132699-5						
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	12-JUL-10
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	12-JUL-10
Boron (B)-Total		0.173	0.181		mg/L	4.5	20	12-JUL-10
Cadmium (Cd)-Total		0.000054	0.000052	J	mg/L	0.000002	0.00004	12-JUL-10
Calcium (Ca)-Total		174	175		mg/L	0.57	20	12-JUL-10
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	12-JUL-10
Chromium (Cr)-Total		<0.0010	0.0010	RPD-NA	mg/L	N/A	20	12-JUL-10
Cobalt (Co)-Total		0.00025	0.00024	J	mg/L	0.00000	0.0008	12-JUL-10
Copper (Cu)-Total		0.00656	0.00676		mg/L	3.0	20	12-JUL-10
Iron (Fe)-Total		0.126	0.122	J	mg/L	0.003	0.08	12-JUL-10
Lead (Pb)-Total		0.000174	0.000171	J	mg/L	0.000003	0.00036	12-JUL-10
Lithium (Li)-Total		0.106	0.110		mg/L	4.1	20	12-JUL-10
Magnesium (Mg)-Total		111	112		mg/L	0.90	20	12-JUL-10
Manganese (Mn)-Total		0.103	0.103		mg/L	0.21	20	12-JUL-10
Molybdenum (Mo)-Total		0.00493	0.00505		mg/L	2.5	20	12-JUL-10
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	12-JUL-10
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	20	12-JUL-10
Potassium (K)-Total		3.26	3.36		mg/L	2.9	20	12-JUL-10
Rubidium (Rb)-Total		0.00160	0.00157	J	mg/L	0.00003	0.0008	12-JUL-10
Selenium (Se)-Total		0.0029	0.0032	J	mg/L	0.0003	0.004	12-JUL-10
Silicon (Si)-Total		6.18	6.04		mg/L	2.3	20	12-JUL-10
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	12-JUL-10
Sodium (Na)-Total		85.1	86.0		mg/L	1.1	20	12-JUL-10
Strontium (Sr)-Total		0.561	0.577		mg/L	2.8	20	12-JUL-10
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	12-JUL-10
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	12-JUL-10
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	12-JUL-10
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	12-JUL-10
Titanium (Ti)-Total		0.00793	0.0109	G	mg/L	31	20	12-JUL-10
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	12-JUL-10
Uranium (U)-Total		0.0235	0.0240		mg/L	2.2	20	12-JUL-10
Vanadium (V)-Total		0.00154	0.00163	J	mg/L	0.00009	0.0008	12-JUL-10
Zinc (Zn)-Total		<0.0050	<0.0050		mg/L			12-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
	Water							
Batch	R1352104							
WG1132699-6	DUP	WG1132699-5						
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	12-JUL-10
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	12-JUL-10
WG1132699-2	LCS							
Aluminum (Al)-Total			112		%		80-120	12-JUL-10
Antimony (Sb)-Total			99		%		80-120	12-JUL-10
Arsenic (As)-Total			101		%		80-120	12-JUL-10
Barium (Ba)-Total			109		%		80-120	12-JUL-10
Beryllium (Be)-Total			100		%		80-120	12-JUL-10
Bismuth (Bi)-Total			96		%		80-120	12-JUL-10
Boron (B)-Total			105		%		80-120	12-JUL-10
Cadmium (Cd)-Total			106		%		80-120	12-JUL-10
Calcium (Ca)-Total			105		%		80-120	12-JUL-10
Cesium (Cs)-Total			113		%		80-120	12-JUL-10
Chromium (Cr)-Total			107		%		80-120	12-JUL-10
Cobalt (Co)-Total			108		%		80-120	12-JUL-10
Copper (Cu)-Total			106		%		80-120	12-JUL-10
Iron (Fe)-Total			98		%		80-120	12-JUL-10
Lead (Pb)-Total			99		%		80-120	12-JUL-10
Lithium (Li)-Total			105		%		80-120	12-JUL-10
Magnesium (Mg)-Total			108		%		80-120	12-JUL-10
Manganese (Mn)-Total			107		%		80-120	12-JUL-10
Molybdenum (Mo)-Total			109		%		80-120	12-JUL-10
Nickel (Ni)-Total			104		%		80-120	12-JUL-10
Phosphorus (P)-Total			110		%		80-120	12-JUL-10
Potassium (K)-Total			105		%		80-120	12-JUL-10
Rubidium (Rb)-Total			113		%		80-120	12-JUL-10
Selenium (Se)-Total			103		%		80-120	12-JUL-10
Silicon (Si)-Total			118		%		80-120	12-JUL-10
Silver (Ag)-Total			105		%		80-120	12-JUL-10
Sodium (Na)-Total			109		%		80-120	12-JUL-10
Strontium (Sr)-Total			107		%		80-120	12-JUL-10
Tellurium (Te)-Total			107		%		80-120	12-JUL-10
Thallium (Tl)-Total			101		%		80-120	12-JUL-10
Thorium (Th)-Total			101		%		63-138	12-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1352104							
WG1132699-2	LCS							
Tin (Sn)-Total			102		%		80-120	12-JUL-10
Titanium (Ti)-Total			107		%		80-120	12-JUL-10
Tungsten (W)-Total			106		%		80-120	12-JUL-10
Uranium (U)-Total			115		%		80-120	12-JUL-10
Vanadium (V)-Total			106		%		80-120	12-JUL-10
Zinc (Zn)-Total			105		%		80-120	12-JUL-10
Zirconium (Zr)-Total			107		%		80-120	12-JUL-10
WG1132699-1	MB							
Aluminum (Al)-Total			<0.0050		mg/L		0.005	12-JUL-10
Antimony (Sb)-Total			<0.00020		mg/L		0.0002	12-JUL-10
Arsenic (As)-Total			<0.00020		mg/L		0.0002	12-JUL-10
Barium (Ba)-Total			<0.00020		mg/L		0.0002	12-JUL-10
Beryllium (Be)-Total			<0.00020		mg/L		0.0002	12-JUL-10
Bismuth (Bi)-Total			<0.00020		mg/L		0.0002	12-JUL-10
Boron (B)-Total			<0.010		mg/L		0.01	12-JUL-10
Cadmium (Cd)-Total			<0.000010		mg/L		0.00001	12-JUL-10
Calcium (Ca)-Total			<0.10		mg/L		0.1	12-JUL-10
Cesium (Cs)-Total			<0.00010		mg/L		0.0001	12-JUL-10
Chromium (Cr)-Total			<0.0010		mg/L		0.001	12-JUL-10
Cobalt (Co)-Total			<0.00020		mg/L		0.0002	12-JUL-10
Copper (Cu)-Total			<0.00020		mg/L		0.0002	12-JUL-10
Iron (Fe)-Total			<0.020		mg/L		0.02	12-JUL-10
Lead (Pb)-Total			<0.000090		mg/L		0.00009	12-JUL-10
Lithium (Li)-Total			<0.0020		mg/L		0.002	12-JUL-10
Magnesium (Mg)-Total			<0.010		mg/L		0.01	12-JUL-10
Manganese (Mn)-Total			<0.00030		mg/L		0.0003	12-JUL-10
Molybdenum (Mo)-Total			<0.00020		mg/L		0.0002	12-JUL-10
Nickel (Ni)-Total			<0.0020		mg/L		0.002	12-JUL-10
Phosphorus (P)-Total			<0.20		mg/L		0.2	12-JUL-10
Potassium (K)-Total			<0.020		mg/L		0.02	12-JUL-10
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	12-JUL-10
Selenium (Se)-Total			<0.0010		mg/L		0.001	12-JUL-10
Silicon (Si)-Total			<0.050		mg/L		0.05	12-JUL-10
Silver (Ag)-Total			<0.00010		mg/L		0.0001	12-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch R1352104								
WG1132699-1 MB								
Sodium (Na)-Total			<0.030		mg/L		0.03	12-JUL-10
Strontium (Sr)-Total			<0.00010		mg/L		0.0001	12-JUL-10
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	12-JUL-10
Thallium (Tl)-Total			<0.00010		mg/L		0.0001	12-JUL-10
Thorium (Th)-Total			<0.00010		mg/L		0.0001	12-JUL-10
Tin (Sn)-Total			<0.00020		mg/L		0.0002	12-JUL-10
Titanium (Ti)-Total			<0.00020		mg/L		0.0002	12-JUL-10
Tungsten (W)-Total			<0.0010		mg/L		0.001	12-JUL-10
Uranium (U)-Total			<0.00010		mg/L		0.0001	12-JUL-10
Vanadium (V)-Total			<0.00020		mg/L		0.0002	12-JUL-10
Zinc (Zn)-Total			<0.0050		mg/L		0.005	12-JUL-10
Zirconium (Zr)-Total			<0.00040		mg/L		0.0004	12-JUL-10
Batch R1363763								
WG1134744-3 CCV								
Vanadium (V)-Total			101		%		90-110	14-JUL-10
WG1134744-1 CVS								
Vanadium (V)-Total			100		%		63-138	14-JUL-10
WG1134744-2 CVS								
Vanadium (V)-Total			98		%		63-138	14-JUL-10
N-TOTKJ-WP		Water						
Batch R1349903								
WG1133037-2 CCV								
Total Kjeldahl Nitrogen			95		%		90-110	12-JUL-10
WG1133037-1 CVS								
Total Kjeldahl Nitrogen			98		%		90-110	12-JUL-10
WG1132229-4 DUP		L906816-1						
Total Kjeldahl Nitrogen		0.36	0.42	J	mg/L	0.06	0.8	12-JUL-10
WG1132229-6 DUP		L906827-2						
Total Kjeldahl Nitrogen		1.83	1.93	J	mg/L	0.10	0.8	12-JUL-10
WG1132229-2 LCS								
Total Kjeldahl Nitrogen			96		%		75-125	12-JUL-10
WG1132229-1 MB								
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	12-JUL-10
WG1132229-3 MS		L906816-1						
Total Kjeldahl Nitrogen			105		%		70-130	12-JUL-10
WG1132229-5 MS		L906827-2						



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 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
P-TOTAL-WP		Water						
Batch	R1356744							
WG1132937-3	CVS							
Phosphorus, Total			98		%		80-120	13-JUL-10
WG1132937-6	CVS							
Phosphorus, Total			97		%		80-120	13-JUL-10
WG1132937-7	CVS							
Phosphorus, Total			99		%		80-120	13-JUL-10
WG1132937-4	DUP	L907060-4						
Phosphorus, Total		15.3	15.6		mg/L	1.9	20	13-JUL-10
WG1132937-1	MB							
Phosphorus, Total			<0.010		mg/L		0.01	13-JUL-10
PH-WP		Water						
Batch	R1344783							
WG1132493-4	CCV							
pH			100		%		90-110	09-JUL-10
WG1132493-3	CVS							
pH			99		%		99-101	09-JUL-10
WG1132493-6	DUP	L906844-1						
pH		8.00	8.00		pH units	0.062	5	09-JUL-10
SILICATE-COL-VA		Water						
Batch	R1371666							
WG1134793-10	CRM	VA-SIO2-CSPK1						
Silicate (as SIO2)			98		%		85-115	15-JUL-10
WG1134793-3	CRM	VA-SIO2-CSPK1						
Silicate (as SIO2)			108		%		85-115	15-JUL-10
WG1134793-6	CRM	VA-SIO2-CSPK10						
Silicate (as SIO2)			96		%		85-115	15-JUL-10
WG1134793-1	DUP	L906225-1						
Silicate (as SIO2)		1.2	1.2	J	mg/L	0.0	4	15-JUL-10
WG1134793-4	DUP	L908024-5						
Silicate (as SIO2)		<1.0	<1.0	RPD-NA	mg/L	N/A	20	15-JUL-10
WG1134793-8	DUP	L908534-5						
Silicate (as SIO2)		6.2	6.2	J	mg/L	0.1	4	15-JUL-10
WG1134793-2	MB							
Silicate (as SIO2)			<1.0		mg/L		1	15-JUL-10
WG1134793-5	MB							
Silicate (as SIO2)			<1.0		mg/L		1	15-JUL-10
WG1134793-9	MB							
Silicate (as SIO2)			<1.0		mg/L		1	15-JUL-10



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 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SO4-DIS-WP								
	Water							
Batch	R1348444							
WG1132848-3	CCV							
Sulphate (SO4) - Dissolved			100		%		90-110	12-JUL-10
WG1132848-2	CVS							
Sulphate (SO4) - Dissolved			97		%		85-115	12-JUL-10
WG1132835-2	DUP	L906048-2						
Sulphate (SO4) - Dissolved		<9.0	<9.0	RPD-NA	mg/L	N/A	20	12-JUL-10
WG1132835-1	MB							
Sulphate (SO4) - Dissolved			<9.0		mg/L		9	12-JUL-10
SOLIDS-TDS-WP								
	Water							
Batch	R1362564							
WG1133853-2	CVS							
Total Dissolved Solids			101		%		85-115	14-JUL-10
WG1133853-12	DUP	L908132-1						
Total Dissolved Solids		1590	1580		mg/L	0.63	20	14-JUL-10
WG1133853-6	DUP	L906727-2						
Total Dissolved Solids		<5.0	<5.0	RPD-NA	mg/L	N/A	20	14-JUL-10
WG1133853-8	DUP	L906865-3						
Total Dissolved Solids		124	126		mg/L	1.6	20	14-JUL-10
WG1133853-9	DUP	L906873-5						
Total Dissolved Solids		142	<5.0		mg/L	N/A	20	14-JUL-10
WG1133853-1	MB							
Total Dissolved Solids			<5.0		mg/L		5	14-JUL-10
SOLIDS-TOTSUS-WP								
	Water							
Batch	R1362564							
WG1133853-2	CVS							
Total Suspended Solids			110		%		85-115	14-JUL-10
WG1133853-10	DUP	L907054-3						
Total Suspended Solids		17.0	17.0	J	mg/L	0.0	20	14-JUL-10
WG1133853-12	DUP	L908132-1						
Total Suspended Solids		460	450		mg/L	2.2	20	14-JUL-10
WG1133853-3	DUP	L906370-1						
Total Suspended Solids		16.0	17.0	J	mg/L	1.0	20	14-JUL-10
WG1133853-4	DUP	L906501-1						
Total Suspended Solids		77.0	76.0		mg/L	1.3	20	14-JUL-10
WG1133853-5	DUP	L906518-10						
Total Suspended Solids		<5.0	<5.0	RPD-NA	mg/L	N/A	20	14-JUL-10
WG1133853-6	DUP	L906727-2						
Total Suspended Solids		<5.0	<5.0					



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SOLIDS-TOTSUS-WP		Water						
Batch	R1362564							
WG1133853-6	DUP	L906727-2						
Total Suspended Solids		<5.0	<5.0	RPD-NA	mg/L	N/A	20	14-JUL-10
WG1133853-8	DUP	L906865-3						
Total Suspended Solids		5.0	5.0	J	mg/L	0.0	20	14-JUL-10
WG1133853-9	DUP	L906873-5						
Total Suspended Solids		8.0	8.0	J	mg/L	0.0	20	14-JUL-10
WG1133853-1	MB							
Total Suspended Solids			<5.0		mg/L		5	14-JUL-10
TURBIDITY-WP		Water						
Batch	R1345583							
WG1132119-4	CCV							
Turbidity			100		%		90-110	09-JUL-10
WG1132119-5	CCV							
Turbidity			102		%		90-110	09-JUL-10
WG1132119-2	CVS							
Turbidity			90		%		63-138	09-JUL-10
WG1132119-3	CVS							
Turbidity			91		%		63-138	09-JUL-10
WG1132119-7	DUP	L906568-12						
Turbidity		0.59	0.59	J	NTU	0.00	0.4	09-JUL-10
WG1132119-8	DUP	L906568-13						
Turbidity		11.8	12.0		NTU	1.7	15	09-JUL-10
WG1132119-6	LCS							
Turbidity			92		%		85-115	09-JUL-10
WG1132119-1	MB							
Turbidity			<0.10		NTU		0.1	09-JUL-10
C-INORG-ORG-SK		Soil						
Batch	R1366805							
WG1133565-1	DUP	L906873-1						
Inorganic Carbon		<0.10	0.11	RPD-NA	%	N/A	30	15-JUL-10
CaCO3 Equivalent		1.12	1.35	J	%	0.23	3.2	15-JUL-10
WG1133565-2	IRM	0.4%IC						
Inorganic Carbon			0.37		%		0.28-0.52	15-JUL-10
WG1133565-3	MB							
Inorganic Carbon			0.00		%		0.1	15-JUL-10
CaCO3 Equivalent			<0.80		%		0.8	15-JUL-10
C-TOT-LECO-SK		Soil						



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 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
C-TOT-LECO-SK								
	Soil							
Batch	R1366723							
WG1133598-1	DUP	L906873-4						
Total Carbon by Combustion		32.6	33.2		%	2.1	10	14-JUL-10
WG1133598-2	IRM							
WG1133598-3	IRM							
Total Carbon by Combustion			0.0	G	%		1.1-1.7	14-JUL-10
HG-200.2-CVAF-WP								
	Soil							
Batch	R1411323							
WG1144355-2	CRM	NRC PACS-2						
Mercury (Hg)-Total			115		%		70-130	03-AUG-10
WG1144355-3	CRM	NRC MESS-3						
Mercury (Hg)-Total			114		%		70-130	03-AUG-10
WG1144355-1	MB							
Mercury (Hg)-Total			<0.0050		mg/kg		0.005	03-AUG-10
MET-200.2-MS-WP								
	Soil							
Batch	R1362144							
WG1134553-3	CCV							
Aluminum (Al)			99		%		63-138	14-JUL-10
Antimony (Sb)			104		%		63-138	14-JUL-10
Arsenic (As)			99		%		63-138	14-JUL-10
Barium (Ba)			103		%		63-138	14-JUL-10
Beryllium (Be)			99		%		63-138	14-JUL-10
Bismuth (Bi)			108		%		63-138	14-JUL-10
Boron (B)			99		%		63-138	14-JUL-10
Cadmium (Cd)			99		%		63-138	14-JUL-10
Calcium (Ca)			99		%		63-138	14-JUL-10
Cesium (Cs)			108		%		63-138	14-JUL-10
Chromium (Cr)			102		%		63-138	14-JUL-10
Cobalt (Co)			105		%		63-138	14-JUL-10
Copper (Cu)			100		%		63-138	14-JUL-10
Iron (Fe)			103		%		63-138	14-JUL-10
Lead (Pb)			104		%		63-138	14-JUL-10
Magnesium (Mg)			100		%		63-138	14-JUL-10
Manganese (Mn)			105		%		63-138	14-JUL-10
Molybdenum (Mo)			99		%		63-138	14-JUL-10
Nickel (Ni)			100		%		63-138	14-JUL-10
Phosphorus (P)			102		%		63-138	14-JUL-10



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 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP								
	Soil							
Batch	R1362144							
WG1134553-3	CCV							
Potassium (K)			99		%		63-138	14-JUL-10
Rubidium (Rb)			101		%		63-138	14-JUL-10
Selenium (Se)			102		%		63-138	14-JUL-10
Silver (Ag)			101		%		63-138	14-JUL-10
Sodium (Na)			99		%		63-138	14-JUL-10
Strontium (Sr)			102		%		63-138	14-JUL-10
Tellurium (Te)			100		%		63-138	14-JUL-10
Thallium (Tl)			105		%		63-138	14-JUL-10
Tin (Sn)			100		%		63-138	14-JUL-10
Titanium (Ti)			100		%		63-138	14-JUL-10
Tungsten (W)			102		%		63-138	14-JUL-10
Uranium (U)			102		%		63-138	14-JUL-10
Vanadium (V)			101		%		63-138	14-JUL-10
Zinc (Zn)			99		%		63-138	14-JUL-10
Zirconium (Zr)			101		%		63-138	14-JUL-10
WG1134474-2	CRM	NRC PACS-2						
Aluminum (Al)			96		%		70-130	15-JUL-10
Arsenic (As)			109		%		70-130	15-JUL-10
Barium (Ba)			78		%		70-130	15-JUL-10
Beryllium (Be)			101		%		70-130	15-JUL-10
Boron (B)			108		%		70-130	15-JUL-10
Cadmium (Cd)			110		%		70-130	15-JUL-10
Calcium (Ca)			106		%		70-130	15-JUL-10
Chromium (Cr)			104		%		70-130	15-JUL-10
Cobalt (Co)			109		%		70-130	15-JUL-10
Copper (Cu)			111		%		70-130	15-JUL-10
Iron (Fe)			101		%		70-130	15-JUL-10
Lead (Pb)			97		%		70-130	15-JUL-10
Magnesium (Mg)			103		%		70-130	15-JUL-10
Manganese (Mn)			103		%		70-130	15-JUL-10
Molybdenum (Mo)			117		%		70-130	15-JUL-10
Nickel (Ni)			106		%		70-130	15-JUL-10
Phosphorus (P)			113		%		70-130	15-JUL-10
Potassium (K)			97		%		70-130	15-JUL-10



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 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILLOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP								
	Soil							
Batch	R1362144							
WG1134474-2	CRM	NRC PACS-2						
Selenium (Se)			102		%		70-130	15-JUL-10
Silver (Ag)			104		%		70-130	15-JUL-10
Sodium (Na)			100		%		70-130	15-JUL-10
Strontium (Sr)			97		%		70-130	15-JUL-10
Thallium (Tl)			110		%		70-130	15-JUL-10
Tin (Sn)			106		%		70-130	15-JUL-10
Titanium (Ti)			101		%		70-130	15-JUL-10
Uranium (U)			108		%		70-130	15-JUL-10
Vanadium (V)			104		%		70-130	15-JUL-10
Zinc (Zn)			94		%		70-130	15-JUL-10
WG1134474-3	CRM	NRC MESS-3						
Aluminum (Al)			71		%		70-130	15-JUL-10
Antimony (Sb)			113		%		70-130	15-JUL-10
Arsenic (As)			95		%		70-130	15-JUL-10
Barium (Ba)			98		%		70-130	15-JUL-10
Beryllium (Be)			72		%		70-130	15-JUL-10
Cadmium (Cd)			89		%		70-130	15-JUL-10
Calcium (Ca)			108		%		70-130	15-JUL-10
Chromium (Cr)			80		%		70-130	15-JUL-10
Cobalt (Co)			111		%		70-130	15-JUL-10
Copper (Cu)			107		%		70-130	15-JUL-10
Iron (Fe)			99		%		70-130	15-JUL-10
Lead (Pb)			102		%		70-130	15-JUL-10
Magnesium (Mg)			95		%		70-130	15-JUL-10
Manganese (Mn)			116		%		70-130	15-JUL-10
Molybdenum (Mo)			109		%		70-130	15-JUL-10
Nickel (Ni)			104		%		70-130	15-JUL-10
Phosphorus (P)			97		%		70-130	15-JUL-10
Selenium (Se)			107		%		70-130	15-JUL-10
Silver (Ag)			97		%		70-130	15-JUL-10
Sodium (Na)			104		%		70-130	15-JUL-10
Strontium (Sr)			87		%		70-130	15-JUL-10
Tin (Sn)			94		%		70-130	15-JUL-10
Uranium (U)			100		%		70-130	15-JUL-10



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 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP	Soil							
Batch	R1362144							
WG1134474-3	CRM	NRC MESS-3						
Vanadium (V)			72		%		70-130	15-JUL-10
Zinc (Zn)			98		%		70-130	15-JUL-10
WG1134553-1	CVS							
Aluminum (Al)			100		%		70-130	14-JUL-10
Antimony (Sb)			104		%		70-130	14-JUL-10
Arsenic (As)			99		%		70-130	14-JUL-10
Barium (Ba)			102		%		70-130	14-JUL-10
Beryllium (Be)			101		%		70-130	14-JUL-10
Bismuth (Bi)			107		%		70-130	14-JUL-10
Boron (B)			100		%		70-130	14-JUL-10
Cadmium (Cd)			98		%		70-130	14-JUL-10
Calcium (Ca)			101		%		70-130	14-JUL-10
Cesium (Cs)			106		%		70-130	14-JUL-10
Chromium (Cr)			100		%		70-130	14-JUL-10
Cobalt (Co)			103		%		70-130	14-JUL-10
Copper (Cu)			98		%		70-130	14-JUL-10
Iron (Fe)			101		%		70-130	14-JUL-10
Lead (Pb)			103		%		70-130	14-JUL-10
Magnesium (Mg)			98		%		70-130	14-JUL-10
Manganese (Mn)			103		%		70-130	14-JUL-10
Molybdenum (Mo)			100		%		70-130	14-JUL-10
Nickel (Ni)			97		%		70-130	14-JUL-10
Phosphorus (P)			101		%		70-130	14-JUL-10
Potassium (K)			98		%		70-130	14-JUL-10
Rubidium (Rb)			100		%		70-130	14-JUL-10
Selenium (Se)			98		%		70-130	14-JUL-10
Silver (Ag)			98		%		70-130	14-JUL-10
Sodium (Na)			99		%		70-130	14-JUL-10
Strontium (Sr)			100		%		70-130	14-JUL-10
Tellurium (Te)			100		%		70-130	14-JUL-10
Thallium (Tl)			104		%		70-130	14-JUL-10
Tin (Sn)			101		%		70-130	14-JUL-10
Titanium (Ti)			99		%		70-130	14-JUL-10
Tungsten (W)			101		%		70-130	14-JUL-10



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 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP	Soil							
Batch	R1362144							
WG1134553-1	CVS							
Uranium (U)			100		%		70-130	14-JUL-10
Vanadium (V)			100		%		70-130	14-JUL-10
Zinc (Zn)			99		%		70-130	14-JUL-10
Zirconium (Zr)			100		%		70-130	14-JUL-10
WG1134553-2	CVS							
Aluminum (Al)			103		%		70-130	14-JUL-10
Antimony (Sb)			98		%		70-130	14-JUL-10
Arsenic (As)			101		%		70-130	14-JUL-10
Barium (Ba)			97		%		70-130	14-JUL-10
Beryllium (Be)			101		%		70-130	14-JUL-10
Bismuth (Bi)			103		%		70-130	14-JUL-10
Boron (B)			102		%		70-130	14-JUL-10
Cadmium (Cd)			95		%		70-130	14-JUL-10
Calcium (Ca)			106		%		70-130	14-JUL-10
Cesium (Cs)			101		%		70-130	14-JUL-10
Chromium (Cr)			98		%		70-130	14-JUL-10
Cobalt (Co)			98		%		70-130	14-JUL-10
Copper (Cu)			97		%		70-130	14-JUL-10
Iron (Fe)			101		%		70-130	14-JUL-10
Lead (Pb)			99		%		70-130	14-JUL-10
Magnesium (Mg)			102		%		70-130	14-JUL-10
Manganese (Mn)			102		%		70-130	14-JUL-10
Molybdenum (Mo)			98		%		70-130	14-JUL-10
Nickel (Ni)			97		%		70-130	14-JUL-10
Phosphorus (P)			98		%		70-130	14-JUL-10
Potassium (K)			104		%		70-130	14-JUL-10
Rubidium (Rb)			96		%		70-130	14-JUL-10
Selenium (Se)			102		%		70-130	14-JUL-10
Silver (Ag)			93		%		70-130	14-JUL-10
Sodium (Na)			102		%		70-130	14-JUL-10
Strontium (Sr)			97		%		70-130	14-JUL-10
Tellurium (Te)			99		%		70-130	14-JUL-10
Thallium (Tl)			98		%		70-130	14-JUL-10
Tin (Sn)			94		%		70-130	14-JUL-10



Quality Control Report

Workorder: L906861

Report Date: 02-SEP-10

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP								
	Soil							
Batch	R1362144							
WG1134553-2	CVS							
Titanium (Ti)			100		%		70-130	14-JUL-10
Tungsten (W)			97		%		70-130	14-JUL-10
Uranium (U)			101		%		70-130	14-JUL-10
Vanadium (V)			98		%		70-130	14-JUL-10
Zinc (Zn)			100		%		70-130	14-JUL-10
Zirconium (Zr)			99		%		70-130	14-JUL-10
WG1134474-5	DUP	WG1134474-4						
Aluminum (Al)		16000	16800		mg/kg	4.8	40	15-JUL-10
Antimony (Sb)		71.6	67.4		mg/kg	6.0	30	15-JUL-10
Arsenic (As)		15.7	15.9		mg/kg	1.6	30	15-JUL-10
Barium (Ba)		3450	3570		mg/kg	3.4	40	15-JUL-10
Beryllium (Be)		0.9	1.0	J	mg/kg	0.1	0.4	15-JUL-10
Bismuth (Bi)		0.66	0.66		mg/kg	0.48	30	15-JUL-10
Boron (B)		123	140		mg/kg	13	30	15-JUL-10
Cadmium (Cd)		1.32	1.35		mg/kg	2.2	30	15-JUL-10
Calcium (Ca)		75600	74200		mg/kg	1.9	30	15-JUL-10
Cesium (Cs)		1.17	1.20		mg/kg	2.3	30	15-JUL-10
Chromium (Cr)		114	102		mg/kg	11	30	15-JUL-10
Cobalt (Co)		883	938		mg/kg	6.0	30	15-JUL-10
Copper (Cu)		301	302		mg/kg	0.21	30	15-JUL-10
Iron (Fe)		24900	24900		mg/kg	0.044	30	15-JUL-10
Lead (Pb)		11300	11500		mg/kg	2.2	40	15-JUL-10
Magnesium (Mg)		26400	25400		mg/kg	3.8	30	15-JUL-10
Manganese (Mn)		10200	10600		mg/kg	3.6	30	15-JUL-10
Molybdenum (Mo)		4.70	3.88		mg/kg	19	40	15-JUL-10
Nickel (Ni)		64.7	65.1		mg/kg	0.73	30	15-JUL-10
Phosphorus (P)		800	800	J	mg/kg	0	400	15-JUL-10
Potassium (K)		2800	2750		mg/kg	1.8	40	15-JUL-10
Rubidium (Rb)		20.9	21.2		mg/kg	1.3	30	15-JUL-10
Selenium (Se)		0.6	0.6	J	mg/kg	0.0	2	15-JUL-10
Silver (Ag)		0.7	0.5	J	mg/kg	0.2	0.4	15-JUL-10
Sodium (Na)		910	890		mg/kg	2.0	40	15-JUL-10
Strontium (Sr)		351	365		mg/kg	3.8	40	15-JUL-10



Quality Control Report

Workorder: L906861

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILLOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP		Soil						
Batch	R1362144							
WG1134474-5	DUP	WG1134474-4						
Tellurium (Te)		<0.1	<0.1	RPD-NA	mg/kg	N/A	30	15-JUL-10
Thallium (Tl)		0.3	0.3	J	mg/kg	0.0	0.4	15-JUL-10
Tin (Sn)		22	27	J	mg/kg	5	20	15-JUL-10
Titanium (Ti)		686	695		mg/kg	1.3	40	15-JUL-10
Tungsten (W)		0.42	0.44	J	mg/kg	0.02	0.2	15-JUL-10
Uranium (U)		1.71	1.81		mg/kg	5.6	30	15-JUL-10
Vanadium (V)		44.8	45.2		mg/kg	1.0	30	15-JUL-10
Zinc (Zn)		6270	6710		mg/kg	6.8	30	15-JUL-10
Zirconium (Zr)		7.3	7.3		mg/kg	1.0	30	15-JUL-10
WG1134474-7	DUP	WG1134474-6						
Aluminum (Al)		4310	4790		mg/kg	10	40	15-JUL-10
Antimony (Sb)		1.2	1.2		mg/kg	0.43	30	15-JUL-10
Arsenic (As)		4.4	4.8		mg/kg	8.4	30	15-JUL-10
Barium (Ba)		170	159		mg/kg	6.7	40	15-JUL-10
Beryllium (Be)		0.3	0.4	J	mg/kg	0.0	0.4	15-JUL-10
Bismuth (Bi)		0.04	0.05	J	mg/kg	0.01	0.08	15-JUL-10
Boron (B)		16	16		mg/kg	1.6	30	15-JUL-10
Cadmium (Cd)		0.35	0.37		mg/kg	7.3	30	15-JUL-10
Calcium (Ca)		113000	125000		mg/kg	9.7	30	15-JUL-10
Cesium (Cs)		0.48	0.48		mg/kg	1.7	30	15-JUL-10
Chromium (Cr)		15	16		mg/kg	8.6	30	15-JUL-10
Cobalt (Co)		4.10	3.90		mg/kg	5.2	30	15-JUL-10
Copper (Cu)		20	25		mg/kg	22	30	15-JUL-10
Iron (Fe)		9400	10200		mg/kg	8.5	30	15-JUL-10
Lead (Pb)		97.3	105		mg/kg	7.8	40	15-JUL-10
Magnesium (Mg)		45400	46400		mg/kg	2.2	30	15-JUL-10
Manganese (Mn)		182	199		mg/kg	9.0	30	15-JUL-10
Molybdenum (Mo)		1.16	0.77	G	mg/kg	41	40	15-JUL-10
Nickel (Ni)		9.3	8.5		mg/kg	8.0	30	15-JUL-10
Phosphorus (P)		300	300	J	mg/kg	0	400	15-JUL-10
Potassium (K)		890	970		mg/kg	8.5	40	15-JUL-10
Rubidium (Rb)		7.10	7.98		mg/kg	12	30	15-JUL-10
Selenium (Se)		<0.5	<0.5	RPD-NA	mg/kg	N/A	30	15-JUL-10



Quality Control Report

Workorder: L906861

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP		Soil						
Batch	R1362144							
WG1134474-7	DUP	WG1134474-6						
Silver (Ag)		<0.1	<0.1	RPD-NA	mg/kg	N/A	40	15-JUL-10
Sodium (Na)		320	280		mg/kg	11	40	15-JUL-10
Strontium (Sr)		83.1	80.0		mg/kg	3.7	40	15-JUL-10
Tellurium (Te)		<0.1	<0.1	RPD-NA	mg/kg	N/A	30	15-JUL-10
Thallium (Tl)		0.1	0.1	J	mg/kg	0.0	0.4	15-JUL-10
Tin (Sn)		<5	<5	RPD-NA	mg/kg	N/A	40	15-JUL-10
Titanium (Ti)		207	185		mg/kg	11	40	15-JUL-10
Tungsten (W)		0.12	0.14	J	mg/kg	0.02	0.2	15-JUL-10
Uranium (U)		0.60	0.63		mg/kg	5.7	30	15-JUL-10
Vanadium (V)		16.9	17.1		mg/kg	0.63	30	15-JUL-10
Zinc (Zn)		120	130		mg/kg	6.0	30	15-JUL-10
Zirconium (Zr)		5.2	4.6		mg/kg	12	30	15-JUL-10
WG1134474-1	MB							
Aluminum (Al)			<5		mg/kg dwt		5	15-JUL-10
Antimony (Sb)			<0.1		mg/kg dwt		0.1	15-JUL-10
Arsenic (As)			<0.1		mg/kg dwt		0.1	15-JUL-10
Barium (Ba)			<0.5		mg/kg dwt		0.5	15-JUL-10
Beryllium (Be)			<0.1		mg/kg dwt		0.1	15-JUL-10
Bismuth (Bi)			0.02		mg/kg dwt		0.02	15-JUL-10
Boron (B)			<1		mg/kg dwt		1	15-JUL-10
Cadmium (Cd)			<0.02		mg/kg dwt		0.02	15-JUL-10
Calcium (Ca)			<100		mg/kg dwt		100	15-JUL-10
Cesium (Cs)			<0.02		mg/kg dwt		0.02	15-JUL-10
Chromium (Cr)			<1		mg/kg dwt		1	15-JUL-10
Cobalt (Co)			<0.02		mg/kg dwt		0.02	15-JUL-10
Copper (Cu)			<1		mg/kg dwt		1	15-JUL-10
Iron (Fe)			<30		mg/kg dwt		25	15-JUL-10
Lead (Pb)			<0.2		mg/kg dwt		0.2	15-JUL-10
Magnesium (Mg)			<10		mg/kg dwt		10	15-JUL-10
Manganese (Mn)			<0.5		mg/kg dwt		0.5	15-JUL-10
Molybdenum (Mo)			<0.02		mg/kg dwt		0.02	15-JUL-10
Nickel (Ni)			<0.5		mg/kg dwt		0.5	15-JUL-10
Phosphorus (P)			<100		mg/kg dwt		100	15-JUL-10



Quality Control Report

Workorder: L906861

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP								
	Soil							
Batch	R1362144							
WG1134474-1	MB							
Potassium (K)			<30		mg/kg dwt		25	15-JUL-10
Rubidium (Rb)			<0.02		mg/kg dwt		0.02	15-JUL-10
Selenium (Se)			<0.5		mg/kg dwt		0.5	15-JUL-10
Silver (Ag)			<0.1		mg/kg dwt		0.1	15-JUL-10
Sodium (Na)			<10		mg/kg dwt		10	15-JUL-10
Strontium (Sr)			<0.1		mg/kg dwt		0.1	15-JUL-10
Tellurium (Te)			<0.1		mg/kg dwt		0.1	15-JUL-10
Thallium (Tl)			<0.1		mg/kg dwt		0.1	15-JUL-10
Tin (Sn)			<5		mg/kg dwt		5	15-JUL-10
Titanium (Ti)			<0.5		mg/kg dwt		0.5	15-JUL-10
Tungsten (W)			<0.05		mg/kg dwt		0.05	15-JUL-10
Uranium (U)			<0.02		mg/kg dwt		0.02	15-JUL-10
Vanadium (V)			<0.5		mg/kg dwt		0.5	15-JUL-10
Zinc (Zn)			<10		mg/kg dwt		10	15-JUL-10
Zirconium (Zr)			<0.1		mg/kg dwt		0.1	15-JUL-10
MOIST-SK								
	Soil							
Batch	R1355623							
WG1133507-1	DUP	L906873-3						
% Moisture		93.6	93.4		%	0.14	26	14-JUL-10
N-TOT-LECO-SK								
	Soil							
Batch	R1366883							
WG1135051-1	DUP	L906873-4						
Total Nitrogen by LECO		2.57	2.52	J	%	0.045	0.05	15-JUL-10
WG1135051-2	IRM	07-114_SOIL						
Total Nitrogen by LECO			0.080		%		0.06-0.1	15-JUL-10
WG1135051-3	MB							
Total Nitrogen by LECO			<0.020		%		0.02	15-JUL-10
P-TOT-SK								
	Soil							
Batch	R1369823							
WG1133497-2	CRM	SS-1_SOIL						
Phosphorus, Total			101		%		70-130	16-JUL-10
WG1133497-3	DUP	L906873-8						
Phosphorus, Total		510	590	J	mg/kg	80	400	16-JUL-10
WG1133497-4	DUP	L906810-4						



Quality Control Report

Workorder: L906861

Report Date: 02-SEP-10

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
P-TOT-SK								
	Soil							
Batch	R1369823							
WG1133497-4	DUP	L906810-4						
Phosphorus, Total		1150	1160		mg/kg	0.67	30	16-JUL-10
WG1133497-1	MB							
Phosphorus, Total			<100		mg/kg		100	16-JUL-10
PSA-1-SK								
	Soil							
Batch	R1368865							
WG1133607-1	DUP	L907674-1						
% Sand (2.0mm - 0.05mm)		52.5	52.8	J	%	0.3	5	16-JUL-10
% Silt (0.05mm - 2um)		29.7	28.5	J	%	1.3	5	16-JUL-10
% Clay (<2um)		17.8	18.7	J	%	1.0	5	16-JUL-10
WG1133607-2	IRM	FARM98						
% Sand (2.0mm - 0.05mm)			48.3		%		43-53	16-JUL-10
% Silt (0.05mm - 2um)			29.4		%		21-31	16-JUL-10
% Clay (<2um)			22.3		%		18-28	16-JUL-10

Quality Control Report

Workorder: L906861

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Legend:

Limit	99% Confidence Interval (Laboratory Control Limits)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
G	QC result did not meet ALS DQO. Refer to narrative comments for further information.
J	Duplicate results and limits are expressed in terms of absolute difference.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L906861

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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
pH							
	1	08-JUL-10 08:00	09-JUL-10 17:00	0.25	33	hours	EHTR-FM
	2	08-JUL-10 08:00	09-JUL-10 17:00	0.25	33	hours	EHTR-FM
	3	08-JUL-10 08:00	09-JUL-10 17:00	0.25	33	hours	EHTR-FM
Aggregate Organics							
Carbonaceous BOD							
	1	08-JUL-10 08:00	10-JUL-10 10:21	48	50	hours	EHTL
	2	08-JUL-10 08:00	10-JUL-10 10:21	48	50	hours	EHTL
	3	08-JUL-10 08:00	10-JUL-10 10:21	48	50	hours	EHTL

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L906861 were received on 09-JUL-10 15:40.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



COOLER #1
L906861

Report to:
Company: **AECOM**
Contact: **CLIFF SAMOILOFF**
Address: **99 COMMERCE DR R3P 047**
WINNIPEG MB Fax: 204 284 2046
Phone: **204 928 7427** (Yes) No ?
Invoice To: Same as Report ? (Yes) No ?

Report Format / Distribution
Standard: Other:
Select: PDF Excel Digital
Email 1: **CLIFF.SAMOILOFF@AECOM.COM**
Email 2: **SHAWNA.KIARTANSON@11**
LEWNE.DOLCHESBLANCHARD@11

Client / Project Information:
Job #: **60157028**
PO / AFE:
Legal Site Description:
Quote #: **Q24534**
ALS CURSTINE
Contact: **KEBBS**
Sampler: **SK, WIS**

Sample #	Sample Identification (This description will appear on the report)	Date	Time	Sample Type
	TB-60157028-20100708	8JUL10	8:00	WATER
	FB-1-60157028-20100708	8JUL10	9:00	WATER
	DL-W01-60157028-20100708	8JUL10	10:23	WATER
	DL-S01-60157028-20100708	8JUL10	10:32	SEDIMENT

Analysis Request	Chla+phes	BODICBOD	TDC,TC	ANIONS	TOT.METALS+Hg	DSS.METALS+Hg	GEN.CHEMISTRY	NP	RTA	MORPH	Soil prep	Number of Containers
ACTIVITY	X	X	X	X	X	X	X	X	X	X	X	7
	X	X	X	X	X	X	X	X	X	X	X	7
	X	X	X	X	X	X	X	X	X	X	X	7
	X	X	X	X	X	X	X	X	X	X	X	2

Service Requested: (rush - subject to availability)
 Regular (Default)
 Priority (2-3 Business Days) - 50% Surcharge
 Emergency (1 Business Day) - 100% Surcharge
 For Emergency < 1 Day, ASAP or Weekend - Contact ALS

Special Instructions / Regulations / Hazardous Details

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

SHIPMENT RELEASE (client use)
Released by: Date & Time: **8JUL10 22:15**
Received by: Date: **9-7-10** Time: **3:40** Temperature: **6.7**

SHIPMENT VERIFICATION (lab use only)
Verified by: _____ Date & Time: _____
Observations: Yes / No ?
If Yes attach SIF

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION
WHITE - REPORT COPY, PINK - FILE COPY, YELLOW - CLIENT COPY
GENF 18.00 Front



Environmental Division

Certificate of Analysis

AECOM Canada Ltd. (Winnipeg)
ATTN: CLIFF SAMOILOFF
99 COMMERCE DRIVE
WINNIPEG MB R3P 0Y7

Report Date: 02-SEP-10 14:28 (MT)

Version: FINAL REV. 2

Lab Work Order #: L906865

Date Received: 09-JUL-10

Project P.O. #: NOT SUBMITTED

Job Reference: 60157028

Legal Site Desc:

CofC Numbers:

Other Information:

Comments:

02-SEP-10: Revised Report

Gail Hill
Account Manager

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906865-1 LL-WQ1-60157028-20100708							
Sampled By: CLIENT on 08-JUL-10 @ 11:08							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		14-JUL-10	R1361168
Note: Initial pH above the endpoint, pH 8.3							
Ammonia (NH3) - Dissolved	<0.050		0.050	mg/L	09-JUL-10	23-JUL-10	R1399020
Bromide	<0.10		0.10	mg/L	13-JUL-10	13-JUL-10	R1355644
BOD Carbonaceous	1.1		1.0	mg/L	10-JUL-10	15-JUL-10	R1362203
Chloride (Cl) - Dissolved	<9.0		9.0	mg/L	09-JUL-10	14-JUL-10	R1361286
Hardness (as CaCO3)	82.5		0.30	mg/L		13-JUL-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	15-JUL-10	15-JUL-10	R1388824
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	16-JUL-10	16-JUL-10	R1389507
Nitrate+Nitrite-N - Dissolved	<0.050		0.050	mg/L	09-JUL-10	23-JUL-10	R1399020
Phosphorus, Total	0.0130		0.0030	mg/L		13-JUL-10	R1356744
Silicate (as SiO2)	4.3		1.0	mg/L		15-JUL-10	R1371666
Sulphate (SO4) - Dissolved	<9.0		9.0	mg/L	09-JUL-10	14-JUL-10	R1361286
Total Dissolved Solids	104		5.0	mg/L		14-JUL-10	R1362564
Total Inorganic Carbon	12.1		1.0	mg/L		13-JUL-10	R1370423
Total Kjeldahl Nitrogen	1.13		0.20	mg/L	10-JUL-10	12-JUL-10	R1349903
Total Organic Carbon	19.2		1.0	mg/L		13-JUL-10	R1370423
Total Suspended Solids	<5.0		5.0	mg/L		14-JUL-10	R1362564
Color, True	15.0		5.0	T.C.U.		09-JUL-10	R1348083
Turbidity	1.25		0.10	NTU		09-JUL-10	R1345583
Hardness Calculated							
Hardness (as CaCO3)	76.1		0.20	mg/L		13-JUL-10	
Hardness (as CaCO3)	76.0		0.20	mg/L		13-AUG-10	
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0123		0.0050	mg/L	12-JUL-10	12-JUL-10	R1352104
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Arsenic (As)-Total	0.00061		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Barium (Ba)-Total	0.00523		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Boron (B)-Total	0.013		0.010	mg/L	12-JUL-10	12-JUL-10	R1352104
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	12-JUL-10	12-JUL-10	R1352104
Calcium (Ca)-Total	20.3		0.10	mg/L	12-JUL-10	12-JUL-10	R1352104
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	12-JUL-10	12-JUL-10	R1352104
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Copper (Cu)-Total	0.00035		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Iron (Fe)-Total	0.112		0.020	mg/L	12-JUL-10	12-JUL-10	R1352104
Lead (Pb)-Total	<0.000090		0.000090	mg/L	12-JUL-10	12-JUL-10	R1352104
Lithium (Li)-Total	0.0030		0.0020	mg/L	12-JUL-10	12-JUL-10	R1352104
Magnesium (Mg)-Total	7.74		0.010	mg/L	12-JUL-10	12-JUL-10	R1352104
Manganese (Mn)-Total	0.0550		0.00030	mg/L	12-JUL-10	12-JUL-10	R1352104
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	12-JUL-10	12-JUL-10	R1352104
Phosphorus (P)-Total	<0.20		0.20	mg/L	12-JUL-10	12-JUL-10	R1352104
Potassium (K)-Total	2.00		0.020	mg/L	12-JUL-10	12-JUL-10	R1352104
Rubidium (Rb)-Total	0.00189		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Selenium (Se)-Total	<0.0010		0.0010	mg/L	12-JUL-10	12-JUL-10	R1352104
Silicon (Si)-Total	0.129		0.050	mg/L	12-JUL-10	12-JUL-10	R1352104
Silver (Ag)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906865-1 LL-WQ1-60157028-20100708							
Sampled By: CLIENT on 08-JUL-10 @ 11:08							
Matrix: WATER							
Total Metals by ICP-MS							
Sodium (Na)-Total	2.24		0.030	mg/L	12-JUL-10	12-JUL-10	R1352104
Strontium (Sr)-Total	0.0284		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Thorium (Th)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Tin (Sn)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Tungsten (W)-Total	<0.0010		0.0010	mg/L	12-JUL-10	12-JUL-10	R1352104
Uranium (U)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Vanadium (V)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	12-JUL-10	12-JUL-10	R1352104
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	12-JUL-10	12-JUL-10	R1352104
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0098		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Arsenic (As)-Dissolved	0.00060		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Barium (Ba)-Dissolved	0.00427		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Boron (B)-Dissolved	<0.010		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	09-JUL-10	07-AUG-10	R1421107
Calcium (Ca)-Dissolved	19.1		0.050	mg/L	09-JUL-10	07-AUG-10	R1421107
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Copper (Cu)-Dissolved	0.00023		0.00020	mg/L	09-JUL-10	12-AUG-10	R1438859
Iron (Fe)-Dissolved	0.019		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	09-JUL-10	07-AUG-10	R1421107
Lithium (Li)-Dissolved	0.0028		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Magnesium (Mg)-Dissolved	6.88		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107
Manganese (Mn)-Dissolved	0.00113		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Nickel (Ni)-Dissolved	0.00065		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	09-JUL-10	07-AUG-10	R1421107
Potassium (K)-Dissolved	1.82		0.020	mg/L	09-JUL-10	07-AUG-10	R1421107
Rubidium (Rb)-Dissolved	0.00153		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	09-JUL-10	07-AUG-10	R1421107
Silicon (Si)-Dissolved	0.183		0.050	mg/L	09-JUL-10	07-AUG-10	R1421107
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Sodium (Na)-Dissolved	2.00		0.020	mg/L	09-JUL-10	07-AUG-10	R1421107
Strontium (Sr)-Dissolved	0.0248		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	09-JUL-10	07-AUG-10	R1421107
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Vanadium (V)-Dissolved	0.00034		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	09-JUL-10	07-AUG-10	R1421107

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ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906865-1 LL-WQ1-60157028-20100708							
Sampled By: CLIENT on 08-JUL-10 @ 11:08							
Matrix: WATER							
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	3.1		1.0	ug/L	09-JUL-10	13-JUL-10	R1353923
Phaeophytin a	<1.0		1.0	ug/L	09-JUL-10	13-JUL-10	R1353923
ODb/ODa	1.6		1.0	ABS Ratio	09-JUL-10	13-JUL-10	R1353923
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	81.2		1.0	mg/L		12-JUL-10	R1350283
Bicarbonate (HCO3)	88.2		2.0	mg/L		12-JUL-10	R1350283
Carbonate (CO3)	5.37		0.60	mg/L		12-JUL-10	R1350283
Hydroxide (OH)	<0.40		0.40	mg/L		12-JUL-10	R1350283
Conductivity							
Conductivity	151		0.40	umhos/cm		12-JUL-10	R1350283
pH							
pH	8.70		0.10	pH units		12-JUL-10	R1350283
L906865-2 LL-WQ2-60157028-20100708							
Sampled By: CLIENT on 08-JUL-10 @ 10:46							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		14-JUL-10	R1361168
Note: Initial pH above the endpoint, pH 8.3							
Ammonia (NH3) - Dissolved	<0.050		0.050	mg/L	09-JUL-10	23-JUL-10	R1399020
Bromide	<0.10		0.10	mg/L	13-JUL-10	13-JUL-10	R1355644
BOD Carbonaceous	1.4		1.0	mg/L	10-JUL-10	15-JUL-10	R1362203
Chloride (Cl) - Dissolved	<9.0		9.0	mg/L	09-JUL-10	14-JUL-10	R1361286
Hardness (as CaCO3)	84.5		0.30	mg/L		13-JUL-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	15-JUL-10	15-JUL-10	R1388824
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	16-JUL-10	16-JUL-10	R1389507
Nitrate+Nitrite-N - Dissolved	<0.050		0.050	mg/L	09-JUL-10	23-JUL-10	R1399020
Phosphorus, Total	0.0131		0.0030	mg/L		13-JUL-10	R1356744
Silicate (as SiO2)	<1.0		1.0	mg/L		15-JUL-10	R1371666
Sulphate (SO4) - Dissolved	<9.0		9.0	mg/L	09-JUL-10	14-JUL-10	R1361286
Total Dissolved Solids	108		5.0	mg/L		14-JUL-10	R1362564
Total Inorganic Carbon	12.2		1.0	mg/L		13-JUL-10	R1370423
Total Kjeldahl Nitrogen	1.08		0.20	mg/L	10-JUL-10	12-JUL-10	R1349903
Total Organic Carbon	18.9		1.0	mg/L		13-JUL-10	R1370423
Total Suspended Solids	<5.0		5.0	mg/L		14-JUL-10	R1362564
Color, True	15.0		5.0	T.C.U.		09-JUL-10	R1348083
Turbidity	1.41		0.10	NTU		09-JUL-10	R1345583
Hardness Calculated							
Hardness (as CaCO3)	75.7		0.20	mg/L		16-AUG-10	
Hardness (as CaCO3)	73.7		0.20	mg/L		13-JUL-10	
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0126		0.0050	mg/L	12-JUL-10	12-JUL-10	R1352104
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Arsenic (As)-Total	0.00065		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Barium (Ba)-Total	0.00500		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Boron (B)-Total	0.014		0.010	mg/L	12-JUL-10	12-JUL-10	R1352104
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	12-JUL-10	12-JUL-10	R1352104
Calcium (Ca)-Total	21.0		0.10	mg/L	12-JUL-10	12-JUL-10	R1352104

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906865-2 LL-WQ2-60157028-20100708							
Sampled By: CLIENT on 08-JUL-10 @ 10:46							
Matrix: WATER							
Total Metals by ICP-MS							
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	12-JUL-10	12-JUL-10	R1352104
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Copper (Cu)-Total	0.00066		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Iron (Fe)-Total	0.109		0.020	mg/L	12-JUL-10	12-JUL-10	R1352104
Lead (Pb)-Total	<0.000090		0.000090	mg/L	12-JUL-10	12-JUL-10	R1352104
Lithium (Li)-Total	0.0033		0.0020	mg/L	12-JUL-10	12-JUL-10	R1352104
Magnesium (Mg)-Total	7.80		0.010	mg/L	12-JUL-10	12-JUL-10	R1352104
Manganese (Mn)-Total	0.0549		0.00030	mg/L	12-JUL-10	12-JUL-10	R1352104
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	12-JUL-10	12-JUL-10	R1352104
Phosphorus (P)-Total	<0.20		0.20	mg/L	12-JUL-10	12-JUL-10	R1352104
Potassium (K)-Total	2.01		0.020	mg/L	12-JUL-10	12-JUL-10	R1352104
Rubidium (Rb)-Total	0.00186		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Selenium (Se)-Total	<0.0010		0.0010	mg/L	12-JUL-10	12-JUL-10	R1352104
Silicon (Si)-Total	0.148		0.050	mg/L	12-JUL-10	12-JUL-10	R1352104
Silver (Ag)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Sodium (Na)-Total	2.29		0.030	mg/L	12-JUL-10	12-JUL-10	R1352104
Strontium (Sr)-Total	0.0280		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Thorium (Th)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Tin (Sn)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Tungsten (W)-Total	<0.0010		0.0010	mg/L	12-JUL-10	12-JUL-10	R1352104
Uranium (U)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Vanadium (V)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	12-JUL-10	12-JUL-10	R1352104
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	12-JUL-10	12-JUL-10	R1352104
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0070		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Arsenic (As)-Dissolved	0.00061		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Barium (Ba)-Dissolved	0.00378		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Boron (B)-Dissolved	<0.010		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	09-JUL-10	07-AUG-10	R1421107
Calcium (Ca)-Dissolved	19.2		0.050	mg/L	09-JUL-10	07-AUG-10	R1421107
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	13-AUG-10	R1439889
Iron (Fe)-Dissolved	0.015		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	09-JUL-10	07-AUG-10	R1421107
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Magnesium (Mg)-Dissolved	6.75		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107
Manganese (Mn)-Dissolved	0.00103		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Nickel (Ni)-Dissolved	0.00058		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	09-JUL-10	07-AUG-10	R1421107

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906865-2 LL-WQ2-60157028-20100708 Sampled By: CLIENT on 08-JUL-10 @ 10:46 Matrix: WATER							
Dissolved Metals by ICP-MS							
Potassium (K)-Dissolved	1.77		0.020	mg/L	09-JUL-10	07-AUG-10	R1421107
Rubidium (Rb)-Dissolved	0.00149		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	09-JUL-10	07-AUG-10	R1421107
Silicon (Si)-Dissolved	0.187		0.050	mg/L	09-JUL-10	07-AUG-10	R1421107
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Sodium (Na)-Dissolved	1.96		0.020	mg/L	09-JUL-10	07-AUG-10	R1421107
Strontium (Sr)-Dissolved	0.0234		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	09-JUL-10	07-AUG-10	R1421107
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Vanadium (V)-Dissolved	0.00035		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	09-JUL-10	07-AUG-10	R1421107
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	2.9		1.0	ug/L	09-JUL-10	13-JUL-10	R1353923
Phaeophytin a	1.0		1.0	ug/L	09-JUL-10	13-JUL-10	R1353923
ODb/ODa	1.5		1.0	ABS Ratio	09-JUL-10	13-JUL-10	R1353923
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	80.9		1.0	mg/L		12-JUL-10	R1350283
Bicarbonate (HCO3)	85.8		2.0	mg/L		12-JUL-10	R1350283
Carbonate (CO3)	6.35		0.60	mg/L		12-JUL-10	R1350283
Hydroxide (OH)	<0.40		0.40	mg/L		12-JUL-10	R1350283
Conductivity							
Conductivity	150		0.40	umhos/cm		12-JUL-10	R1350283
pH							
pH	8.73		0.10	pH units		12-JUL-10	R1350283
L906865-3 LL-WQ3-60157028-20100708 Sampled By: CLIENT on 08-JUL-10 @ 10:14 Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		14-JUL-10	R1361168
Note: Initial pH above the endpoint, pH 8.3							
Ammonia (NH3) - Dissolved	<0.050		0.050	mg/L	09-JUL-10	23-JUL-10	R1399020
Bromide	<0.10		0.10	mg/L	13-JUL-10	13-JUL-10	R1355644
BOD Carbonaceous	<1.0		1.0	mg/L	10-JUL-10	15-JUL-10	R1362203
Chloride (Cl) - Dissolved	<9.0		9.0	mg/L	09-JUL-10	14-JUL-10	R1361286
Hardness (as CaCO3)	82.3		0.30	mg/L		13-JUL-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	15-JUL-10	15-JUL-10	R1388824
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	16-JUL-10	16-JUL-10	R1389507
Nitrate+Nitrite-N - Dissolved	<0.050		0.050	mg/L	09-JUL-10	23-JUL-10	R1399020
Phosphorus, Total	<0.010	DLA	0.010	mg/L		13-JUL-10	R1356744
Silicate (as SiO2)	<1.0		1.0	mg/L		15-JUL-10	R1371666
Sulphate (SO4) - Dissolved	<9.0		9.0	mg/L	09-JUL-10	14-JUL-10	R1361286
Total Dissolved Solids	124		5.0	mg/L		14-JUL-10	R1362564
Total Inorganic Carbon	3.5		1.0	mg/L		13-JUL-10	R1370423

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906865-3 LL-WQ3-60157028-20100708							
Sampled By: CLIENT on 08-JUL-10 @ 10:14							
Matrix: WATER							
Total Kjeldahl Nitrogen	1.11		0.20	mg/L	10-JUL-10	12-JUL-10	R1349903
Total Organic Carbon	16.8		1.0	mg/L		13-JUL-10	R1370423
Total Suspended Solids	5.0		5.0	mg/L		14-JUL-10	R1362564
Color, True	15.0		5.0	T.C.U.		09-JUL-10	R1348083
Turbidity	1.53		0.10	NTU		09-JUL-10	R1345583
Hardness Calculated							
Hardness (as CaCO3)	74.0		0.20	mg/L		16-AUG-10	
Hardness (as CaCO3)	72.0		0.20	mg/L		13-JUL-10	
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0124		0.0050	mg/L	12-JUL-10	12-JUL-10	R1352104
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Arsenic (As)-Total	0.00062		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Barium (Ba)-Total	0.00525		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Boron (B)-Total	0.014		0.010	mg/L	12-JUL-10	12-JUL-10	R1352104
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	12-JUL-10	12-JUL-10	R1352104
Calcium (Ca)-Total	20.3		0.10	mg/L	12-JUL-10	12-JUL-10	R1352104
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	12-JUL-10	12-JUL-10	R1352104
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Copper (Cu)-Total	0.00038		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Iron (Fe)-Total	0.112		0.020	mg/L	12-JUL-10	12-JUL-10	R1352104
Lead (Pb)-Total	<0.000090		0.000090	mg/L	12-JUL-10	12-JUL-10	R1352104
Lithium (Li)-Total	0.0033		0.0020	mg/L	12-JUL-10	12-JUL-10	R1352104
Magnesium (Mg)-Total	7.70		0.010	mg/L	12-JUL-10	12-JUL-10	R1352104
Manganese (Mn)-Total	0.0509		0.00030	mg/L	12-JUL-10	12-JUL-10	R1352104
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	12-JUL-10	12-JUL-10	R1352104
Phosphorus (P)-Total	<0.20		0.20	mg/L	12-JUL-10	12-JUL-10	R1352104
Potassium (K)-Total	1.97		0.020	mg/L	12-JUL-10	12-JUL-10	R1352104
Rubidium (Rb)-Total	0.00185		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Selenium (Se)-Total	<0.0010		0.0010	mg/L	12-JUL-10	12-JUL-10	R1352104
Silicon (Si)-Total	0.133		0.050	mg/L	12-JUL-10	12-JUL-10	R1352104
Silver (Ag)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Sodium (Na)-Total	2.23		0.030	mg/L	12-JUL-10	12-JUL-10	R1352104
Strontium (Sr)-Total	0.0282		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Thorium (Th)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Tin (Sn)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Tungsten (W)-Total	<0.0010		0.0010	mg/L	12-JUL-10	12-JUL-10	R1352104
Uranium (U)-Total	<0.00010		0.00010	mg/L	12-JUL-10	12-JUL-10	R1352104
Vanadium (V)-Total	<0.00020		0.00020	mg/L	12-JUL-10	12-JUL-10	R1352104
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	12-JUL-10	12-JUL-10	R1352104
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	12-JUL-10	12-JUL-10	R1352104
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0091		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Arsenic (As)-Dissolved	0.00054		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Barium (Ba)-Dissolved	0.00389		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906865-3 LL-WQ3-60157028-20100708							
Sampled By: CLIENT on 08-JUL-10 @ 10:14							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Boron (B)-Dissolved	<0.010		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	09-JUL-10	07-AUG-10	R1421107
Calcium (Ca)-Dissolved	18.4		0.050	mg/L	09-JUL-10	07-AUG-10	R1421107
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Copper (Cu)-Dissolved	0.00026		0.00020	mg/L	09-JUL-10	13-AUG-10	R1439889
Iron (Fe)-Dissolved	0.026		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	09-JUL-10	07-AUG-10	R1421107
Lithium (Li)-Dissolved	0.0024		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Magnesium (Mg)-Dissolved	6.81		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107
Manganese (Mn)-Dissolved	0.00062		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Nickel (Ni)-Dissolved	0.00063		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	09-JUL-10	07-AUG-10	R1421107
Potassium (K)-Dissolved	1.79		0.020	mg/L	09-JUL-10	07-AUG-10	R1421107
Rubidium (Rb)-Dissolved	0.00146		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	09-JUL-10	07-AUG-10	R1421107
Silicon (Si)-Dissolved	0.194		0.050	mg/L	09-JUL-10	07-AUG-10	R1421107
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Sodium (Na)-Dissolved	2.04		0.020	mg/L	09-JUL-10	07-AUG-10	R1421107
Strontium (Sr)-Dissolved	0.0231		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	09-JUL-10	07-AUG-10	R1421107
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Vanadium (V)-Dissolved	0.00021		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Zinc (Zn)-Dissolved	0.0034		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	09-JUL-10	07-AUG-10	R1421107
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	2.7		1.0	ug/L	09-JUL-10	13-JUL-10	R1353923
Phaeophytin a	1.7		1.0	ug/L	09-JUL-10	13-JUL-10	R1353923
ODb/ODa	1.4		1.0	ABS Ratio	09-JUL-10	13-JUL-10	R1353923
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	80.8		1.0	mg/L		12-JUL-10	R1350283
Bicarbonate (HCO3)	87.3		2.0	mg/L		12-JUL-10	R1350283
Carbonate (CO3)	5.56		0.60	mg/L		12-JUL-10	R1350283
Hydroxide (OH)	<0.40		0.40	mg/L		12-JUL-10	R1350283
Conductivity							
Conductivity	151		0.40	umhos/cm		12-JUL-10	R1350283
pH							
pH	8.71		0.10	pH units		12-JUL-10	R1350283

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Total Kjeldahl Nitrogen	MS-B	L906865-1, -2, -3

Sample Parameter Qualifier Key:

Qualifier	Description
DLA	Detection Limit Adjusted For required dilution
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACIDITY-LOW-WP	Water	Acidity	APHA Method 2310B
ALK-TOT-WP	Water	Alkalinity	APHA 2320B

Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO₃⁻ and H₂CO₃ endpoints indicated electrometrically.

BR-WT	Water	Bromide	EPA 300.0 (IC)
C-TOT-INORG-WP	Water	Total Inorganic Carbon	APHA 5310 B-Instrumental

This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.

The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC.

TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.

C-TOT-ORG-WP	Water	Total Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
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This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.

The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC.

TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.

CHL/A,PHEO/A-ACET-WP	Water	Chlorophyll-a & Pheophytin-a	APHA 10200H, 1998-664/750NM
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Chlorophyll-a is filtered from the sample, then extracted with 90% (v/v) acetone. Absorbance is measured spectrophotometrically at 664 nm and 750 nm. The extract is then acidified, converting chlorophyll-a to pheophytin-a. Absorbance is determined again after acidification. The chlorophyll-a concentration is determined from the decrease in absorbance upon acidification. When a detection limit of 0.5 ug/L is required, the volume of sample filtered is doubled to 700mL.

Samples with an OD664 before/OD665 after acidification ratio (664b/665a) of 1.70 are considered to contain no pheophytin a and to be in excellent physiological condition. Solutions of pure pheophytin show no reduction in OD665 upon acidification and have a 664b/665a ratio of 1.0 Thus, mixtures of chlorophyll a and pheophytin a have absorption peak ratios ranging between 1.0 and 1.7. These ratios are based on the use of 90% acetone as solvent.

CL-DIS-WP	Water	Chloride Dissolved	APHA4500/LACHAT
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The thiocyanate ion is liberated from mercuric thiocyanate by the formation of soluble mercuric chloride. In the presence of ferric ion, the free thiocyanate forms a highly colored ferric thiocyanate complex. The intensity of the complex is proportional to the original chloride concentration and is measured by a colorimeter at 480 nm.

COL-TRU-WP	Water	True Colour	APHA, AWWA, WPCF
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Colour is measured by visual comparison against a routinely calibrated color disk. True color is the color of water from which turbidity has been removed by centrifugation.

CONSULT-BOD-CBOD-WP	Water	Carbonaceous BOD	APHA 5210 B-5 day Incub.-O2 electrode
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Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
<p>A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis.</p>			
EC-WP	Water	Conductivity	APHA 2510B
<p>Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.</p>			
ETL-HARDNESS-DIS-WP	Water	Hardness Calculated	Calculated
ETL-HARDNESS-TOT-WP	Water	Hardness Calculated	Calculated
HG-D-CVAF-WP	Water	Mercury Dissolved	EPA245.7 V2.0
<p>Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.</p>			
HG-T-CVAF-WP	Water	Mercury Total	EPA245.7 V2.0
<p>Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.</p>			
MET-D-L-MS-WP	Water	Dissolved Metals by ICP-MS	U.S. EPA 200.8-DL
<p>Dissolved Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the Examination of Water and Wastewater method 3030B for filtration through a 0.45 um filter and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.</p>			
MET-T-L-MS-WP	Water	Total Metals by ICP-MS	U.S. EPA 200.8-TL
<p>Total Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the examination of Water and Wastewater Method 3030E and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.</p>			
N-TOTKJ-WP	Water	Total Kjeldahl Nitrogen	Quickchem method 10-107-06-2-E Lachat
<p>Samples are digested with a sulphuric acid solution, cooled, diluted with water, and analyzed for ammonia. Total Kjeldahl nitrogen is the sum of free-ammonia and organic nitrogen compounds which are converted to ammonium sulphate through this digestion process. Analysis is performed by Flow Injection Analysis (FIA). The pH of the digested sample is raised to a known, basic pH by neutralization with a concentrated buffer solution. This neutralization converts the ammonium cation to ammonia. The ammonia produced is heated with salicylate and hypochlorite to produce blue colour which is proportional to the ammonia concentration.</p>			
N2N3-DIS-WP	Water	Nitrate + Nitrite Dissolved	APHA4500;2005/LACHAT;1997,1999
NH3-DIS-WP	Water	Ammonia Dissolved	LACHAT;2003
<p>Ammonia - Colourimetric using Salicylate-nitroprusside and hypochlorite, in an alkaline phosphate buffer.</p>			
P-TOTAL-WP	Water	Phosphorus, Total	APHA, 1998 P-T
<p>Samples are digested using a sulphuric acid-persulfate mixture to convert organic phosphorous to orthophosphate. The samples are analyzed by either the Flow Injection Analysis (FIA) or the Segmented Flow Analysis (SFA) method. The absorbance measured by the instrument is proportional to the concentration of orthophosphate in the sample, and is reported as phosphorous.</p>			
PH-WP	Water	pH	APHA 4500H
<p>pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.</p>			
SILICATE-COL-VA	Water	Silicate by Colourimetric analysis	APHA 4500-SIO2 D.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
<p>This analysis is carried out using procedures adapted from APHA Method 4500-SiO₂ D. "Silica". Silicate (molybdate-reactive silica) is determined by the molybdosilicate-heteropoly blue colourimetric method.</p>			
SO4-DIS-WP	Water	Sulphate Dissolved	APHA4500/LACHAT
<p>The sample reacts with barium chloride in an acidic medium and precipitates the sulphate ion SO₄²⁻, which forms barium sulphate crystals of uniform size. The turbidity produced by the sulphate suspension is measured by a colorimeter at 420 nm.</p>			
SOLIDS-TDS-WP	Water	Total Dissolved Solids	APHA 2540
<p>The residue remaining in a prepared casserole after passing the sample through a 1.2 um Whatman GF/C glass microfibre filter and drying at 180 degrees C. Samples may be dried at 105 degrees C if the client specifically requests this drying temperature.</p>			
SOLIDS-TOTSUS-WP	Water	Total Suspended Solids	APHA 2540
<p>The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C.</p>			
TURBIDITY-WP	Water	Turbidity	APHA, 1998, 2130B
<p>A strong light beam is sent through a transparent tube containing the sample. Light that is reflected at 90 degrees to the axis by suspended particles is detected by the photocell. The electrical response is proportional to the sample turbidity.</p>			

** 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
WP	ALS LABORATORY GROUP - WINNIPEG, MANITOBA, CANADA
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA
WT	ALS LABORATORY GROUP - WATERLOO, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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.



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACIDITY-LOW-WP		Water						
Batch	R1361168							
WG1134412-1	CVS							
Acidity (as CaCO3)			106		%		85-115	14-JUL-10
WG1134412-2	DUP	L906318-3						
Acidity (as CaCO3)		<1.0	<1.0	RPD-NA	mg/L	N/A	20	14-JUL-10
WG1134412-3	DUP	L906861-2						
Acidity (as CaCO3)		<1.0	<1.0	RPD-NA	mg/L	N/A	20	14-JUL-10
ALK-TOT-WP		Water						
Batch	R1350283							
WG1132624-5	CVS							
Alkalinity, Total (as CaCO3)			103		%		85-115	12-JUL-10
WG1132624-6	DUP	L906898-2						
Alkalinity, Total (as CaCO3)		202	202		mg/L	0.0	20	12-JUL-10
Bicarbonate (HCO3)		246	246		mg/L	0.0	26	12-JUL-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	12-JUL-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	12-JUL-10
WG1132624-7	DUP	L907082-8						
Alkalinity, Total (as CaCO3)		111	111		mg/L	0.0	20	12-JUL-10
Bicarbonate (HCO3)		136	136		mg/L	0.0	26	12-JUL-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	12-JUL-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	12-JUL-10
BR-WT		Water						
Batch	R1355644							
WG1133139-3	LCS							
Bromide			97		%		75-125	13-JUL-10
WG1133139-4	LCSD	WG1133139-3						
Bromide		97	98		%	1.3	30	13-JUL-10
WG1133139-1	MB							
Bromide			<0.10		mg/L		0.1	13-JUL-10
C-TOT-INORG-WP		Water						
Batch	R1370423							
WG1135458-3	CCV							
Total Inorganic Carbon			103		%		80-120	12-JUL-10
WG1135458-2	CVS							
Total Inorganic Carbon			98		%		80-120	14-JUL-10
WG1135458-11	DUP	WG1135458-10						
Total Inorganic Carbon		10.2	10.5		mg/L	2.1	20	13-JUL-10
WG1135458-5	DUP	WG1135458-4						



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
C-TOT-INORG-WP		Water						
Batch	R1370423							
WG1135458-5	DUP	WG1135458-4						
Total Inorganic Carbon		<1.0	<1.0	RPD-NA	mg/L	N/A	20	12-JUL-10
WG1135458-7	DUP	WG1135458-6						
Total Inorganic Carbon		1.2	1.4	J	mg/L	0.2	4	12-JUL-10
WG1135458-9	DUP	WG1135458-8						
Total Inorganic Carbon		12.1	12.3		mg/L	1.6	20	13-JUL-10
WG1135458-1	MB							
Total Inorganic Carbon			<1.0		mg/L		1	12-JUL-10
C-TOT-ORG-WP		Water						
Batch	R1370423							
WG1135458-3	CCV							
Total Organic Carbon			102		%		63-138	12-JUL-10
WG1135458-2	CVS							
Total Organic Carbon			101		%		80-120	14-JUL-10
WG1135458-11	DUP	WG1135458-10						
Total Organic Carbon		7.9	7.6	J	mg/L	0.2	4	13-JUL-10
WG1135458-5	DUP	WG1135458-4						
Total Organic Carbon		73.9	73.9		mg/L	0.075	20	12-JUL-10
WG1135458-7	DUP	WG1135458-6						
Total Organic Carbon		10.4	10.2		mg/L	2.1	20	12-JUL-10
WG1135458-9	DUP	WG1135458-8						
Total Organic Carbon		19.2	19.0		mg/L	1.2	20	13-JUL-10
WG1135458-1	MB							
Total Organic Carbon			<1.0		mg/L		1	12-JUL-10
CHL/A,PHEO/A-ACET-WP		Water						
Batch	R1353923							
WG1133036-1	CVS							
Chlorophyll a			102		%		65-135	13-JUL-10
WG1133036-2	CVS							
Chlorophyll a			106		%		65-135	13-JUL-10
CL-DIS-WP		Water						
Batch	R1361286							
WG1134431-3	CCV							
Chloride (Cl) - Dissolved			99		%		85-115	14-JUL-10
WG1134431-2	CVS							
Chloride (Cl) - Dissolved			96		%		85-115	14-JUL-10
WG1134426-2	DUP	L906898-2						



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-DIS-WP								
	Water							
Batch	R1361286							
WG1134426-2	DUP	L906898-2						
Chloride (Cl) - Dissolved		40.9	41.6	J	mg/L	0.7	36	14-JUL-10
WG1134426-1	MB							
Chloride (Cl) - Dissolved			<9.0		mg/L		9	14-JUL-10
COL-TRU-WP								
	Water							
Batch	R1348083							
WG1132651-3	DUP	L906727-2						
Color, True		<5.0	<5.0	RPD-NA	T.C.U.	N/A	20	09-JUL-10
WG1132651-1	MB							
Color, True			<5.0		T.C.U.		5	09-JUL-10
CONSULT-BOD-CBOD-WP								
	Water							
Batch	R1362203							
WG1132174-3	DUP	L906861-1						
BOD Carbonaceous		<1.0	<1.0	RPD-NA	mg/L	N/A	20	15-JUL-10
WG1132174-2	IRM	61-GG						
BOD Carbonaceous			98		%		85-115	15-JUL-10
WG1132174-1	MB							
BOD Carbonaceous			<1.0		mg/L		1	15-JUL-10
EC-WP								
	Water							
Batch	R1350283							
WG1132624-2	CCV							
Conductivity			103		%		95-105	12-JUL-10
WG1132624-1	CVS							
Conductivity			99		%		90-110	12-JUL-10
WG1132624-6	DUP	L906898-2						
Conductivity		781	781		umhos/cm	0.0077	10	12-JUL-10
WG1132624-7	DUP	L907082-8						
Conductivity		212	212		umhos/cm	0.0	10	12-JUL-10
HG-D-CVAF-WP								
	Water							
Batch	R1388824							
WG1137638-2	DUP	L907120-4						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	15-JUL-10
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	15-JUL-10
WG1137641-2	LCS							
Mercury (Hg)-Dissolved			95		%		63-138	15-JUL-10
Mercury (Hg)-Dissolved			95		%		63-138	15-JUL-10
WG1137638-1	MB							



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-D-CVAF-WP								
	Water							
Batch	R138824							
WG1137638-1 MB								
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	15-JUL-10
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	15-JUL-10
WG1137641-1 MB								
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	15-JUL-10
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	15-JUL-10
WG1137638-3 MS		L907120-4						
Mercury (Hg)-Dissolved			99		%		70-130	15-JUL-10
Mercury (Hg)-Dissolved			99		%		70-130	15-JUL-10
HG-T-CVAF-WP								
	Water							
Batch	R1389507							
WG1137745-3 DUP		L906568-1						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	16-JUL-10
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	16-JUL-10
WG1137745-2 LCS								
Mercury (Hg)-Total			101		%		63-138	16-JUL-10
Mercury (Hg)-Total			101		%		63-138	16-JUL-10
WG1137745-1 MB								
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	16-JUL-10
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	16-JUL-10
WG1137745-4 MS		L906568-1						
Mercury (Hg)-Total			102		%		70-130	16-JUL-10
Mercury (Hg)-Total			102		%		70-130	16-JUL-10
MET-D-L-MS-WP								
	Water							
Batch	R1421107							
WG1146960-3 CCV								
Aluminum (Al)-Dissolved			97		%		90-110	06-AUG-10
Antimony (Sb)-Dissolved			98		%		90-110	06-AUG-10
Arsenic (As)-Dissolved			97		%		90-110	06-AUG-10
Barium (Ba)-Dissolved			98		%		90-110	06-AUG-10
Beryllium (Be)-Dissolved			103		%		90-110	06-AUG-10
Bismuth (Bi)-Dissolved			97		%		90-110	06-AUG-10
Boron (B)-Dissolved			97		%		90-110	06-AUG-10
Cadmium (Cd)-Dissolved			99		%		90-110	06-AUG-10
Calcium (Ca)-Dissolved			104		%		90-110	06-AUG-10
Cesium (Cs)-Dissolved			95		%		90-110	06-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1421107							
WG1146960-3 CCV								
Chromium (Cr)-Dissolved			102		%		90-110	06-AUG-10
Cobalt (Co)-Dissolved			101		%		90-110	06-AUG-10
Iron (Fe)-Dissolved			102		%		90-110	06-AUG-10
Lead (Pb)-Dissolved			100		%		90-110	06-AUG-10
Lithium (Li)-Dissolved			107		%		90-110	06-AUG-10
Magnesium (Mg)-Dissolved			99		%		90-110	06-AUG-10
Manganese (Mn)-Dissolved			101		%		90-110	06-AUG-10
Molybdenum (Mo)-Dissolved			96		%		90-110	06-AUG-10
Nickel (Ni)-Dissolved			100		%		90-110	06-AUG-10
Phosphorus (P)-Dissolved			100		%		90-110	06-AUG-10
Potassium (K)-Dissolved			100		%		90-110	06-AUG-10
Rubidium (Rb)-Dissolved			100		%		90-110	06-AUG-10
Selenium (Se)-Dissolved			97		%		90-110	06-AUG-10
Silicon (Si)-Dissolved			98		%		90-110	06-AUG-10
Silver (Ag)-Dissolved			97		%		90-110	06-AUG-10
Sodium (Na)-Dissolved			101		%		90-110	06-AUG-10
Strontium (Sr)-Dissolved			100		%		90-110	06-AUG-10
Tellurium (Te)-Dissolved			101		%		90-110	06-AUG-10
Thallium (Tl)-Dissolved			98		%		90-110	06-AUG-10
Thorium (Th)-Dissolved			92		%		63-138	06-AUG-10
Tin (Sn)-Dissolved			96		%		90-110	06-AUG-10
Titanium (Ti)-Dissolved			96		%		90-110	06-AUG-10
Tungsten (W)-Dissolved			99		%		90-110	06-AUG-10
Uranium (U)-Dissolved			95		%		90-110	06-AUG-10
Vanadium (V)-Dissolved			98		%		90-110	06-AUG-10
Zinc (Zn)-Dissolved			100		%		90-110	06-AUG-10
Zirconium (Zr)-Dissolved			95		%		90-110	06-AUG-10
WG1146960-1 CVS								
Aluminum (Al)-Dissolved			96		%		80-120	06-AUG-10
Antimony (Sb)-Dissolved			102		%		80-120	06-AUG-10
Arsenic (As)-Dissolved			98		%		80-120	06-AUG-10
Barium (Ba)-Dissolved			105		%		80-120	06-AUG-10
Beryllium (Be)-Dissolved			98		%		80-120	06-AUG-10
Bismuth (Bi)-Dissolved			103		%		80-120	06-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
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 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1421107							
WG1146960-1	CVS							
Boron (B)-Dissolved			101		%		80-120	06-AUG-10
Cadmium (Cd)-Dissolved			98		%		80-120	06-AUG-10
Calcium (Ca)-Dissolved			101		%		80-120	06-AUG-10
Cesium (Cs)-Dissolved			98		%		80-120	06-AUG-10
Chromium (Cr)-Dissolved			98		%		80-120	06-AUG-10
Cobalt (Co)-Dissolved			100		%		80-120	06-AUG-10
Iron (Fe)-Dissolved			99		%		80-120	06-AUG-10
Lead (Pb)-Dissolved			103		%		80-120	06-AUG-10
Lithium (Li)-Dissolved			97		%		80-120	06-AUG-10
Magnesium (Mg)-Dissolved			103		%		80-120	06-AUG-10
Manganese (Mn)-Dissolved			97		%		80-120	06-AUG-10
Molybdenum (Mo)-Dissolved			95		%		80-120	06-AUG-10
Nickel (Ni)-Dissolved			102		%		80-120	06-AUG-10
Phosphorus (P)-Dissolved			98		%		80-120	06-AUG-10
Potassium (K)-Dissolved			105		%		80-120	06-AUG-10
Rubidium (Rb)-Dissolved			96		%		80-120	06-AUG-10
Selenium (Se)-Dissolved			99		%		80-120	06-AUG-10
Silicon (Si)-Dissolved			98		%		63-138	06-AUG-10
Silver (Ag)-Dissolved			95		%		63-138	06-AUG-10
Sodium (Na)-Dissolved			103		%		80-120	06-AUG-10
Strontium (Sr)-Dissolved			96		%		80-120	06-AUG-10
Tellurium (Te)-Dissolved			100		%		80-120	06-AUG-10
Thallium (Tl)-Dissolved			100		%		80-120	06-AUG-10
Thorium (Th)-Dissolved			100		%		63-138	06-AUG-10
Tin (Sn)-Dissolved			92		%		80-120	06-AUG-10
Titanium (Ti)-Dissolved			93		%		80-120	06-AUG-10
Tungsten (W)-Dissolved			100		%		80-120	06-AUG-10
Uranium (U)-Dissolved			99		%		80-120	06-AUG-10
Vanadium (V)-Dissolved			97		%		80-120	06-AUG-10
Zinc (Zn)-Dissolved			99		%		80-120	06-AUG-10
Zirconium (Zr)-Dissolved			93		%		80-120	06-AUG-10
WG1146960-2	CVS							
Aluminum (Al)-Dissolved			106		%		80-120	06-AUG-10
Antimony (Sb)-Dissolved			104		%		80-120	06-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1421107							
WG1146960-2	CVS							
Arsenic (As)-Dissolved			99		%		80-120	06-AUG-10
Barium (Ba)-Dissolved			101		%		80-120	06-AUG-10
Beryllium (Be)-Dissolved			101		%		80-120	06-AUG-10
Bismuth (Bi)-Dissolved			103		%		80-120	06-AUG-10
Boron (B)-Dissolved			100		%		80-120	06-AUG-10
Cadmium (Cd)-Dissolved			103		%		80-120	06-AUG-10
Calcium (Ca)-Dissolved			101		%		80-120	06-AUG-10
Cesium (Cs)-Dissolved			101		%		80-120	06-AUG-10
Chromium (Cr)-Dissolved			100		%		80-120	06-AUG-10
Cobalt (Co)-Dissolved			105		%		80-120	06-AUG-10
Iron (Fe)-Dissolved			103		%		80-120	06-AUG-10
Lead (Pb)-Dissolved			104		%		80-120	06-AUG-10
Lithium (Li)-Dissolved			95		%		80-120	06-AUG-10
Magnesium (Mg)-Dissolved			97		%		80-120	06-AUG-10
Manganese (Mn)-Dissolved			100		%		80-120	06-AUG-10
Molybdenum (Mo)-Dissolved			101		%		80-120	06-AUG-10
Nickel (Ni)-Dissolved			100		%		80-120	06-AUG-10
Phosphorus (P)-Dissolved			99		%		80-120	06-AUG-10
Potassium (K)-Dissolved			101		%		80-120	06-AUG-10
Rubidium (Rb)-Dissolved			109		%		80-120	06-AUG-10
Selenium (Se)-Dissolved			97		%		80-120	06-AUG-10
Silicon (Si)-Dissolved			102		%		63-138	06-AUG-10
Silver (Ag)-Dissolved			100		%		63-138	06-AUG-10
Sodium (Na)-Dissolved			98		%		80-120	06-AUG-10
Strontium (Sr)-Dissolved			104		%		80-120	06-AUG-10
Tellurium (Te)-Dissolved			98		%		80-120	06-AUG-10
Thallium (Tl)-Dissolved			103		%		80-120	06-AUG-10
Thorium (Th)-Dissolved			103		%		63-138	06-AUG-10
Tin (Sn)-Dissolved			99		%		80-120	06-AUG-10
Titanium (Ti)-Dissolved			94		%		80-120	06-AUG-10
Tungsten (W)-Dissolved			103		%		80-120	06-AUG-10
Uranium (U)-Dissolved			103		%		80-120	06-AUG-10
Vanadium (V)-Dissolved			102		%		80-120	06-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1421107							
WG1146960-2	CVS							
Zinc (Zn)-Dissolved			100		%		80-120	06-AUG-10
Zirconium (Zr)-Dissolved			102		%		80-120	06-AUG-10
WG1146953-3	DUP		WG1146953-2					
Aluminum (Al)-Dissolved		0.0031	0.0029	J	mg/L	0.0001	0.008	07-AUG-10
Antimony (Sb)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Arsenic (As)-Dissolved		0.00110	0.00107	J	mg/L	0.00003	0.0008	07-AUG-10
Barium (Ba)-Dissolved		0.0150	0.0152		mg/L	1.5	20	07-AUG-10
Beryllium (Be)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Bismuth (Bi)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Boron (B)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	07-AUG-10
Cadmium (Cd)-Dissolved		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	07-AUG-10
Calcium (Ca)-Dissolved		16.6	16.2		mg/L	2.3	20	07-AUG-10
Cesium (Cs)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	07-AUG-10
Chromium (Cr)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Cobalt (Co)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Iron (Fe)-Dissolved		0.065	0.063	J	mg/L	0.002	0.04	07-AUG-10
Lead (Pb)-Dissolved		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	07-AUG-10
Lithium (Li)-Dissolved		0.0047	0.0041	J	mg/L	0.0007	0.008	07-AUG-10
Magnesium (Mg)-Dissolved		5.50	5.34		mg/L	3.1	20	07-AUG-10
Manganese (Mn)-Dissolved		0.00047	0.00046	J	mg/L	0.00001	0.0008	07-AUG-10
Molybdenum (Mo)-Dissolved		0.00017	0.00017	J	mg/L	0.00000	0.0004	07-AUG-10
Nickel (Ni)-Dissolved		0.00069	0.00057	J	mg/L	0.00012	0.0008	07-AUG-10
Phosphorus (P)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	20	07-AUG-10
Potassium (K)-Dissolved		2.18	2.07		mg/L	5.5	20	07-AUG-10
Rubidium (Rb)-Dissolved		0.00193	0.00196	J	mg/L	0.00003	0.0008	07-AUG-10
Selenium (Se)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	07-AUG-10
Silicon (Si)-Dissolved		1.98	2.11		mg/L	6.2	20	07-AUG-10
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	07-AUG-10
Sodium (Na)-Dissolved		4.52	4.44		mg/L	1.7	20	07-AUG-10
Strontium (Sr)-Dissolved		0.0362	0.0365		mg/L	1.0	20	07-AUG-10
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	07-AUG-10
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	07-AUG-10



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 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP								
	Water							
Batch	R1421107							
WG1146953-3	DUP	WG1146953-2						
Tin (Sn)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Titanium (Ti)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Tungsten (W)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	07-AUG-10
Uranium (U)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	07-AUG-10
Vanadium (V)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Zinc (Zn)-Dissolved		0.0091	0.0088	J	mg/L	0.0004	0.008	07-AUG-10
Zirconium (Zr)-Dissolved		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	07-AUG-10
WG1146953-4	LCS							
Aluminum (Al)-Dissolved			94		%		80-120	07-AUG-10
Antimony (Sb)-Dissolved			100		%		80-120	07-AUG-10
Arsenic (As)-Dissolved			99		%		80-120	07-AUG-10
Barium (Ba)-Dissolved			102		%		80-120	07-AUG-10
Beryllium (Be)-Dissolved			103		%		80-120	07-AUG-10
Bismuth (Bi)-Dissolved			101		%		80-120	07-AUG-10
Boron (B)-Dissolved			103		%		80-120	07-AUG-10
Cadmium (Cd)-Dissolved			96		%		80-120	07-AUG-10
Calcium (Ca)-Dissolved			95		%		80-120	07-AUG-10
Cesium (Cs)-Dissolved			100		%		80-120	07-AUG-10
Chromium (Cr)-Dissolved			101		%		80-120	07-AUG-10
Cobalt (Co)-Dissolved			102		%		80-120	07-AUG-10
Iron (Fe)-Dissolved			111		%		80-120	07-AUG-10
Lead (Pb)-Dissolved			97		%		80-120	07-AUG-10
Lithium (Li)-Dissolved			98		%		80-120	07-AUG-10
Magnesium (Mg)-Dissolved			102		%		80-120	07-AUG-10
Manganese (Mn)-Dissolved			99		%		80-120	07-AUG-10
Molybdenum (Mo)-Dissolved			100		%		80-120	07-AUG-10
Nickel (Ni)-Dissolved			98		%		80-120	07-AUG-10
Phosphorus (P)-Dissolved			106		%		80-120	07-AUG-10
Potassium (K)-Dissolved			104		%		80-120	07-AUG-10
Rubidium (Rb)-Dissolved			97		%		80-120	07-AUG-10
Selenium (Se)-Dissolved			100		%		80-120	07-AUG-10
Silicon (Si)-Dissolved			107		%		80-120	07-AUG-10
Silver (Ag)-Dissolved			96		%		80-120	07-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1421107							
WG1146953-4	LCS							
Sodium (Na)-Dissolved			102		%		80-120	07-AUG-10
Strontium (Sr)-Dissolved			96		%		80-120	07-AUG-10
Tellurium (Te)-Dissolved			99		%		80-120	07-AUG-10
Thallium (Tl)-Dissolved			104		%		80-120	07-AUG-10
Thorium (Th)-Dissolved			93		%		80-120	07-AUG-10
Tin (Sn)-Dissolved			98		%		80-120	07-AUG-10
Titanium (Ti)-Dissolved			99		%		80-120	07-AUG-10
Tungsten (W)-Dissolved			99		%		80-120	07-AUG-10
Uranium (U)-Dissolved			93		%		80-120	07-AUG-10
Vanadium (V)-Dissolved			102		%		80-120	07-AUG-10
Zinc (Zn)-Dissolved			101		%		80-120	07-AUG-10
Zirconium (Zr)-Dissolved			98		%		80-120	07-AUG-10
WG1146953-1	MB							
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.002	07-AUG-10
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Arsenic (As)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Boron (B)-Dissolved			<0.010		mg/L		0.01	07-AUG-10
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.00001	07-AUG-10
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	07-AUG-10
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Chromium (Cr)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	07-AUG-10
Lead (Pb)-Dissolved			<0.000090		mg/L		0.00009	07-AUG-10
Lithium (Li)-Dissolved			<0.0020		mg/L		0.002	07-AUG-10
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.01	07-AUG-10
Manganese (Mn)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Nickel (Ni)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Phosphorus (P)-Dissolved			<0.10		mg/L		0.1	07-AUG-10
Potassium (K)-Dissolved			<0.020		mg/L		0.02	07-AUG-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch R1421107								
WG1146953-1 MB								
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Selenium (Se)-Dissolved			<0.0010		mg/L		0.001	07-AUG-10
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	07-AUG-10
Silver (Ag)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Sodium (Na)-Dissolved			<0.020		mg/L		0.02	07-AUG-10
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Tin (Sn)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Titanium (Ti)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Tungsten (W)-Dissolved			<0.0010		mg/L		0.001	07-AUG-10
Uranium (U)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Vanadium (V)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Zinc (Zn)-Dissolved			<0.0020		mg/L		0.002	07-AUG-10
Zirconium (Zr)-Dissolved			<0.00040		mg/L		0.0004	07-AUG-10
Batch R1438859								
WG1149656-3 CCV								
Copper (Cu)-Dissolved			105		%		90-110	12-AUG-10
WG1149656-1 CVS								
Copper (Cu)-Dissolved			106		%		80-120	12-AUG-10
WG1149656-2 CVS								
Copper (Cu)-Dissolved			99		%		80-120	12-AUG-10
Batch R1439889								
WG1150660-4 CCV								
Copper (Cu)-Dissolved			101		%		90-110	13-AUG-10
WG1150660-2 CVS								
Copper (Cu)-Dissolved			103		%		80-120	13-AUG-10
WG1150660-3 CVS								
Copper (Cu)-Dissolved			99		%		80-120	13-AUG-10
MET-T-L-MS-WP		Water						
Batch R1352104								
WG1133320-3 CCV								
Aluminum (Al)-Total			97		%		90-110	12-JUL-10
Antimony (Sb)-Total			103		%		90-110	12-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1352104							
WG1133320-3	CCV							
Arsenic (As)-Total			102		%		90-110	12-JUL-10
Barium (Ba)-Total			103		%		90-110	12-JUL-10
Beryllium (Be)-Total			101		%		90-110	12-JUL-10
Bismuth (Bi)-Total			108		%		90-110	12-JUL-10
Boron (B)-Total			98		%		90-110	12-JUL-10
Cadmium (Cd)-Total			102		%		90-110	12-JUL-10
Calcium (Ca)-Total			100		%		90-110	12-JUL-10
Cesium (Cs)-Total			107		%		90-110	12-JUL-10
Chromium (Cr)-Total			104		%		90-110	12-JUL-10
Cobalt (Co)-Total			106		%		90-110	12-JUL-10
Copper (Cu)-Total			103		%		90-110	12-JUL-10
Iron (Fe)-Total			106		%		90-110	12-JUL-10
Lead (Pb)-Total			104		%		90-110	12-JUL-10
Lithium (Li)-Total			100		%		90-110	12-JUL-10
Magnesium (Mg)-Total			95		%		90-110	12-JUL-10
Manganese (Mn)-Total			106		%		90-110	12-JUL-10
Molybdenum (Mo)-Total			102		%		90-110	12-JUL-10
Nickel (Ni)-Total			103		%		90-110	12-JUL-10
Phosphorus (P)-Total			106		%		90-110	12-JUL-10
Potassium (K)-Total			101		%		90-110	12-JUL-10
Rubidium (Rb)-Total			103		%		90-110	12-JUL-10
Selenium (Se)-Total			104		%		90-110	12-JUL-10
Silicon (Si)-Total			100		%		90-110	12-JUL-10
Silver (Ag)-Total			101		%		90-110	12-JUL-10
Sodium (Na)-Total			94		%		90-110	12-JUL-10
Strontium (Sr)-Total			104		%		90-110	12-JUL-10
Tellurium (Te)-Total			100		%		90-110	12-JUL-10
Thallium (Tl)-Total			107		%		90-110	12-JUL-10
Thorium (Th)-Total			98		%		63-138	12-JUL-10
Tin (Sn)-Total			105		%		90-110	12-JUL-10
Titanium (Ti)-Total			107		%		90-110	12-JUL-10
Tungsten (W)-Total			102		%		90-110	12-JUL-10
Uranium (U)-Total			100		%		90-110	12-JUL-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1352104							
WG1133320-3	CCV							
Vanadium (V)-Total			102		%		90-110	12-JUL-10
Zinc (Zn)-Total			102		%		90-110	12-JUL-10
Zirconium (Zr)-Total			103		%		90-110	12-JUL-10
WG1133320-1	CVS							
Aluminum (Al)-Total			92		%		63-138	12-JUL-10
Antimony (Sb)-Total			101		%		63-138	12-JUL-10
Arsenic (As)-Total			98		%		63-138	12-JUL-10
Barium (Ba)-Total			101		%		63-138	12-JUL-10
Beryllium (Be)-Total			95		%		63-138	12-JUL-10
Bismuth (Bi)-Total			93		%		63-138	12-JUL-10
Boron (B)-Total			99		%		63-138	12-JUL-10
Cadmium (Cd)-Total			98		%		63-138	12-JUL-10
Calcium (Ca)-Total			96		%		63-138	12-JUL-10
Cesium (Cs)-Total			105		%		63-138	12-JUL-10
Chromium (Cr)-Total			100		%		63-138	12-JUL-10
Cobalt (Co)-Total			102		%		63-138	12-JUL-10
Copper (Cu)-Total			98		%		63-138	12-JUL-10
Iron (Fe)-Total			104		%		63-138	12-JUL-10
Lead (Pb)-Total			102		%		63-138	12-JUL-10
Lithium (Li)-Total			99		%		63-138	12-JUL-10
Magnesium (Mg)-Total			93		%		63-138	12-JUL-10
Manganese (Mn)-Total			101		%		63-138	12-JUL-10
Molybdenum (Mo)-Total			99		%		63-138	12-JUL-10
Nickel (Ni)-Total			98		%		63-138	12-JUL-10
Phosphorus (P)-Total			96		%		63-138	12-JUL-10
Potassium (K)-Total			97		%		63-138	12-JUL-10
Rubidium (Rb)-Total			98		%		63-138	12-JUL-10
Selenium (Se)-Total			99		%		63-138	12-JUL-10
Silicon (Si)-Total			92		%		63-138	12-JUL-10
Silver (Ag)-Total			98		%		63-138	12-JUL-10
Sodium (Na)-Total			95		%		63-138	12-JUL-10
Strontium (Sr)-Total			99		%		63-138	12-JUL-10
Tellurium (Te)-Total			99		%		63-138	12-JUL-10
Thallium (Tl)-Total			102		%		63-138	12-JUL-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1352104							
WG1133320-1	CVS							
Thorium (Th)-Total			97		%		63-138	12-JUL-10
Tin (Sn)-Total			100		%		63-138	12-JUL-10
Titanium (Ti)-Total			94		%		63-138	12-JUL-10
Tungsten (W)-Total			101		%		63-138	12-JUL-10
Uranium (U)-Total			98		%		63-138	12-JUL-10
Vanadium (V)-Total			97		%		63-138	12-JUL-10
Zinc (Zn)-Total			98		%		63-138	12-JUL-10
Zirconium (Zr)-Total			98		%		63-138	12-JUL-10
WG1133320-2	CVS							
Aluminum (Al)-Total			99		%		63-138	12-JUL-10
Antimony (Sb)-Total			96		%		63-138	12-JUL-10
Arsenic (As)-Total			100		%		63-138	12-JUL-10
Barium (Ba)-Total			95		%		63-138	12-JUL-10
Beryllium (Be)-Total			104		%		63-138	12-JUL-10
Bismuth (Bi)-Total			91		%		63-138	12-JUL-10
Boron (B)-Total			103		%		63-138	12-JUL-10
Cadmium (Cd)-Total			98		%		63-138	12-JUL-10
Calcium (Ca)-Total			100		%		63-138	12-JUL-10
Cesium (Cs)-Total			99		%		63-138	12-JUL-10
Chromium (Cr)-Total			96		%		63-138	12-JUL-10
Cobalt (Co)-Total			96		%		63-138	12-JUL-10
Copper (Cu)-Total			95		%		63-138	12-JUL-10
Iron (Fe)-Total			98		%		63-138	12-JUL-10
Lead (Pb)-Total			96		%		63-138	12-JUL-10
Lithium (Li)-Total			102		%		63-138	12-JUL-10
Magnesium (Mg)-Total			99		%		63-138	12-JUL-10
Manganese (Mn)-Total			100		%		63-138	12-JUL-10
Molybdenum (Mo)-Total			101		%		63-138	12-JUL-10
Nickel (Ni)-Total			96		%		63-138	12-JUL-10
Phosphorus (P)-Total			97		%		63-138	12-JUL-10
Potassium (K)-Total			100		%		63-138	12-JUL-10
Rubidium (Rb)-Total			96		%		63-138	12-JUL-10
Selenium (Se)-Total			99		%		63-138	12-JUL-10
Silicon (Si)-Total			100		%		63-138	12-JUL-10



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 99 COMMERCE DRIVE
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Contact: CLIFF SAMOILLOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1352104							
WG1133320-2 CVS								
Silver (Ag)-Total			94		%		63-138	12-JUL-10
Sodium (Na)-Total			100		%		63-138	12-JUL-10
Strontium (Sr)-Total			99		%		63-138	12-JUL-10
Tellurium (Te)-Total			99		%		63-138	12-JUL-10
Thallium (Tl)-Total			98		%		63-138	12-JUL-10
Thorium (Th)-Total			100		%		63-138	12-JUL-10
Tin (Sn)-Total			99		%		63-138	12-JUL-10
Titanium (Ti)-Total			97		%		63-138	12-JUL-10
Tungsten (W)-Total			97		%		63-138	12-JUL-10
Uranium (U)-Total			100		%		63-138	12-JUL-10
Vanadium (V)-Total			95		%		63-138	12-JUL-10
Zinc (Zn)-Total			97		%		63-138	12-JUL-10
Zirconium (Zr)-Total			101		%		63-138	12-JUL-10
WG1132699-4 DUP		WG1132699-3						
Aluminum (Al)-Total		0.0442	0.0440	J	mg/L	0.0002	0.02	12-JUL-10
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	12-JUL-10
Arsenic (As)-Total		0.00227	0.00223		mg/L	1.8	20	12-JUL-10
Barium (Ba)-Total		0.00673	0.00680		mg/L	1.0	20	12-JUL-10
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	12-JUL-10
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	12-JUL-10
Boron (B)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	20	12-JUL-10
Cadmium (Cd)-Total		0.000033	0.000029	J	mg/L	0.000004	0.00004	12-JUL-10
Calcium (Ca)-Total		4.37	4.26		mg/L	2.4	20	12-JUL-10
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	12-JUL-10
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	12-JUL-10
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	12-JUL-10
Copper (Cu)-Total		0.00086	0.00085	J	mg/L	0.00001	0.0008	12-JUL-10
Iron (Fe)-Total		0.149	0.150	J	mg/L	0.000	0.08	12-JUL-10
Lead (Pb)-Total		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	12-JUL-10
Lithium (Li)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	12-JUL-10
Magnesium (Mg)-Total		1.60	1.57		mg/L	1.7	20	12-JUL-10
Manganese (Mn)-Total		0.0110	0.0109		mg/L	0.90	20	12-JUL-10
Molybdenum (Mo)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	12-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
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 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILLOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1352104							
WG1132699-4	DUP	WG1132699-3						
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	12-JUL-10
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	20	12-JUL-10
Potassium (K)-Total		0.573	0.561		mg/L	2.1	20	12-JUL-10
Rubidium (Rb)-Total		0.00145	0.00142	J	mg/L	0.00003	0.0008	12-JUL-10
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	12-JUL-10
Silicon (Si)-Total		0.200	0.200	J	mg/L	0.000	0.2	12-JUL-10
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	12-JUL-10
Sodium (Na)-Total		1.04	1.02		mg/L	1.3	20	12-JUL-10
Strontium (Sr)-Total		0.0160	0.0156		mg/L	2.8	20	12-JUL-10
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	12-JUL-10
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	12-JUL-10
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	12-JUL-10
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	12-JUL-10
Titanium (Ti)-Total		0.00091	0.00079	J	mg/L	0.00012	0.0008	12-JUL-10
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	12-JUL-10
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	12-JUL-10
Vanadium (V)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	12-JUL-10
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	12-JUL-10
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	12-JUL-10
WG1132699-6	DUP	WG1132699-5						
Aluminum (Al)-Total		0.192	0.197		mg/L	2.8	20	12-JUL-10
Antimony (Sb)-Total		0.00025	0.00024	J	mg/L	0.00001	0.0008	12-JUL-10
Arsenic (As)-Total		0.00343	0.00349		mg/L	1.7	20	12-JUL-10
Barium (Ba)-Total		0.0813	0.0820		mg/L	0.83	20	12-JUL-10
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	12-JUL-10
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	12-JUL-10
Boron (B)-Total		0.173	0.181		mg/L	4.5	20	12-JUL-10
Cadmium (Cd)-Total		0.000054	0.000052	J	mg/L	0.000002	0.00004	12-JUL-10
Calcium (Ca)-Total		174	175		mg/L	0.57	20	12-JUL-10
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	12-JUL-10
Chromium (Cr)-Total		<0.0010	0.0010	RPD-NA	mg/L	N/A	20	12-JUL-10
Cobalt (Co)-Total		0.00025	0.00024	J	mg/L	0.00000	0.0008	12-JUL-10
Copper (Cu)-Total		0.00656	0.00676		mg/L	3.0	20	12-JUL-10



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 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
	Water							
Batch	R1352104							
WG1132699-6	DUP	WG1132699-5						
Iron (Fe)-Total		0.126	0.122	J	mg/L	0.003	0.08	12-JUL-10
Lead (Pb)-Total		0.000174	0.000171	J	mg/L	0.000003	0.00036	12-JUL-10
Lithium (Li)-Total		0.106	0.110		mg/L	4.1	20	12-JUL-10
Magnesium (Mg)-Total		111	112		mg/L	0.90	20	12-JUL-10
Manganese (Mn)-Total		0.103	0.103		mg/L	0.21	20	12-JUL-10
Molybdenum (Mo)-Total		0.00493	0.00505		mg/L	2.5	20	12-JUL-10
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	12-JUL-10
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	20	12-JUL-10
Potassium (K)-Total		3.26	3.36		mg/L	2.9	20	12-JUL-10
Rubidium (Rb)-Total		0.00160	0.00157	J	mg/L	0.00003	0.0008	12-JUL-10
Selenium (Se)-Total		0.0029	0.0032	J	mg/L	0.0003	0.004	12-JUL-10
Silicon (Si)-Total		6.18	6.04		mg/L	2.3	20	12-JUL-10
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	12-JUL-10
Sodium (Na)-Total		85.1	86.0		mg/L	1.1	20	12-JUL-10
Strontium (Sr)-Total		0.561	0.577		mg/L	2.8	20	12-JUL-10
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	12-JUL-10
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	12-JUL-10
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	12-JUL-10
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	12-JUL-10
Titanium (Ti)-Total		0.00793	0.0109	G	mg/L	31	20	12-JUL-10
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	12-JUL-10
Uranium (U)-Total		0.0235	0.0240		mg/L	2.2	20	12-JUL-10
Vanadium (V)-Total		0.00154	0.00163	J	mg/L	0.00009	0.0008	12-JUL-10
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	12-JUL-10
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	12-JUL-10
WG1132699-2	LCS							
Aluminum (Al)-Total			112		%		80-120	12-JUL-10
Antimony (Sb)-Total			99		%		80-120	12-JUL-10
Arsenic (As)-Total			101		%		80-120	12-JUL-10
Barium (Ba)-Total			109		%		80-120	12-JUL-10
Beryllium (Be)-Total			100		%		80-120	12-JUL-10
Bismuth (Bi)-Total			96		%		80-120	12-JUL-10
Boron (B)-Total			105		%		80-120	12-JUL-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1352104							
WG1132699-2	LCS							
Cadmium (Cd)-Total			106		%		80-120	12-JUL-10
Calcium (Ca)-Total			105		%		80-120	12-JUL-10
Cesium (Cs)-Total			113		%		80-120	12-JUL-10
Chromium (Cr)-Total			107		%		80-120	12-JUL-10
Cobalt (Co)-Total			108		%		80-120	12-JUL-10
Copper (Cu)-Total			106		%		80-120	12-JUL-10
Iron (Fe)-Total			98		%		80-120	12-JUL-10
Lead (Pb)-Total			99		%		80-120	12-JUL-10
Lithium (Li)-Total			105		%		80-120	12-JUL-10
Magnesium (Mg)-Total			108		%		80-120	12-JUL-10
Manganese (Mn)-Total			107		%		80-120	12-JUL-10
Molybdenum (Mo)-Total			109		%		80-120	12-JUL-10
Nickel (Ni)-Total			104		%		80-120	12-JUL-10
Phosphorus (P)-Total			110		%		80-120	12-JUL-10
Potassium (K)-Total			105		%		80-120	12-JUL-10
Rubidium (Rb)-Total			113		%		80-120	12-JUL-10
Selenium (Se)-Total			103		%		80-120	12-JUL-10
Silicon (Si)-Total			118		%		80-120	12-JUL-10
Silver (Ag)-Total			105		%		80-120	12-JUL-10
Sodium (Na)-Total			109		%		80-120	12-JUL-10
Strontium (Sr)-Total			107		%		80-120	12-JUL-10
Tellurium (Te)-Total			107		%		80-120	12-JUL-10
Thallium (Tl)-Total			101		%		80-120	12-JUL-10
Thorium (Th)-Total			101		%		63-138	12-JUL-10
Tin (Sn)-Total			102		%		80-120	12-JUL-10
Titanium (Ti)-Total			107		%		80-120	12-JUL-10
Tungsten (W)-Total			106		%		80-120	12-JUL-10
Uranium (U)-Total			115		%		80-120	12-JUL-10
Vanadium (V)-Total			106		%		80-120	12-JUL-10
Zinc (Zn)-Total			105		%		80-120	12-JUL-10
Zirconium (Zr)-Total			107		%		80-120	12-JUL-10
WG1132699-1	MB							
Aluminum (Al)-Total			<0.0050		mg/L		0.005	12-JUL-10
Antimony (Sb)-Total			<0.00020		mg/L		0.0002	12-JUL-10



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 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
	Water							
Batch	R1352104							
WG1132699-1 MB								
Arsenic (As)-Total			<0.00020		mg/L		0.0002	12-JUL-10
Barium (Ba)-Total			<0.00020		mg/L		0.0002	12-JUL-10
Beryllium (Be)-Total			<0.00020		mg/L		0.0002	12-JUL-10
Bismuth (Bi)-Total			<0.00020		mg/L		0.0002	12-JUL-10
Boron (B)-Total			<0.010		mg/L		0.01	12-JUL-10
Cadmium (Cd)-Total			<0.000010		mg/L		0.00001	12-JUL-10
Calcium (Ca)-Total			<0.10		mg/L		0.1	12-JUL-10
Cesium (Cs)-Total			<0.00010		mg/L		0.0001	12-JUL-10
Chromium (Cr)-Total			<0.0010		mg/L		0.001	12-JUL-10
Cobalt (Co)-Total			<0.00020		mg/L		0.0002	12-JUL-10
Copper (Cu)-Total			<0.00020		mg/L		0.0002	12-JUL-10
Iron (Fe)-Total			<0.020		mg/L		0.02	12-JUL-10
Lead (Pb)-Total			<0.000090		mg/L		0.00009	12-JUL-10
Lithium (Li)-Total			<0.0020		mg/L		0.002	12-JUL-10
Magnesium (Mg)-Total			<0.010		mg/L		0.01	12-JUL-10
Manganese (Mn)-Total			<0.00030		mg/L		0.0003	12-JUL-10
Molybdenum (Mo)-Total			<0.00020		mg/L		0.0002	12-JUL-10
Nickel (Ni)-Total			<0.0020		mg/L		0.002	12-JUL-10
Phosphorus (P)-Total			<0.20		mg/L		0.2	12-JUL-10
Potassium (K)-Total			<0.020		mg/L		0.02	12-JUL-10
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	12-JUL-10
Selenium (Se)-Total			<0.0010		mg/L		0.001	12-JUL-10
Silicon (Si)-Total			<0.050		mg/L		0.05	12-JUL-10
Silver (Ag)-Total			<0.00010		mg/L		0.0001	12-JUL-10
Sodium (Na)-Total			<0.030		mg/L		0.03	12-JUL-10
Strontium (Sr)-Total			<0.00010		mg/L		0.0001	12-JUL-10
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	12-JUL-10
Thallium (Tl)-Total			<0.00010		mg/L		0.0001	12-JUL-10
Thorium (Th)-Total			<0.00010		mg/L		0.0001	12-JUL-10
Tin (Sn)-Total			<0.00020		mg/L		0.0002	12-JUL-10
Titanium (Ti)-Total			<0.00020		mg/L		0.0002	12-JUL-10
Tungsten (W)-Total			<0.0010		mg/L		0.001	12-JUL-10
Uranium (U)-Total			<0.00010		mg/L		0.0001	12-JUL-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1352104							
WG1132699-1 MB								
Vanadium (V)-Total			<0.00020		mg/L		0.0002	12-JUL-10
Zinc (Zn)-Total			<0.0050		mg/L		0.005	12-JUL-10
Zirconium (Zr)-Total			<0.00040		mg/L		0.0004	12-JUL-10
N-TOTKJ-WP		Water						
Batch	R1349903							
WG1133037-2 CCV								
Total Kjeldahl Nitrogen			95		%		90-110	12-JUL-10
WG1133037-1 CVS								
Total Kjeldahl Nitrogen			98		%		90-110	12-JUL-10
WG1132229-4 DUP		L906816-1						
Total Kjeldahl Nitrogen		0.36	0.42	J	mg/L	0.06	0.8	12-JUL-10
WG1132229-6 DUP		L906827-2						
Total Kjeldahl Nitrogen		1.83	1.93	J	mg/L	0.10	0.8	12-JUL-10
WG1132229-2 LCS								
Total Kjeldahl Nitrogen			96		%		75-125	12-JUL-10
WG1132229-1 MB								
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	12-JUL-10
WG1132229-3 MS		L906816-1						
Total Kjeldahl Nitrogen			105		%		70-130	12-JUL-10
WG1132229-5 MS		L906827-2						
Total Kjeldahl Nitrogen			N/A	MS-B	%		-	12-JUL-10
N2N3-DIS-WP		Water						
Batch	R1399020							
WG1139153-3 CCV								
Nitrate+Nitrite-N - Dissolved			100		%		90-110	23-JUL-10
WG1139153-5 CCV								
Nitrate+Nitrite-N - Dissolved			103		%		90-110	23-JUL-10
WG1139153-2 CVS								
Nitrate+Nitrite-N - Dissolved			101		%		85-115	23-JUL-10
WG1139153-4 CVS								
Nitrate+Nitrite-N - Dissolved			103		%		85-115	23-JUL-10
WG1139152-2 DUP		L906875-1						
Nitrate+Nitrite-N - Dissolved		1.32	1.32		mg/L	0.0076	20	23-JUL-10
WG1139152-1 MB								
Nitrate+Nitrite-N - Dissolved			<0.050		mg/L		0.05	23-JUL-10
NH3-DIS-WP		Water						



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 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NH3-DIS-WP								
	Water							
Batch	R1399020							
WG1139153-3	CCV							
Ammonia (NH3) - Dissolved			104		%		90-110	23-JUL-10
WG1139153-5	CCV							
Ammonia (NH3) - Dissolved			98		%		90-110	23-JUL-10
WG1139153-2	CVS							
Ammonia (NH3) - Dissolved			103		%		85-115	23-JUL-10
WG1139153-4	CVS							
Ammonia (NH3) - Dissolved			96		%		85-115	23-JUL-10
WG1139152-1	MB							
Ammonia (NH3) - Dissolved			<0.050		mg/L		0.05	23-JUL-10
P-TOTAL-WP								
	Water							
Batch	R1356744							
WG1133017-1	CCV							
Phosphorus, Total			104		%		90-110	13-JUL-10
WG1133017-2	CCV							
Phosphorus, Total			102		%		90-110	13-JUL-10
WG1132937-2	CVS							
Phosphorus, Total			94		%		80-120	13-JUL-10
WG1132937-3	CVS							
Phosphorus, Total			98		%		80-120	13-JUL-10
WG1132937-6	CVS							
Phosphorus, Total			97		%		80-120	13-JUL-10
WG1132937-7	CVS							
Phosphorus, Total			99		%		80-120	13-JUL-10
WG1132937-4	DUP	L907060-4						
Phosphorus, Total		15.3	15.6		mg/L	1.9	20	13-JUL-10
WG1132937-1	MB							
Phosphorus, Total			<0.010		mg/L		0.01	13-JUL-10
PH-WP								
	Water							
Batch	R1350283							
WG1132624-4	CCV							
pH			101		%		90-110	12-JUL-10
WG1132624-3	CVS							
pH			100		%		99-101	12-JUL-10
WG1132624-6	DUP	L906898-2						
pH		8.00	8.00		pH units	0.012	5	12-JUL-10
WG1132624-7	DUP	L907082-8						
pH		8.27	8.26		pH units	0.012	5	12-JUL-10



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 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SILICATE-COL-VA		Water						
Batch	R1371666							
WG1134793-10 CRM		VA-SIO2-CSPK1						
Silicate (as SIO2)			98		%		85-115	15-JUL-10
WG1134793-3 CRM		VA-SIO2-CSPK1						
Silicate (as SIO2)			108		%		85-115	15-JUL-10
WG1134793-6 CRM		VA-SIO2-CSPK10						
Silicate (as SIO2)			96		%		85-115	15-JUL-10
WG1134793-1 DUP		L906225-1						
Silicate (as SIO2)		1.2	1.2	J	mg/L	0.0	4	15-JUL-10
WG1134793-4 DUP		L908024-5						
Silicate (as SIO2)		<1.0	<1.0	RPD-NA	mg/L	N/A	20	15-JUL-10
WG1134793-8 DUP		L908534-5						
Silicate (as SIO2)		6.2	6.2	J	mg/L	0.1	4	15-JUL-10
WG1134793-2 MB								
Silicate (as SIO2)			<1.0		mg/L		1	15-JUL-10
WG1134793-5 MB								
Silicate (as SIO2)			<1.0		mg/L		1	15-JUL-10
WG1134793-9 MB								
Silicate (as SIO2)			<1.0		mg/L		1	15-JUL-10
SO4-DIS-WP		Water						
Batch	R1361286							
WG1134431-3 CCV								
Sulphate (SO4) - Dissolved			93		%		90-110	14-JUL-10
WG1134431-2 CVS								
Sulphate (SO4) - Dissolved			92		%		85-115	14-JUL-10
WG1134426-2 DUP		L906898-2						
Sulphate (SO4) - Dissolved		122	123		mg/L	0.53	20	14-JUL-10
WG1134426-1 MB								
Sulphate (SO4) - Dissolved			<9.0		mg/L		9	14-JUL-10
SOLIDS-TDS-WP		Water						
Batch	R1362564							
WG1133853-2 CVS								
Total Dissolved Solids			101		%		85-115	14-JUL-10
WG1133853-12 DUP		L908132-1						
Total Dissolved Solids		1590	1580		mg/L	0.63	20	14-JUL-10
WG1133853-6 DUP		L906727-2						
Total Dissolved Solids		<5.0	<5.0	RPD-NA	mg/L	N/A	20	14-JUL-10
WG1133853-8 DUP		L906865-3						
Total Dissolved Solids		124	126		mg/L	1.6	20	14-JUL-10



Quality Control Report

Workorder: L906865

Report Date: 02-SEP-10

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SOLIDS-TDS-WP		Water						
Batch	R1362564							
WG1133853-9	DUP	L906873-5						
Total Dissolved Solids		142	<5.0		mg/L	N/A	20	14-JUL-10
WG1133853-1	MB							
Total Dissolved Solids			<5.0		mg/L		5	14-JUL-10
SOLIDS-TOTSUS-WP		Water						
Batch	R1362564							
WG1133853-2	CVS							
Total Suspended Solids			110		%		85-115	14-JUL-10
WG1133853-10	DUP	L907054-3						
Total Suspended Solids		17.0	17.0	J	mg/L	0.0	20	14-JUL-10
WG1133853-12	DUP	L908132-1						
Total Suspended Solids		460	450		mg/L	2.2	20	14-JUL-10
WG1133853-3	DUP	L906370-1						
Total Suspended Solids		16.0	17.0	J	mg/L	1.0	20	14-JUL-10
WG1133853-4	DUP	L906501-1						
Total Suspended Solids		77.0	76.0		mg/L	1.3	20	14-JUL-10
WG1133853-5	DUP	L906518-10						
Total Suspended Solids		<5.0	<5.0	RPD-NA	mg/L	N/A	20	14-JUL-10
WG1133853-6	DUP	L906727-2						
Total Suspended Solids		<5.0	<5.0	RPD-NA	mg/L	N/A	20	14-JUL-10
WG1133853-8	DUP	L906865-3						
Total Suspended Solids		5.0	5.0	J	mg/L	0.0	20	14-JUL-10
WG1133853-9	DUP	L906873-5						
Total Suspended Solids		8.0	8.0	J	mg/L	0.0	20	14-JUL-10
WG1133853-1	MB							
Total Suspended Solids			<5.0		mg/L		5	14-JUL-10
TURBIDITY-WP		Water						
Batch	R1345583							
WG1132119-4	CCV							
Turbidity			100		%		90-110	09-JUL-10
WG1132119-5	CCV							
Turbidity			102		%		90-110	09-JUL-10
WG1132119-2	CVS							
Turbidity			90		%		63-138	09-JUL-10
WG1132119-3	CVS							
Turbidity			91		%		63-138	09-JUL-10
WG1132119-7	DUP	L906568-12						
Turbidity		0.59	0.59					



Quality Control Report

Workorder: L906865

Report Date: 02-SEP-10

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TURBIDITY-WP								
	Water							
Batch	R1345583							
WG1132119-7	DUP	L906568-12						
Turbidity		0.59	0.59	J	NTU	0.00	0.4	09-JUL-10
WG1132119-8	DUP	L906568-13						
Turbidity		11.8	12.0		NTU	1.7	15	09-JUL-10
WG1132119-6	LCS							
Turbidity			92		%		85-115	09-JUL-10
WG1132119-1	MB							
Turbidity			<0.10		NTU		0.1	09-JUL-10

Quality Control Report

Workorder: L906865

Report Date: 02-SEP-10

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Legend:

Limit 99% Confidence Interval (Laboratory Control Limits)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L906865

Report Date: 02-SEP-10

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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
pH	1	08-JUL-10 11:08	12-JUL-10 11:47	0.25	97	hours	EHTR-FM
	2	08-JUL-10 10:46	12-JUL-10 11:47	0.25	97	hours	EHTR-FM
	3	08-JUL-10 10:14	12-JUL-10 11:47	0.25	97	hours	EHTR-FM

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L906865 were received on 09-JUL-10 15:30.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Environmental Division



Report to: **AECOM**
 Company: **AECOM**
 Contact: **JEFF SAMOYLOFF**
 Address: **99 COMMERCE DR WINNIPEG MB R5P 0Y7**
 Phone: **204 928 7427** Fax: **204 284 2040**
 Invoice To: Same as Report? Yes No
 Company: **JEFF SAMOYLOFF**
 Contact: **JEFF SAMOYLOFF**
 Address: **99 COMMERCE DR WINNIPEG MB R5P 0Y7**
 Phone: **204 928 7427** Fax: **204 284 2040**

Report Format / Distribution: Standard: PDF Excel Digital Other: _____
 Select: PDF Excel Digital Other: _____
 Email 1: **JEFF.SAMOYLOFF@AECOM.COM**
 Email 2: **JANINA.KARLANSOHN@AECOM.COM**
 Client / Project Information: **LEANNE.DOLCEBLANCHARD**
 Job #: **60157028**
 PO / AFE: _____
 Legal Site Description: _____

Quote #: **Q24534**
 ALS Contact: _____
 Sampler: _____

Sample #	Sample Identification (This description will appear on the report)	Date	Time	Sample Type	Analysis Request							Number of Containers
					Chlorophyll	BOD/COD	Toxic	ATLONUS	TOT. METALS+Hg	DS. METALS+Hg	Gen. Chem.	
LL-WQ1-60157028-20100708		8 JULIO	11:08	WATER	X	X	X	X	X	X	X	4
LL-WQ2-60157028-20100708		8 JULIO	10:46	WATER	X	X	X	X	X	X	X	7
LL-WQ3-60157028-20100708		8 JULIO	10:14	WATER	X	X	X	X	X	X	X	7

Special Collections / Regulations / Hazardous Details

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.
 By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

SHIPMENT RELEASE (client use)
 Released by: *[Signature]* Date & Time: **8 JULIO 22:15**

SHIPMENT VERIFICATION (lab use only)
 Received by: *[Signature]* Date: **1-7-10** Time: **3:30** Temperature: **7.3**
 Verified by: _____ Date & Time: _____
 Observations: Yes / No? _____
 If Yes attach SIF _____

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION
 WHITE - REPORT COPY, PINK - FILE COPY, YELLOW - CLIENT COPY
 GENF 18.00 Front



AECOM Canada Ltd. (Winnipeg)
ATTN: CLIFF SAMOILOFF
99 COMMERCE DRIVE
WINNIPEG MB R3P 0Y7
Phone: 204-928-7427

Date Received: 09-JUL-10
Report Date: 03-DEC-10 08:02 (MT)
Version: FINAL REV. 2

Certificate of Analysis

Lab Work Order #: L906868
Project P.O. #: NOT SUBMITTED
Job Reference: 60157028
Legal Site Desc:
C of C Numbers:

Comments:

02-NOV-10: Prelim
03-DEC-10: Amended report.

GARRETT RONCERAY
Biology Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721
MANITOBA TECHNOLOGY CENTRE LTD. Part of the ALS Group A Campbell Brothers Limited Company

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906868-1 TL-WQ1-60157028-20100708							
Sampled By: SK, LDB on 08-JUL-10 @ 12:56							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO ₃)	<1.0		1.0	mg/L		14-JUL-10	R1361168
Note: Initial pH above the endpoint, pH 8.3							
Ammonia (NH ₃) - Dissolved	<0.050		0.050	mg/L	09-JUL-10	23-JUL-10	R1399020
Bromide	<0.10		0.10	mg/L	13-JUL-10	13-JUL-10	R1355644
BOD Carbonaceous	1.7		1.0	mg/L	10-JUL-10	15-JUL-10	R1362203
Chloride (Cl) - Dissolved	10.4		9.0	mg/L	09-JUL-10	14-JUL-10	R1361286
Hardness (as CaCO ₃)	79.0		0.30	mg/L		14-JUL-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	15-JUL-10	15-JUL-10	R1388824
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	16-JUL-10	16-JUL-10	R1389507
Nitrate+Nitrite-N - Dissolved	<0.050		0.050	mg/L	09-JUL-10	23-JUL-10	R1399020
Phosphorus, Total	0.0163		0.0030	mg/L		13-JUL-10	R1356744
Silicate (as SiO ₂)	2.4		1.0	mg/L		15-JUL-10	R1371666
Sulphate (SO ₄) - Dissolved	<9.0		9.0	mg/L	09-JUL-10	14-JUL-10	R1361286
Total Dissolved Solids	122		5.0	mg/L		14-JUL-10	R1362564
Total Inorganic Carbon	4.7		1.0	mg/L		13-JUL-10	R1370423
Total Kjeldahl Nitrogen	0.97		0.20	mg/L	10-JUL-10	12-JUL-10	R1349903
Total Organic Carbon	21.4		1.0	mg/L		13-JUL-10	R1370423
Total Suspended Solids	<5.0		5.0	mg/L		14-JUL-10	R1362564
Color, True	70.0		5.0	T.C.U.		09-JUL-10	R1348083
Turbidity	1.30		0.10	NTU		09-JUL-10	R1345583
Hardness Calculated							
Hardness (as CaCO ₃)	69.1		0.20	mg/L		16-AUG-10	
Hardness (as CaCO ₃)	79.0		0.20	mg/L		16-JUL-10	
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0139		0.0050	mg/L	13-JUL-10	13-JUL-10	R1355923
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Arsenic (As)-Total	0.00342		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Barium (Ba)-Total	0.0120		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Boron (B)-Total	0.012		0.010	mg/L	13-JUL-10	13-JUL-10	R1355923
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	13-JUL-10	13-JUL-10	R1355923
Calcium (Ca)-Total	19.1		0.10	mg/L	13-JUL-10	13-JUL-10	R1355923
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	13-JUL-10	13-JUL-10	R1355923
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	13-JUL-10	13-JUL-10	R1355923
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Copper (Cu)-Total	0.00070		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Iron (Fe)-Total	0.158		0.020	mg/L	13-JUL-10	13-JUL-10	R1355923
Lead (Pb)-Total	<0.000090		0.000090	mg/L	13-JUL-10	13-JUL-10	R1355923
Lithium (Li)-Total	0.0040		0.0020	mg/L	13-JUL-10	13-JUL-10	R1355923
Magnesium (Mg)-Total	7.58		0.010	mg/L	13-JUL-10	13-JUL-10	R1355923
Manganese (Mn)-Total	0.0348		0.00030	mg/L	13-JUL-10	13-JUL-10	R1355923
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	13-JUL-10	13-JUL-10	R1355923
Phosphorus (P)-Total	<0.20		0.20	mg/L	13-JUL-10	13-JUL-10	R1355923
Potassium (K)-Total	1.64		0.020	mg/L	13-JUL-10	13-JUL-10	R1355923
Rubidium (Rb)-Total	0.00168		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Selenium (Se)-Total	<0.0010		0.0010	mg/L	13-JUL-10	13-JUL-10	R1355923
Silicon (Si)-Total	1.65		0.050	mg/L	13-JUL-10	13-JUL-10	R1355923
Silver (Ag)-Total	<0.00010		0.00010	mg/L	13-JUL-10	13-JUL-10	R1355923

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906868-1 TL-WQ1-60157028-20100708							
Sampled By: SK, LDB on 08-JUL-10 @ 12:56							
Matrix: WATER							
Total Metals by ICP-MS							
Sodium (Na)-Total	2.83		0.030	mg/L	13-JUL-10	13-JUL-10	R1355923
Strontium (Sr)-Total	0.0375		0.00010	mg/L	13-JUL-10	13-JUL-10	R1355923
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	13-JUL-10	13-JUL-10	R1355923
Thorium (Th)-Total	<0.00010		0.00010	mg/L	13-JUL-10	13-JUL-10	R1355923
Tin (Sn)-Total	<0.00020		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Titanium (Ti)-Total	0.00043		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Tungsten (W)-Total	<0.0010		0.0010	mg/L	13-JUL-10	13-JUL-10	R1355923
Uranium (U)-Total	<0.00010		0.00010	mg/L	13-JUL-10	13-JUL-10	R1355923
Vanadium (V)-Total	0.00032		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	13-JUL-10	13-JUL-10	R1355923
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	13-JUL-10	13-JUL-10	R1355923
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0041		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Arsenic (As)-Dissolved	0.00304		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Barium (Ba)-Dissolved	0.0106		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Boron (B)-Dissolved	<0.010		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	09-JUL-10	07-AUG-10	R1421107
Calcium (Ca)-Dissolved	16.3		0.050	mg/L	09-JUL-10	07-AUG-10	R1421107
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	13-AUG-10	R1439889
Iron (Fe)-Dissolved	0.027		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	09-JUL-10	07-AUG-10	R1421107
Lithium (Li)-Dissolved	0.0028		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Magnesium (Mg)-Dissolved	6.90		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107
Manganese (Mn)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Nickel (Ni)-Dissolved	0.00075		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	09-JUL-10	07-AUG-10	R1421107
Potassium (K)-Dissolved	1.42		0.020	mg/L	09-JUL-10	07-AUG-10	R1421107
Rubidium (Rb)-Dissolved	0.00148		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	09-JUL-10	07-AUG-10	R1421107
Silicon (Si)-Dissolved	1.39		0.050	mg/L	09-JUL-10	14-JUL-10	R1363763
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Sodium (Na)-Dissolved	2.50		0.020	mg/L	09-JUL-10	07-AUG-10	R1421107
Strontium (Sr)-Dissolved	0.0344		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Titanium (Ti)-Dissolved	0.00027		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	09-JUL-10	07-AUG-10	R1421107
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Vanadium (V)-Dissolved	0.00040		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	09-JUL-10	07-AUG-10	R1421107

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906868-1 TL-WQ1-60157028-20100708							
Sampled By: SK, LDB on 08-JUL-10 @ 12:56							
Matrix: WATER							
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	4.4		1.0	ug/L	09-JUL-10	13-JUL-10	R1353923
Phaeophytin a	1.4		1.0	ug/L	09-JUL-10	13-JUL-10	R1353923
ODb/ODa	1.5		1.0	ABS Ratio	09-JUL-10	13-JUL-10	R1353923
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	57.6		1.0	mg/L		12-JUL-10	R1350283
Bicarbonate (HCO3)	70.3		2.0	mg/L		12-JUL-10	R1350283
Carbonate (CO3)	<0.60		0.60	mg/L		12-JUL-10	R1350283
Hydroxide (OH)	<0.40		0.40	mg/L		12-JUL-10	R1350283
Conductivity							
Conductivity	145		0.40	umhos/cm		12-JUL-10	R1350283
pH							
pH	8.00		0.10	pH units		12-JUL-10	R1350283
L906868-2 TD-WQ1-60157028-20100708							
Sampled By: SK, LDB on 08-JUL-10 @ 12:56							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	1.4		1.0	mg/L		14-JUL-10	R1361168
Ammonia (NH3) - Dissolved	0.149		0.050	mg/L	09-JUL-10	23-JUL-10	R1399020
Bromide	<0.10		0.10	mg/L	13-JUL-10	13-JUL-10	R1355644
BOD Carbonaceous	1.7		1.0	mg/L	10-JUL-10	15-JUL-10	R1362203
Chloride (Cl) - Dissolved	<9.0		9.0	mg/L	09-JUL-10	14-JUL-10	R1361286
Hardness (as CaCO3)	139		0.30	mg/L		14-JUL-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	15-JUL-10	15-JUL-10	R1388824
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	16-JUL-10	16-JUL-10	R1389507
Nitrate+Nitrite-N - Dissolved	<0.050		0.050	mg/L	09-JUL-10	23-JUL-10	R1399020
Phosphorus, Total	0.0357		0.0030	mg/L		13-JUL-10	R1356744
Silicate (as SiO2)	6.6		5.0	mg/L		15-JUL-10	R1371666
Sulphate (SO4) - Dissolved	14.3		9.0	mg/L	09-JUL-10	14-JUL-10	R1361286
Total Dissolved Solids	204		5.0	mg/L		14-JUL-10	R1362564
Total Inorganic Carbon	2.3		1.0	mg/L		13-JUL-10	R1370423
Total Kjeldahl Nitrogen	1.43		0.20	mg/L	10-JUL-10	12-JUL-10	R1349903
Total Organic Carbon	34.9		1.0	mg/L		13-JUL-10	R1370423
Total Suspended Solids	6.0		5.0	mg/L		14-JUL-10	R1362564
Color, True	200		5.0	T.C.U.		09-JUL-10	R1348083
Turbidity	4.46		0.10	NTU		09-JUL-10	R1345583
Hardness Calculated							
Hardness (as CaCO3)	139		0.20	mg/L		16-JUL-10	
Hardness (as CaCO3)	115		0.20	mg/L		09-AUG-10	
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.395		0.0050	mg/L	13-JUL-10	13-JUL-10	R1355923
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Arsenic (As)-Total	0.00870		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Barium (Ba)-Total	0.0330		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Boron (B)-Total	0.080		0.010	mg/L	13-JUL-10	13-JUL-10	R1355923
Cadmium (Cd)-Total	0.000014		0.000010	mg/L	13-JUL-10	13-JUL-10	R1355923
Calcium (Ca)-Total	40.2		0.10	mg/L	13-JUL-10	13-JUL-10	R1355923

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906868-2 TD-WQ1-60157028-20100708							
Sampled By: SK, LDB on 08-JUL-10 @ 12:56							
Matrix: WATER							
Total Metals by ICP-MS							
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	13-JUL-10	13-JUL-10	R1355923
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	13-JUL-10	13-JUL-10	R1355923
Cobalt (Co)-Total	0.00026		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Copper (Cu)-Total	0.00112		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Iron (Fe)-Total	1.11		0.020	mg/L	13-JUL-10	13-JUL-10	R1355923
Lead (Pb)-Total	0.000283		0.000090	mg/L	13-JUL-10	13-JUL-10	R1355923
Lithium (Li)-Total	0.0057		0.0020	mg/L	13-JUL-10	13-JUL-10	R1355923
Magnesium (Mg)-Total	9.29		0.010	mg/L	13-JUL-10	13-JUL-10	R1355923
Manganese (Mn)-Total	0.122		0.00030	mg/L	13-JUL-10	13-JUL-10	R1355923
Molybdenum (Mo)-Total	0.00028		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	13-JUL-10	13-JUL-10	R1355923
Phosphorus (P)-Total	<0.20		0.20	mg/L	13-JUL-10	13-JUL-10	R1355923
Potassium (K)-Total	1.34		0.020	mg/L	13-JUL-10	13-JUL-10	R1355923
Rubidium (Rb)-Total	0.00195		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Selenium (Se)-Total	<0.0010		0.0010	mg/L	13-JUL-10	13-JUL-10	R1355923
Silicon (Si)-Total	3.88		0.050	mg/L	13-JUL-10	13-JUL-10	R1355923
Silver (Ag)-Total	<0.00010		0.00010	mg/L	13-JUL-10	13-JUL-10	R1355923
Sodium (Na)-Total	4.42		0.030	mg/L	13-JUL-10	13-JUL-10	R1355923
Strontium (Sr)-Total	0.0858		0.00010	mg/L	13-JUL-10	13-JUL-10	R1355923
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	13-JUL-10	13-JUL-10	R1355923
Thorium (Th)-Total	0.00012		0.00010	mg/L	13-JUL-10	13-JUL-10	R1355923
Tin (Sn)-Total	<0.00020		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Titanium (Ti)-Total	0.0170		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Tungsten (W)-Total	<0.0010		0.0010	mg/L	13-JUL-10	13-JUL-10	R1355923
Uranium (U)-Total	0.00015		0.00010	mg/L	13-JUL-10	13-JUL-10	R1355923
Vanadium (V)-Total	0.00134		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	13-JUL-10	13-JUL-10	R1355923
Zirconium (Zr)-Total	0.00051		0.00040	mg/L	13-JUL-10	13-JUL-10	R1355923
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0228		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Arsenic (As)-Dissolved	0.00609		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Barium (Ba)-Dissolved	0.0256		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Boron (B)-Dissolved	0.070		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	09-JUL-10	07-AUG-10	R1421107
Calcium (Ca)-Dissolved	32.0		0.050	mg/L	09-JUL-10	07-AUG-10	R1421107
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Copper (Cu)-Dissolved	0.00131		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Iron (Fe)-Dissolved	0.384		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107
Lead (Pb)-Dissolved	0.000104		0.000090	mg/L	09-JUL-10	07-AUG-10	R1421107
Lithium (Li)-Dissolved	0.0058		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Magnesium (Mg)-Dissolved	8.48		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107
Manganese (Mn)-Dissolved	0.00144		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Molybdenum (Mo)-Dissolved	0.00023		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Nickel (Ni)-Dissolved	0.00126		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	09-JUL-10	07-AUG-10	R1421107

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906868-2 TD-WQ1-60157028-20100708							
Sampled By: SK, LDB on 08-JUL-10 @ 12:56							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Potassium (K)-Dissolved	1.11		0.020	mg/L	09-JUL-10	07-AUG-10	R1421107
Rubidium (Rb)-Dissolved	0.00121		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	09-JUL-10	07-AUG-10	R1421107
Silicon (Si)-Dissolved	2.37		0.050	mg/L	09-JUL-10	14-JUL-10	R1363763
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Sodium (Na)-Dissolved	3.75		0.020	mg/L	09-JUL-10	07-AUG-10	R1421107
Strontium (Sr)-Dissolved	0.0775		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Titanium (Ti)-Dissolved	0.00106		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	09-JUL-10	07-AUG-10	R1421107
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Vanadium (V)-Dissolved	0.00085		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	09-JUL-10	07-AUG-10	R1421107
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	5.5		1.0	ug/L	09-JUL-10	13-JUL-10	R1353923
Phaeophytin a	4.0		1.0	ug/L	09-JUL-10	13-JUL-10	R1353923
ODb/ODa	1.4		1.0	ABS Ratio	09-JUL-10	13-JUL-10	R1353923
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	113		1.0	mg/L		12-JUL-10	R1350283
Bicarbonate (HCO3)	137		2.0	mg/L		12-JUL-10	R1350283
Carbonate (CO3)	<0.60		0.60	mg/L		12-JUL-10	R1350283
Hydroxide (OH)	<0.40		0.40	mg/L		12-JUL-10	R1350283
Conductivity							
Conductivity	227		0.40	umhos/cm		12-JUL-10	R1350283
pH							
pH	7.53		0.10	pH units		12-JUL-10	R1350283
L906868-3 TC-WQ1-60157028-20100708							
Sampled By: SK, LDB on 08-JUL-10 @ 12:56							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	2.2		1.0	mg/L		14-JUL-10	R1361168
Ammonia (NH3) - Dissolved	<0.050		0.050	mg/L	09-JUL-10	23-JUL-10	R1399020
Bromide	<0.10		0.10	mg/L	13-JUL-10	13-JUL-10	R1355644
BOD Carbonaceous	1.3		1.0	mg/L	10-JUL-10	15-JUL-10	R1362203
Chloride (Cl) - Dissolved	9.1		9.0	mg/L	09-JUL-10	14-JUL-10	R1361286
Hardness (as CaCO3)	82.8		0.30	mg/L		14-JUL-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	15-JUL-10	15-JUL-10	R1388824
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	16-JUL-10	16-JUL-10	R1389507
Nitrate+Nitrite-N - Dissolved	<0.050		0.050	mg/L	09-JUL-10	23-JUL-10	R1399020
Phosphorus, Total	0.0124		0.0030	mg/L		13-JUL-10	R1356744
Silicate (as SiO2)	7.1		1.0	mg/L		15-JUL-10	R1371666
Sulphate (SO4) - Dissolved	10.8		9.0	mg/L	09-JUL-10	14-JUL-10	R1361286
Total Dissolved Solids	140		5.0	mg/L		14-JUL-10	R1362564
Total Inorganic Carbon	9.3		1.0	mg/L		13-JUL-10	R1370423
Total Kjeldahl Nitrogen	0.96		0.20	mg/L	10-JUL-10	12-JUL-10	R1349903

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906868-3 TC-WQ1-60157028-20100708							
Sampled By: SK, LDB on 08-JUL-10 @ 12:56							
Matrix: WATER							
Total Organic Carbon	26.9		1.0	mg/L		13-JUL-10	R1370423
Total Suspended Solids	34.0		5.0	mg/L		14-JUL-10	R1362564
Color, True	150		5.0	T.C.U.		09-JUL-10	R1348083
Turbidity	4.91		0.10	NTU		09-JUL-10	R1345583
Hardness Calculated							
Hardness (as CaCO3)	82.8		0.20	mg/L		16-JUL-10	
Hardness (as CaCO3)	73.9		0.20	mg/L		13-AUG-10	
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.278		0.0050	mg/L	13-JUL-10	13-JUL-10	R1355923
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Arsenic (As)-Total	0.00111		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Barium (Ba)-Total	0.0154		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Boron (B)-Total	0.011		0.010	mg/L	13-JUL-10	13-JUL-10	R1355923
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	13-JUL-10	13-JUL-10	R1355923
Calcium (Ca)-Total	22.0		0.10	mg/L	13-JUL-10	13-JUL-10	R1355923
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	13-JUL-10	13-JUL-10	R1355923
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	13-JUL-10	13-JUL-10	R1355923
Cobalt (Co)-Total	0.00032		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Copper (Cu)-Total	0.00069		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Iron (Fe)-Total	1.57		0.020	mg/L	13-JUL-10	13-JUL-10	R1355923
Lead (Pb)-Total	0.000145		0.000090	mg/L	13-JUL-10	13-JUL-10	R1355923
Lithium (Li)-Total	0.0031		0.0020	mg/L	13-JUL-10	13-JUL-10	R1355923
Magnesium (Mg)-Total	6.75		0.010	mg/L	13-JUL-10	13-JUL-10	R1355923
Manganese (Mn)-Total	0.123		0.00030	mg/L	13-JUL-10	13-JUL-10	R1355923
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	13-JUL-10	13-JUL-10	R1355923
Phosphorus (P)-Total	<0.20		0.20	mg/L	13-JUL-10	13-JUL-10	R1355923
Potassium (K)-Total	0.839		0.020	mg/L	13-JUL-10	13-JUL-10	R1355923
Rubidium (Rb)-Total	0.00108		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Selenium (Se)-Total	<0.0010		0.0010	mg/L	13-JUL-10	13-JUL-10	R1355923
Silicon (Si)-Total	5.33		0.050	mg/L	13-JUL-10	13-JUL-10	R1355923
Silver (Ag)-Total	<0.00010		0.00010	mg/L	13-JUL-10	13-JUL-10	R1355923
Sodium (Na)-Total	4.64		0.030	mg/L	13-JUL-10	13-JUL-10	R1355923
Strontium (Sr)-Total	0.0446		0.00010	mg/L	13-JUL-10	13-JUL-10	R1355923
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	13-JUL-10	13-JUL-10	R1355923
Thorium (Th)-Total	<0.00010		0.00010	mg/L	13-JUL-10	13-JUL-10	R1355923
Tin (Sn)-Total	<0.00020		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Titanium (Ti)-Total	0.0129		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Tungsten (W)-Total	<0.0010		0.0010	mg/L	13-JUL-10	13-JUL-10	R1355923
Uranium (U)-Total	<0.00010		0.00010	mg/L	13-JUL-10	13-JUL-10	R1355923
Vanadium (V)-Total	0.00068		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	13-JUL-10	13-JUL-10	R1355923
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	13-JUL-10	13-JUL-10	R1355923
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0137		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Arsenic (As)-Dissolved	0.00087		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Barium (Ba)-Dissolved	0.0105		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906868-3 TC-WQ1-60157028-20100708							
Sampled By: SK, LDB on 08-JUL-10 @ 12:56							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Boron (B)-Dissolved	<0.010		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	09-JUL-10	07-AUG-10	R1421107
Calcium (Ca)-Dissolved	18.9		0.050	mg/L	09-JUL-10	07-AUG-10	R1421107
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Copper (Cu)-Dissolved	0.00035		0.00020	mg/L	09-JUL-10	12-AUG-10	R1438859
Iron (Fe)-Dissolved	0.480		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	09-JUL-10	07-AUG-10	R1421107
Lithium (Li)-Dissolved	0.0037		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Magnesium (Mg)-Dissolved	6.50		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107
Manganese (Mn)-Dissolved	0.00097		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Nickel (Ni)-Dissolved	0.00085		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	09-JUL-10	07-AUG-10	R1421107
Potassium (K)-Dissolved	0.744		0.020	mg/L	09-JUL-10	07-AUG-10	R1421107
Rubidium (Rb)-Dissolved	0.00057		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	09-JUL-10	07-AUG-10	R1421107
Silicon (Si)-Dissolved	2.94		0.050	mg/L	09-JUL-10	14-JUL-10	R1363763
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Sodium (Na)-Dissolved	4.26		0.020	mg/L	09-JUL-10	07-AUG-10	R1421107
Strontium (Sr)-Dissolved	0.0404		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Titanium (Ti)-Dissolved	0.00050		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	09-JUL-10	07-AUG-10	R1421107
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Vanadium (V)-Dissolved	0.00031		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	09-JUL-10	07-AUG-10	R1421107
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	3.6		1.0	ug/L	09-JUL-10	13-JUL-10	R1353923
Phaeophytin a	4.5		1.0	ug/L	09-JUL-10	13-JUL-10	R1353923
ODb/ODa	1.3		1.0	ABS Ratio	09-JUL-10	13-JUL-10	R1353923
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	71.4		1.0	mg/L		12-JUL-10	R1350283
Bicarbonate (HCO3)	87.2		2.0	mg/L		12-JUL-10	R1350283
Carbonate (CO3)	<0.60		0.60	mg/L		12-JUL-10	R1350283
Hydroxide (OH)	<0.40		0.40	mg/L		12-JUL-10	R1350283
Conductivity							
Conductivity	157		0.40	umhos/cm		12-JUL-10	R1350283
pH							
pH	7.17		0.10	pH units		12-JUL-10	R1350283
L906868-4 TL-PP1-60157028-20100708							
Sampled By: SK, LDB on 08-JUL-10 @ 12:56							
Matrix: WATER							
Miscellaneous Parameters							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906868-4 TL-PP1-60157028-20100708 Sampled By: SK, LDB on 08-JUL-10 @ 12:56 Matrix: WATER Phytoplankton Biovolumes	See Attached					27-OCT-10	R1518308
L906868-5 TDP-PP1-60157028-20100708 Sampled By: SK, LDB on 08-JUL-10 @ 12:56 Matrix: WATER Miscellaneous Parameters Phytoplankton Biovolumes	See Attached					27-OCT-10	R1518308
L906868-6 LL-PP2-60157028-20100708 Sampled By: SK, LDB on 08-JUL-10 @ 12:56 Matrix: WATER Miscellaneous Parameters Phytoplankton Biovolumes	See Attached					27-OCT-10	R1518308
L906868-7 TL-ZP1-60157028-20100708 Sampled By: SK, LDB on 08-JUL-10 @ 12:56 Matrix: WATER Miscellaneous Parameters Zooplankton Biovolumes	See attached.				01-DEC-10	01-DEC-10	R1679224
L906868-8 TDP-ZP1-60157028-20100708 Sampled By: SK, LDB on 08-JUL-10 @ 12:56 Matrix: WATER Miscellaneous Parameters Zooplankton Biovolumes	See attached.				01-DEC-10	01-DEC-10	R1679224
L906868-9 LL-ZP2-60157028-20100708 Sampled By: SK, LDB on 08-JUL-10 @ 12:56 Matrix: WATER Miscellaneous Parameters Zooplankton Biovolumes	See attached.				01-DEC-10	01-DEC-10	R1679224

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Total Kjeldahl Nitrogen	MS-B	L906868-1, -2, -3

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACIDITY-LOW-WP	Water	Acidity	APHA Method 2310B
ALK-TOT-WP	Water	Alkalinity	APHA 2320B

Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO₃⁻ and H₂CO₃ endpoints indicated electrometrically.

BR-WT	Water	Bromide	EPA 300.0 (IC)
C-TOT-INORG-WP	Water	Total Inorganic Carbon	APHA 5310 B-Instrumental

This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.

The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC.
TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.

C-TOT-ORG-WP	Water	Total Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
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This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.

The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC.
TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.

CHL/A,PHEO/A-ACET-WP	Water	Chlorophyll-a & Pheophytin-a	APHA 10200H, 1998-664/750NM
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Chlorophyll-a is filtered from the sample, then extracted with 90% (v/v) acetone. Absorbance is measured spectrophotometrically at 664 nm and 750 nm. The extract is then acidified, converting chlorophyll-a to pheophytin-a. Absorbance is determined again after acidification. The chlorophyll-a concentration is determined from the decrease in absorbance upon acidification. When a detection limit of 0.5 ug/L is required, the volume of sample filtered is doubled to 700mL.

Samples with an OD664 before/OD665 after acidification ratio (664b/665a) of 1.70 are considered to contain no pheophytin a and to be in excellent physiological condition. Solutions of pure pheophytin show no reduction in OD665 upon acidification and have a 664b/665a ratio of 1.0 Thus, mixtures of chlorophyll a and pheophytin a have absorption peak ratios ranging between 1.0 and 1.7. These ratios are based on the use of 90% acetone as solvent.

CL-DIS-WP	Water	Chloride Dissolved	APHA4500/LACHAT
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The thiocyanate ion is liberated from mercuric thiocyanate by the formation of soluble mercuric chloride. In the presence of ferric ion, the free thiocyanate forms a highly colored ferric thiocyanate complex. The intensity of the complex is proportional to the original chloride concentration and is measured by a colorimeter at 480 nm.

COL-TRU-WP	Water	True Colour	APHA, AWWA, WPCF
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Colour is measured by visual comparison against a routinely calibrated color disk. True color is the color of water from which turbidity has been removed by centrifugation.

CONSULT-BOD-CBOD-WP	Water	Carbonaceous BOD	APHA 5210 B-5 day Incub.-O ₂ electrode
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A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis.

EC-WP	Water	Conductivity	APHA 2510B
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Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ETL-HARDNESS-DIS-WP	Water	Hardness Calculated	Calculated
ETL-HARDNESS-TOT-WP	Water	Hardness Calculated	Calculated
HG-D-CVAF-WP	Water	Mercury Dissolved	EPA245.7 V2.0
Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.			
HG-T-CVAF-WP	Water	Mercury Total	EPA245.7 V2.0
Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.			
MET-D-L-MS-WP	Water	Dissolved Metals by ICP-MS	U.S. EPA 200.8-DL
Dissolved Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the Examination of Water and Wastewater method 3030B for filtration through a 0.45 um filter and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.			
MET-T-L-MS-WP	Water	Total Metals by ICP-MS	U.S. EPA 200.8-TL
Total Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the examination of Water and Wastewater Method 3030E and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.			
N-TOTKJ-WP	Water	Total Kjeldahl Nitrogen	Quickchem method 10-107-06-2-E Lachat
Samples are digested with a sulphuric acid solution, cooled, diluted with water, and analyzed for ammonia. Total Kjeldahl nitrogen is the sum of free-ammonia and organic nitrogen compounds which are converted to ammonium sulphate through this digestion process. Analysis is performed by Flow Injection Analysis (FIA). The pH of the digested sample is raised to a known, basic pH by neutralization with a concentrated buffer solution. This neutralization converts the ammonium cation to ammonia. The ammonia produced is heated with salicylate and hypochlorite to produce blue colour which is proportional to the ammonia concentration.			
N2N3-DIS-WP	Water	Nitrate + Nitrite Dissolved	APHA4500;2005/LACHAT;1997,1999
NH3-DIS-WP	Water	Ammonia Dissolved	LACHAT;2003
Ammonia - Colourimetric using Salicylate-nitroprusside and hypochlorite, in an alkaline phosphate buffer.			
P-TOTAL-WP	Water	Phosphorus, Total	APHA, 1998 P-T
Samples are digested using a sulphuric acid-persulfate mixture to convert organic phosphorous to orthophosphate. The samples are analyzed by either the Flow Injection Analysis (FIA) or the Segmented Flow Analysis (SFA) method. The absorbance measured by the instrument is proportional to the concentration of orthophosphate in the sample, and is reported as phosphorous.			
PH-WP	Water	pH	APHA 4500H
pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.			
PHYTO-BIO-WP	Water	Phytoplankton Biovolumes	Standard Methods 10200, 1998
This procedure is applicable to the identification and enumeration of microscopic organisms occurring within samples of fresh water. Samples are prepared using a sedimentation technique, and are then examined using a compound phase contrast inverted microscope. Both phytoplankton and zooplankton are identified to species where possible, enumerated and reported.			
SILICATE-COL-VA	Water	Silicate by Colourimetric analysis	APHA 4500-SIO2 D.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
<p>This analysis is carried out using procedures adapted from APHA Method 4500-SiO₂ D. "Silica". Silicate (molybdate-reactive silica) is determined by the molybdosilicate-heteropoly blue colourimetric method.</p>			
SO4-DIS-WP	Water	Sulphate Dissolved	APHA4500/LACHAT
<p>The sample reacts with barium chloride in an acidic medium and precipitates the sulphate ion SO₄²⁻, which forms barium sulphate crystals of uniform size. The turbidity produced by the sulphate suspension is measured by a colorimeter at 420 nm.</p>			
SOLIDS-TDS-WP	Water	Total Dissolved Solids	APHA 2540
<p>The residue remaining in a prepared casserole after passing the sample through a 1.2 um Whatman GF/C glass microfibre filter and drying at 180 degrees C. Samples may be dried at 105 degrees C if the client specifically requests this drying temperature.</p>			
SOLIDS-TOTSUS-WP	Water	Total Suspended Solids	APHA 2540
<p>The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C.</p>			
TURBIDITY-WP	Water	Turbidity	APHA, 1998, 2130B
<p>A strong light beam is sent through a transparent tube containing the sample. Light that is reflected at 90 degrees to the axis by suspended particles is detected by the photocell. The electrical response is proportional to the sample turbidity.</p>			

** 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
WP	ALS LABORATORY GROUP - WINNIPEG, MANITOBA, CANADA
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA
WT	ALS LABORATORY GROUP - WATERLOO, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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.



Quality Control Report

Workorder: L906868

Report Date: 03-DEC-10

Page 1 of 26

Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACIDITY-LOW-WP								
	Water							
Batch	R1361168							
WG1134412-1	CVS							
Acidity (as CaCO3)			106		%		85-115	14-JUL-10
WG1134412-2	DUP	L906318-3						
Acidity (as CaCO3)		<1.0	<1.0	RPD-NA	mg/L	N/A	20	14-JUL-10
WG1134412-3	DUP	L906861-2						
Acidity (as CaCO3)		<1.0	<1.0	RPD-NA	mg/L	N/A	20	14-JUL-10
ALK-TOT-WP								
	Water							
Batch	R1350283							
WG1132624-5	CVS							
Alkalinity, Total (as CaCO3)			103		%		85-115	12-JUL-10
WG1132624-6	DUP	L906898-2						
Alkalinity, Total (as CaCO3)		202	202		mg/L	0.0	20	12-JUL-10
Bicarbonate (HCO3)		246	246		mg/L	0.0	26	12-JUL-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	12-JUL-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	12-JUL-10
WG1132624-7	DUP	L907082-8						
Alkalinity, Total (as CaCO3)		111	111		mg/L	0.0	20	12-JUL-10
Bicarbonate (HCO3)		136	136		mg/L	0.0	26	12-JUL-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	12-JUL-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	12-JUL-10
BR-WT								
	Water							
Batch	R1355644							
WG1133139-3	LCS							
Bromide			97		%		75-125	13-JUL-10
WG1133139-4	LCSD	WG1133139-3						
Bromide		97	98		%	1.3	30	13-JUL-10
WG1133139-1	MB							
Bromide			<0.10		mg/L		0.1	13-JUL-10
C-TOT-INORG-WP								
	Water							
Batch	R1370423							
WG1135458-3	CCV							
Total Inorganic Carbon			103		%		80-120	12-JUL-10
WG1135458-2	CVS							
Total Inorganic Carbon			98		%		80-120	14-JUL-10
WG1135458-11	DUP	WG1135458-10						
Total Inorganic Carbon		10.2	10.5		mg/L	2.1	20	13-JUL-10
WG1135458-5	DUP	WG1135458-4						



Quality Control Report

Workorder: L906868

Report Date: 03-DEC-10

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
C-TOT-INORG-WP		Water						
Batch	R1370423							
WG1135458-5	DUP	WG1135458-4						
Total Inorganic Carbon		<1.0	<1.0	RPD-NA	mg/L	N/A	20	12-JUL-10
WG1135458-7	DUP	WG1135458-6						
Total Inorganic Carbon		1.2	1.4	J	mg/L	0.2	4	12-JUL-10
WG1135458-9	DUP	WG1135458-8						
Total Inorganic Carbon		12.1	12.3		mg/L	1.6	20	13-JUL-10
WG1135458-1	MB							
Total Inorganic Carbon			<1.0		mg/L		1	12-JUL-10
C-TOT-ORG-WP		Water						
Batch	R1370423							
WG1135458-3	CCV							
Total Organic Carbon			102		%		63-138	12-JUL-10
WG1135458-2	CVS							
Total Organic Carbon			101		%		80-120	14-JUL-10
WG1135458-11	DUP	WG1135458-10						
Total Organic Carbon		7.9	7.6	J	mg/L	0.2	4	13-JUL-10
WG1135458-5	DUP	WG1135458-4						
Total Organic Carbon		73.9	73.9		mg/L	0.075	20	12-JUL-10
WG1135458-7	DUP	WG1135458-6						
Total Organic Carbon		10.4	10.2		mg/L	2.1	20	12-JUL-10
WG1135458-9	DUP	WG1135458-8						
Total Organic Carbon		19.2	19.0		mg/L	1.2	20	13-JUL-10
WG1135458-1	MB							
Total Organic Carbon			<1.0		mg/L		1	12-JUL-10
CHL/A,PHEO/A-ACET-WP		Water						
Batch	R1353923							
WG1133036-1	CVS							
Chlorophyll a			102		%		65-135	13-JUL-10
WG1133036-2	CVS							
Chlorophyll a			106		%		65-135	13-JUL-10
CL-DIS-WP		Water						
Batch	R1361286							
WG1134431-3	CCV							
Chloride (Cl) - Dissolved			99		%		85-115	14-JUL-10
WG1134431-2	CVS							
Chloride (Cl) - Dissolved			96		%		85-115	14-JUL-10
WG1134426-2	DUP	L906898-2						



Quality Control Report

Workorder: L906868

Report Date: 03-DEC-10

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-DIS-WP								
	Water							
Batch	R1361286							
WG1134426-2	DUP	L906898-2						
Chloride (Cl) - Dissolved		40.9	41.6	J	mg/L	0.7	36	14-JUL-10
WG1134426-1	MB							
Chloride (Cl) - Dissolved			<9.0		mg/L		9	14-JUL-10
COL-TRU-WP								
	Water							
Batch	R1348083							
WG1132651-3	DUP	L906727-2						
Color, True		<5.0	<5.0	RPD-NA	T.C.U.	N/A	20	09-JUL-10
WG1132651-1	MB							
Color, True			<5.0		T.C.U.		5	09-JUL-10
CONSULT-BOD-CBOD-WP								
	Water							
Batch	R1362203							
WG1132174-3	DUP	L906861-1						
BOD Carbonaceous		<1.0	<1.0	RPD-NA	mg/L	N/A	20	15-JUL-10
WG1132174-2	IRM	61-GG						
BOD Carbonaceous			98		%		85-115	15-JUL-10
WG1132174-1	MB							
BOD Carbonaceous			<1.0		mg/L		1	15-JUL-10
EC-WP								
	Water							
Batch	R1350283							
WG1132624-2	CCV							
Conductivity			103		%		95-105	12-JUL-10
WG1132624-1	CVS							
Conductivity			99		%		90-110	12-JUL-10
WG1132624-6	DUP	L906898-2						
Conductivity		781	781		umhos/cm	0.0077	10	12-JUL-10
WG1132624-7	DUP	L907082-8						
Conductivity		212	212		umhos/cm	0.0	10	12-JUL-10
HG-D-CVAF-WP								
	Water							
Batch	R1388824							
WG1137638-2	DUP	L907120-4						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	15-JUL-10
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	15-JUL-10
WG1137641-2	LCS							
Mercury (Hg)-Dissolved			95		%		63-138	15-JUL-10
Mercury (Hg)-Dissolved			95		%		63-138	15-JUL-10
WG1137638-1	MB							



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-D-CVAF-WP								
	Water							
Batch	R1388824							
WG1137638-1 MB								
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	15-JUL-10
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	15-JUL-10
WG1137641-1 MB								
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	15-JUL-10
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	15-JUL-10
WG1137638-3 MS		L907120-4						
Mercury (Hg)-Dissolved			99		%		70-130	15-JUL-10
Mercury (Hg)-Dissolved			99		%		70-130	15-JUL-10
HG-T-CVAF-WP								
	Water							
Batch	R1389507							
WG1137745-3 DUP		L906568-1						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	16-JUL-10
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	16-JUL-10
WG1137745-2 LCS								
Mercury (Hg)-Total			101		%		63-138	16-JUL-10
Mercury (Hg)-Total			101		%		63-138	16-JUL-10
WG1137745-1 MB								
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	16-JUL-10
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	16-JUL-10
WG1137745-4 MS		L906568-1						
Mercury (Hg)-Total			102		%		70-130	16-JUL-10
Mercury (Hg)-Total			102		%		70-130	16-JUL-10
MET-D-L-MS-WP								
	Water							
Batch	R1363763							
WG1134744-3 CCV								
Silicon (Si)-Dissolved			103		%		90-110	14-JUL-10
WG1134744-1 CVS								
Silicon (Si)-Dissolved			100		%		63-138	14-JUL-10
WG1134744-2 CVS								
Silicon (Si)-Dissolved			100		%		63-138	14-JUL-10
Batch	R1421107							
WG1146960-3 CCV								
Aluminum (Al)-Dissolved			97		%		90-110	06-AUG-10
Antimony (Sb)-Dissolved			98		%		90-110	06-AUG-10
Arsenic (As)-Dissolved			97		%		90-110	06-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
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 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP	Water							
Batch	R1421107							
WG1146960-3	CCV							
Barium (Ba)-Dissolved			98		%		90-110	06-AUG-10
Beryllium (Be)-Dissolved			103		%		90-110	06-AUG-10
Bismuth (Bi)-Dissolved			97		%		90-110	06-AUG-10
Boron (B)-Dissolved			97		%		90-110	06-AUG-10
Cadmium (Cd)-Dissolved			99		%		90-110	06-AUG-10
Calcium (Ca)-Dissolved			104		%		90-110	06-AUG-10
Cesium (Cs)-Dissolved			95		%		90-110	06-AUG-10
Chromium (Cr)-Dissolved			102		%		90-110	06-AUG-10
Cobalt (Co)-Dissolved			101		%		90-110	06-AUG-10
Copper (Cu)-Dissolved			102		%		90-110	06-AUG-10
Iron (Fe)-Dissolved			102		%		90-110	06-AUG-10
Lead (Pb)-Dissolved			100		%		90-110	06-AUG-10
Lithium (Li)-Dissolved			107		%		90-110	06-AUG-10
Magnesium (Mg)-Dissolved			99		%		90-110	06-AUG-10
Manganese (Mn)-Dissolved			101		%		90-110	06-AUG-10
Molybdenum (Mo)-Dissolved			96		%		90-110	06-AUG-10
Nickel (Ni)-Dissolved			100		%		90-110	06-AUG-10
Phosphorus (P)-Dissolved			100		%		90-110	06-AUG-10
Potassium (K)-Dissolved			100		%		90-110	06-AUG-10
Rubidium (Rb)-Dissolved			100		%		90-110	06-AUG-10
Selenium (Se)-Dissolved			97		%		90-110	06-AUG-10
Silver (Ag)-Dissolved			97		%		90-110	06-AUG-10
Sodium (Na)-Dissolved			101		%		90-110	06-AUG-10
Strontium (Sr)-Dissolved			100		%		90-110	06-AUG-10
Tellurium (Te)-Dissolved			101		%		90-110	06-AUG-10
Thallium (Tl)-Dissolved			98		%		90-110	06-AUG-10
Thorium (Th)-Dissolved			92		%		63-138	06-AUG-10
Tin (Sn)-Dissolved			96		%		90-110	06-AUG-10
Titanium (Ti)-Dissolved			96		%		90-110	06-AUG-10
Tungsten (W)-Dissolved			99		%		90-110	06-AUG-10
Uranium (U)-Dissolved			95		%		90-110	06-AUG-10
Vanadium (V)-Dissolved			98		%		90-110	06-AUG-10
Zinc (Zn)-Dissolved			100		%		90-110	06-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
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 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP	Water							
Batch	R1421107							
WG1146960-3	CCV							
Zirconium (Zr)-Dissolved			95		%		90-110	06-AUG-10
WG1146960-1	CVS							
Aluminum (Al)-Dissolved			96		%		80-120	06-AUG-10
Antimony (Sb)-Dissolved			102		%		80-120	06-AUG-10
Arsenic (As)-Dissolved			98		%		80-120	06-AUG-10
Barium (Ba)-Dissolved			105		%		80-120	06-AUG-10
Beryllium (Be)-Dissolved			98		%		80-120	06-AUG-10
Bismuth (Bi)-Dissolved			103		%		80-120	06-AUG-10
Boron (B)-Dissolved			101		%		80-120	06-AUG-10
Cadmium (Cd)-Dissolved			98		%		80-120	06-AUG-10
Calcium (Ca)-Dissolved			101		%		80-120	06-AUG-10
Cesium (Cs)-Dissolved			98		%		80-120	06-AUG-10
Chromium (Cr)-Dissolved			98		%		80-120	06-AUG-10
Cobalt (Co)-Dissolved			100		%		80-120	06-AUG-10
Copper (Cu)-Dissolved			101		%		80-120	06-AUG-10
Iron (Fe)-Dissolved			99		%		80-120	06-AUG-10
Lead (Pb)-Dissolved			103		%		80-120	06-AUG-10
Lithium (Li)-Dissolved			97		%		80-120	06-AUG-10
Magnesium (Mg)-Dissolved			103		%		80-120	06-AUG-10
Manganese (Mn)-Dissolved			97		%		80-120	06-AUG-10
Molybdenum (Mo)-Dissolved			95		%		80-120	06-AUG-10
Nickel (Ni)-Dissolved			102		%		80-120	06-AUG-10
Phosphorus (P)-Dissolved			98		%		80-120	06-AUG-10
Potassium (K)-Dissolved			105		%		80-120	06-AUG-10
Rubidium (Rb)-Dissolved			96		%		80-120	06-AUG-10
Selenium (Se)-Dissolved			99		%		80-120	06-AUG-10
Silver (Ag)-Dissolved			95		%		63-138	06-AUG-10
Sodium (Na)-Dissolved			103		%		80-120	06-AUG-10
Strontium (Sr)-Dissolved			96		%		80-120	06-AUG-10
Tellurium (Te)-Dissolved			100		%		80-120	06-AUG-10
Thallium (Tl)-Dissolved			100		%		80-120	06-AUG-10
Thorium (Th)-Dissolved			100		%		63-138	06-AUG-10
Tin (Sn)-Dissolved			92		%		80-120	06-AUG-10
Titanium (Ti)-Dissolved			93		%		80-120	06-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1421107							
WG1146960-1 CVS								
Tungsten (W)-Dissolved			100		%		80-120	06-AUG-10
Uranium (U)-Dissolved			99		%		80-120	06-AUG-10
Vanadium (V)-Dissolved			97		%		80-120	06-AUG-10
Zinc (Zn)-Dissolved			99		%		80-120	06-AUG-10
Zirconium (Zr)-Dissolved			93		%		80-120	06-AUG-10
WG1146960-2 CVS								
Aluminum (Al)-Dissolved			106		%		80-120	06-AUG-10
Antimony (Sb)-Dissolved			104		%		80-120	06-AUG-10
Arsenic (As)-Dissolved			99		%		80-120	06-AUG-10
Barium (Ba)-Dissolved			101		%		80-120	06-AUG-10
Beryllium (Be)-Dissolved			101		%		80-120	06-AUG-10
Bismuth (Bi)-Dissolved			103		%		80-120	06-AUG-10
Boron (B)-Dissolved			100		%		80-120	06-AUG-10
Cadmium (Cd)-Dissolved			103		%		80-120	06-AUG-10
Calcium (Ca)-Dissolved			101		%		80-120	06-AUG-10
Cesium (Cs)-Dissolved			101		%		80-120	06-AUG-10
Chromium (Cr)-Dissolved			100		%		80-120	06-AUG-10
Cobalt (Co)-Dissolved			105		%		80-120	06-AUG-10
Copper (Cu)-Dissolved			104		%		80-120	06-AUG-10
Iron (Fe)-Dissolved			103		%		80-120	06-AUG-10
Lead (Pb)-Dissolved			104		%		80-120	06-AUG-10
Lithium (Li)-Dissolved			95		%		80-120	06-AUG-10
Magnesium (Mg)-Dissolved			97		%		80-120	06-AUG-10
Manganese (Mn)-Dissolved			100		%		80-120	06-AUG-10
Molybdenum (Mo)-Dissolved			101		%		80-120	06-AUG-10
Nickel (Ni)-Dissolved			100		%		80-120	06-AUG-10
Phosphorus (P)-Dissolved			99		%		80-120	06-AUG-10
Potassium (K)-Dissolved			101		%		80-120	06-AUG-10
Rubidium (Rb)-Dissolved			109		%		80-120	06-AUG-10
Selenium (Se)-Dissolved			97		%		80-120	06-AUG-10
Silver (Ag)-Dissolved			100		%		63-138	06-AUG-10
Sodium (Na)-Dissolved			98		%		80-120	06-AUG-10
Strontium (Sr)-Dissolved			104		%		80-120	06-AUG-10
Tellurium (Te)-Dissolved			98		%		80-120	06-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP								
	Water							
Batch	R1421107							
WG1146960-2	CVS							
Thallium (Tl)-Dissolved			103		%		80-120	06-AUG-10
Thorium (Th)-Dissolved			103		%		63-138	06-AUG-10
Tin (Sn)-Dissolved			99		%		80-120	06-AUG-10
Titanium (Ti)-Dissolved			94		%		80-120	06-AUG-10
Tungsten (W)-Dissolved			103		%		80-120	06-AUG-10
Uranium (U)-Dissolved			103		%		80-120	06-AUG-10
Vanadium (V)-Dissolved			102		%		80-120	06-AUG-10
Zinc (Zn)-Dissolved			100		%		80-120	06-AUG-10
Zirconium (Zr)-Dissolved			102		%		80-120	06-AUG-10
WG1146953-3	DUP	WG1146953-2						
Aluminum (Al)-Dissolved		0.0031	0.0029	J	mg/L	0.0001	0.008	07-AUG-10
Antimony (Sb)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Arsenic (As)-Dissolved		0.00110	0.00107	J	mg/L	0.00003	0.0008	07-AUG-10
Barium (Ba)-Dissolved		0.0150	0.0152		mg/L	1.5	20	07-AUG-10
Beryllium (Be)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Bismuth (Bi)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Boron (B)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	07-AUG-10
Cadmium (Cd)-Dissolved		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	07-AUG-10
Calcium (Ca)-Dissolved		16.6	16.2		mg/L	2.3	20	07-AUG-10
Cesium (Cs)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	07-AUG-10
Chromium (Cr)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Cobalt (Co)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Copper (Cu)-Dissolved		0.00210	0.00207		mg/L	1.2	20	07-AUG-10
Iron (Fe)-Dissolved		0.065	0.063	J	mg/L	0.002	0.04	07-AUG-10
Lead (Pb)-Dissolved		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	07-AUG-10
Lithium (Li)-Dissolved		0.0047	0.0041	J	mg/L	0.0007	0.008	07-AUG-10
Magnesium (Mg)-Dissolved		5.50	5.34		mg/L	3.1	20	07-AUG-10
Manganese (Mn)-Dissolved		0.00047	0.00046	J	mg/L	0.00001	0.0008	07-AUG-10
Molybdenum (Mo)-Dissolved		0.00017	0.00017	J	mg/L	0.00000	0.0004	07-AUG-10
Nickel (Ni)-Dissolved		0.00069	0.00057	J	mg/L	0.00012	0.0008	07-AUG-10
Phosphorus (P)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	20	07-AUG-10
Potassium (K)-Dissolved		2.18	2.07		mg/L	5.5	20	07-AUG-10
Rubidium (Rb)-Dissolved		0.00193	0.00196	J	mg/L	0.00003	0.0008	07-AUG-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1421107							
WG1146953-3	DUP	WG1146953-2						
Selenium (Se)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	07-AUG-10
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	07-AUG-10
Sodium (Na)-Dissolved		4.52	4.44		mg/L	1.7	20	07-AUG-10
Strontium (Sr)-Dissolved		0.0362	0.0365		mg/L	1.0	20	07-AUG-10
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	07-AUG-10
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	07-AUG-10
Tin (Sn)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Titanium (Ti)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Tungsten (W)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	07-AUG-10
Uranium (U)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	07-AUG-10
Vanadium (V)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Zinc (Zn)-Dissolved		0.0091	0.0088	J	mg/L	0.0004	0.008	07-AUG-10
Zirconium (Zr)-Dissolved		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	07-AUG-10
WG1146953-4	LCS							
Aluminum (Al)-Dissolved			94		%		80-120	07-AUG-10
Antimony (Sb)-Dissolved			100		%		80-120	07-AUG-10
Arsenic (As)-Dissolved			99		%		80-120	07-AUG-10
Barium (Ba)-Dissolved			102		%		80-120	07-AUG-10
Beryllium (Be)-Dissolved			103		%		80-120	07-AUG-10
Bismuth (Bi)-Dissolved			101		%		80-120	07-AUG-10
Boron (B)-Dissolved			103		%		80-120	07-AUG-10
Cadmium (Cd)-Dissolved			96		%		80-120	07-AUG-10
Calcium (Ca)-Dissolved			95		%		80-120	07-AUG-10
Cesium (Cs)-Dissolved			100		%		80-120	07-AUG-10
Chromium (Cr)-Dissolved			101		%		80-120	07-AUG-10
Cobalt (Co)-Dissolved			102		%		80-120	07-AUG-10
Copper (Cu)-Dissolved			100		%		80-120	07-AUG-10
Iron (Fe)-Dissolved			111		%		80-120	07-AUG-10
Lead (Pb)-Dissolved			97		%		80-120	07-AUG-10
Lithium (Li)-Dissolved			98		%		80-120	07-AUG-10
Magnesium (Mg)-Dissolved			102		%		80-120	07-AUG-10
Manganese (Mn)-Dissolved			99		%		80-120	07-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1421107							
WG1146953-4	LCS							
Molybdenum (Mo)-Dissolved			100		%		80-120	07-AUG-10
Nickel (Ni)-Dissolved			98		%		80-120	07-AUG-10
Phosphorus (P)-Dissolved			106		%		80-120	07-AUG-10
Potassium (K)-Dissolved			104		%		80-120	07-AUG-10
Rubidium (Rb)-Dissolved			97		%		80-120	07-AUG-10
Selenium (Se)-Dissolved			100		%		80-120	07-AUG-10
Silver (Ag)-Dissolved			96		%		80-120	07-AUG-10
Sodium (Na)-Dissolved			102		%		80-120	07-AUG-10
Strontium (Sr)-Dissolved			96		%		80-120	07-AUG-10
Tellurium (Te)-Dissolved			99		%		80-120	07-AUG-10
Thallium (Tl)-Dissolved			104		%		80-120	07-AUG-10
Thorium (Th)-Dissolved			93		%		80-120	07-AUG-10
Tin (Sn)-Dissolved			98		%		80-120	07-AUG-10
Titanium (Ti)-Dissolved			99		%		80-120	07-AUG-10
Tungsten (W)-Dissolved			99		%		80-120	07-AUG-10
Uranium (U)-Dissolved			93		%		80-120	07-AUG-10
Vanadium (V)-Dissolved			102		%		80-120	07-AUG-10
Zinc (Zn)-Dissolved			101		%		80-120	07-AUG-10
Zirconium (Zr)-Dissolved			98		%		80-120	07-AUG-10
WG1146953-1	MB							
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.002	07-AUG-10
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Arsenic (As)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Boron (B)-Dissolved			<0.010		mg/L		0.01	07-AUG-10
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.00001	07-AUG-10
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	07-AUG-10
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Chromium (Cr)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	07-AUG-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP								
	Water							
Batch	R1421107							
WG1146953-1	MB							
Lead (Pb)-Dissolved			<0.000090		mg/L		0.00009	07-AUG-10
Lithium (Li)-Dissolved			<0.0020		mg/L		0.002	07-AUG-10
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.01	07-AUG-10
Manganese (Mn)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Nickel (Ni)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Phosphorus (P)-Dissolved			<0.10		mg/L		0.1	07-AUG-10
Potassium (K)-Dissolved			<0.020		mg/L		0.02	07-AUG-10
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Selenium (Se)-Dissolved			<0.0010		mg/L		0.001	07-AUG-10
Silver (Ag)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Sodium (Na)-Dissolved			<0.020		mg/L		0.02	07-AUG-10
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Tin (Sn)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Titanium (Ti)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Tungsten (W)-Dissolved			<0.0010		mg/L		0.001	07-AUG-10
Uranium (U)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Vanadium (V)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Zinc (Zn)-Dissolved			<0.0020		mg/L		0.002	07-AUG-10
Zirconium (Zr)-Dissolved			<0.00040		mg/L		0.0004	07-AUG-10
Batch	R1438859							
WG1149656-3	CCV							
Copper (Cu)-Dissolved			105		%		90-110	12-AUG-10
WG1149656-1	CVS							
Copper (Cu)-Dissolved			106		%		80-120	12-AUG-10
WG1149656-2	CVS							
Copper (Cu)-Dissolved			99		%		80-120	12-AUG-10
Batch	R1439889							
WG1150660-4	CCV							
Copper (Cu)-Dissolved			101		%		90-110	13-AUG-10
WG1150660-2	CVS							



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1439889							
WG1150660-2	CVS							
Copper (Cu)-Dissolved			103		%		80-120	13-AUG-10
WG1150660-3	CVS							
Copper (Cu)-Dissolved			99		%		80-120	13-AUG-10
MET-T-L-MS-WP		Water						
Batch	R1355923							
WG1133808-3	CCV							
Aluminum (Al)-Total			97		%		90-110	13-JUL-10
Antimony (Sb)-Total			100		%		90-110	13-JUL-10
Arsenic (As)-Total			100		%		90-110	13-JUL-10
Barium (Ba)-Total			100		%		90-110	13-JUL-10
Beryllium (Be)-Total			107		%		90-110	13-JUL-10
Bismuth (Bi)-Total			101		%		90-110	13-JUL-10
Boron (B)-Total			102		%		90-110	13-JUL-10
Cadmium (Cd)-Total			100		%		90-110	13-JUL-10
Calcium (Ca)-Total			103		%		90-110	13-JUL-10
Cesium (Cs)-Total			98		%		90-110	13-JUL-10
Chromium (Cr)-Total			101		%		90-110	13-JUL-10
Cobalt (Co)-Total			97		%		90-110	13-JUL-10
Copper (Cu)-Total			101		%		90-110	13-JUL-10
Iron (Fe)-Total			98		%		90-110	13-JUL-10
Lead (Pb)-Total			102		%		90-110	13-JUL-10
Lithium (Li)-Total			106		%		90-110	13-JUL-10
Magnesium (Mg)-Total			97		%		90-110	13-JUL-10
Manganese (Mn)-Total			93		%		90-110	13-JUL-10
Molybdenum (Mo)-Total			98		%		90-110	13-JUL-10
Nickel (Ni)-Total			97		%		90-110	13-JUL-10
Phosphorus (P)-Total			101		%		90-110	13-JUL-10
Potassium (K)-Total			100		%		90-110	13-JUL-10
Rubidium (Rb)-Total			97		%		90-110	13-JUL-10
Selenium (Se)-Total			100		%		90-110	13-JUL-10
Silicon (Si)-Total			97		%		90-110	13-JUL-10
Silver (Ag)-Total			98		%		90-110	13-JUL-10
Sodium (Na)-Total			96		%		90-110	13-JUL-10
Strontium (Sr)-Total			96		%		90-110	13-JUL-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1355923							
WG1133808-3 CCV								
Tellurium (Te)-Total			98		%		90-110	13-JUL-10
Thallium (Tl)-Total			99		%		90-110	13-JUL-10
Thorium (Th)-Total			100		%		63-138	13-JUL-10
Tin (Sn)-Total			98		%		90-110	13-JUL-10
Titanium (Ti)-Total			102		%		90-110	13-JUL-10
Tungsten (W)-Total			100		%		90-110	13-JUL-10
Uranium (U)-Total			99		%		90-110	13-JUL-10
Vanadium (V)-Total			96		%		90-110	13-JUL-10
Zinc (Zn)-Total			99		%		90-110	13-JUL-10
Zirconium (Zr)-Total			97		%		90-110	13-JUL-10
WG1133808-1 CVS								
Aluminum (Al)-Total			98		%		63-138	13-JUL-10
Antimony (Sb)-Total			101		%		63-138	13-JUL-10
Arsenic (As)-Total			98		%		63-138	13-JUL-10
Barium (Ba)-Total			100		%		63-138	13-JUL-10
Beryllium (Be)-Total			96		%		63-138	13-JUL-10
Bismuth (Bi)-Total			99		%		63-138	13-JUL-10
Boron (B)-Total			99		%		63-138	13-JUL-10
Cadmium (Cd)-Total			96		%		63-138	13-JUL-10
Calcium (Ca)-Total			101		%		63-138	13-JUL-10
Cesium (Cs)-Total			97		%		63-138	13-JUL-10
Chromium (Cr)-Total			96		%		63-138	13-JUL-10
Cobalt (Co)-Total			93		%		63-138	13-JUL-10
Copper (Cu)-Total			101		%		63-138	13-JUL-10
Iron (Fe)-Total			95		%		63-138	13-JUL-10
Lead (Pb)-Total			100		%		63-138	13-JUL-10
Lithium (Li)-Total			94		%		63-138	13-JUL-10
Magnesium (Mg)-Total			102		%		63-138	13-JUL-10
Manganese (Mn)-Total			97		%		63-138	13-JUL-10
Molybdenum (Mo)-Total			98		%		63-138	13-JUL-10
Nickel (Ni)-Total			97		%		63-138	13-JUL-10
Phosphorus (P)-Total			97		%		63-138	13-JUL-10
Potassium (K)-Total			99		%		63-138	13-JUL-10
Rubidium (Rb)-Total			92		%		63-138	13-JUL-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1355923							
WG1133808-1 CVS								
Selenium (Se)-Total			99		%		63-138	13-JUL-10
Silicon (Si)-Total			100		%		63-138	13-JUL-10
Silver (Ag)-Total			97		%		63-138	13-JUL-10
Sodium (Na)-Total			97		%		63-138	13-JUL-10
Strontium (Sr)-Total			94		%		63-138	13-JUL-10
Tellurium (Te)-Total			102		%		63-138	13-JUL-10
Thallium (Tl)-Total			98		%		63-138	13-JUL-10
Thorium (Th)-Total			98		%		63-138	13-JUL-10
Tin (Sn)-Total			96		%		63-138	13-JUL-10
Titanium (Ti)-Total			96		%		63-138	13-JUL-10
Tungsten (W)-Total			99		%		63-138	13-JUL-10
Uranium (U)-Total			99		%		63-138	13-JUL-10
Vanadium (V)-Total			93		%		63-138	13-JUL-10
Zinc (Zn)-Total			98		%		63-138	13-JUL-10
Zirconium (Zr)-Total			95		%		63-138	13-JUL-10
WG1133808-2 CVS								
Aluminum (Al)-Total			104		%		63-138	13-JUL-10
Antimony (Sb)-Total			102		%		63-138	13-JUL-10
Arsenic (As)-Total			102		%		63-138	13-JUL-10
Barium (Ba)-Total			102		%		63-138	13-JUL-10
Beryllium (Be)-Total			96		%		63-138	13-JUL-10
Bismuth (Bi)-Total			101		%		63-138	13-JUL-10
Boron (B)-Total			104		%		63-138	13-JUL-10
Cadmium (Cd)-Total			101		%		63-138	13-JUL-10
Calcium (Ca)-Total			103		%		63-138	13-JUL-10
Cesium (Cs)-Total			100		%		63-138	13-JUL-10
Chromium (Cr)-Total			107		%		63-138	13-JUL-10
Cobalt (Co)-Total			102		%		63-138	13-JUL-10
Copper (Cu)-Total			102		%		63-138	13-JUL-10
Iron (Fe)-Total			101		%		63-138	13-JUL-10
Lead (Pb)-Total			102		%		63-138	13-JUL-10
Lithium (Li)-Total			100		%		63-138	13-JUL-10
Magnesium (Mg)-Total			99		%		63-138	13-JUL-10
Manganese (Mn)-Total			105		%		63-138	13-JUL-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1355923							
WG1133808-2	CVS							
Molybdenum (Mo)-Total			103		%		63-138	13-JUL-10
Nickel (Ni)-Total			100		%		63-138	13-JUL-10
Phosphorus (P)-Total			100		%		63-138	13-JUL-10
Potassium (K)-Total			101		%		63-138	13-JUL-10
Rubidium (Rb)-Total			100		%		63-138	13-JUL-10
Selenium (Se)-Total			100		%		63-138	13-JUL-10
Silicon (Si)-Total			106		%		63-138	13-JUL-10
Silver (Ag)-Total			99		%		63-138	13-JUL-10
Sodium (Na)-Total			103		%		63-138	13-JUL-10
Strontium (Sr)-Total			100		%		63-138	13-JUL-10
Tellurium (Te)-Total			99		%		63-138	13-JUL-10
Thallium (Tl)-Total			100		%		63-138	13-JUL-10
Thorium (Th)-Total			99		%		63-138	13-JUL-10
Tin (Sn)-Total			101		%		63-138	13-JUL-10
Titanium (Ti)-Total			100		%		63-138	13-JUL-10
Tungsten (W)-Total			103		%		63-138	13-JUL-10
Uranium (U)-Total			102		%		63-138	13-JUL-10
Vanadium (V)-Total			104		%		63-138	13-JUL-10
Zinc (Zn)-Total			100		%		63-138	13-JUL-10
Zirconium (Zr)-Total			103		%		63-138	13-JUL-10
WG1133066-4	DUP	WG1133066-3						
Aluminum (Al)-Total		0.0099	0.0104	J	mg/L	0.0005	0.02	13-JUL-10
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	13-JUL-10
Arsenic (As)-Total		0.00119	0.00117	J	mg/L	0.00002	0.0008	13-JUL-10
Barium (Ba)-Total		0.0171	0.0164		mg/L	4.2	20	13-JUL-10
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	13-JUL-10
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	13-JUL-10
Boron (B)-Total		0.010	0.010	J	mg/L	0.000	0.04	13-JUL-10
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	13-JUL-10
Calcium (Ca)-Total		19.3	19.3		mg/L	0.39	20	13-JUL-10
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	13-JUL-10
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	13-JUL-10
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	13-JUL-10



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Contact: CLIFF SAMOILLOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1355923							
WG1133066-4	DUP	WG1133066-3						
Copper (Cu)-Total		0.00058	0.00062	J	mg/L	0.00003	0.0008	13-JUL-10
Iron (Fe)-Total		0.237	0.238		mg/L	0.47	20	13-JUL-10
Lead (Pb)-Total		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	13-JUL-10
Lithium (Li)-Total		0.0031	0.0044	J	mg/L	0.0013	0.008	13-JUL-10
Magnesium (Mg)-Total		5.71	5.77		mg/L	1.0	20	13-JUL-10
Manganese (Mn)-Total		0.0216	0.0205		mg/L	5.2	20	13-JUL-10
Molybdenum (Mo)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	13-JUL-10
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	13-JUL-10
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	20	13-JUL-10
Potassium (K)-Total		2.38	2.39		mg/L	0.58	20	13-JUL-10
Rubidium (Rb)-Total		0.00205	0.00209		mg/L	1.9	20	13-JUL-10
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	13-JUL-10
Silicon (Si)-Total		2.45	2.33		mg/L	5.0	20	13-JUL-10
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	13-JUL-10
Sodium (Na)-Total		4.93	4.72		mg/L	4.5	20	13-JUL-10
Strontium (Sr)-Total		0.0379	0.0382		mg/L	0.80	20	13-JUL-10
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	13-JUL-10
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	13-JUL-10
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	13-JUL-10
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	13-JUL-10
Titanium (Ti)-Total		0.00038	0.00039	J	mg/L	0.00001	0.0008	13-JUL-10
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	13-JUL-10
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	13-JUL-10
Vanadium (V)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	13-JUL-10
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	13-JUL-10
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	13-JUL-10
WG1133066-6	DUP	WG1133066-5						
Aluminum (Al)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	13-JUL-10
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	13-JUL-10
Arsenic (As)-Total		0.0109	0.0106		mg/L	2.0	20	13-JUL-10
Barium (Ba)-Total		0.0143	0.0140		mg/L	1.9	20	13-JUL-10
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	13-JUL-10
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	13-JUL-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
	Water							
Batch	R1355923							
WG1133066-6	DUP	WG1133066-5						
Boron (B)-Total		0.356	0.366		mg/L	2.8	20	13-JUL-10
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	13-JUL-10
Calcium (Ca)-Total		55.2	57.3		mg/L	3.7	20	13-JUL-10
Cesium (Cs)-Total		0.00141	0.00139		mg/L	1.3	20	13-JUL-10
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	13-JUL-10
Cobalt (Co)-Total		0.00026	0.00027	J	mg/L	0.00001	0.0008	13-JUL-10
Copper (Cu)-Total		0.00251	0.00241		mg/L	4.0	20	13-JUL-10
Iron (Fe)-Total		0.171	0.161	J	mg/L	0.011	0.08	13-JUL-10
Lead (Pb)-Total		0.00134	0.00134		mg/L	0.45	20	13-JUL-10
Lithium (Li)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	13-JUL-10
Magnesium (Mg)-Total		8.37	8.04		mg/L	4.0	20	13-JUL-10
Manganese (Mn)-Total		0.0733	0.0705		mg/L	4.0	20	13-JUL-10
Molybdenum (Mo)-Total		0.00048	0.00048	J	mg/L	0.00000	0.0008	13-JUL-10
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	13-JUL-10
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	20	13-JUL-10
Potassium (K)-Total		3.12	3.06		mg/L	1.7	20	13-JUL-10
Rubidium (Rb)-Total		0.00151	0.00150	J	mg/L	0.00001	0.0008	13-JUL-10
Selenium (Se)-Total		0.0013	0.0012	J	mg/L	0.0001	0.004	13-JUL-10
Silicon (Si)-Total		5.15	5.31		mg/L	3.1	20	13-JUL-10
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	13-JUL-10
Sodium (Na)-Total		99.3	101		mg/L	1.7	20	13-JUL-10
Strontium (Sr)-Total		0.439	0.437		mg/L	0.52	20	13-JUL-10
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	13-JUL-10
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	13-JUL-10
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	13-JUL-10
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	13-JUL-10
Titanium (Ti)-Total		0.00092	0.00082	J	mg/L	0.00010	0.0008	13-JUL-10
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	13-JUL-10
Uranium (U)-Total		0.00036	0.00036	J	mg/L	0.00001	0.0004	13-JUL-10
Vanadium (V)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	13-JUL-10
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	13-JUL-10
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	13-JUL-10
WG1133066-2	LCS							



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1355923							
WG1133066-2	LCS							
Aluminum (Al)-Total			106		%		80-120	13-JUL-10
Antimony (Sb)-Total			106		%		80-120	13-JUL-10
Arsenic (As)-Total			105		%		80-120	13-JUL-10
Barium (Ba)-Total			103		%		80-120	13-JUL-10
Beryllium (Be)-Total			109		%		80-120	13-JUL-10
Bismuth (Bi)-Total			105		%		80-120	13-JUL-10
Boron (B)-Total			104		%		80-120	13-JUL-10
Cadmium (Cd)-Total			102		%		80-120	13-JUL-10
Calcium (Ca)-Total			106		%		80-120	13-JUL-10
Cesium (Cs)-Total			99		%		80-120	13-JUL-10
Chromium (Cr)-Total			108		%		80-120	13-JUL-10
Cobalt (Co)-Total			104		%		80-120	13-JUL-10
Copper (Cu)-Total			105		%		80-120	13-JUL-10
Iron (Fe)-Total			103		%		80-120	13-JUL-10
Lead (Pb)-Total			103		%		80-120	13-JUL-10
Lithium (Li)-Total			107		%		80-120	13-JUL-10
Magnesium (Mg)-Total			109		%		80-120	13-JUL-10
Manganese (Mn)-Total			98		%		80-120	13-JUL-10
Molybdenum (Mo)-Total			105		%		80-120	13-JUL-10
Nickel (Ni)-Total			105		%		80-120	13-JUL-10
Phosphorus (P)-Total			109		%		80-120	13-JUL-10
Potassium (K)-Total			106		%		80-120	13-JUL-10
Rubidium (Rb)-Total			103		%		80-120	13-JUL-10
Selenium (Se)-Total			103		%		80-120	13-JUL-10
Silicon (Si)-Total			110		%		80-120	13-JUL-10
Silver (Ag)-Total			103		%		80-120	13-JUL-10
Sodium (Na)-Total			110		%		80-120	13-JUL-10
Strontium (Sr)-Total			102		%		80-120	13-JUL-10
Tellurium (Te)-Total			107		%		80-120	13-JUL-10
Thallium (Tl)-Total			104		%		80-120	13-JUL-10
Thorium (Th)-Total			104		%		63-138	13-JUL-10
Tin (Sn)-Total			105		%		80-120	13-JUL-10
Titanium (Ti)-Total			107		%		80-120	13-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1355923							
WG1133066-2 LCS								
Tungsten (W)-Total			101		%		80-120	13-JUL-10
Uranium (U)-Total			103		%		80-120	13-JUL-10
Vanadium (V)-Total			108		%		80-120	13-JUL-10
Zinc (Zn)-Total			103		%		80-120	13-JUL-10
Zirconium (Zr)-Total			101		%		80-120	13-JUL-10
WG1133066-1 MB								
Aluminum (Al)-Total			<0.0050		mg/L		0.005	13-JUL-10
Antimony (Sb)-Total			<0.00020		mg/L		0.0002	13-JUL-10
Arsenic (As)-Total			<0.00020		mg/L		0.0002	13-JUL-10
Barium (Ba)-Total			<0.00020		mg/L		0.0002	13-JUL-10
Beryllium (Be)-Total			<0.00020		mg/L		0.0002	13-JUL-10
Bismuth (Bi)-Total			<0.00020		mg/L		0.0002	13-JUL-10
Boron (B)-Total			<0.010		mg/L		0.01	13-JUL-10
Cadmium (Cd)-Total			<0.000010		mg/L		0.00001	13-JUL-10
Calcium (Ca)-Total			<0.10		mg/L		0.1	13-JUL-10
Cesium (Cs)-Total			<0.00010		mg/L		0.0001	13-JUL-10
Chromium (Cr)-Total			<0.0010		mg/L		0.001	13-JUL-10
Cobalt (Co)-Total			<0.00020		mg/L		0.0002	13-JUL-10
Copper (Cu)-Total			<0.00020		mg/L		0.0002	13-JUL-10
Iron (Fe)-Total			<0.020		mg/L		0.02	13-JUL-10
Lead (Pb)-Total			<0.000090		mg/L		0.00009	13-JUL-10
Lithium (Li)-Total			<0.0020		mg/L		0.002	13-JUL-10
Magnesium (Mg)-Total			<0.010		mg/L		0.01	13-JUL-10
Manganese (Mn)-Total			<0.00030		mg/L		0.0003	13-JUL-10
Molybdenum (Mo)-Total			<0.00020		mg/L		0.0002	13-JUL-10
Nickel (Ni)-Total			<0.0020		mg/L		0.002	13-JUL-10
Phosphorus (P)-Total			<0.20		mg/L		0.2	13-JUL-10
Potassium (K)-Total			<0.020		mg/L		0.02	13-JUL-10
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	13-JUL-10
Selenium (Se)-Total			<0.0010		mg/L		0.001	13-JUL-10
Silicon (Si)-Total			<0.050		mg/L		0.05	13-JUL-10
Silver (Ag)-Total			<0.00010		mg/L		0.0001	13-JUL-10
Sodium (Na)-Total			<0.030		mg/L		0.03	13-JUL-10
Strontium (Sr)-Total			<0.00010		mg/L		0.0001	13-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1355923							
WG1133066-1 MB								
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	13-JUL-10
Thallium (Tl)-Total			<0.00010		mg/L		0.0001	13-JUL-10
Thorium (Th)-Total			<0.00010		mg/L		0.0001	13-JUL-10
Tin (Sn)-Total			<0.00020		mg/L		0.0002	13-JUL-10
Titanium (Ti)-Total			<0.00020		mg/L		0.0002	13-JUL-10
Tungsten (W)-Total			<0.0010		mg/L		0.001	13-JUL-10
Uranium (U)-Total			<0.00010		mg/L		0.0001	13-JUL-10
Vanadium (V)-Total			<0.00020		mg/L		0.0002	13-JUL-10
Zinc (Zn)-Total			<0.0050		mg/L		0.005	13-JUL-10
Zirconium (Zr)-Total			<0.00040		mg/L		0.0004	13-JUL-10
N-TOTKJ-WP		Water						
Batch	R1349903							
WG1133037-2 CCV								
Total Kjeldahl Nitrogen			95		%		90-110	12-JUL-10
WG1133037-1 CVS								
Total Kjeldahl Nitrogen			98		%		90-110	12-JUL-10
WG1132229-4 DUP		L906816-1						
Total Kjeldahl Nitrogen		0.36	0.42	J	mg/L	0.06	0.8	12-JUL-10
WG1132229-6 DUP		L906827-2						
Total Kjeldahl Nitrogen		1.83	1.93	J	mg/L	0.10	0.8	12-JUL-10
WG1132229-2 LCS								
Total Kjeldahl Nitrogen			96		%		75-125	12-JUL-10
WG1132229-1 MB								
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	12-JUL-10
WG1132229-3 MS		L906816-1						
Total Kjeldahl Nitrogen			105		%		70-130	12-JUL-10
WG1132229-5 MS		L906827-2						
Total Kjeldahl Nitrogen			N/A	MS-B	%		-	12-JUL-10
N2N3-DIS-WP		Water						
Batch	R1399020							
WG1139153-3 CCV								
Nitrate+Nitrite-N - Dissolved			100		%		90-110	23-JUL-10
WG1139153-5 CCV								
Nitrate+Nitrite-N - Dissolved			103		%		90-110	23-JUL-10
WG1139153-2 CVS								
Nitrate+Nitrite-N - Dissolved			101		%		85-115	23-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
N2N3-DIS-WP								
	Water							
Batch	R1399020							
WG1139153-4	CVS							
Nitrate+Nitrite-N - Dissolved			103		%		85-115	23-JUL-10
WG1139152-2	DUP	L906875-1						
Nitrate+Nitrite-N - Dissolved		1.32	1.32		mg/L	0.0076	20	23-JUL-10
WG1139152-1	MB							
Nitrate+Nitrite-N - Dissolved			<0.050		mg/L		0.05	23-JUL-10
NH3-DIS-WP								
	Water							
Batch	R1399020							
WG1139153-3	CCV							
Ammonia (NH3) - Dissolved			104		%		90-110	23-JUL-10
WG1139153-5	CCV							
Ammonia (NH3) - Dissolved			98		%		90-110	23-JUL-10
WG1139153-2	CVS							
Ammonia (NH3) - Dissolved			103		%		85-115	23-JUL-10
WG1139153-4	CVS							
Ammonia (NH3) - Dissolved			96		%		85-115	23-JUL-10
WG1139152-1	MB							
Ammonia (NH3) - Dissolved			<0.050		mg/L		0.05	23-JUL-10
P-TOTAL-WP								
	Water							
Batch	R1356744							
WG1133017-1	CCV							
Phosphorus, Total			104		%		90-110	13-JUL-10
WG1133017-2	CCV							
Phosphorus, Total			102		%		90-110	13-JUL-10
WG1132937-2	CVS							
Phosphorus, Total			94		%		80-120	13-JUL-10
WG1132937-3	CVS							
Phosphorus, Total			98		%		80-120	13-JUL-10
WG1132937-6	CVS							
Phosphorus, Total			97		%		80-120	13-JUL-10
WG1132937-7	CVS							
Phosphorus, Total			99		%		80-120	13-JUL-10
WG1132937-4	DUP	L907060-4						
Phosphorus, Total		15.3	15.6		mg/L	1.9	20	13-JUL-10
WG1132937-1	MB							
Phosphorus, Total			<0.010		mg/L		0.01	13-JUL-10
PH-WP								
	Water							



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-WP		Water						
Batch	R1350283							
WG1132624-4	CCV							
pH			101		%		90-110	12-JUL-10
WG1132624-3	CVS							
pH			100		%		99-101	12-JUL-10
WG1132624-6	DUP	L906898-2						
pH		8.00	8.00		pH units	0.012	5	12-JUL-10
WG1132624-7	DUP	L907082-8						
pH		8.27	8.26		pH units	0.012	5	12-JUL-10
SILICATE-COL-VA		Water						
Batch	R1371666							
WG1134793-10	CRM	VA-SIO2-CSPK1						
Silicate (as SIO2)			98		%		85-115	15-JUL-10
WG1134793-3	CRM	VA-SIO2-CSPK1						
Silicate (as SIO2)			108		%		85-115	15-JUL-10
WG1134793-6	CRM	VA-SIO2-CSPK10						
Silicate (as SIO2)			96		%		85-115	15-JUL-10
WG1134793-1	DUP	L906225-1						
Silicate (as SIO2)		1.2	1.2	J	mg/L	0.0	4	15-JUL-10
WG1134793-4	DUP	L908024-5						
Silicate (as SIO2)		<1.0	<1.0	RPD-NA	mg/L	N/A	20	15-JUL-10
WG1134793-8	DUP	L908534-5						
Silicate (as SIO2)		6.2	6.2	J	mg/L	0.1	4	15-JUL-10
WG1134793-2	MB							
Silicate (as SIO2)			<1.0		mg/L		1	15-JUL-10
WG1134793-5	MB							
Silicate (as SIO2)			<1.0		mg/L		1	15-JUL-10
WG1134793-9	MB							
Silicate (as SIO2)			<1.0		mg/L		1	15-JUL-10
SO4-DIS-WP		Water						
Batch	R1361286							
WG1134431-3	CCV							
Sulphate (SO4) - Dissolved			93		%		90-110	14-JUL-10
WG1134431-2	CVS							
Sulphate (SO4) - Dissolved			92		%		85-115	14-JUL-10
WG1134426-2	DUP	L906898-2						
Sulphate (SO4) - Dissolved		122	123		mg/L	0.53	20	14-JUL-10
WG1134426-1	MB							
Sulphate (SO4) - Dissolved			<9.0		mg/L		9	14-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SOLIDS-TDS-WP		Water						
Batch	R1362564							
WG1133853-2 CVS								
Total Dissolved Solids			101		%		85-115	14-JUL-10
WG1133853-12 DUP		L908132-1						
Total Dissolved Solids		1590	1580		mg/L	0.63	20	14-JUL-10
WG1133853-6 DUP		L906727-2						
Total Dissolved Solids		<5.0	<5.0	RPD-NA	mg/L	N/A	20	14-JUL-10
WG1133853-8 DUP		L906865-3						
Total Dissolved Solids		124	126		mg/L	1.6	20	14-JUL-10
WG1133853-9 DUP		L906873-5						
Total Dissolved Solids		142	<5.0		mg/L	N/A	20	14-JUL-10
WG1133853-1 MB								
Total Dissolved Solids			<5.0		mg/L		5	14-JUL-10
SOLIDS-TOTSUS-WP		Water						
Batch	R1362564							
WG1133853-2 CVS								
Total Suspended Solids			110		%		85-115	14-JUL-10
WG1133853-10 DUP		L907054-3						
Total Suspended Solids		17.0	17.0	J	mg/L	0.0	20	14-JUL-10
WG1133853-12 DUP		L908132-1						
Total Suspended Solids		460	450		mg/L	2.2	20	14-JUL-10
WG1133853-3 DUP		L906370-1						
Total Suspended Solids		16.0	17.0	J	mg/L	1.0	20	14-JUL-10
WG1133853-4 DUP		L906501-1						
Total Suspended Solids		77.0	76.0		mg/L	1.3	20	14-JUL-10
WG1133853-5 DUP		L906518-10						
Total Suspended Solids		<5.0	<5.0	RPD-NA	mg/L	N/A	20	14-JUL-10
WG1133853-6 DUP		L906727-2						
Total Suspended Solids		<5.0	<5.0	RPD-NA	mg/L	N/A	20	14-JUL-10
WG1133853-8 DUP		L906865-3						
Total Suspended Solids		5.0	5.0	J	mg/L	0.0	20	14-JUL-10
WG1133853-9 DUP		L906873-5						
Total Suspended Solids		8.0	8.0	J	mg/L	0.0	20	14-JUL-10
WG1133853-1 MB								
Total Suspended Solids			<5.0		mg/L		5	14-JUL-10
TURBIDITY-WP		Water						



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TURBIDITY-WP								
	Water							
Batch	R134583							
WG1132119-4	CCV							
Turbidity			100		%		90-110	09-JUL-10
WG1132119-5	CCV							
Turbidity			102		%		90-110	09-JUL-10
WG1132119-2	CVS							
Turbidity			90		%		63-138	09-JUL-10
WG1132119-3	CVS							
Turbidity			91		%		63-138	09-JUL-10
WG1132119-7	DUP	L906568-12						
Turbidity		0.59	0.59	J	NTU	0.00	0.4	09-JUL-10
WG1132119-8	DUP	L906568-13						
Turbidity		11.8	12.0		NTU	1.7	15	09-JUL-10
WG1132119-6	LCS							
Turbidity			92		%		85-115	09-JUL-10
WG1132119-1	MB							
Turbidity			<0.10		NTU		0.1	09-JUL-10

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Legend:

Limit 99% Confidence Interval (Laboratory Control Limits)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
pH							
	1	08-JUL-10 12:56	12-JUL-10 11:47	0.25	95	hours	EHTR-FM
	2	08-JUL-10 12:56	12-JUL-10 11:47	0.25	95	hours	EHTR-FM
	3	08-JUL-10 12:56	12-JUL-10 11:47	0.25	95	hours	EHTR-FM

Legend & Qualifier Definitions:

EHTR-FM:	Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR:	Exceeded ALS recommended hold time prior to sample receipt.
EHTL:	Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT:	Exceeded ALS recommended hold time prior to analysis.
Rec. HT:	ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L906868 were received on 09-JUL-10 15:35.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



ALS Laboratory Group
Manitoba Technology Centre
12-1329 Niakwa Road E
Winnipeg, Manitoba R2J 3T4
(204) 255-9720

Phytoplankton Sample Results

Lab Number: L906868-4 **Work Order:** L906868

Date Sampled: July 08, 2010 **Submitter:** AECOM

Source: TL-PP1-60157028-20100708 **WQNum**

Sample Type WATER

Class	Genus	Species	Number of Cells per litre	Unit Biovolume µ3	Total Biovolume µ3
Bacillariophyceae	<i>Navicula</i>	<i>sp.</i>	2500	10000	25000000
Bacillariophyceae	<i>Nitzschia</i>	<i>sp.</i>	11200	540	6048000
Bacillariophyceae	<i>Synedra</i>	<i>sp.</i>	18600	540	10044000
Bacillariophyceae	<i>Tabellaria</i>	<i>sp.</i>	1000	30375	30375000
Chlorophyceae	<i>Arthrodesmus</i>	<i>convergens</i>	200	18000	3600000
Chlorophyceae	<i>Botryococcus</i>	<i>sp.</i>	1200	27000	32400000
Chlorophyceae	<i>Closteriopsis</i>	<i>sp.</i>	200	26880	5376000
Chlorophyceae	<i>Coelastrum</i>	<i>sp.</i>	200	8000	1600000
Chlorophyceae	<i>Cosmarium</i>	<i>sp.</i>	200	27000	5400000
Chlorophyceae	<i>Crucigenia</i>	<i>rectangularis</i>	800	1800	1440000
Chlorophyceae	<i>Elakatothrix</i>	<i>sp.</i>	38400	90	3456000
Chlorophyceae	<i>Eudorina</i>	<i>sp.</i>	200	27000	5400000
Chlorophyceae	<i>Monoraphidium</i>	<i>sp.</i>	57600	120	6912000
Chlorophyceae	<i>Oocystis</i>	<i>sp.</i>	200	12000	2400000
Chlorophyceae	<i>Pediastrum</i>	<i>tetras</i>	200	900	180000
Chlorophyceae	<i>Scenedesmus</i>	<i>arcuatus</i>	1600	160	256000
Chlorophyceae	<i>Scenedesmus</i>	<i>quadricauda</i>	1600	540	864000
Chlorophyceae	<i>Scenedesmus</i>	<i>sp.</i>	76800	160	12288000
Chlorophyceae	<i>Staurastrum</i>	<i>sp.</i>	200	6750	1350000

Date Printed: October 27, 2010

Lab Number: L906868-4 **Work Order: L906868**

Date Sampled: July 08, 2010 Submitter: AECOM

Source: TL-PP1-60157028-20100708 WQNum

Sample Type WATER

Class	Genus	Species	Number of Cells per litre	Unit Biovolume µ3	Total Biovolume µ3
Chrysophyceae	<i>Bitrichia</i>	<i>sp.</i>	38400	288	11059200
Chrysophyceae	<i>Dinobryon</i>	<i>sp.</i>	5000	240	1200000
Chrysophyceae	<i>small chrysophytes</i>		614400	96	58982400
Cryptophyceae	<i>Cryptomonas</i>	<i>sp.</i>	8700	2000	17400000
Euglenophyceae	<i>Euglena</i>	<i>sp.</i>	200	10125	2025000
Euglenophyceae	<i>Trachelomonas</i>	<i>sp.</i>	1200	4500	5400000
Myxophyceae	<i>Anabaena</i>	<i>sp.</i>	6200	4320	26784000
Myxophyceae	<i>Aphanizomenon</i>	<i>sp.</i>	400	3840	1536000
Myxophyceae	<i>Aphanocapsa</i>	<i>sp.</i>	2500	216000	540000000
Myxophyceae	<i>Aphanothece</i>	<i>sp.</i>	57600	8000	460800000
Myxophyceae	<i>Chroococcus</i>	<i>sp.</i>	400	2880	1152000
Myxophyceae	<i>Merismopedia</i>	<i>sp.</i>	74400	8	595200
Myxophyceae	<i>Microcystis</i>	<i>sp.</i>	400	216000	86400000
Myxophyceae	<i>Oscillatoria</i>	<i>sp.</i>	200	23040	4608000
Myxophyceae	<i>Planktolyngbya</i>	<i>contorta</i>	1200	960	1152000
Myxophyceae	<i>Planktolyngbya</i>	<i>sp.</i>	38400	240	9216000
Myxophyceae	<i>Pseudoanabaena</i>	<i>sp.</i>	6200	240	1488000
Peridineae	<i>Ceratium</i>	<i>hirundinella</i>	3400	96000	326400000
Peridineae	<i>Peridinium</i>	<i>sp.</i>	400	36000	14400000



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Phytoplankton Sample Results

Lab Number: L906868-5 **Work Order:** L906868

Date Sampled: July 08, 2010 **Submitter:** AECOM

Source: TDP-PP1-60157028-20100708 **WQNum**

Sample Type WATER

Class	Genus	Species	Number of Cells per litre	Unit Biovolume µ3	Total Biovolume µ3
Bacillariophyceae	<i>Cyclotella</i>	sp.	1200	1800	2160000
Bacillariophyceae	<i>Gomphonema</i>	sp.	1200	3000	3600000
Bacillariophyceae	<i>Navicula</i>	sp.	6200	6000	37200000
Bacillariophyceae	<i>Nitzschia</i>	sp.	14900	540	8046000
Bacillariophyceae	<i>Pinnularia</i>	sp.	400	54000	21600000
Bacillariophyceae	<i>Synedra</i>	sp.	2500	720	1800000
Bacillariophyceae	<i>Tabellaria</i>	sp.	2500	1600	4000000
Chlorophyceae	<i>Arthrodesmus</i>	sp.	200	7500	1500000
Chlorophyceae	<i>Botryococcus</i>	sp.	6200	125000	775000000
Chlorophyceae	<i>Closterium</i>	<i>kuetzingii</i>	400	26880	10752000
Chlorophyceae	<i>Closterium</i>	sp.	200	9000	1800000
Chlorophyceae	<i>Coelastrum</i>	sp.	1200	8000	9600000
Chlorophyceae	<i>Cosmarium</i>	sp.	5000	5625	28125000
Chlorophyceae	<i>Crucigenia</i>	<i>quadrata</i>	5000	12	60000
Chlorophyceae	<i>Crucigenia</i>	sp.	748800	64	47923200
Chlorophyceae	<i>Monoraphidium</i>	sp.	7400	120	888000
Chlorophyceae	<i>Oedogonium</i>	sp.	200	5760	1152000
Chlorophyceae	<i>Oocystis</i>	sp.	5000	16000	80000000
Chlorophyceae	<i>Pediastrum</i>	<i>tetras</i>	19200	576	11059200

Date Printed: October 28, 2010

Lab Number: L906868-5 **Work Order: L906868**July 08, 2010 **Submitter:** AECOM**Date Sampled:** TDP-PP1-60157028-20100708**Source:** **WQNum****Sample Type** WATER

Class	Genus	Species	Number of Cells per litre	Unit Biovolume µ3	Total Biovolume µ3
Chlorophyceae	<i>Quadrigula</i>	<i>sp.</i>	39700	180	7146000
Chlorophyceae	<i>Scenedesmus</i>	<i>arcuatus</i>	69400	360	24984000
Chlorophyceae	<i>Scenedesmus</i>	<i>sp.</i>	76800	160	12288000
Chlorophyceae	<i>Spondylosium</i>	<i>sp.</i>	200	12960	2592000
Chlorophyceae	<i>Tetraedron</i>	<i>muticum</i>	1200	144	172800
Chrysophyceae	<i>Dinobryon</i>	<i>sp.</i>	19200	240	4608000
Chrysophyceae	<i>small chrysophytes</i>		5203200	96	499507200
Cryptophyceae	<i>Cryptomonas</i>	<i>sp.</i>	13600	2000	27200000
Cryptophyceae	<i>Rhodomonas</i>	<i>sp.</i>	76800	1500	115200000
Myxophyceae	<i>Anabaena</i>	<i>sp.</i>	3700	8640	31968000
Myxophyceae	<i>Aphanothece</i>	<i>sp.</i>	200	125000	25000000
Myxophyceae	<i>Chroococcus</i>	<i>sp.</i>	19200	4500	86400000
Myxophyceae	<i>Gomphosphaeria</i>	<i>sp.</i>	1200	27000	32400000
Myxophyceae	<i>Merismopedia</i>	<i>sp.</i>	460800	8	3686400
Myxophyceae	<i>Planktolyngbya</i>	<i>sp.</i>	38400	240	9216000
Myxophyceae	<i>Pseudoanabaena</i>	<i>sp.</i>	2500	960	2400000
Peridineae	<i>Glenodinium</i>	<i>sp.</i>	200	31500	6300000
Peridineae	<i>Gymnodinium</i>	<i>sp.</i>	2500	4500	11250000



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Phytoplankton Sample Results

Lab Number: L906868-6 **Work Order:** L906868

Date Sampled: July 08, 2010 **Submitter:** AECOM

Source: LL-PP2-60157028-20100708 **WQNum**

Sample Type WATER

Class	Genus	Species	Number of Cells per litre	Unit Biovolume µ3	Total Biovolume µ3
Bacillariophyceae	<i>Navicula</i>	<i>sp.</i>	5000	2304	11520000
Bacillariophyceae	<i>Synedra</i>	<i>sp.</i>	200	720	144000
Chlorophyceae	<i>Botryococcus</i>	<i>sp.</i>	2500	27000	67500000
Chlorophyceae	<i>Cosmarium</i>	<i>sp.</i>	1200	27000	32400000
Chlorophyceae	<i>Elakatothrix</i>	<i>sp.</i>	7400	90	666000
Chlorophyceae	<i>Monoraphidium</i>	<i>sp.</i>	192000	120	23040000
Chlorophyceae	<i>Oocystis</i>	<i>sp.</i>	7400	8000	59200000
Chlorophyceae	<i>Pediastrum</i>	<i>Boryanum</i>	200	36000	7200000
Chlorophyceae	<i>Scenedesmus</i>	<i>acuminatus</i>	1600	180	288000
Chlorophyceae	<i>Scenedesmus</i>	<i>sp.</i>	96000	160	15360000
Chlorophyceae	<i>Sphaerocystis</i>	<i>schroeteri</i>	200	64000	12800000
Chlorophyceae	<i>Staurastrum</i>	<i>sp.</i>	1200	360	432000
Chrysophyceae	<i>Bitrichia</i>	<i>sp.</i>	38400	288	11059200
Chrysophyceae	<i>small chrysophytes</i>		2323200	36	83635200
Cryptophyceae	<i>Cryptomonas</i>	<i>sp.</i>	9900	2000	19800000
Myxophyceae	<i>Anabaena</i>	<i>sp.</i>	1200	4320	5184000
Myxophyceae	<i>Aphanocapsa</i>	<i>sp.</i>	200	216000	43200000
Myxophyceae	<i>Aphanothece</i>	<i>sp.</i>	76800	8000	614400000
Myxophyceae	<i>Chroococcus</i>	<i>sp.</i>	38400	216	8294400

Date Printed: October 27, 2010

Lab Number: L906868-6 **Work Order: L906868**

Date Sampled: July 08, 2010 **Submitter:** AECOM

Source: LL-PP2-60157028-20100708 **WQNum**

Sample Type WATER

Class	Genus	Species	Number of Cells per litre	Unit Biovolume µ3	Total Biovolume µ3
Myxophyceae	<i>Gomphosphaeria</i>	<i>sp.</i>	600	27000	16200000
Myxophyceae	<i>Merismopedia</i>	<i>sp.</i>	7400	8	59200
Myxophyceae	<i>Planktolyngbya</i>	<i>sp.</i>	96000	240	23040000
Myxophyceae	<i>Planktothrix</i>	<i>sp.</i>	1200	1120	1344000
Myxophyceae	<i>Pseudoanabaena</i>	<i>sp.</i>	230400	480	110592000
Peridineae	<i>Gymnodinium</i>	<i>sp.</i>	2500	4500	11250000



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Zooplankton Sample Results

Lab Number: L906868-7

Work Order: L906868

July 08, 2010

Submitter: SK/LDB

Volume Decanted (mL): 100

TL-ZP1-60157028-20100708

Sample ID:

Volume analyzed (mL): 10

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume μ^3	Biovolume per Sample μ^3
Crustacea	Branchiopoda	Cladocera	Bosminidae	<i>Bosmina</i>	sp.	40	1.56E+07	6.25E+08
Crustacea	Branchiopoda	Cladocera	Holopedidae	<i>Diaphanosoma</i>	sp.	50	3.46E+07	1.73E+09
Protozoa	Ciliata	Peritricha	Epistylidae	<i>Epistylis</i>	sp.	90	9.60E+04	8.64E+06
Protozoa	Ciliata			<i>Unidentified</i>		20	2.34E+05	4.68E+06
Protozoa	Ciliata	Peritricha	Vorticellidae	<i>Vorticella</i>	sp.	1670	5.51E+04	9.21E+07
Crustacea	Copepoda	Calanoida	Diatomidae	<i>Diatomus</i>	sp.	130	4.15E+07	5.39E+09
Crustacea	Copepoda	Calanoida		<i>Naupilii</i>		40	5.18E+06	2.07E+08
Crustacea	Copepoda			<i>Naupilii</i>		710	6.75E+05	4.79E+08
Arthropoda	Insecta	Diptera	Chironomidae	<i>unidentified</i>		10	4.12E+06	4.12E+07
Rotifera	Monogononta	Flosculariacea	Conochilidae	<i>Conochilus</i>	sp.	90	4.41E+05	3.97E+07
Rotifera	Monogononta	Ploima	Gastropidae	<i>Gastropus</i>	sp.	50	3.24E+05	1.62E+07
Rotifera	Monogononta	Ploima	Brachionidae	<i>Kellicotia</i>	<i>longispina</i>	50	3.04E+05	1.52E+07
Rotifera	Monogononta	Ploima	Brachionidae	<i>Keratella</i>	sp.	3360	4.32E+05	1.45E+09
Rotifera	Monogononta	Ploima	Lecanidae	<i>Monostyla</i>	sp.	50	4.22E+05	2.11E+07

Date Printed: December 03, 2010



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Zooplankton Sample Results

Lab Number: L906868-7 **Work Order: L906868**

Date Sampled: July 08, 2010

Submitter: SK/LDB

Volume Decanted (mL): 100

Source: TL-ZP1-60157028-20100708

Sample ID:

Volume analyzed (mL): 10

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume μ^3	Biovolume μ^3 per Sample
Rotifera	Monogononta	Ploima	Synchaetidae	<i>Ploesoma</i>	<i>sp.</i>	140	1.40E+06	1.96E+08
Rotifera	Monogononta	Ploima	Synchaetidae	<i>Polyarthra</i>	<i>sp.</i>	30	9.72E+05	2.92E+07



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Zooplankton Sample Results

Lab Number: L906868-8

Work Order: L906868

Date Sampled: July 08, 2010
Source: TDP-ZP1-60157028-20100708

Submitter: SK/LDB
Sample ID:

Volume Decanted (mL): 100
Volume analyzed (mL): 10

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume μm^3	Biovolume per Sample μm^3
Crustacea	Branchiopoda	Cladocera	Bosminidae	<i>Bosmina</i>	<i>sp.</i>	700	3.46E+06	2.42E+09
Crustacea	Branchiopoda	Cladocera	Holopedidae	<i>Diaphanosoma</i>	<i>sp.</i>	10	4.50E+07	4.50E+08
Crustacea	Branchiopoda	Cladocera		<i>To young to ID</i>		50	1.22E+06	6.08E+07
Crustacea	Copepoda	Calanoidea	Diaptomidae	<i>Diaptomus</i>	<i>sp.</i>	130	4.15E+07	5.39E+09
Crustacea	Copepoda			<i>Naupili</i>		370	6.75E+05	2.50E+08
Protozoa	Heliozoa	Actinophryida	Actinophryidae	<i>Actinosphaerium</i>	<i>sp.</i>	20	4.22E+05	8.44E+06
Rotifera	Monogononta	Ploima	Notommatinae	<i>Cephalodella</i>	<i>sp.</i>	10	4.32E+05	4.32E+06
Rotifera	Monogononta	Flosculariacea	Conochilidae	<i>Conochilus</i>	<i>sp.</i>	20	6.75E+05	1.35E+07
Rotifera	Monogononta	Ploima	Euchlanidae	<i>Euchlanis</i>	<i>sp.</i>	10	9.72E+05	9.72E+06
Rotifera	Monogononta	Ploima	Gastropidae	<i>Gastropus</i>	<i>sp.</i>	10	5.76E+05	5.76E+06
Rotifera	Monogononta	Ploima	Brachionidae	<i>Kellicotia</i>	<i>longispina</i>	10	3.04E+05	3.04E+06
Rotifera	Monogononta	Ploima	Brachionidae	<i>Keratella</i>	<i>sp.</i>	410	4.32E+05	1.77E+08
Rotifera	Monogononta	Ploima	Lecanidae	<i>Monostyla</i>	<i>sp.</i>	20	4.22E+05	8.44E+06
Rotifera	Monogononta	Ploima	Synchaetidae	<i>Ploesoma</i>	<i>sp.</i>	10	1.40E+06	1.40E+07

Date Printed: December 03, 2010



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Zooplankton Sample Results

Lab Number: L906868-8 **Work Order: L906868**

Date Sampled: July 08, 2010
Source: TDP-ZP1-60157028-20100708

Submitter: SK/LDB **Volume Decanted (mL):** 100
Sample ID: **Volume analyzed (mL):** 10

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume per Sample	μ^3 Biovolume per Sample
Rotifera	Monogononta			<i>Unidentified</i>		170	3.24E+05	5.51E+07



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Zooplankton Sample Results

Lab Number: L906868-9 **Work Order: L906868**

Date Sampled: July 08, 2010

SK/LDB

Volume Decanted (mL): 100

LL-ZP2-60157028-20100708

Submitter: SK/LDB

Volume analyzed (mL): 10

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume μ^3	Biovolume per Sample μ^3
Crustacea	Branchiopoda	Cladocera	Bosminidae	<i>Bosmina</i>	sp.	40	7.78E+06	3.11E+08
Protozoa	Ciliata	Holotrichida	Trachelidae	<i>Trachelius</i>	sp.	60	1.01E+06	6.07E+07
Protozoa	Ciliata	Spirotrichida	Oxytrichidae	<i>Unidentified</i>		50	8.10E+04	4.05E+06
Protozoa	Ciliata			<i>Unidentified</i>		170	4.32E+05	7.34E+07
Protozoa	Ciliata	Peritricha	Vorticellidae	<i>Vorticella</i>	sp.	1480	4.90E+04	7.25E+07
Crustacea	Copepoda	Calanoida	Diaptomidae	<i>Diaptomus</i>	sp.	50	4.84E+07	2.42E+09
Crustacea	Copepoda	Calanoida		<i>Naupili</i>		70	5.18E+06	3.63E+08
Crustacea	Copepoda			<i>Naupili</i>		1640	4.32E+05	7.08E+08
Gastrotricha	Gastrotricha	Chaetonoftida	Chaetonoftidae	<i>Chaetonoftus</i>	sp.	10	1.92E+05	1.92E+06
Rotifera	Monogononta	Collotheceae	Collotheceidae	<i>Collotheca</i>	sp.	470	7.20E+04	3.38E+07
Rotifera	Monogononta	Flosculariacea	Conochilidae	<i>Conochilus</i>	sp.	100	1.75E+05	1.75E+07
Rotifera	Monogononta	Ploima	Gastropidae	<i>Gastropus</i>	sp.	210	5.76E+05	1.21E+08
Rotifera	Monogononta	Ploima	Brachionidae	<i>Kellicotia</i>	<i>longispina</i>	100	2.43E+05	2.43E+07
Rotifera	Monogononta	Ploima	Brachionidae	<i>Keratella</i>	sp.	1100	4.32E+05	4.75E+08

Date Printed: December 03, 2010



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Zooplankton Sample Results

Lab Number: L906868-9 **Work Order: L906868**

Date Sampled: July 08, 2010

Submitter: SK/LDB

Volume Decanted (mL): 100

Source: LL-ZP2-60157028-20100708

Sample ID:

Volume analyzed (mL): 10

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume μ^3	Biovolume μ^3 per Sample
Rotifera	Monogononta	Ploima	Lecanidae	<i>Lecane</i>	sp.	10	1.73E+06	1.73E+07
Rotifera	Monogononta	Ploima	Colurellidae	<i>Lepadella</i>	sp.	10	1.50E+05	1.50E+06
Rotifera	Monogononta	Ploima	Lecanidae	<i>Monostyla</i>	sp.	50	7.29E+05	3.65E+07
Rotifera	Monogononta	Ploima	Synchaetidae	<i>Ploesoma</i>	sp.	20	5.40E+06	1.08E+08
Rotifera	Monogononta	Ploima	Synchaetidae	<i>Polyarthra</i>	sp.	110	4.32E+05	4.75E+07



Environmental Division

Report to: **AECOM**
 Company: **AECOM**
 Contact: **CLIFF SAMOLOFF**
 Address: **99 COMMERCE DR**
WINNIPEG MB R3P 0Y7
 Phone: **204 928 7427** Fax: **204 284 2040**
 Invoice To: Same as Report? Yes No
 Company: **AECOM**
 Contact: **CLIFF SAMOLOFF**
 Address: **99 COMMERCE DR**
 Phone: **204 928 7427** Fax: **204 284 2040**

Report Format / Distribution: Standard: Other:
 Select: PDF Excel Digital
 Email 1:
 Email 2:
 Client / Project Information: **60157028**
 Job #: **60157028**
 PO / AFE:
 Legal Site Description:

Quote #: **Q24534**
 ALS Contact: **CHRISTINE NEEROD**
 Sampler: **SK, LDRS**
 Lab Work Order # (lab use only):

Sample #	Sample Identification (This description will appear on the report)	Date	Time	Sample Type	Analysis Request							Number of Containers	
					Acidity	Chl + Phos	BOD / COD	Toc + Tlc	Anions	Tot. Metals + Hg	Diss. Metals + Hg		Gen. Chemistry
TL-WQ1-60157028-20100708		8JUL10	1256	WATER	X	X	X	X	X	X	X	X	7
TD-WQ1-60157028-20100708		8JUL10	1347	WATER	X	X	X	X	X	X	X	X	7
TC-WQ1-60157028-20100708		8JUL10	1427	WATER	X	X	X	X	X	X	X	X	7
TL-PPI-60157028-20100708		8JUL10	1308	WATER									1
TD-PPI-60157028-20100708		8JUL10	1653	"									1
LL-PPI-60157028-20100708		8JUL10	1056	"									1
TL-ZPI-60157028-20100708		8JUL10	1653	"									1
TD-ZPI-60157028-20100708		8JUL10	1653	"									1
LL-ZPI-60157028-20100708		8JUL10	1056	"									1

Special Instructions / Regulatory / Hazardous Details

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.
 By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

Released by: **[Signature]**
 Date & Time: **8JUL10 2215**
 Received by: **[Signature]**
 Date: **9JUL10 3:35**
 Temperature: **8.9**
 Verified by:
 Date & Time:
 Observations:
 Yes / No?
 If Yes attach SIF
 GENF 18.00 Front

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION
 WHITE - REPORT COPY, PINK - FILE COPY, YELLOW - CLIENT COPY
 SHIPMENT RELEASE (client use)
 SHIPMENT RECEIVED (lab use only)
 SHIPMENT VERIFICATION (use)



Environmental Division

Certificate of Analysis

AECOM Canada Ltd. (Winnipeg)
ATTN: CLIFF SAMOILOFF
99 COMMERCE DRIVE
WINNIPEG MB R3P 0Y7

Report Date: 02-SEP-10 14:26 (MT)
Version: FINAL REV. 2

Lab Work Order #: L906873

Date Received: 09-JUL-10

Project P.O. #: NOT SUBMITTED
Job Reference: 60157028
Legal Site Desc:
CofC Numbers:

Other Information:

Comments:

02-SEP-10: Revised Report

Gail Hill
Account Manager

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906873-1 TD-SQ1-60157028-20100708							
Sampled By: LDB, SK on 08-JUL-10 @ 14:05							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	<0.10		0.10	%	15-JUL-10	15-JUL-10	R1366805
Total Organic Carbon	24.4		0.10	%	15-JUL-10	15-JUL-10	R1366805
CaCO3 Equivalent	1.12		0.80	%	15-JUL-10	15-JUL-10	R1366805
Total Carbon by combustion method							
Total Carbon by Combustion	24.4		0.1	%	14-JUL-10	14-JUL-10	R1366723
Miscellaneous Parameters							
Mercury (Hg)-Total	0.0508		0.0050	mg/kg	13-JUL-10	03-AUG-10	R1411323
% Moisture	83.1		0.10	%		14-JUL-10	R1355623
Total Nitrogen by LECO	1.04		0.020	%	15-JUL-10	15-JUL-10	R1366883
Phosphorus, Total	590		100	mg/kg	16-JUL-10	16-JUL-10	R1369823
Particle Size Analysis: Hydrometer							
% Sand (2.0mm - 0.05mm)	40.0		1.0	%	14-JUL-10	16-JUL-10	R1368865
% Silt (0.05mm - 2um)	37.8		1.0	%	14-JUL-10	16-JUL-10	R1368865
% Clay (<2um)	22.2		1.0	%	14-JUL-10	16-JUL-10	R1368865
Texture	Loam				14-JUL-10	16-JUL-10	R1368865
Metals							
Aluminum (Al)	15400		5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Antimony (Sb)	0.2		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Arsenic (As)	24.8		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Barium (Ba)	156		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Beryllium (Be)	0.5		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Bismuth (Bi)	0.11		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Boron (B)	36		1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Cadmium (Cd)	0.41		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Calcium (Ca)	23700		100	mg/kg	13-JUL-10	14-JUL-10	R1376503
Cesium (Cs)	1.36		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Chromium (Cr)	45		1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Cobalt (Co)	10.5		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Copper (Cu)	39		1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Iron (Fe)	24300		30	mg/kg	13-JUL-10	14-JUL-10	R1376503
Lead (Pb)	10.4		0.2	mg/kg	13-JUL-10	14-JUL-10	R1376503
Magnesium (Mg)	8920		10	mg/kg	13-JUL-10	14-JUL-10	R1376503
Manganese (Mn)	400		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Molybdenum (Mo)	1.05		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Nickel (Ni)	30.8		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Phosphorus (P)	500		100	mg/kg	13-JUL-10	14-JUL-10	R1376503
Potassium (K)	3790		30	mg/kg	13-JUL-10	14-JUL-10	R1376503
Rubidium (Rb)	33.8		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Selenium (Se)	0.8		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Silver (Ag)	0.2		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Sodium (Na)	320		10	mg/kg	13-JUL-10	14-JUL-10	R1376503
Strontium (Sr)	61.7		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Tellurium (Te)	<0.1		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Thallium (Tl)	0.2		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Tin (Sn)	<5		5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Titanium (Ti)	830		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Tungsten (W)	0.12		0.05	mg/kg	13-JUL-10	14-JUL-10	R1376503
Uranium (U)	2.50		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Vanadium (V)	48.7		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Zinc (Zn)	140		10	mg/kg	13-JUL-10	14-JUL-10	R1376503

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906873-1 TD-SQ1-60157028-20100708 Sampled By: LDB, SK on 08-JUL-10 @ 14:05 Matrix: SEDIMENT							
Metals Zirconium (Zr)	22.9		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
L906873-2 TC-SQ1-60157028-20100708 Sampled By: LDB, SK on 08-JUL-10 @ 14:23 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	<0.10		0.10	%	15-JUL-10	15-JUL-10	R1366805
Total Organic Carbon	18.1		0.10	%	15-JUL-10	15-JUL-10	R1366805
CaCO3 Equivalent	1.02		0.80	%	15-JUL-10	15-JUL-10	R1366805
Total Carbon by combustion method							
Total Carbon by Combustion	18.1		0.1	%	14-JUL-10	14-JUL-10	R1366723
Miscellaneous Parameters							
Mercury (Hg)-Total	0.0509		0.0050	mg/kg	13-JUL-10	03-AUG-10	R1411323
% Moisture	73.8		0.10	%		14-JUL-10	R1355623
Total Nitrogen by LECO	1.14		0.020	%	15-JUL-10	15-JUL-10	R1366883
Phosphorus, Total	660		100	mg/kg	16-JUL-10	16-JUL-10	R1369823
Particle Size Analysis: Hydrometer							
% Sand (2.0mm - 0.05mm)	53.4		1.0	%	14-JUL-10	16-JUL-10	R1368865
% Silt (0.05mm - 2um)	39.7		1.0	%	14-JUL-10	16-JUL-10	R1368865
% Clay (<2um)	6.9		1.0	%	14-JUL-10	16-JUL-10	R1368865
Texture	Sandy loam				14-JUL-10	16-JUL-10	R1368865
Metals							
Aluminum (Al)	12000		5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Antimony (Sb)	<0.1		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Arsenic (As)	4.4		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Barium (Ba)	102		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Beryllium (Be)	0.4		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Bismuth (Bi)	0.10		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Boron (B)	8		1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Cadmium (Cd)	0.26		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Calcium (Ca)	12800		100	mg/kg	13-JUL-10	14-JUL-10	R1376503
Cesium (Cs)	0.95		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Chromium (Cr)	32		1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Cobalt (Co)	8.28		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Copper (Cu)	25		1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Iron (Fe)	15500		30	mg/kg	13-JUL-10	14-JUL-10	R1376503
Lead (Pb)	6.2		0.2	mg/kg	13-JUL-10	14-JUL-10	R1376503
Magnesium (Mg)	5020		10	mg/kg	13-JUL-10	14-JUL-10	R1376503
Manganese (Mn)	332		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Molybdenum (Mo)	0.68		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Nickel (Ni)	20.3		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Phosphorus (P)	700		100	mg/kg	13-JUL-10	14-JUL-10	R1376503
Potassium (K)	1840		30	mg/kg	13-JUL-10	14-JUL-10	R1376503
Rubidium (Rb)	19.1		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Selenium (Se)	1.1		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Silver (Ag)	0.1		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Sodium (Na)	200		10	mg/kg	13-JUL-10	14-JUL-10	R1376503
Strontium (Sr)	32.9		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Tellurium (Te)	<0.1		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Thallium (Tl)	0.1		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Tin (Sn)	<5		5	mg/kg	13-JUL-10	14-JUL-10	R1376503

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906873-2 TC-SQ1-60157028-20100708 Sampled By: LDB, SK on 08-JUL-10 @ 14:23 Matrix: SEDIMENT							
Metals							
Titanium (Ti)	518		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Tungsten (W)	0.06		0.05	mg/kg	13-JUL-10	14-JUL-10	R1376503
Uranium (U)	2.89		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Vanadium (V)	30.8		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Zinc (Zn)	60		10	mg/kg	13-JUL-10	14-JUL-10	R1376503
Zirconium (Zr)	12.1		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
L906873-3 TL-SQ1-60157028-20100708 Sampled By: LDB, SK on 08-JUL-10 @ 13:10 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	<0.10		0.10	%	15-JUL-10	15-JUL-10	R1366805
Total Organic Carbon	25.0		0.10	%	15-JUL-10	15-JUL-10	R1366805
CaCO3 Equivalent	0.98		0.80	%	15-JUL-10	15-JUL-10	R1366805
Total Carbon by combustion method							
Total Carbon by Combustion	25.0		0.1	%	14-JUL-10	14-JUL-10	R1366723
Miscellaneous Parameters							
Mercury (Hg)-Total	0.120		0.0050	mg/kg	13-JUL-10	03-AUG-10	R1411323
% Moisture	93.6		0.10	%		14-JUL-10	R1355623
Total Nitrogen by LECO	2.30		0.020	%	15-JUL-10	15-JUL-10	R1366883
Phosphorus, Total	850		100	mg/kg	16-JUL-10	16-JUL-10	R1369823
Particle Size Analysis: Hydrometer							
% Sand (2.0mm - 0.05mm)	1.5		1.0	%	14-JUL-10	16-JUL-10	R1368865
% Silt (0.05mm - 2um)	58.0		1.0	%	14-JUL-10	16-JUL-10	R1368865
% Clay (<2um)	40.6		1.0	%	14-JUL-10	16-JUL-10	R1368865
Texture	Silt Clay loam / Silty clay				14-JUL-10	16-JUL-10	R1368865
Metals							
Aluminum (Al)	9390		5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Antimony (Sb)	0.3		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Arsenic (As)	29.7		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Barium (Ba)	92.8		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Beryllium (Be)	0.3		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Bismuth (Bi)	0.12		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Boron (B)	10		1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Cadmium (Cd)	0.67		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Calcium (Ca)	15300		100	mg/kg	13-JUL-10	14-JUL-10	R1376503
Cesium (Cs)	0.90		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Chromium (Cr)	26		1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Cobalt (Co)	9.43		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Copper (Cu)	34		1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Iron (Fe)	14400		30	mg/kg	13-JUL-10	14-JUL-10	R1376503
Lead (Pb)	18.3		0.2	mg/kg	13-JUL-10	14-JUL-10	R1376503
Magnesium (Mg)	4980		10	mg/kg	13-JUL-10	14-JUL-10	R1376503
Manganese (Mn)	257		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Molybdenum (Mo)	0.98		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Nickel (Ni)	24.6		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Phosphorus (P)	700		100	mg/kg	13-JUL-10	14-JUL-10	R1376503
Potassium (K)	1950		30	mg/kg	13-JUL-10	14-JUL-10	R1376503
Rubidium (Rb)	17.3		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Selenium (Se)	1.1		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906873-3 TL-SQ1-60157028-20100708 Sampled By: LDB, SK on 08-JUL-10 @ 13:10 Matrix: SEDIMENT							
Metals							
Silver (Ag)	0.1		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Sodium (Na)	190		10	mg/kg	13-JUL-10	14-JUL-10	R1376503
Strontium (Sr)	27.5		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Tellurium (Te)	<0.1		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Thallium (Tl)	0.1		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Tin (Sn)	<5		5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Titanium (Ti)	413		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Tungsten (W)	0.17		0.05	mg/kg	13-JUL-10	14-JUL-10	R1376503
Uranium (U)	1.11		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Vanadium (V)	27.5		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Zinc (Zn)	190		10	mg/kg	13-JUL-10	14-JUL-10	R1376503
Zirconium (Zr)	8.8		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
L906873-4 TDP-SQ1-60157028-20100708 Sampled By: LDB, SK on 08-JUL-10 @ 17:57 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	<0.10		0.10	%	15-JUL-10	15-JUL-10	R1366805
Total Organic Carbon	32.6		0.10	%	15-JUL-10	15-JUL-10	R1366805
CaCO3 Equivalent	1.19		0.80	%	15-JUL-10	15-JUL-10	R1366805
Total Carbon by combustion method							
Total Carbon by Combustion	32.6		0.1	%	14-JUL-10	14-JUL-10	R1366723
Miscellaneous Parameters							
Mercury (Hg)-Total	0.0698		0.0050	mg/kg	13-JUL-10	03-AUG-10	R1411323
% Moisture	87.1		0.10	%		14-JUL-10	R1355623
Total Nitrogen by LECO	2.57		0.020	%	15-JUL-10	15-JUL-10	R1366883
Phosphorus, Total	470		100	mg/kg	16-JUL-10	16-JUL-10	R1369823
Particle Size Analysis: Hydrometer							
% Sand (2.0mm - 0.05mm)	2.4		1.0	%	14-JUL-10	16-JUL-10	R1368865
% Silt (0.05mm - 2um)	56.5		1.0	%	14-JUL-10	16-JUL-10	R1368865
% Clay (<2um)	41.2		1.0	%	14-JUL-10	16-JUL-10	R1368865
Texture	Silty clay				14-JUL-10	16-JUL-10	R1368865
Metals							
Aluminum (Al)	3030		5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Antimony (Sb)	<0.1		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Arsenic (As)	5.3		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Barium (Ba)	56.4		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Beryllium (Be)	<0.1		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Bismuth (Bi)	0.08		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Boron (B)	8		1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Cadmium (Cd)	0.56		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Calcium (Ca)	10500		100	mg/kg	13-JUL-10	14-JUL-10	R1376503
Cesium (Cs)	0.26		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Chromium (Cr)	5		1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Cobalt (Co)	4.30		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Copper (Cu)	17		1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Iron (Fe)	6750		30	mg/kg	13-JUL-10	14-JUL-10	R1376503
Lead (Pb)	9.5		0.2	mg/kg	13-JUL-10	14-JUL-10	R1376503
Magnesium (Mg)	1290		10	mg/kg	13-JUL-10	14-JUL-10	R1376503
Manganese (Mn)	251		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Molybdenum (Mo)	0.76		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906873-4 TDP-SQ1-60157028-20100708 Sampled By: LDB, SK on 08-JUL-10 @ 17:57 Matrix: SEDIMENT							
Metals							
Nickel (Ni)	7.5		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Phosphorus (P)	400		100	mg/kg	13-JUL-10	14-JUL-10	R1376503
Potassium (K)	320		30	mg/kg	13-JUL-10	14-JUL-10	R1376503
Rubidium (Rb)	2.14		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Selenium (Se)	0.8		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Silver (Ag)	<0.1		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Sodium (Na)	1420		10	mg/kg	13-JUL-10	14-JUL-10	R1376503
Strontium (Sr)	19.6		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Tellurium (Te)	<0.1		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Thallium (Tl)	<0.1		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Tin (Sn)	<5		5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Titanium (Ti)	67.6		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Tungsten (W)	<0.05		0.05	mg/kg	13-JUL-10	14-JUL-10	R1376503
Uranium (U)	0.27		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Vanadium (V)	8.0		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Zinc (Zn)	110		10	mg/kg	13-JUL-10	14-JUL-10	R1376503
Zirconium (Zr)	2.5		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
L906873-5 TDP-WQ1-60157028-20100708 Sampled By: LDB, SK on 08-JUL-10 @ 16:43 Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		14-JUL-10	R1361168
Ammonia (NH3) - Dissolved	<0.050		0.050	mg/L	09-JUL-10	23-JUL-10	R1399020
Bromide	<0.10		0.10	mg/L	14-JUL-10	14-JUL-10	R1362323
BOD Carbonaceous	2.8		1.0	mg/L	10-JUL-10	15-JUL-10	R1362203
Chloride (Cl) - Dissolved	14.1		9.0	mg/L	09-JUL-10	14-JUL-10	R1361286
Hardness (as CaCO3)	71.6		0.30	mg/L		14-JUL-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	15-JUL-10	15-JUL-10	R1388824
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	16-JUL-10	16-JUL-10	R1389507
Nitrate+Nitrite-N - Dissolved	<0.050		0.050	mg/L	09-JUL-10	23-JUL-10	R1399020
Phosphorus, Total	0.0168		0.0030	mg/L		13-JUL-10	R1356744
Silicate (as SiO2)	4.2		1.0	mg/L		15-JUL-10	R1371666
Sulphate (SO4) - Dissolved	<9.0		9.0	mg/L	09-JUL-10	14-JUL-10	R1361286
Total Dissolved Solids	142		5.0	mg/L		14-JUL-10	R1362564
Total Inorganic Carbon	4.5		1.0	mg/L		13-JUL-10	R1370423
Total Kjeldahl Nitrogen	1.58		0.20	mg/L	10-JUL-10	12-JUL-10	R1349903
Total Organic Carbon	25.9		1.0	mg/L		13-JUL-10	R1370423
Total Suspended Solids	8.0		5.0	mg/L		14-JUL-10	R1362564
Color, True	100		5.0	T.C.U.		09-JUL-10	R1348083
Turbidity	0.89		0.10	NTU		09-JUL-10	R1345583
Hardness Calculated							
Hardness (as CaCO3)	64.1		0.20	mg/L		16-AUG-10	
Hardness (as CaCO3)	71.6		0.20	mg/L		16-JUL-10	
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0099		0.0050	mg/L	13-JUL-10	13-JUL-10	R1355923
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Arsenic (As)-Total	0.00119		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Barium (Ba)-Total	0.0171		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906873-5 TDP-WQ1-60157028-20100708							
Sampled By: LDB, SK on 08-JUL-10 @ 16:43							
Matrix: WATER							
Total Metals by ICP-MS							
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Boron (B)-Total	0.010		0.010	mg/L	13-JUL-10	13-JUL-10	R1355923
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	13-JUL-10	13-JUL-10	R1355923
Calcium (Ca)-Total	19.3		0.10	mg/L	13-JUL-10	13-JUL-10	R1355923
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	13-JUL-10	13-JUL-10	R1355923
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	13-JUL-10	13-JUL-10	R1355923
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Copper (Cu)-Total	0.00058		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Iron (Fe)-Total	0.237		0.020	mg/L	13-JUL-10	13-JUL-10	R1355923
Lead (Pb)-Total	<0.000090		0.000090	mg/L	13-JUL-10	13-JUL-10	R1355923
Lithium (Li)-Total	0.0031		0.0020	mg/L	13-JUL-10	13-JUL-10	R1355923
Magnesium (Mg)-Total	5.71		0.010	mg/L	13-JUL-10	13-JUL-10	R1355923
Manganese (Mn)-Total	0.0216		0.00030	mg/L	13-JUL-10	13-JUL-10	R1355923
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	13-JUL-10	13-JUL-10	R1355923
Phosphorus (P)-Total	<0.20		0.20	mg/L	13-JUL-10	13-JUL-10	R1355923
Potassium (K)-Total	2.38		0.020	mg/L	13-JUL-10	13-JUL-10	R1355923
Rubidium (Rb)-Total	0.00205		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Selenium (Se)-Total	<0.0010		0.0010	mg/L	13-JUL-10	13-JUL-10	R1355923
Silicon (Si)-Total	2.45		0.050	mg/L	13-JUL-10	13-JUL-10	R1355923
Silver (Ag)-Total	<0.00010		0.00010	mg/L	13-JUL-10	13-JUL-10	R1355923
Sodium (Na)-Total	4.93		0.030	mg/L	13-JUL-10	13-JUL-10	R1355923
Strontium (Sr)-Total	0.0379		0.00010	mg/L	13-JUL-10	13-JUL-10	R1355923
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	13-JUL-10	13-JUL-10	R1355923
Thorium (Th)-Total	<0.00010		0.00010	mg/L	13-JUL-10	13-JUL-10	R1355923
Tin (Sn)-Total	<0.00020		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Titanium (Ti)-Total	0.00038		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Tungsten (W)-Total	<0.0010		0.0010	mg/L	13-JUL-10	13-JUL-10	R1355923
Uranium (U)-Total	<0.00010		0.00010	mg/L	13-JUL-10	13-JUL-10	R1355923
Vanadium (V)-Total	<0.00020		0.00020	mg/L	13-JUL-10	13-JUL-10	R1355923
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	13-JUL-10	13-JUL-10	R1355923
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	13-JUL-10	13-JUL-10	R1355923
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0031		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Arsenic (As)-Dissolved	0.00110		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Barium (Ba)-Dissolved	0.0150		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Boron (B)-Dissolved	<0.010		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	09-JUL-10	07-AUG-10	R1421107
Calcium (Ca)-Dissolved	16.6		0.050	mg/L	09-JUL-10	07-AUG-10	R1421107
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Copper (Cu)-Dissolved	0.00022		0.00020	mg/L	09-JUL-10	13-AUG-10	R1439889
Iron (Fe)-Dissolved	0.065		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	09-JUL-10	07-AUG-10	R1421107
Lithium (Li)-Dissolved	0.0047		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Magnesium (Mg)-Dissolved	5.50		0.010	mg/L	09-JUL-10	07-AUG-10	R1421107

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906873-5 TDP-WQ1-60157028-20100708							
Sampled By: LDB, SK on 08-JUL-10 @ 16:43							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Manganese (Mn)-Dissolved	0.00047		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Molybdenum (Mo)-Dissolved	0.00017		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Nickel (Ni)-Dissolved	0.00069		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	09-JUL-10	07-AUG-10	R1421107
Potassium (K)-Dissolved	2.18		0.020	mg/L	09-JUL-10	07-AUG-10	R1421107
Rubidium (Rb)-Dissolved	0.00193		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	09-JUL-10	07-AUG-10	R1421107
Silicon (Si)-Dissolved	1.98		0.050	mg/L	09-JUL-10	07-AUG-10	R1421107
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Sodium (Na)-Dissolved	4.52		0.020	mg/L	09-JUL-10	07-AUG-10	R1421107
Strontium (Sr)-Dissolved	0.0362		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	09-JUL-10	07-AUG-10	R1421107
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	09-JUL-10	07-AUG-10	R1421107
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	09-JUL-10	07-AUG-10	R1421107
Zinc (Zn)-Dissolved	0.0091		0.0020	mg/L	09-JUL-10	07-AUG-10	R1421107
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	09-JUL-10	07-AUG-10	R1421107
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	3.8		1.0	ug/L	09-JUL-10	13-JUL-10	R1353923
Phaeophytin a	2.2		1.0	ug/L	09-JUL-10	13-JUL-10	R1353923
ODb/ODa	1.4		1.0	ABS Ratio	09-JUL-10	13-JUL-10	R1353923
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	54.5		1.0	mg/L		12-JUL-10	R1350283
Bicarbonate (HCO3)	66.5		2.0	mg/L		12-JUL-10	R1350283
Carbonate (CO3)	<0.60		0.60	mg/L		12-JUL-10	R1350283
Hydroxide (OH)	<0.40		0.40	mg/L		12-JUL-10	R1350283
Conductivity							
Conductivity	147		0.40	umhos/cm		12-JUL-10	R1350283
pH							
pH	7.79		0.10	pH units		12-JUL-10	R1350283
L906873-6 LL-SQ1-60157028-20100708							
Sampled By: LDB, SK on 08-JUL-10 @ 11:18							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	<0.10		0.10	%	15-JUL-10	15-JUL-10	R1366805
Total Organic Carbon	30.0		0.10	%	15-JUL-10	15-JUL-10	R1366805
CaCO3 Equivalent	1.00		0.80	%	15-JUL-10	15-JUL-10	R1366805
Total Carbon by combustion method							
Total Carbon by Combustion	30.0		0.1	%	14-JUL-10	14-JUL-10	R1366723
Miscellaneous Parameters							
Mercury (Hg)-Total	0.0399		0.0050	mg/kg	13-JUL-10	03-AUG-10	R1411323
% Moisture	97.2		0.10	%		14-JUL-10	R1355623
Total Nitrogen by LECO	2.35		0.020	%	15-JUL-10	15-JUL-10	R1366883
Phosphorus, Total	570		100	mg/kg	16-JUL-10	16-JUL-10	R1369823
Particle Size Analysis: Hydrometer							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906873-6 LL-SQ1-60157028-20100708							
Sampled By: LDB, SK on 08-JUL-10 @ 11:18							
Matrix: SEDIMENT							
Particle Size Analysis: Hydrometer							
% Sand (2.0mm - 0.05mm)	6.8		1.0	%	14-JUL-10	16-JUL-10	R1368865
% Silt (0.05mm - 2um)	30.8		1.0	%	14-JUL-10	16-JUL-10	R1368865
% Clay (<2um)	62.3		1.0	%	14-JUL-10	16-JUL-10	R1368865
Texture	Clay				14-JUL-10	16-JUL-10	R1368865
Metals							
Aluminum (Al)	8050		5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Antimony (Sb)	0.1		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Arsenic (As)	2.7		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Barium (Ba)	92.9		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Beryllium (Be)	0.4		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Bismuth (Bi)	0.06		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Boron (B)	15		1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Cadmium (Cd)	0.36		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Calcium (Ca)	8500		100	mg/kg	13-JUL-10	14-JUL-10	R1376503
Cesium (Cs)	0.58		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Chromium (Cr)	36		1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Cobalt (Co)	6.87		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Copper (Cu)	46		1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Iron (Fe)	20600		30	mg/kg	13-JUL-10	14-JUL-10	R1376503
Lead (Pb)	5.1		0.2	mg/kg	13-JUL-10	14-JUL-10	R1376503
Magnesium (Mg)	3210		10	mg/kg	13-JUL-10	14-JUL-10	R1376503
Manganese (Mn)	293		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Molybdenum (Mo)	2.73		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Nickel (Ni)	29.2		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Phosphorus (P)	500		100	mg/kg	13-JUL-10	14-JUL-10	R1376503
Potassium (K)	1220		30	mg/kg	13-JUL-10	14-JUL-10	R1376503
Rubidium (Rb)	11.3		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Selenium (Se)	1.5		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Silver (Ag)	0.1		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Sodium (Na)	220		10	mg/kg	13-JUL-10	14-JUL-10	R1376503
Strontium (Sr)	19.4		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Tellurium (Te)	<0.1		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Thallium (Tl)	<0.1		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
Tin (Sn)	<5		5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Titanium (Ti)	288		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Tungsten (W)	0.10		0.05	mg/kg	13-JUL-10	14-JUL-10	R1376503
Uranium (U)	1.65		0.02	mg/kg	13-JUL-10	14-JUL-10	R1376503
Vanadium (V)	35.1		0.5	mg/kg	13-JUL-10	14-JUL-10	R1376503
Zinc (Zn)	70		10	mg/kg	13-JUL-10	14-JUL-10	R1376503
Zirconium (Zr)	6.1		0.1	mg/kg	13-JUL-10	14-JUL-10	R1376503
L906873-7 LL-SQ2-60157028-20100708							
Sampled By: LDB, SK on 08-JUL-10 @ 10:59							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	<0.10		0.10	%	15-JUL-10	15-JUL-10	R1366805
Total Organic Carbon	32.5		0.10	%	15-JUL-10	15-JUL-10	R1366805
CaCO3 Equivalent	1.17		0.80	%	15-JUL-10	15-JUL-10	R1366805
Total Carbon by combustion method							
Total Carbon by Combustion	32.5		0.1	%	14-JUL-10	14-JUL-10	R1366723
Miscellaneous Parameters							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906873-7 LL-SQ2-60157028-20100708							
Sampled By: LDB, SK on 08-JUL-10 @ 10:59							
Matrix: SEDIMENT							
Mercury (Hg)-Total	0.0410		0.0050	mg/kg	14-JUL-10	03-AUG-10	R1411323
% Moisture	97.4		0.10	%		14-JUL-10	R1355623
Total Nitrogen by LECO	2.98		0.020	%	15-JUL-10	15-JUL-10	R1366883
Phosphorus, Total	660		100	mg/kg	16-JUL-10	16-JUL-10	R1369823
Particle Size Analysis: Hydrometer							
% Sand (2.0mm - 0.05mm)	2.5		1.0	%	14-JUL-10	16-JUL-10	R1368865
% Silt (0.05mm - 2um)	17.4		1.0	%	14-JUL-10	16-JUL-10	R1368865
% Clay (<2um)	80.2		1.0	%	14-JUL-10	16-JUL-10	R1368865
Texture	Clay				14-JUL-10	16-JUL-10	R1368865
Metals							
Aluminum (Al)	6290		5	mg/kg	14-JUL-10	15-JUL-10	R1362144
Antimony (Sb)	0.1		0.1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Arsenic (As)	2.4		0.1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Barium (Ba)	78.0		0.5	mg/kg	14-JUL-10	15-JUL-10	R1362144
Beryllium (Be)	0.3		0.1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Bismuth (Bi)	0.05		0.02	mg/kg	14-JUL-10	15-JUL-10	R1362144
Boron (B)	16		1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Cadmium (Cd)	0.29		0.02	mg/kg	14-JUL-10	15-JUL-10	R1362144
Calcium (Ca)	8900		100	mg/kg	14-JUL-10	15-JUL-10	R1362144
Cesium (Cs)	0.51		0.02	mg/kg	14-JUL-10	15-JUL-10	R1362144
Chromium (Cr)	28		1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Cobalt (Co)	6.60		0.02	mg/kg	14-JUL-10	15-JUL-10	R1362144
Copper (Cu)	44		1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Iron (Fe)	16100		30	mg/kg	14-JUL-10	15-JUL-10	R1362144
Lead (Pb)	3.5		0.2	mg/kg	14-JUL-10	15-JUL-10	R1362144
Magnesium (Mg)	2770		10	mg/kg	14-JUL-10	15-JUL-10	R1362144
Manganese (Mn)	284		0.5	mg/kg	14-JUL-10	15-JUL-10	R1362144
Molybdenum (Mo)	2.02		0.02	mg/kg	14-JUL-10	15-JUL-10	R1362144
Nickel (Ni)	25.9		0.5	mg/kg	14-JUL-10	15-JUL-10	R1362144
Phosphorus (P)	600		100	mg/kg	14-JUL-10	15-JUL-10	R1362144
Potassium (K)	920		30	mg/kg	14-JUL-10	15-JUL-10	R1362144
Rubidium (Rb)	8.12		0.02	mg/kg	14-JUL-10	15-JUL-10	R1362144
Selenium (Se)	1.4		0.5	mg/kg	14-JUL-10	15-JUL-10	R1362144
Silver (Ag)	<0.1		0.1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Sodium (Na)	210		10	mg/kg	14-JUL-10	15-JUL-10	R1362144
Strontium (Sr)	21.2		0.1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Tellurium (Te)	<0.1		0.1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Thallium (Tl)	<0.1		0.1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Tin (Sn)	<5		5	mg/kg	14-JUL-10	15-JUL-10	R1362144
Titanium (Ti)	183		0.5	mg/kg	14-JUL-10	15-JUL-10	R1362144
Tungsten (W)	0.11		0.05	mg/kg	14-JUL-10	15-JUL-10	R1362144
Uranium (U)	1.70		0.02	mg/kg	14-JUL-10	15-JUL-10	R1362144
Vanadium (V)	30.1		0.5	mg/kg	14-JUL-10	15-JUL-10	R1362144
Zinc (Zn)	60		10	mg/kg	14-JUL-10	15-JUL-10	R1362144
Zirconium (Zr)	4.6		0.1	mg/kg	14-JUL-10	15-JUL-10	R1362144
L906873-8 LL-SQ3-60157028-20100708							
Sampled By: LDB, SK on 08-JUL-10 @ 10:32							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.16		0.10	%	15-JUL-10	15-JUL-10	R1366805
Total Organic Carbon	31.2		0.10	%	15-JUL-10	15-JUL-10	R1366805

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L906873-8 LL-SQ3-60157028-20100708							
Sampled By: LDB, SK on 08-JUL-10 @ 10:32							
Matrix: SEDIMENT							
Inorganic and Organic Carbon							
CaCO3 Equivalent	2.00		0.80	%	15-JUL-10	15-JUL-10	R1366805
Total Carbon by combustion method							
Total Carbon by Combustion	31.3		0.1	%	14-JUL-10	14-JUL-10	R1366723
Miscellaneous Parameters							
Mercury (Hg)-Total	0.0307		0.0050	mg/kg	14-JUL-10	03-AUG-10	R1411323
% Moisture	97.2		0.10	%		14-JUL-10	R1355623
Total Nitrogen by LECO	2.75		0.020	%	15-JUL-10	15-JUL-10	R1366883
Phosphorus, Total	510		100	mg/kg	16-JUL-10	16-JUL-10	R1369823
Particle Size Analysis: Hydrometer							
% Sand (2.0mm - 0.05mm)	1.5		1.0	%	14-JUL-10	16-JUL-10	R1368865
% Silt (0.05mm - 2um)	25.0		1.0	%	14-JUL-10	16-JUL-10	R1368865
% Clay (<2um)	73.5		1.0	%	14-JUL-10	16-JUL-10	R1368865
Texture	Clay				14-JUL-10	16-JUL-10	R1368865
Metals							
Aluminum (Al)	7950		5	mg/kg	14-JUL-10	15-JUL-10	R1362144
Antimony (Sb)	0.1		0.1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Arsenic (As)	2.4		0.1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Barium (Ba)	94.6		0.5	mg/kg	14-JUL-10	15-JUL-10	R1362144
Beryllium (Be)	0.3		0.1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Bismuth (Bi)	0.06		0.02	mg/kg	14-JUL-10	15-JUL-10	R1362144
Boron (B)	15		1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Cadmium (Cd)	0.32		0.02	mg/kg	14-JUL-10	15-JUL-10	R1362144
Calcium (Ca)	9100		100	mg/kg	14-JUL-10	15-JUL-10	R1362144
Cesium (Cs)	0.76		0.02	mg/kg	14-JUL-10	15-JUL-10	R1362144
Chromium (Cr)	32		1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Cobalt (Co)	7.78		0.02	mg/kg	14-JUL-10	15-JUL-10	R1362144
Copper (Cu)	46		1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Iron (Fe)	13000		30	mg/kg	14-JUL-10	15-JUL-10	R1362144
Lead (Pb)	4.3		0.2	mg/kg	14-JUL-10	15-JUL-10	R1362144
Magnesium (Mg)	3500		10	mg/kg	14-JUL-10	15-JUL-10	R1362144
Manganese (Mn)	245		0.5	mg/kg	14-JUL-10	15-JUL-10	R1362144
Molybdenum (Mo)	2.08		0.02	mg/kg	14-JUL-10	15-JUL-10	R1362144
Nickel (Ni)	28.5		0.5	mg/kg	14-JUL-10	15-JUL-10	R1362144
Phosphorus (P)	500		100	mg/kg	14-JUL-10	15-JUL-10	R1362144
Potassium (K)	1260		30	mg/kg	14-JUL-10	15-JUL-10	R1362144
Rubidium (Rb)	13.0		0.02	mg/kg	14-JUL-10	15-JUL-10	R1362144
Selenium (Se)	1.4		0.5	mg/kg	14-JUL-10	15-JUL-10	R1362144
Silver (Ag)	<0.1		0.1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Sodium (Na)	210		10	mg/kg	14-JUL-10	15-JUL-10	R1362144
Strontium (Sr)	21.5		0.1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Tellurium (Te)	<0.1		0.1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Thallium (Tl)	0.1		0.1	mg/kg	14-JUL-10	15-JUL-10	R1362144
Tin (Sn)	<5		5	mg/kg	14-JUL-10	15-JUL-10	R1362144
Titanium (Ti)	277		0.5	mg/kg	14-JUL-10	15-JUL-10	R1362144
Tungsten (W)	0.11		0.05	mg/kg	14-JUL-10	15-JUL-10	R1362144
Uranium (U)	1.80		0.02	mg/kg	14-JUL-10	15-JUL-10	R1362144
Vanadium (V)	29.9		0.5	mg/kg	14-JUL-10	15-JUL-10	R1362144
Zinc (Zn)	70		10	mg/kg	14-JUL-10	15-JUL-10	R1362144
Zirconium (Zr)	6.0		0.1	mg/kg	14-JUL-10	15-JUL-10	R1362144

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Internal Reference Material	Total Carbon by Combustion	G	L906873-1, -2, -3, -4, -6, -7, -8
Matrix Spike	Total Kjeldahl Nitrogen	MS-B	L906873-5

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACIDITY-LOW-WP	Water	Acidity	APHA Method 2310B
ALK-TOT-WP	Water	Alkalinity	APHA 2320B
BR-WT	Water	Bromide	EPA 300.0 (IC)
C-INORG-ORG-SK	Soil	Inorganic and Organic Carbon	SSSA (1996) P455-456

When carbonates are decomposed with acid in an open system, carbon dioxide is released to the atmosphere. The decrease in sample weight resulting from CO₂ loss is proportional to the carbonate content of the soil.

Reference:

Loeppert, R.H. and Suarez, D.L. 1996. Gravimetric Method for Loss of Carbon Dioxide. P. 455-456 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5

C-TOT-INORG-WP	Water	Total Inorganic Carbon	APHA 5310 B-Instrumental
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This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.

The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC.

TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.

C-TOT-LECO-SK	Soil	Total Carbon by combustion method	SSSA (1996) P. 973-974
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The sample is introduced into a quartz tube where it undergoes combustion at 900 °C in the presence of oxygen.

Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen.

This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.

Reference:

Nelson, D.W. and Sommers, L.E. 1996. Total Carbon, organic carbon and organic matter. P. 973-974 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5

C-TOT-ORG-WP	Water	Total Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
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This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.

The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC.

TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.

CHL/A,PHEO/A-ACET-WP	Water	Chlorophyll-a & Pheophytin-a	APHA 10200H, 1998-664/750NM
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Chlorophyll-a is filtered from the sample, then extracted with 90% (v/v) acetone. Absorbance is measured spectrophotometrically at 664 nm and 750 nm. The extract is then acidified, converting chlorophyll-a to pheophytin-a. Absorbance is determined again after acidification. The chlorophyll-a concentration is determined from the decrease in absorbance upon acidification. When a detection limit of 0.5 ug/L is required, the volume of sample filtered is doubled to 700mL.

Samples with an OD664 before/OD665 after acidification ratio (664b/665a) of 1.70 are considered to contain no pheophytin a and to be in excellent

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
CL-DIS-WP	Water	Chloride Dissolved	APHA4500/LACHAT
<p>physiological condition. Solutions of pure pheophytin show no reduction in OD665 upon acidification and have a 664b/665a ratio of 1.0 Thus, mixtures of chlorophyll a and pheophytin have absorption peak ratios ranging between 1.0 and 1.7. These ratios are based on the use of 90% acetone as solvent.</p>			
COL-TRU-WP	Water	True Colour	APHA, AWWA, WPCF
<p>The thiocyanate ion is liberated from mercuric thiocyanate by the formation of soluble mercuric chloride. In the presence of ferric ion, the free thiocyanate forms a highly colored ferric thiocyanate complex. The intensity of the complex is proportional to the original chloride concentration and is measured by a colorimeter at 480 nm.</p>			
CONSULT-BOD-CBOD-WP	Water	Carbonaceous BOD	APHA 5210 B-5 day Incub.-O2 electrode
<p>A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis.</p>			
EC-WP	Water	Conductivity	APHA 2510B
<p>Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.</p>			
ETL-HARDNESS-DIS-WP	Water	Hardness Calculated	Calculated
ETL-HARDNESS-TOT-WP	Water	Hardness Calculated	Calculated
HG-200.2-CVAF-WP	Soil	Mercury Total	EPA 7470A Rev 1,1994
<p>A hydrochloric acid/nitric acid and potassium persulphate block digestion is employed to oxidize the organomercury to inorganic mercury. After digestion, samples are analyzed using cold vapour techniques.</p>			
HG-D-CVAF-WP	Water	Mercury Dissolved	EPA245.7 V2.0
<p>Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.</p>			
HG-T-CVAF-WP	Water	Mercury Total	EPA245.7 V2.0
<p>Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.</p>			
MET-200.2-MS-WP	Soil	Metals	EPA 200.8/200.2 /BCMOE-S
<p>This analysis is carried out using procedures adapted from US EPA method 200.2. Sample preparation procedure for spectrochemical determination of total recoverable elements . Soil samples are dried (<60 C) and homogenized and a representative subsample of the dry material is digested. The digested samples are analyzed by ICPMS.</p>			
<p>The results are reported as mg/Kg dry weight or mg/Kg wet weight this is equivalent to ug/g dry weight or ug/g wet weight.</p>			
<p>Method Limitation: This method is not a total digestion technique. It is a very strong acid digestion that is intended to dissolve those metals that maybe environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not mobile in the environment. This method has known stability issues for determining Silicon.</p>			
MET-D-L-MS-WP	Water	Dissolved Metals by ICP-MS	U.S. EPA 200.8-DL
<p>Dissolved Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the Examination of Water and Wastewater method 3030B for filtration through a 0.45 um filter and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.</p>			
MET-T-L-MS-WP	Water	Total Metals by ICP-MS	U.S. EPA 200.8-TL

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
<p>Total Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the examination of Water and Wastewater Method 3030E and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.</p>			
MOIST-SK	Soil	Moisture Content	ASTM D2216-80
<p>The weighed portion of soil is placed in a 105°C oven overnight. The dried soil is allowed to cooled to room temperature, weighed and the % moisture is calculated.</p> <p>Reference: ASTM D2216-80</p>			
N-TOT-LECO-SK	Soil	Total Nitrogen by combustion method	SSSA (1996) p. 973-974
<p>The sample is introduced into a quartz tube where it undergoes combustion at 900 C in the presence of oxygen. Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen. This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.</p> <p>Reference: Bremner, J.M. 1996. Nitrogen - Total (Dumas Methods). P. 1088 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5</p>			
N-TOTKJ-WP	Water	Total Kjeldahl Nitrogen	Quickchem method 10-107-06-2-E Lachat
<p>Samples are digested with a sulphuric acid solution, cooled, diluted with water, and analyzed for ammonia. Total Kjeldahl nitrogen is the sum of free-ammonia and organic nitrogen compounds which are converted to ammonium sulphate through this digestion process. Analysis is performed by Flow Injection Analysis (FIA). The pH of the digested sample is raised to a known, basic pH by neutralization with a concentrated buffer solution. This neutralization converts the ammonium cation to ammonia. The ammonia produced is heated with salicylate and hypochlorite to produce blue colour which is proportional to the ammonia concentration.</p>			
N2N3-DIS-WP	Water	Nitrate + Nitrite Dissolved	APHA4500;2005/LACHAT;1997,1999
NH3-DIS-WP	Water	Ammonia Dissolved	LACHAT;2003
<p>Ammonia - Colourimetric using Salicylate-nitroprusside and hypochlorite, in an alkaline phosphate buffer.</p>			
P-TOT-SK	Soil	Total Phosphorus - HNO ₃ /HClO ₄ digestion	SSSA (1996) p. 870-872
<p>Phosphorous in soil is converted to soluble form by wet oxidation using a combination of nitric and perchloric acids. Perchloric acid oxidizes organic matter that interferes with analysis. Phosphorous in the extract is determined using ICP-AES.</p> <p>Reference :</p> <p>Kuo, S. 1996. Total Phosphorous, Digestion with Perchloric Acid p. 870-872 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5</p>			
P-TOTAL-WP	Water	Phosphorus, Total	APHA, 1998 P-T
<p>Samples are digested using a sulphuric acid-persulfate mixture to convert organic phosphorous to orthophosphate. The samples are analyzed by either the Flow Injection Analysis (FIA) or the Segmented Flow Analysis (SFA) method. The absorbance measured by the instrument is proportional to the concentration of orthophosphate in the sample, and is reported as phosphorous.</p>			
PH-WP	Water	pH	APHA 4500H
<p>pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.</p>			
PSA-1-SK	Soil	Particle Size Analysis: Hydrometer	CSSS (1993) P.508-509
<p>The hydrometer method is based on Stokes' Law which relates the radius of soil particles to the velocity of their sedimentation. Air-dried soil is wetted with a dispersing agent and then mixed with water in a sedimentation cylinder. The soil is allowed to settle and particle density readings(g/L) are taken after 40 seconds and 6 hours. These readings correspond to silt + clay and clay content respectively. Sand content is calculated by difference.</p> <p>Reference:</p>			

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
		Carter, M.R., 1993. Soil sampling and methods of analysis. Can. Soc. Soil Sci. Ottawa Ont. 508-509	
		Kalra, Y.P., Maynard, D.G. 1991. Methods manual for forest soil and plant analysis. Forestry Canada. p. 42-45.	
SILICATE-COL-VA	Water	Silicate by Colourimetric analysis	APHA 4500-SIO2 D.
		This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 D. "Silica". Silicate (molybdate-reactive silica) is determined by the molybdosilicate-heteropoly blue colourimetric method.	
SO4-DIS-WP	Water	Sulphate Dissolved	APHA4500/LACHAT
		The sample reacts with barium chloride in an acidic medium and precipitates the sulphate ion SO4-2, which forms barium sulphate crystals of uniform size. The turbidity produced by the sulphate suspension is measured by a colorimeter at 420 nm.	
SOLIDS-TDS-WP	Water	Total Dissolved Solids	APHA 2540
		The residue remaining in a prepared casserole after passing the sample through a 1.2 um Whatman GF/C glass microfibre filter and drying at 180 degrees C. Samples may be dried at 105 degrees C if the client specifically requests this drying temperature.	
SOLIDS-TOTSUS-WP	Water	Total Suspended Solids	APHA 2540
		The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C.	
TURBIDITY-WP	Water	Turbidity	APHA, 1998, 2130B
		A strong light beam is sent through a transparent tube containing the sample. Light that is reflected at 90 degrees to the axis by suspended particles is detected by the photocell. The electrical response is proportional to the sample turbidity.	

** 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
WP	ALS LABORATORY GROUP - WINNIPEG, MANITOBA, CANADA
SK	ALS LABORATORY GROUP - SASKATOON, SASKATCHEWAN, CANADA
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA
WT	ALS LABORATORY GROUP - WATERLOO, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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.



Quality Control Report

Workorder: L906873

Report Date: 02-SEP-10

Page 1 of 44

Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACIDITY-LOW-WP								
	Water							
Batch	R1361168							
WG1134412-1	CVS							
Acidity (as CaCO3)			106		%		85-115	14-JUL-10
WG1134412-2	DUP	L906318-3						
Acidity (as CaCO3)		<1.0	<1.0	RPD-NA	mg/L	N/A	20	14-JUL-10
WG1134412-3	DUP	L906861-2						
Acidity (as CaCO3)		<1.0	<1.0	RPD-NA	mg/L	N/A	20	14-JUL-10
ALK-TOT-WP								
	Water							
Batch	R1350283							
WG1132624-5	CVS							
Alkalinity, Total (as CaCO3)			103		%		85-115	12-JUL-10
WG1132624-6	DUP	L906898-2						
Alkalinity, Total (as CaCO3)		202	202		mg/L	0.0	20	12-JUL-10
Bicarbonate (HCO3)		246	246		mg/L	0.0	26	12-JUL-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	12-JUL-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	12-JUL-10
WG1132624-7	DUP	L907082-8						
Alkalinity, Total (as CaCO3)		111	111		mg/L	0.0	20	12-JUL-10
Bicarbonate (HCO3)		136	136		mg/L	0.0	26	12-JUL-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	12-JUL-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	12-JUL-10
BR-WT								
	Water							
Batch	R1362323							
WG1133966-3	LCS							
Bromide			98		%		75-125	14-JUL-10
WG1133966-4	LCSD	WG1133966-3						
Bromide		98	97		%	0.66	30	14-JUL-10
WG1133966-1	MB							
Bromide			<0.10		mg/L		0.1	14-JUL-10
C-TOT-INORG-WP								
	Water							
Batch	R1370423							
WG1135458-3	CCV							
Total Inorganic Carbon			103		%		80-120	12-JUL-10
WG1135458-2	CVS							
Total Inorganic Carbon			98		%		80-120	14-JUL-10
WG1135458-11	DUP	WG1135458-10						
Total Inorganic Carbon		10.2	10.5		mg/L	2.1	20	13-JUL-10
WG1135458-5	DUP	WG1135458-4						



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
C-TOT-INORG-WP		Water						
Batch	R1370423							
WG1135458-5	DUP	WG1135458-4						
Total Inorganic Carbon		<1.0	<1.0	RPD-NA	mg/L	N/A	20	12-JUL-10
WG1135458-7	DUP	WG1135458-6						
Total Inorganic Carbon		1.2	1.4	J	mg/L	0.2	4	12-JUL-10
WG1135458-9	DUP	WG1135458-8						
Total Inorganic Carbon		12.1	12.3		mg/L	1.6	20	13-JUL-10
WG1135458-1	MB							
Total Inorganic Carbon			<1.0		mg/L		1	12-JUL-10
C-TOT-ORG-WP		Water						
Batch	R1370423							
WG1135458-3	CCV							
Total Organic Carbon			102		%		63-138	12-JUL-10
WG1135458-2	CVS							
Total Organic Carbon			101		%		80-120	14-JUL-10
WG1135458-11	DUP	WG1135458-10						
Total Organic Carbon		7.9	7.6	J	mg/L	0.2	4	13-JUL-10
WG1135458-5	DUP	WG1135458-4						
Total Organic Carbon		73.9	73.9		mg/L	0.075	20	12-JUL-10
WG1135458-7	DUP	WG1135458-6						
Total Organic Carbon		10.4	10.2		mg/L	2.1	20	12-JUL-10
WG1135458-9	DUP	WG1135458-8						
Total Organic Carbon		19.2	19.0		mg/L	1.2	20	13-JUL-10
WG1135458-1	MB							
Total Organic Carbon			<1.0		mg/L		1	12-JUL-10
CHL/A,PHEO/A-ACET-WP		Water						
Batch	R1353923							
WG1133036-1	CVS							
Chlorophyll a			102		%		65-135	13-JUL-10
WG1133036-2	CVS							
Chlorophyll a			106		%		65-135	13-JUL-10
CL-DIS-WP		Water						
Batch	R1361286							
WG1134431-3	CCV							
Chloride (Cl) - Dissolved			99		%		85-115	14-JUL-10
WG1134431-2	CVS							
Chloride (Cl) - Dissolved			96		%		85-115	14-JUL-10
WG1134426-2	DUP	L906898-2						



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-DIS-WP								
	Water							
Batch	R1361286							
WG1134426-2	DUP	L906898-2						
Chloride (Cl) - Dissolved		40.9	41.6	J	mg/L	0.7	36	14-JUL-10
WG1134426-1	MB							
Chloride (Cl) - Dissolved			<9.0		mg/L		9	14-JUL-10
COL-TRU-WP								
	Water							
Batch	R1348083							
WG1132651-3	DUP	L906727-2						
Color, True		<5.0	<5.0	RPD-NA	T.C.U.	N/A	20	09-JUL-10
WG1132651-1	MB							
Color, True			<5.0		T.C.U.		5	09-JUL-10
CONSULT-BOD-CBOD-WP								
	Water							
Batch	R1362203							
WG1132174-3	DUP	L906861-1						
BOD Carbonaceous		<1.0	<1.0	RPD-NA	mg/L	N/A	20	15-JUL-10
WG1132174-2	IRM	61-GG						
BOD Carbonaceous			98		%		85-115	15-JUL-10
WG1132174-1	MB							
BOD Carbonaceous			<1.0		mg/L		1	15-JUL-10
EC-WP								
	Water							
Batch	R1350283							
WG1132624-2	CCV							
Conductivity			103		%		95-105	12-JUL-10
WG1132624-1	CVS							
Conductivity			99		%		90-110	12-JUL-10
WG1132624-6	DUP	L906898-2						
Conductivity		781	781		umhos/cm	0.0077	10	12-JUL-10
WG1132624-7	DUP	L907082-8						
Conductivity		212	212		umhos/cm	0.0	10	12-JUL-10
HG-D-CVAF-WP								
	Water							
Batch	R1388824							
WG1137638-2	DUP	L907120-4						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	15-JUL-10
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	15-JUL-10
WG1137641-2	LCS							
Mercury (Hg)-Dissolved			95		%		63-138	15-JUL-10
Mercury (Hg)-Dissolved			95		%		63-138	15-JUL-10
WG1137638-1	MB							



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-D-CVAF-WP								
	Water							
Batch	R138824							
WG1137638-1 MB								
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	15-JUL-10
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	15-JUL-10
WG1137641-1 MB								
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	15-JUL-10
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	15-JUL-10
WG1137638-3 MS		L907120-4						
Mercury (Hg)-Dissolved			99		%		70-130	15-JUL-10
Mercury (Hg)-Dissolved			99		%		70-130	15-JUL-10
HG-T-CVAF-WP								
	Water							
Batch	R1389507							
WG1137745-3 DUP		L906568-1						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	16-JUL-10
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	16-JUL-10
WG1137745-2 LCS								
Mercury (Hg)-Total			101		%		63-138	16-JUL-10
Mercury (Hg)-Total			101		%		63-138	16-JUL-10
WG1137745-1 MB								
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	16-JUL-10
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	16-JUL-10
WG1137745-4 MS		L906568-1						
Mercury (Hg)-Total			102		%		70-130	16-JUL-10
Mercury (Hg)-Total			102		%		70-130	16-JUL-10
MET-D-L-MS-WP								
	Water							
Batch	R1421107							
WG1146960-3 CCV								
Aluminum (Al)-Dissolved			97		%		90-110	06-AUG-10
Antimony (Sb)-Dissolved			98		%		90-110	06-AUG-10
Arsenic (As)-Dissolved			97		%		90-110	06-AUG-10
Barium (Ba)-Dissolved			98		%		90-110	06-AUG-10
Beryllium (Be)-Dissolved			103		%		90-110	06-AUG-10
Bismuth (Bi)-Dissolved			97		%		90-110	06-AUG-10
Boron (B)-Dissolved			97		%		90-110	06-AUG-10
Cadmium (Cd)-Dissolved			99		%		90-110	06-AUG-10
Calcium (Ca)-Dissolved			104		%		90-110	06-AUG-10
Cesium (Cs)-Dissolved			95		%		90-110	06-AUG-10



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 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1421107							
WG1146960-3 CCV								
Chromium (Cr)-Dissolved			102		%		90-110	06-AUG-10
Cobalt (Co)-Dissolved			101		%		90-110	06-AUG-10
Iron (Fe)-Dissolved			102		%		90-110	06-AUG-10
Lead (Pb)-Dissolved			100		%		90-110	06-AUG-10
Lithium (Li)-Dissolved			107		%		90-110	06-AUG-10
Magnesium (Mg)-Dissolved			99		%		90-110	06-AUG-10
Manganese (Mn)-Dissolved			101		%		90-110	06-AUG-10
Molybdenum (Mo)-Dissolved			96		%		90-110	06-AUG-10
Nickel (Ni)-Dissolved			100		%		90-110	06-AUG-10
Phosphorus (P)-Dissolved			100		%		90-110	06-AUG-10
Potassium (K)-Dissolved			100		%		90-110	06-AUG-10
Rubidium (Rb)-Dissolved			100		%		90-110	06-AUG-10
Selenium (Se)-Dissolved			97		%		90-110	06-AUG-10
Silicon (Si)-Dissolved			98		%		90-110	06-AUG-10
Silver (Ag)-Dissolved			97		%		90-110	06-AUG-10
Sodium (Na)-Dissolved			101		%		90-110	06-AUG-10
Strontium (Sr)-Dissolved			100		%		90-110	06-AUG-10
Tellurium (Te)-Dissolved			101		%		90-110	06-AUG-10
Thallium (Tl)-Dissolved			98		%		90-110	06-AUG-10
Thorium (Th)-Dissolved			92		%		63-138	06-AUG-10
Tin (Sn)-Dissolved			96		%		90-110	06-AUG-10
Titanium (Ti)-Dissolved			96		%		90-110	06-AUG-10
Tungsten (W)-Dissolved			99		%		90-110	06-AUG-10
Uranium (U)-Dissolved			95		%		90-110	06-AUG-10
Vanadium (V)-Dissolved			98		%		90-110	06-AUG-10
Zinc (Zn)-Dissolved			100		%		90-110	06-AUG-10
Zirconium (Zr)-Dissolved			95		%		90-110	06-AUG-10
WG1146960-1 CVS								
Aluminum (Al)-Dissolved			96		%		80-120	06-AUG-10
Antimony (Sb)-Dissolved			102		%		80-120	06-AUG-10
Arsenic (As)-Dissolved			98		%		80-120	06-AUG-10
Barium (Ba)-Dissolved			105		%		80-120	06-AUG-10
Beryllium (Be)-Dissolved			98		%		80-120	06-AUG-10
Bismuth (Bi)-Dissolved			103		%		80-120	06-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1421107							
WG1146960-1	CVS							
Boron (B)-Dissolved			101		%		80-120	06-AUG-10
Cadmium (Cd)-Dissolved			98		%		80-120	06-AUG-10
Calcium (Ca)-Dissolved			101		%		80-120	06-AUG-10
Cesium (Cs)-Dissolved			98		%		80-120	06-AUG-10
Chromium (Cr)-Dissolved			98		%		80-120	06-AUG-10
Cobalt (Co)-Dissolved			100		%		80-120	06-AUG-10
Iron (Fe)-Dissolved			99		%		80-120	06-AUG-10
Lead (Pb)-Dissolved			103		%		80-120	06-AUG-10
Lithium (Li)-Dissolved			97		%		80-120	06-AUG-10
Magnesium (Mg)-Dissolved			103		%		80-120	06-AUG-10
Manganese (Mn)-Dissolved			97		%		80-120	06-AUG-10
Molybdenum (Mo)-Dissolved			95		%		80-120	06-AUG-10
Nickel (Ni)-Dissolved			102		%		80-120	06-AUG-10
Phosphorus (P)-Dissolved			98		%		80-120	06-AUG-10
Potassium (K)-Dissolved			105		%		80-120	06-AUG-10
Rubidium (Rb)-Dissolved			96		%		80-120	06-AUG-10
Selenium (Se)-Dissolved			99		%		80-120	06-AUG-10
Silicon (Si)-Dissolved			98		%		63-138	06-AUG-10
Silver (Ag)-Dissolved			95		%		63-138	06-AUG-10
Sodium (Na)-Dissolved			103		%		80-120	06-AUG-10
Strontium (Sr)-Dissolved			96		%		80-120	06-AUG-10
Tellurium (Te)-Dissolved			100		%		80-120	06-AUG-10
Thallium (Tl)-Dissolved			100		%		80-120	06-AUG-10
Thorium (Th)-Dissolved			100		%		63-138	06-AUG-10
Tin (Sn)-Dissolved			92		%		80-120	06-AUG-10
Titanium (Ti)-Dissolved			93		%		80-120	06-AUG-10
Tungsten (W)-Dissolved			100		%		80-120	06-AUG-10
Uranium (U)-Dissolved			99		%		80-120	06-AUG-10
Vanadium (V)-Dissolved			97		%		80-120	06-AUG-10
Zinc (Zn)-Dissolved			99		%		80-120	06-AUG-10
Zirconium (Zr)-Dissolved			93		%		80-120	06-AUG-10
WG1146960-2	CVS							
Aluminum (Al)-Dissolved			106		%		80-120	06-AUG-10
Antimony (Sb)-Dissolved			104		%		80-120	06-AUG-10



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 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1421107							
WG1146960-2	CVS							
Arsenic (As)-Dissolved			99		%		80-120	06-AUG-10
Barium (Ba)-Dissolved			101		%		80-120	06-AUG-10
Beryllium (Be)-Dissolved			101		%		80-120	06-AUG-10
Bismuth (Bi)-Dissolved			103		%		80-120	06-AUG-10
Boron (B)-Dissolved			100		%		80-120	06-AUG-10
Cadmium (Cd)-Dissolved			103		%		80-120	06-AUG-10
Calcium (Ca)-Dissolved			101		%		80-120	06-AUG-10
Cesium (Cs)-Dissolved			101		%		80-120	06-AUG-10
Chromium (Cr)-Dissolved			100		%		80-120	06-AUG-10
Cobalt (Co)-Dissolved			105		%		80-120	06-AUG-10
Iron (Fe)-Dissolved			103		%		80-120	06-AUG-10
Lead (Pb)-Dissolved			104		%		80-120	06-AUG-10
Lithium (Li)-Dissolved			95		%		80-120	06-AUG-10
Magnesium (Mg)-Dissolved			97		%		80-120	06-AUG-10
Manganese (Mn)-Dissolved			100		%		80-120	06-AUG-10
Molybdenum (Mo)-Dissolved			101		%		80-120	06-AUG-10
Nickel (Ni)-Dissolved			100		%		80-120	06-AUG-10
Phosphorus (P)-Dissolved			99		%		80-120	06-AUG-10
Potassium (K)-Dissolved			101		%		80-120	06-AUG-10
Rubidium (Rb)-Dissolved			109		%		80-120	06-AUG-10
Selenium (Se)-Dissolved			97		%		80-120	06-AUG-10
Silicon (Si)-Dissolved			102		%		63-138	06-AUG-10
Silver (Ag)-Dissolved			100		%		63-138	06-AUG-10
Sodium (Na)-Dissolved			98		%		80-120	06-AUG-10
Strontium (Sr)-Dissolved			104		%		80-120	06-AUG-10
Tellurium (Te)-Dissolved			98		%		80-120	06-AUG-10
Thallium (Tl)-Dissolved			103		%		80-120	06-AUG-10
Thorium (Th)-Dissolved			103		%		63-138	06-AUG-10
Tin (Sn)-Dissolved			99		%		80-120	06-AUG-10
Titanium (Ti)-Dissolved			94		%		80-120	06-AUG-10
Tungsten (W)-Dissolved			103		%		80-120	06-AUG-10
Uranium (U)-Dissolved			103		%		80-120	06-AUG-10
Vanadium (V)-Dissolved			102		%		80-120	06-AUG-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1421107							
WG1146960-2	CVS							
Zinc (Zn)-Dissolved			100		%		80-120	06-AUG-10
Zirconium (Zr)-Dissolved			102		%		80-120	06-AUG-10
WG1146953-3	DUP		WG1146953-2					
Aluminum (Al)-Dissolved		0.0031	0.0029	J	mg/L	0.0001	0.008	07-AUG-10
Antimony (Sb)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Arsenic (As)-Dissolved		0.00110	0.00107	J	mg/L	0.00003	0.0008	07-AUG-10
Barium (Ba)-Dissolved		0.0150	0.0152		mg/L	1.5	20	07-AUG-10
Beryllium (Be)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Bismuth (Bi)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Boron (B)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	07-AUG-10
Cadmium (Cd)-Dissolved		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	07-AUG-10
Calcium (Ca)-Dissolved		16.6	16.2		mg/L	2.3	20	07-AUG-10
Cesium (Cs)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	07-AUG-10
Chromium (Cr)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Cobalt (Co)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Iron (Fe)-Dissolved		0.065	0.063	J	mg/L	0.002	0.04	07-AUG-10
Lead (Pb)-Dissolved		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	07-AUG-10
Lithium (Li)-Dissolved		0.0047	0.0041	J	mg/L	0.0007	0.008	07-AUG-10
Magnesium (Mg)-Dissolved		5.50	5.34		mg/L	3.1	20	07-AUG-10
Manganese (Mn)-Dissolved		0.00047	0.00046	J	mg/L	0.00001	0.0008	07-AUG-10
Molybdenum (Mo)-Dissolved		0.00017	0.00017	J	mg/L	0.00000	0.0004	07-AUG-10
Nickel (Ni)-Dissolved		0.00069	0.00057	J	mg/L	0.00012	0.0008	07-AUG-10
Phosphorus (P)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	20	07-AUG-10
Potassium (K)-Dissolved		2.18	2.07		mg/L	5.5	20	07-AUG-10
Rubidium (Rb)-Dissolved		0.00193	0.00196	J	mg/L	0.00003	0.0008	07-AUG-10
Selenium (Se)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	07-AUG-10
Silicon (Si)-Dissolved		1.98	2.11		mg/L	6.2	20	07-AUG-10
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	07-AUG-10
Sodium (Na)-Dissolved		4.52	4.44		mg/L	1.7	20	07-AUG-10
Strontium (Sr)-Dissolved		0.0362	0.0365		mg/L	1.0	20	07-AUG-10
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	07-AUG-10
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	07-AUG-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1421107							
WG1146953-3	DUP	WG1146953-2						
Tin (Sn)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Titanium (Ti)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Tungsten (W)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	07-AUG-10
Uranium (U)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	07-AUG-10
Vanadium (V)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	07-AUG-10
Zinc (Zn)-Dissolved		0.0091	0.0088	J	mg/L	0.0004	0.008	07-AUG-10
Zirconium (Zr)-Dissolved		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	07-AUG-10
WG1146953-4	LCS							
Aluminum (Al)-Dissolved			94		%		80-120	07-AUG-10
Antimony (Sb)-Dissolved			100		%		80-120	07-AUG-10
Arsenic (As)-Dissolved			99		%		80-120	07-AUG-10
Barium (Ba)-Dissolved			102		%		80-120	07-AUG-10
Beryllium (Be)-Dissolved			103		%		80-120	07-AUG-10
Bismuth (Bi)-Dissolved			101		%		80-120	07-AUG-10
Boron (B)-Dissolved			103		%		80-120	07-AUG-10
Cadmium (Cd)-Dissolved			96		%		80-120	07-AUG-10
Calcium (Ca)-Dissolved			95		%		80-120	07-AUG-10
Cesium (Cs)-Dissolved			100		%		80-120	07-AUG-10
Chromium (Cr)-Dissolved			101		%		80-120	07-AUG-10
Cobalt (Co)-Dissolved			102		%		80-120	07-AUG-10
Iron (Fe)-Dissolved			111		%		80-120	07-AUG-10
Lead (Pb)-Dissolved			97		%		80-120	07-AUG-10
Lithium (Li)-Dissolved			98		%		80-120	07-AUG-10
Magnesium (Mg)-Dissolved			102		%		80-120	07-AUG-10
Manganese (Mn)-Dissolved			99		%		80-120	07-AUG-10
Molybdenum (Mo)-Dissolved			100		%		80-120	07-AUG-10
Nickel (Ni)-Dissolved			98		%		80-120	07-AUG-10
Phosphorus (P)-Dissolved			106		%		80-120	07-AUG-10
Potassium (K)-Dissolved			104		%		80-120	07-AUG-10
Rubidium (Rb)-Dissolved			97		%		80-120	07-AUG-10
Selenium (Se)-Dissolved			100		%		80-120	07-AUG-10
Silicon (Si)-Dissolved			107		%		80-120	07-AUG-10
Silver (Ag)-Dissolved			96		%		80-120	07-AUG-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1421107							
WG1146953-4	LCS							
Sodium (Na)-Dissolved			102		%		80-120	07-AUG-10
Strontium (Sr)-Dissolved			96		%		80-120	07-AUG-10
Tellurium (Te)-Dissolved			99		%		80-120	07-AUG-10
Thallium (Tl)-Dissolved			104		%		80-120	07-AUG-10
Thorium (Th)-Dissolved			93		%		80-120	07-AUG-10
Tin (Sn)-Dissolved			98		%		80-120	07-AUG-10
Titanium (Ti)-Dissolved			99		%		80-120	07-AUG-10
Tungsten (W)-Dissolved			99		%		80-120	07-AUG-10
Uranium (U)-Dissolved			93		%		80-120	07-AUG-10
Vanadium (V)-Dissolved			102		%		80-120	07-AUG-10
Zinc (Zn)-Dissolved			101		%		80-120	07-AUG-10
Zirconium (Zr)-Dissolved			98		%		80-120	07-AUG-10
WG1146953-1	MB							
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.002	07-AUG-10
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Arsenic (As)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Boron (B)-Dissolved			<0.010		mg/L		0.01	07-AUG-10
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.00001	07-AUG-10
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	07-AUG-10
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Chromium (Cr)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	07-AUG-10
Lead (Pb)-Dissolved			<0.000090		mg/L		0.00009	07-AUG-10
Lithium (Li)-Dissolved			<0.0020		mg/L		0.002	07-AUG-10
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.01	07-AUG-10
Manganese (Mn)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0001	07-AUG-10
Nickel (Ni)-Dissolved			<0.00020		mg/L		0.0002	07-AUG-10
Phosphorus (P)-Dissolved			<0.10		mg/L		0.1	07-AUG-10
Potassium (K)-Dissolved			<0.020		mg/L		0.02	07-AUG-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch R1421107								
WG1146953-1 MB								
	Rubidium (Rb)-Dissolved		<0.00020		mg/L		0.0002	07-AUG-10
	Selenium (Se)-Dissolved		<0.0010		mg/L		0.001	07-AUG-10
	Silicon (Si)-Dissolved		<0.050		mg/L		0.05	07-AUG-10
	Silver (Ag)-Dissolved		<0.00010		mg/L		0.0001	07-AUG-10
	Sodium (Na)-Dissolved		<0.020		mg/L		0.02	07-AUG-10
	Strontium (Sr)-Dissolved		<0.00010		mg/L		0.0001	07-AUG-10
	Tellurium (Te)-Dissolved		<0.00020		mg/L		0.0002	07-AUG-10
	Thallium (Tl)-Dissolved		<0.00010		mg/L		0.0001	07-AUG-10
	Thorium (Th)-Dissolved		<0.00010		mg/L		0.0001	07-AUG-10
	Tin (Sn)-Dissolved		<0.00020		mg/L		0.0002	07-AUG-10
	Titanium (Ti)-Dissolved		<0.00020		mg/L		0.0002	07-AUG-10
	Tungsten (W)-Dissolved		<0.0010		mg/L		0.001	07-AUG-10
	Uranium (U)-Dissolved		<0.00010		mg/L		0.0001	07-AUG-10
	Vanadium (V)-Dissolved		<0.00020		mg/L		0.0002	07-AUG-10
	Zinc (Zn)-Dissolved		<0.0020		mg/L		0.002	07-AUG-10
	Zirconium (Zr)-Dissolved		<0.00040		mg/L		0.0004	07-AUG-10
Batch R1439889								
WG1150660-4 CCV								
	Copper (Cu)-Dissolved		101		%		90-110	13-AUG-10
WG1150660-2 CVS								
	Copper (Cu)-Dissolved		103		%		80-120	13-AUG-10
WG1150660-3 CVS								
	Copper (Cu)-Dissolved		99		%		80-120	13-AUG-10
MET-T-L-MS-WP		Water						
Batch R1355923								
WG1133808-3 CCV								
	Aluminum (Al)-Total		97		%		90-110	13-JUL-10
	Antimony (Sb)-Total		100		%		90-110	13-JUL-10
	Arsenic (As)-Total		100		%		90-110	13-JUL-10
	Barium (Ba)-Total		100		%		90-110	13-JUL-10
	Beryllium (Be)-Total		107		%		90-110	13-JUL-10
	Bismuth (Bi)-Total		101		%		90-110	13-JUL-10
	Boron (B)-Total		102		%		90-110	13-JUL-10
	Cadmium (Cd)-Total		100		%		90-110	13-JUL-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1355923							
WG1133808-3	CCV							
Calcium (Ca)-Total			103		%		90-110	13-JUL-10
Cesium (Cs)-Total			98		%		90-110	13-JUL-10
Chromium (Cr)-Total			101		%		90-110	13-JUL-10
Cobalt (Co)-Total			97		%		90-110	13-JUL-10
Copper (Cu)-Total			101		%		90-110	13-JUL-10
Iron (Fe)-Total			98		%		90-110	13-JUL-10
Lead (Pb)-Total			102		%		90-110	13-JUL-10
Lithium (Li)-Total			106		%		90-110	13-JUL-10
Magnesium (Mg)-Total			97		%		90-110	13-JUL-10
Manganese (Mn)-Total			93		%		90-110	13-JUL-10
Molybdenum (Mo)-Total			98		%		90-110	13-JUL-10
Nickel (Ni)-Total			97		%		90-110	13-JUL-10
Phosphorus (P)-Total			101		%		90-110	13-JUL-10
Potassium (K)-Total			100		%		90-110	13-JUL-10
Rubidium (Rb)-Total			97		%		90-110	13-JUL-10
Selenium (Se)-Total			100		%		90-110	13-JUL-10
Silicon (Si)-Total			97		%		90-110	13-JUL-10
Silver (Ag)-Total			98		%		90-110	13-JUL-10
Sodium (Na)-Total			96		%		90-110	13-JUL-10
Strontium (Sr)-Total			96		%		90-110	13-JUL-10
Tellurium (Te)-Total			98		%		90-110	13-JUL-10
Thallium (Tl)-Total			99		%		90-110	13-JUL-10
Thorium (Th)-Total			100		%		63-138	13-JUL-10
Tin (Sn)-Total			98		%		90-110	13-JUL-10
Titanium (Ti)-Total			102		%		90-110	13-JUL-10
Tungsten (W)-Total			100		%		90-110	13-JUL-10
Uranium (U)-Total			99		%		90-110	13-JUL-10
Vanadium (V)-Total			96		%		90-110	13-JUL-10
Zinc (Zn)-Total			99		%		90-110	13-JUL-10
Zirconium (Zr)-Total			97		%		90-110	13-JUL-10
WG1133808-1	CVS							
Aluminum (Al)-Total			98		%		63-138	13-JUL-10
Antimony (Sb)-Total			101		%		63-138	13-JUL-10
Arsenic (As)-Total			98		%		63-138	13-JUL-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1355923							
WG1133808-1	CVS							
Barium (Ba)-Total			100		%		63-138	13-JUL-10
Beryllium (Be)-Total			96		%		63-138	13-JUL-10
Bismuth (Bi)-Total			99		%		63-138	13-JUL-10
Boron (B)-Total			99		%		63-138	13-JUL-10
Cadmium (Cd)-Total			96		%		63-138	13-JUL-10
Calcium (Ca)-Total			101		%		63-138	13-JUL-10
Cesium (Cs)-Total			97		%		63-138	13-JUL-10
Chromium (Cr)-Total			96		%		63-138	13-JUL-10
Cobalt (Co)-Total			93		%		63-138	13-JUL-10
Copper (Cu)-Total			101		%		63-138	13-JUL-10
Iron (Fe)-Total			95		%		63-138	13-JUL-10
Lead (Pb)-Total			100		%		63-138	13-JUL-10
Lithium (Li)-Total			94		%		63-138	13-JUL-10
Magnesium (Mg)-Total			102		%		63-138	13-JUL-10
Manganese (Mn)-Total			97		%		63-138	13-JUL-10
Molybdenum (Mo)-Total			98		%		63-138	13-JUL-10
Nickel (Ni)-Total			97		%		63-138	13-JUL-10
Phosphorus (P)-Total			97		%		63-138	13-JUL-10
Potassium (K)-Total			99		%		63-138	13-JUL-10
Rubidium (Rb)-Total			92		%		63-138	13-JUL-10
Selenium (Se)-Total			99		%		63-138	13-JUL-10
Silicon (Si)-Total			100		%		63-138	13-JUL-10
Silver (Ag)-Total			97		%		63-138	13-JUL-10
Sodium (Na)-Total			97		%		63-138	13-JUL-10
Strontium (Sr)-Total			94		%		63-138	13-JUL-10
Tellurium (Te)-Total			102		%		63-138	13-JUL-10
Thallium (Tl)-Total			98		%		63-138	13-JUL-10
Thorium (Th)-Total			98		%		63-138	13-JUL-10
Tin (Sn)-Total			96		%		63-138	13-JUL-10
Titanium (Ti)-Total			96		%		63-138	13-JUL-10
Tungsten (W)-Total			99		%		63-138	13-JUL-10
Uranium (U)-Total			99		%		63-138	13-JUL-10
Vanadium (V)-Total			93		%		63-138	13-JUL-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1355923							
WG1133808-1	CVS							
Zinc (Zn)-Total			98		%		63-138	13-JUL-10
Zirconium (Zr)-Total			95		%		63-138	13-JUL-10
WG1133808-2	CVS							
Aluminum (Al)-Total			104		%		63-138	13-JUL-10
Antimony (Sb)-Total			102		%		63-138	13-JUL-10
Arsenic (As)-Total			102		%		63-138	13-JUL-10
Barium (Ba)-Total			102		%		63-138	13-JUL-10
Beryllium (Be)-Total			96		%		63-138	13-JUL-10
Bismuth (Bi)-Total			101		%		63-138	13-JUL-10
Boron (B)-Total			104		%		63-138	13-JUL-10
Cadmium (Cd)-Total			101		%		63-138	13-JUL-10
Calcium (Ca)-Total			103		%		63-138	13-JUL-10
Cesium (Cs)-Total			100		%		63-138	13-JUL-10
Chromium (Cr)-Total			107		%		63-138	13-JUL-10
Cobalt (Co)-Total			102		%		63-138	13-JUL-10
Copper (Cu)-Total			102		%		63-138	13-JUL-10
Iron (Fe)-Total			101		%		63-138	13-JUL-10
Lead (Pb)-Total			102		%		63-138	13-JUL-10
Lithium (Li)-Total			100		%		63-138	13-JUL-10
Magnesium (Mg)-Total			99		%		63-138	13-JUL-10
Manganese (Mn)-Total			105		%		63-138	13-JUL-10
Molybdenum (Mo)-Total			103		%		63-138	13-JUL-10
Nickel (Ni)-Total			100		%		63-138	13-JUL-10
Phosphorus (P)-Total			100		%		63-138	13-JUL-10
Potassium (K)-Total			101		%		63-138	13-JUL-10
Rubidium (Rb)-Total			100		%		63-138	13-JUL-10
Selenium (Se)-Total			100		%		63-138	13-JUL-10
Silicon (Si)-Total			106		%		63-138	13-JUL-10
Silver (Ag)-Total			99		%		63-138	13-JUL-10
Sodium (Na)-Total			103		%		63-138	13-JUL-10
Strontium (Sr)-Total			100		%		63-138	13-JUL-10
Tellurium (Te)-Total			99		%		63-138	13-JUL-10
Thallium (Tl)-Total			100		%		63-138	13-JUL-10
Thorium (Th)-Total			99		%		63-138	13-JUL-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1355923							
WG1133808-2	CVS							
Tin (Sn)-Total			101		%		63-138	13-JUL-10
Titanium (Ti)-Total			100		%		63-138	13-JUL-10
Tungsten (W)-Total			103		%		63-138	13-JUL-10
Uranium (U)-Total			102		%		63-138	13-JUL-10
Vanadium (V)-Total			104		%		63-138	13-JUL-10
Zinc (Zn)-Total			100		%		63-138	13-JUL-10
Zirconium (Zr)-Total			103		%		63-138	13-JUL-10
WG1133066-4	DUP		WG1133066-3					
Aluminum (Al)-Total		0.0099	0.0104	J	mg/L	0.0005	0.02	13-JUL-10
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	13-JUL-10
Arsenic (As)-Total		0.00119	0.00117	J	mg/L	0.00002	0.0008	13-JUL-10
Barium (Ba)-Total		0.0171	0.0164		mg/L	4.2	20	13-JUL-10
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	13-JUL-10
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	13-JUL-10
Boron (B)-Total		0.010	0.010	J	mg/L	0.000	0.04	13-JUL-10
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	13-JUL-10
Calcium (Ca)-Total		19.3	19.3		mg/L	0.39	20	13-JUL-10
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	13-JUL-10
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	13-JUL-10
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	13-JUL-10
Copper (Cu)-Total		0.00058	0.00062	J	mg/L	0.00003	0.0008	13-JUL-10
Iron (Fe)-Total		0.237	0.238		mg/L	0.47	20	13-JUL-10
Lead (Pb)-Total		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	13-JUL-10
Lithium (Li)-Total		0.0031	0.0044	J	mg/L	0.0013	0.008	13-JUL-10
Magnesium (Mg)-Total		5.71	5.77		mg/L	1.0	20	13-JUL-10
Manganese (Mn)-Total		0.0216	0.0205		mg/L	5.2	20	13-JUL-10
Molybdenum (Mo)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	13-JUL-10
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	13-JUL-10
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	20	13-JUL-10
Potassium (K)-Total		2.38	2.39		mg/L	0.58	20	13-JUL-10
Rubidium (Rb)-Total		0.00205	0.00209		mg/L	1.9	20	13-JUL-10
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	13-JUL-10
Silicon (Si)-Total		2.45	2.33		mg/L	5.0	20	13-JUL-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1355923							
WG1133066-4 DUP		WG1133066-3						
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	13-JUL-10
Sodium (Na)-Total		4.93	4.72		mg/L	4.5	20	13-JUL-10
Strontium (Sr)-Total		0.0379	0.0382		mg/L	0.80	20	13-JUL-10
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	13-JUL-10
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	13-JUL-10
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	13-JUL-10
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	13-JUL-10
Titanium (Ti)-Total		0.00038	0.00039	J	mg/L	0.00001	0.0008	13-JUL-10
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	13-JUL-10
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	13-JUL-10
Vanadium (V)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	13-JUL-10
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	13-JUL-10
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	13-JUL-10
WG1133066-6 DUP		WG1133066-5						
Aluminum (Al)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	13-JUL-10
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	13-JUL-10
Arsenic (As)-Total		0.0109	0.0106		mg/L	2.0	20	13-JUL-10
Barium (Ba)-Total		0.0143	0.0140		mg/L	1.9	20	13-JUL-10
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	13-JUL-10
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	13-JUL-10
Boron (B)-Total		0.356	0.366		mg/L	2.8	20	13-JUL-10
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	13-JUL-10
Calcium (Ca)-Total		55.2	57.3		mg/L	3.7	20	13-JUL-10
Cesium (Cs)-Total		0.00141	0.00139		mg/L	1.3	20	13-JUL-10
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	13-JUL-10
Cobalt (Co)-Total		0.00026	0.00027	J	mg/L	0.00001	0.0008	13-JUL-10
Copper (Cu)-Total		0.00251	0.00241		mg/L	4.0	20	13-JUL-10
Iron (Fe)-Total		0.171	0.161	J	mg/L	0.011	0.08	13-JUL-10
Lead (Pb)-Total		0.00134	0.00134		mg/L	0.45	20	13-JUL-10
Lithium (Li)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	13-JUL-10
Magnesium (Mg)-Total		8.37	8.04		mg/L	4.0	20	13-JUL-10
Manganese (Mn)-Total		0.0733	0.0705		mg/L	4.0	20	13-JUL-10
Molybdenum (Mo)-Total		0.00048	0.00048	J	mg/L	0.00000	0.0008	13-JUL-10



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 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILLOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1355923							
WG1133066-6	DUP	WG1133066-5						
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	13-JUL-10
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	20	13-JUL-10
Potassium (K)-Total		3.12	3.06		mg/L	1.7	20	13-JUL-10
Rubidium (Rb)-Total		0.00151	0.00150	J	mg/L	0.00001	0.0008	13-JUL-10
Selenium (Se)-Total		0.0013	0.0012	J	mg/L	0.0001	0.004	13-JUL-10
Silicon (Si)-Total		5.15	5.31		mg/L	3.1	20	13-JUL-10
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	13-JUL-10
Sodium (Na)-Total		99.3	101		mg/L	1.7	20	13-JUL-10
Strontium (Sr)-Total		0.439	0.437		mg/L	0.52	20	13-JUL-10
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	13-JUL-10
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	13-JUL-10
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	13-JUL-10
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	13-JUL-10
Titanium (Ti)-Total		0.00092	0.00082	J	mg/L	0.00010	0.0008	13-JUL-10
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	13-JUL-10
Uranium (U)-Total		0.00036	0.00036	J	mg/L	0.00001	0.0004	13-JUL-10
Vanadium (V)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	13-JUL-10
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	13-JUL-10
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	13-JUL-10
WG1133066-2	LCS							
Aluminum (Al)-Total			106		%		80-120	13-JUL-10
Antimony (Sb)-Total			106		%		80-120	13-JUL-10
Arsenic (As)-Total			105		%		80-120	13-JUL-10
Barium (Ba)-Total			103		%		80-120	13-JUL-10
Beryllium (Be)-Total			109		%		80-120	13-JUL-10
Bismuth (Bi)-Total			105		%		80-120	13-JUL-10
Boron (B)-Total			104		%		80-120	13-JUL-10
Cadmium (Cd)-Total			102		%		80-120	13-JUL-10
Calcium (Ca)-Total			106		%		80-120	13-JUL-10
Cesium (Cs)-Total			99		%		80-120	13-JUL-10
Chromium (Cr)-Total			108		%		80-120	13-JUL-10
Cobalt (Co)-Total			104		%		80-120	13-JUL-10
Copper (Cu)-Total			105		%		80-120	13-JUL-10



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Contact: CLIFF SAMOILLOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1355923							
WG1133066-2	LCS							
Iron (Fe)-Total			103		%		80-120	13-JUL-10
Lead (Pb)-Total			103		%		80-120	13-JUL-10
Lithium (Li)-Total			107		%		80-120	13-JUL-10
Magnesium (Mg)-Total			109		%		80-120	13-JUL-10
Manganese (Mn)-Total			98		%		80-120	13-JUL-10
Molybdenum (Mo)-Total			105		%		80-120	13-JUL-10
Nickel (Ni)-Total			105		%		80-120	13-JUL-10
Phosphorus (P)-Total			109		%		80-120	13-JUL-10
Potassium (K)-Total			106		%		80-120	13-JUL-10
Rubidium (Rb)-Total			103		%		80-120	13-JUL-10
Selenium (Se)-Total			103		%		80-120	13-JUL-10
Silicon (Si)-Total			110		%		80-120	13-JUL-10
Silver (Ag)-Total			103		%		80-120	13-JUL-10
Sodium (Na)-Total			110		%		80-120	13-JUL-10
Strontium (Sr)-Total			102		%		80-120	13-JUL-10
Tellurium (Te)-Total			107		%		80-120	13-JUL-10
Thallium (Tl)-Total			104		%		80-120	13-JUL-10
Thorium (Th)-Total			104		%		63-138	13-JUL-10
Tin (Sn)-Total			105		%		80-120	13-JUL-10
Titanium (Ti)-Total			107		%		80-120	13-JUL-10
Tungsten (W)-Total			101		%		80-120	13-JUL-10
Uranium (U)-Total			103		%		80-120	13-JUL-10
Vanadium (V)-Total			108		%		80-120	13-JUL-10
Zinc (Zn)-Total			103		%		80-120	13-JUL-10
Zirconium (Zr)-Total			101		%		80-120	13-JUL-10
WG1133066-1	MB							
Aluminum (Al)-Total			<0.0050		mg/L		0.005	13-JUL-10
Antimony (Sb)-Total			<0.00020		mg/L		0.0002	13-JUL-10
Arsenic (As)-Total			<0.00020		mg/L		0.0002	13-JUL-10
Barium (Ba)-Total			<0.00020		mg/L		0.0002	13-JUL-10
Beryllium (Be)-Total			<0.00020		mg/L		0.0002	13-JUL-10
Bismuth (Bi)-Total			<0.00020		mg/L		0.0002	13-JUL-10
Boron (B)-Total			<0.010		mg/L		0.01	13-JUL-10
Cadmium (Cd)-Total			<0.000010		mg/L		0.00001	13-JUL-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1355923							
WG1133066-1 MB								
Calcium (Ca)-Total			<0.10		mg/L		0.1	13-JUL-10
Cesium (Cs)-Total			<0.00010		mg/L		0.0001	13-JUL-10
Chromium (Cr)-Total			<0.0010		mg/L		0.001	13-JUL-10
Cobalt (Co)-Total			<0.00020		mg/L		0.0002	13-JUL-10
Copper (Cu)-Total			<0.00020		mg/L		0.0002	13-JUL-10
Iron (Fe)-Total			<0.020		mg/L		0.02	13-JUL-10
Lead (Pb)-Total			<0.000090		mg/L		0.00009	13-JUL-10
Lithium (Li)-Total			<0.0020		mg/L		0.002	13-JUL-10
Magnesium (Mg)-Total			<0.010		mg/L		0.01	13-JUL-10
Manganese (Mn)-Total			<0.00030		mg/L		0.0003	13-JUL-10
Molybdenum (Mo)-Total			<0.00020		mg/L		0.0002	13-JUL-10
Nickel (Ni)-Total			<0.0020		mg/L		0.002	13-JUL-10
Phosphorus (P)-Total			<0.20		mg/L		0.2	13-JUL-10
Potassium (K)-Total			<0.020		mg/L		0.02	13-JUL-10
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	13-JUL-10
Selenium (Se)-Total			<0.0010		mg/L		0.001	13-JUL-10
Silicon (Si)-Total			<0.050		mg/L		0.05	13-JUL-10
Silver (Ag)-Total			<0.00010		mg/L		0.0001	13-JUL-10
Sodium (Na)-Total			<0.030		mg/L		0.03	13-JUL-10
Strontium (Sr)-Total			<0.00010		mg/L		0.0001	13-JUL-10
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	13-JUL-10
Thallium (Tl)-Total			<0.00010		mg/L		0.0001	13-JUL-10
Thorium (Th)-Total			<0.00010		mg/L		0.0001	13-JUL-10
Tin (Sn)-Total			<0.00020		mg/L		0.0002	13-JUL-10
Titanium (Ti)-Total			<0.00020		mg/L		0.0002	13-JUL-10
Tungsten (W)-Total			<0.0010		mg/L		0.001	13-JUL-10
Uranium (U)-Total			<0.00010		mg/L		0.0001	13-JUL-10
Vanadium (V)-Total			<0.00020		mg/L		0.0002	13-JUL-10
Zinc (Zn)-Total			<0.0050		mg/L		0.005	13-JUL-10
Zirconium (Zr)-Total			<0.00040		mg/L		0.0004	13-JUL-10

N-TOTKJ-WP **Water**



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
N-TOTKJ-WP								
	Water							
Batch	R1349903							
WG1133037-2	CCV							
Total Kjeldahl Nitrogen			95		%		90-110	12-JUL-10
WG1133037-1	CVS							
Total Kjeldahl Nitrogen			98		%		90-110	12-JUL-10
WG1132229-4	DUP	L906816-1						
Total Kjeldahl Nitrogen		0.36	0.42	J	mg/L	0.06	0.8	12-JUL-10
WG1132229-6	DUP	L906827-2						
Total Kjeldahl Nitrogen		1.83	1.93	J	mg/L	0.10	0.8	12-JUL-10
WG1132229-2	LCS							
Total Kjeldahl Nitrogen			96		%		75-125	12-JUL-10
WG1132229-1	MB							
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	12-JUL-10
WG1132229-3	MS	L906816-1						
Total Kjeldahl Nitrogen			105		%		70-130	12-JUL-10
WG1132229-5	MS	L906827-2						
Total Kjeldahl Nitrogen			N/A	MS-B	%		-	12-JUL-10
N2N3-DIS-WP								
	Water							
Batch	R1399020							
WG1139153-3	CCV							
Nitrate+Nitrite-N - Dissolved			100		%		90-110	23-JUL-10
WG1139153-5	CCV							
Nitrate+Nitrite-N - Dissolved			103		%		90-110	23-JUL-10
WG1139153-2	CVS							
Nitrate+Nitrite-N - Dissolved			101		%		85-115	23-JUL-10
WG1139153-4	CVS							
Nitrate+Nitrite-N - Dissolved			103		%		85-115	23-JUL-10
WG1139152-2	DUP	L906875-1						
Nitrate+Nitrite-N - Dissolved		1.32	1.32		mg/L	0.0076	20	23-JUL-10
WG1139152-1	MB							
Nitrate+Nitrite-N - Dissolved			<0.050		mg/L		0.05	23-JUL-10
NH3-DIS-WP								
	Water							
Batch	R1399020							
WG1139153-3	CCV							
Ammonia (NH3) - Dissolved			104		%		90-110	23-JUL-10
WG1139153-5	CCV							
Ammonia (NH3) - Dissolved			98		%		90-110	23-JUL-10
WG1139153-2	CVS							
Ammonia (NH3) - Dissolved			103		%		85-115	23-JUL-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NH3-DIS-WP								
	Water							
Batch	R1399020							
WG1139153-4	CVS							
Ammonia (NH3) - Dissolved			96		%		85-115	23-JUL-10
WG1139152-1	MB							
Ammonia (NH3) - Dissolved			<0.050		mg/L		0.05	23-JUL-10
P-TOTAL-WP								
	Water							
Batch	R1356744							
WG1133017-1	CCV							
Phosphorus, Total			104		%		90-110	13-JUL-10
WG1133017-2	CCV							
Phosphorus, Total			102		%		90-110	13-JUL-10
WG1132937-2	CVS							
Phosphorus, Total			94		%		80-120	13-JUL-10
WG1132937-3	CVS							
Phosphorus, Total			98		%		80-120	13-JUL-10
WG1132937-6	CVS							
Phosphorus, Total			97		%		80-120	13-JUL-10
WG1132937-7	CVS							
Phosphorus, Total			99		%		80-120	13-JUL-10
WG1132937-4	DUP	L907060-4						
Phosphorus, Total		15.3	15.6		mg/L	1.9	20	13-JUL-10
WG1132937-1	MB							
Phosphorus, Total			<0.010		mg/L		0.01	13-JUL-10
PH-WP								
	Water							
Batch	R1350283							
WG1132624-4	CCV							
pH			101		%		90-110	12-JUL-10
WG1132624-3	CVS							
pH			100		%		99-101	12-JUL-10
WG1132624-6	DUP	L906898-2						
pH		8.00	8.00		pH units	0.012	5	12-JUL-10
WG1132624-7	DUP	L907082-8						
pH		8.27	8.26		pH units	0.012	5	12-JUL-10
SILICATE-COL-VA								
	Water							
Batch	R1371666							
WG1134793-10	CRM	VA-SIO2-CSPK1						
Silicate (as SiO2)			98		%		85-115	15-JUL-10
WG1134793-3	CRM	VA-SIO2-CSPK1						



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SILICATE-COL-VA		Water						
Batch	R1371666							
WG1134793-3 CRM		VA-SIO2-CSPK1						
Silicate (as SIO2)			108		%		85-115	15-JUL-10
WG1134793-6 CRM		VA-SIO2-CSPK10						
Silicate (as SIO2)			96		%		85-115	15-JUL-10
WG1134793-1 DUP		L906225-1						
Silicate (as SIO2)		1.2	1.2	J	mg/L	0.0	4	15-JUL-10
WG1134793-4 DUP		L908024-5						
Silicate (as SIO2)		<1.0	<1.0	RPD-NA	mg/L	N/A	20	15-JUL-10
WG1134793-8 DUP		L908534-5						
Silicate (as SIO2)		6.2	6.2	J	mg/L	0.1	4	15-JUL-10
WG1134793-2 MB								
Silicate (as SIO2)			<1.0		mg/L		1	15-JUL-10
WG1134793-5 MB								
Silicate (as SIO2)			<1.0		mg/L		1	15-JUL-10
WG1134793-9 MB								
Silicate (as SIO2)			<1.0		mg/L		1	15-JUL-10
SO4-DIS-WP		Water						
Batch	R1361286							
WG1134431-3 CCV								
Sulphate (SO4) - Dissolved			93		%		90-110	14-JUL-10
WG1134431-2 CVS								
Sulphate (SO4) - Dissolved			92		%		85-115	14-JUL-10
WG1134426-2 DUP		L906898-2						
Sulphate (SO4) - Dissolved		122	123		mg/L	0.53	20	14-JUL-10
WG1134426-1 MB								
Sulphate (SO4) - Dissolved			<9.0		mg/L		9	14-JUL-10
SOLIDS-TDS-WP		Water						
Batch	R1362564							
WG1133853-2 CVS								
Total Dissolved Solids			101		%		85-115	14-JUL-10
WG1133853-12 DUP		L908132-1						
Total Dissolved Solids		1590	1580		mg/L	0.63	20	14-JUL-10
WG1133853-6 DUP		L906727-2						
Total Dissolved Solids		<5.0	<5.0	RPD-NA	mg/L	N/A	20	14-JUL-10
WG1133853-8 DUP		L906865-3						
Total Dissolved Solids		124	126		mg/L	1.6	20	14-JUL-10
WG1133853-9 DUP		L906873-5						
Total Dissolved Solids		142	<5.0		mg/L	N/A	20	14-JUL-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SOLIDS-TDS-WP		Water						
Batch	R1362564							
WG1133853-1	MB							
Total Dissolved Solids			<5.0		mg/L		5	14-JUL-10
SOLIDS-TOTSUS-WP		Water						
Batch	R1362564							
WG1133853-2	CVS							
Total Suspended Solids			110		%		85-115	14-JUL-10
WG1133853-10	DUP	L907054-3						
Total Suspended Solids		17.0	17.0	J	mg/L	0.0	20	14-JUL-10
WG1133853-12	DUP	L908132-1						
Total Suspended Solids		460	450		mg/L	2.2	20	14-JUL-10
WG1133853-3	DUP	L906370-1						
Total Suspended Solids		16.0	17.0	J	mg/L	1.0	20	14-JUL-10
WG1133853-4	DUP	L906501-1						
Total Suspended Solids		77.0	76.0		mg/L	1.3	20	14-JUL-10
WG1133853-5	DUP	L906518-10						
Total Suspended Solids		<5.0	<5.0	RPD-NA	mg/L	N/A	20	14-JUL-10
WG1133853-6	DUP	L906727-2						
Total Suspended Solids		<5.0	<5.0	RPD-NA	mg/L	N/A	20	14-JUL-10
WG1133853-8	DUP	L906865-3						
Total Suspended Solids		5.0	5.0	J	mg/L	0.0	20	14-JUL-10
WG1133853-9	DUP	L906873-5						
Total Suspended Solids		8.0	8.0	J	mg/L	0.0	20	14-JUL-10
WG1133853-1	MB							
Total Suspended Solids			<5.0		mg/L		5	14-JUL-10
TURBIDITY-WP		Water						
Batch	R1345583							
WG1132119-4	CCV							
Turbidity			100		%		90-110	09-JUL-10
WG1132119-5	CCV							
Turbidity			102		%		90-110	09-JUL-10
WG1132119-2	CVS							
Turbidity			90		%		63-138	09-JUL-10
WG1132119-3	CVS							
Turbidity			91		%		63-138	09-JUL-10
WG1132119-7	DUP	L906568-12						
Turbidity		0.59	0.59	J	NTU	0.00	0.4	09-JUL-10
WG1132119-8	DUP	L906568-13						



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TURBIDITY-WP		Water						
Batch	R1345583							
WG1132119-8	DUP	L906568-13						
Turbidity		11.8	12.0		NTU	1.7	15	09-JUL-10
WG1132119-6	LCS							
Turbidity			92		%		85-115	09-JUL-10
WG1132119-1	MB							
Turbidity			<0.10		NTU		0.1	09-JUL-10
C-INORG-ORG-SK		Soil						
Batch	R1366805							
WG1133565-1	DUP	L906873-1						
Inorganic Carbon		<0.10	0.11	RPD-NA	%	N/A	30	15-JUL-10
CaCO3 Equivalent		1.12	1.35	J	%	0.23	3.2	15-JUL-10
WG1133565-2	IRM	0.4%IC						
Inorganic Carbon			0.37		%		0.28-0.52	15-JUL-10
WG1133565-3	MB							
Inorganic Carbon			0.00		%		0.1	15-JUL-10
CaCO3 Equivalent			<0.80		%		0.8	15-JUL-10
C-TOT-LECO-SK		Soil						
Batch	R1366723							
WG1133598-1	DUP	L906873-4						
Total Carbon by Combustion		32.6	33.2		%	2.1	10	14-JUL-10
WG1133598-2	IRM							
WG1133598-3	IRM							
Total Carbon by Combustion			0.0	G	%		1.1-1.7	14-JUL-10
HG-200.2-CVAF-WP		Soil						
Batch	R1411323							
WG1144354-2	CRM	NRC PACS-2						
Mercury (Hg)-Total			109		%		70-130	03-AUG-10
WG1144354-3	CRM	NRC MESS-3						
Mercury (Hg)-Total			108		%		70-130	03-AUG-10
WG1144355-2	CRM	NRC PACS-2						
Mercury (Hg)-Total			115		%		70-130	03-AUG-10
WG1144355-3	CRM	NRC MESS-3						
Mercury (Hg)-Total			114		%		70-130	03-AUG-10
WG1144354-1	MB							
Mercury (Hg)-Total			<0.0050		mg/kg		0.005	03-AUG-10
WG1144355-1	MB							
Mercury (Hg)-Total			<0.0050		mg/kg		0.005	03-AUG-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP	Soil							
Batch	R1362144							
WG1134553-3	CCV							
Aluminum (Al)			99		%		63-138	14-JUL-10
Antimony (Sb)			104		%		63-138	14-JUL-10
Arsenic (As)			99		%		63-138	14-JUL-10
Barium (Ba)			103		%		63-138	14-JUL-10
Beryllium (Be)			99		%		63-138	14-JUL-10
Bismuth (Bi)			108		%		63-138	14-JUL-10
Boron (B)			99		%		63-138	14-JUL-10
Cadmium (Cd)			99		%		63-138	14-JUL-10
Calcium (Ca)			99		%		63-138	14-JUL-10
Cesium (Cs)			108		%		63-138	14-JUL-10
Chromium (Cr)			102		%		63-138	14-JUL-10
Cobalt (Co)			105		%		63-138	14-JUL-10
Copper (Cu)			100		%		63-138	14-JUL-10
Iron (Fe)			103		%		63-138	14-JUL-10
Lead (Pb)			104		%		63-138	14-JUL-10
Magnesium (Mg)			100		%		63-138	14-JUL-10
Manganese (Mn)			105		%		63-138	14-JUL-10
Molybdenum (Mo)			99		%		63-138	14-JUL-10
Nickel (Ni)			100		%		63-138	14-JUL-10
Phosphorus (P)			102		%		63-138	14-JUL-10
Potassium (K)			99		%		63-138	14-JUL-10
Rubidium (Rb)			101		%		63-138	14-JUL-10
Selenium (Se)			102		%		63-138	14-JUL-10
Silver (Ag)			101		%		63-138	14-JUL-10
Sodium (Na)			99		%		63-138	14-JUL-10
Strontium (Sr)			102		%		63-138	14-JUL-10
Tellurium (Te)			100		%		63-138	14-JUL-10
Thallium (Tl)			105		%		63-138	14-JUL-10
Tin (Sn)			100		%		63-138	14-JUL-10
Titanium (Ti)			100		%		63-138	14-JUL-10
Tungsten (W)			102		%		63-138	14-JUL-10
Uranium (U)			102		%		63-138	14-JUL-10
Vanadium (V)			101		%		63-138	14-JUL-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP	Soil							
Batch	R1362144							
WG1134553-3	CCV							
Zinc (Zn)			99		%		63-138	14-JUL-10
Zirconium (Zr)			101		%		63-138	14-JUL-10
WG1134474-2	CRM	NRC PACS-2						
Aluminum (Al)			96		%		70-130	15-JUL-10
Arsenic (As)			109		%		70-130	15-JUL-10
Barium (Ba)			78		%		70-130	15-JUL-10
Beryllium (Be)			101		%		70-130	15-JUL-10
Boron (B)			108		%		70-130	15-JUL-10
Cadmium (Cd)			110		%		70-130	15-JUL-10
Calcium (Ca)			106		%		70-130	15-JUL-10
Chromium (Cr)			104		%		70-130	15-JUL-10
Cobalt (Co)			109		%		70-130	15-JUL-10
Copper (Cu)			111		%		70-130	15-JUL-10
Iron (Fe)			101		%		70-130	15-JUL-10
Lead (Pb)			97		%		70-130	15-JUL-10
Magnesium (Mg)			103		%		70-130	15-JUL-10
Manganese (Mn)			103		%		70-130	15-JUL-10
Molybdenum (Mo)			117		%		70-130	15-JUL-10
Nickel (Ni)			106		%		70-130	15-JUL-10
Phosphorus (P)			113		%		70-130	15-JUL-10
Potassium (K)			97		%		70-130	15-JUL-10
Selenium (Se)			102		%		70-130	15-JUL-10
Silver (Ag)			104		%		70-130	15-JUL-10
Sodium (Na)			100		%		70-130	15-JUL-10
Strontium (Sr)			97		%		70-130	15-JUL-10
Thallium (Tl)			110		%		70-130	15-JUL-10
Tin (Sn)			106		%		70-130	15-JUL-10
Titanium (Ti)			101		%		70-130	15-JUL-10
Uranium (U)			108		%		70-130	15-JUL-10
Vanadium (V)			104		%		70-130	15-JUL-10
Zinc (Zn)			94		%		70-130	15-JUL-10
WG1134474-3	CRM	NRC MESS-3						
Aluminum (Al)			71		%		70-130	15-JUL-10
Antimony (Sb)			113		%		70-130	15-JUL-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP								
	Soil							
Batch	R1362144							
WG1134474-3	CRM	NRC MESS-3						
Arsenic (As)			95		%		70-130	15-JUL-10
Barium (Ba)			98		%		70-130	15-JUL-10
Beryllium (Be)			72		%		70-130	15-JUL-10
Cadmium (Cd)			89		%		70-130	15-JUL-10
Calcium (Ca)			108		%		70-130	15-JUL-10
Chromium (Cr)			80		%		70-130	15-JUL-10
Cobalt (Co)			111		%		70-130	15-JUL-10
Copper (Cu)			107		%		70-130	15-JUL-10
Iron (Fe)			99		%		70-130	15-JUL-10
Lead (Pb)			102		%		70-130	15-JUL-10
Magnesium (Mg)			95		%		70-130	15-JUL-10
Manganese (Mn)			116		%		70-130	15-JUL-10
Molybdenum (Mo)			109		%		70-130	15-JUL-10
Nickel (Ni)			104		%		70-130	15-JUL-10
Phosphorus (P)			97		%		70-130	15-JUL-10
Selenium (Se)			107		%		70-130	15-JUL-10
Silver (Ag)			97		%		70-130	15-JUL-10
Sodium (Na)			104		%		70-130	15-JUL-10
Strontium (Sr)			87		%		70-130	15-JUL-10
Tin (Sn)			94		%		70-130	15-JUL-10
Uranium (U)			100		%		70-130	15-JUL-10
Vanadium (V)			72		%		70-130	15-JUL-10
Zinc (Zn)			98		%		70-130	15-JUL-10
WG1134553-1	CVS							
Aluminum (Al)			100		%		70-130	14-JUL-10
Antimony (Sb)			104		%		70-130	14-JUL-10
Arsenic (As)			99		%		70-130	14-JUL-10
Barium (Ba)			102		%		70-130	14-JUL-10
Beryllium (Be)			101		%		70-130	14-JUL-10
Bismuth (Bi)			107		%		70-130	14-JUL-10
Boron (B)			100		%		70-130	14-JUL-10
Cadmium (Cd)			98		%		70-130	14-JUL-10
Calcium (Ca)			101		%		70-130	14-JUL-10
Cesium (Cs)			106		%		70-130	14-JUL-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP		Soil						
Batch	R1362144							
WG1134553-1	CVS							
Chromium (Cr)			100		%		70-130	14-JUL-10
Cobalt (Co)			103		%		70-130	14-JUL-10
Copper (Cu)			98		%		70-130	14-JUL-10
Iron (Fe)			101		%		70-130	14-JUL-10
Lead (Pb)			103		%		70-130	14-JUL-10
Magnesium (Mg)			98		%		70-130	14-JUL-10
Manganese (Mn)			103		%		70-130	14-JUL-10
Molybdenum (Mo)			100		%		70-130	14-JUL-10
Nickel (Ni)			97		%		70-130	14-JUL-10
Phosphorus (P)			101		%		70-130	14-JUL-10
Potassium (K)			98		%		70-130	14-JUL-10
Rubidium (Rb)			100		%		70-130	14-JUL-10
Selenium (Se)			98		%		70-130	14-JUL-10
Silver (Ag)			98		%		70-130	14-JUL-10
Sodium (Na)			99		%		70-130	14-JUL-10
Strontium (Sr)			100		%		70-130	14-JUL-10
Tellurium (Te)			100		%		70-130	14-JUL-10
Thallium (Tl)			104		%		70-130	14-JUL-10
Tin (Sn)			101		%		70-130	14-JUL-10
Titanium (Ti)			99		%		70-130	14-JUL-10
Tungsten (W)			101		%		70-130	14-JUL-10
Uranium (U)			100		%		70-130	14-JUL-10
Vanadium (V)			100		%		70-130	14-JUL-10
Zinc (Zn)			99		%		70-130	14-JUL-10
Zirconium (Zr)			100		%		70-130	14-JUL-10
WG1134553-2	CVS							
Aluminum (Al)			103		%		70-130	14-JUL-10
Antimony (Sb)			98		%		70-130	14-JUL-10
Arsenic (As)			101		%		70-130	14-JUL-10
Barium (Ba)			97		%		70-130	14-JUL-10
Beryllium (Be)			101		%		70-130	14-JUL-10
Bismuth (Bi)			103		%		70-130	14-JUL-10
Boron (B)			102		%		70-130	14-JUL-10
Cadmium (Cd)			95		%		70-130	14-JUL-10



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Contact: CLIFF SAMOILLOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP								
	Soil							
Batch	R1362144							
WG1134553-2	CVS							
Calcium (Ca)			106		%		70-130	14-JUL-10
Cesium (Cs)			101		%		70-130	14-JUL-10
Chromium (Cr)			98		%		70-130	14-JUL-10
Cobalt (Co)			98		%		70-130	14-JUL-10
Copper (Cu)			97		%		70-130	14-JUL-10
Iron (Fe)			101		%		70-130	14-JUL-10
Lead (Pb)			99		%		70-130	14-JUL-10
Magnesium (Mg)			102		%		70-130	14-JUL-10
Manganese (Mn)			102		%		70-130	14-JUL-10
Molybdenum (Mo)			98		%		70-130	14-JUL-10
Nickel (Ni)			97		%		70-130	14-JUL-10
Phosphorus (P)			98		%		70-130	14-JUL-10
Potassium (K)			104		%		70-130	14-JUL-10
Rubidium (Rb)			96		%		70-130	14-JUL-10
Selenium (Se)			102		%		70-130	14-JUL-10
Silver (Ag)			93		%		70-130	14-JUL-10
Sodium (Na)			102		%		70-130	14-JUL-10
Strontium (Sr)			97		%		70-130	14-JUL-10
Tellurium (Te)			99		%		70-130	14-JUL-10
Thallium (Tl)			98		%		70-130	14-JUL-10
Tin (Sn)			94		%		70-130	14-JUL-10
Titanium (Ti)			100		%		70-130	14-JUL-10
Tungsten (W)			97		%		70-130	14-JUL-10
Uranium (U)			101		%		70-130	14-JUL-10
Vanadium (V)			98		%		70-130	14-JUL-10
Zinc (Zn)			100		%		70-130	14-JUL-10
Zirconium (Zr)			99		%		70-130	14-JUL-10
WG1134474-5	DUP	WG1134474-4						
Aluminum (Al)		16000	16800		mg/kg	4.8	40	15-JUL-10
Antimony (Sb)		71.6	67.4		mg/kg	6.0	30	15-JUL-10
Arsenic (As)		15.7	15.9		mg/kg	1.6	30	15-JUL-10
Barium (Ba)		3450	3570		mg/kg	3.4	40	15-JUL-10
Beryllium (Be)		0.9	1.0	J	mg/kg	0.1	0.4	15-JUL-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP		Soil						
Batch	R1362144							
WG1134474-5	DUP	WG1134474-4						
Bismuth (Bi)		0.66	0.66		mg/kg	0.48	30	15-JUL-10
Boron (B)		123	140		mg/kg	13	30	15-JUL-10
Cadmium (Cd)		1.32	1.35		mg/kg	2.2	30	15-JUL-10
Calcium (Ca)		75600	74200		mg/kg	1.9	30	15-JUL-10
Cesium (Cs)		1.17	1.20		mg/kg	2.3	30	15-JUL-10
Chromium (Cr)		114	102		mg/kg	11	30	15-JUL-10
Cobalt (Co)		883	938		mg/kg	6.0	30	15-JUL-10
Copper (Cu)		301	302		mg/kg	0.21	30	15-JUL-10
Iron (Fe)		24900	24900		mg/kg	0.044	30	15-JUL-10
Lead (Pb)		11300	11500		mg/kg	2.2	40	15-JUL-10
Magnesium (Mg)		26400	25400		mg/kg	3.8	30	15-JUL-10
Manganese (Mn)		10200	10600		mg/kg	3.6	30	15-JUL-10
Molybdenum (Mo)		4.70	3.88		mg/kg	19	40	15-JUL-10
Nickel (Ni)		64.7	65.1		mg/kg	0.73	30	15-JUL-10
Phosphorus (P)		800	800	J	mg/kg	0	400	15-JUL-10
Potassium (K)		2800	2750		mg/kg	1.8	40	15-JUL-10
Rubidium (Rb)		20.9	21.2		mg/kg	1.3	30	15-JUL-10
Selenium (Se)		0.6	0.6	J	mg/kg	0.0	2	15-JUL-10
Silver (Ag)		0.7	0.5	J	mg/kg	0.2	0.4	15-JUL-10
Sodium (Na)		910	890		mg/kg	2.0	40	15-JUL-10
Strontium (Sr)		351	365		mg/kg	3.8	40	15-JUL-10
Tellurium (Te)		<0.1	<0.1	RPD-NA	mg/kg	N/A	30	15-JUL-10
Thallium (Tl)		0.3	0.3	J	mg/kg	0.0	0.4	15-JUL-10
Tin (Sn)		22	27	J	mg/kg	5	20	15-JUL-10
Titanium (Ti)		686	695		mg/kg	1.3	40	15-JUL-10
Tungsten (W)		0.42	0.44	J	mg/kg	0.02	0.2	15-JUL-10
Uranium (U)		1.71	1.81		mg/kg	5.6	30	15-JUL-10
Vanadium (V)		44.8	45.2		mg/kg	1.0	30	15-JUL-10
Zinc (Zn)		6270	6710		mg/kg	6.8	30	15-JUL-10
Zirconium (Zr)		7.3	7.3		mg/kg	1.0	30	15-JUL-10
WG1134474-7	DUP	WG1134474-6						
Aluminum (Al)		4310	4790		mg/kg	10	40	15-JUL-10
Antimony (Sb)		1.2	1.2		mg/kg	0.43	30	15-JUL-10



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Contact: CLIFF SAMOILLOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP		Soil						
Batch	R1362144							
WG1134474-7	DUP	WG1134474-6						
Arsenic (As)		4.4	4.8		mg/kg	8.4	30	15-JUL-10
Barium (Ba)		170	159		mg/kg	6.7	40	15-JUL-10
Beryllium (Be)		0.3	0.4	J	mg/kg	0.0	0.4	15-JUL-10
Bismuth (Bi)		0.04	0.05	J	mg/kg	0.01	0.08	15-JUL-10
Boron (B)		16	16		mg/kg	1.6	30	15-JUL-10
Cadmium (Cd)		0.35	0.37		mg/kg	7.3	30	15-JUL-10
Calcium (Ca)		113000	125000		mg/kg	9.7	30	15-JUL-10
Cesium (Cs)		0.48	0.48		mg/kg	1.7	30	15-JUL-10
Chromium (Cr)		15	16		mg/kg	8.6	30	15-JUL-10
Cobalt (Co)		4.10	3.90		mg/kg	5.2	30	15-JUL-10
Copper (Cu)		20	25		mg/kg	22	30	15-JUL-10
Iron (Fe)		9400	10200		mg/kg	8.5	30	15-JUL-10
Lead (Pb)		97.3	105		mg/kg	7.8	40	15-JUL-10
Magnesium (Mg)		45400	46400		mg/kg	2.2	30	15-JUL-10
Manganese (Mn)		182	199		mg/kg	9.0	30	15-JUL-10
Molybdenum (Mo)		1.16	0.77	G	mg/kg	41	40	15-JUL-10
Nickel (Ni)		9.3	8.5		mg/kg	8.0	30	15-JUL-10
Phosphorus (P)		300	300	J	mg/kg	0	400	15-JUL-10
Potassium (K)		890	970		mg/kg	8.5	40	15-JUL-10
Rubidium (Rb)		7.10	7.98		mg/kg	12	30	15-JUL-10
Selenium (Se)		<0.5	<0.5	RPD-NA	mg/kg	N/A	30	15-JUL-10
Silver (Ag)		<0.1	<0.1	RPD-NA	mg/kg	N/A	40	15-JUL-10
Sodium (Na)		320	280		mg/kg	11	40	15-JUL-10
Strontium (Sr)		83.1	80.0		mg/kg	3.7	40	15-JUL-10
Tellurium (Te)		<0.1	<0.1	RPD-NA	mg/kg	N/A	30	15-JUL-10
Thallium (Tl)		0.1	0.1	J	mg/kg	0.0	0.4	15-JUL-10
Tin (Sn)		<5	<5	RPD-NA	mg/kg	N/A	40	15-JUL-10
Titanium (Ti)		207	185		mg/kg	11	40	15-JUL-10
Tungsten (W)		0.12	0.14	J	mg/kg	0.02	0.2	15-JUL-10
Uranium (U)		0.60	0.63		mg/kg	5.7	30	15-JUL-10
Vanadium (V)		16.9	17.1		mg/kg	0.63	30	15-JUL-10
Zinc (Zn)		120	130		mg/kg	6.0	30	15-JUL-10
Zirconium (Zr)		5.2	4.6		mg/kg			15-JUL-10



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 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP								
	Soil							
Batch	R1362144							
WG1134474-7	DUP	WG1134474-6						
Zirconium (Zr)		5.2	4.6		mg/kg	12	30	15-JUL-10
WG1134474-1	MB							
Aluminum (Al)			<5		mg/kg dwt		5	15-JUL-10
Antimony (Sb)			<0.1		mg/kg dwt		0.1	15-JUL-10
Arsenic (As)			<0.1		mg/kg dwt		0.1	15-JUL-10
Barium (Ba)			<0.5		mg/kg dwt		0.5	15-JUL-10
Beryllium (Be)			<0.1		mg/kg dwt		0.1	15-JUL-10
Bismuth (Bi)			0.02		mg/kg dwt		0.02	15-JUL-10
Boron (B)			<1		mg/kg dwt		1	15-JUL-10
Cadmium (Cd)			<0.02		mg/kg dwt		0.02	15-JUL-10
Calcium (Ca)			<100		mg/kg dwt		100	15-JUL-10
Cesium (Cs)			<0.02		mg/kg dwt		0.02	15-JUL-10
Chromium (Cr)			<1		mg/kg dwt		1	15-JUL-10
Cobalt (Co)			<0.02		mg/kg dwt		0.02	15-JUL-10
Copper (Cu)			<1		mg/kg dwt		1	15-JUL-10
Iron (Fe)			<30		mg/kg dwt		25	15-JUL-10
Lead (Pb)			<0.2		mg/kg dwt		0.2	15-JUL-10
Magnesium (Mg)			<10		mg/kg dwt		10	15-JUL-10
Manganese (Mn)			<0.5		mg/kg dwt		0.5	15-JUL-10
Molybdenum (Mo)			<0.02		mg/kg dwt		0.02	15-JUL-10
Nickel (Ni)			<0.5		mg/kg dwt		0.5	15-JUL-10
Phosphorus (P)			<100		mg/kg dwt		100	15-JUL-10
Potassium (K)			<30		mg/kg dwt		25	15-JUL-10
Rubidium (Rb)			<0.02		mg/kg dwt		0.02	15-JUL-10
Selenium (Se)			<0.5		mg/kg dwt		0.5	15-JUL-10
Silver (Ag)			<0.1		mg/kg dwt		0.1	15-JUL-10
Sodium (Na)			<10		mg/kg dwt		10	15-JUL-10
Strontium (Sr)			<0.1		mg/kg dwt		0.1	15-JUL-10
Tellurium (Te)			<0.1		mg/kg dwt		0.1	15-JUL-10
Thallium (Tl)			<0.1		mg/kg dwt		0.1	15-JUL-10
Tin (Sn)			<5		mg/kg dwt		5	15-JUL-10
Titanium (Ti)			<0.5		mg/kg dwt		0.5	15-JUL-10
Tungsten (W)			<0.05		mg/kg dwt		0.05	15-JUL-10
Uranium (U)			<0.02		mg/kg dwt		0.02	15-JUL-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP		Soil						
Batch R1362144								
WG1134474-1 MB								
Vanadium (V)			<0.5		mg/kg dwt		0.5	15-JUL-10
Zinc (Zn)			<10		mg/kg dwt		10	15-JUL-10
Zirconium (Zr)			<0.1		mg/kg dwt		0.1	15-JUL-10
Batch R1376503								
WG1136217-3 CCV								
Aluminum (Al)			93		%		63-138	14-JUL-10
Antimony (Sb)			99		%		63-138	14-JUL-10
Arsenic (As)			99		%		63-138	14-JUL-10
Barium (Ba)			99		%		63-138	14-JUL-10
Beryllium (Be)			95		%		63-138	14-JUL-10
Bismuth (Bi)			96		%		63-138	14-JUL-10
Boron (B)			98		%		63-138	14-JUL-10
Cadmium (Cd)			97		%		63-138	14-JUL-10
Calcium (Ca)			96		%		63-138	14-JUL-10
Cesium (Cs)			96		%		63-138	14-JUL-10
Chromium (Cr)			94		%		63-138	14-JUL-10
Cobalt (Co)			99		%		63-138	14-JUL-10
Copper (Cu)			101		%		63-138	14-JUL-10
Iron (Fe)			92		%		63-138	14-JUL-10
Lead (Pb)			97		%		63-138	14-JUL-10
Magnesium (Mg)			96		%		63-138	14-JUL-10
Manganese (Mn)			96		%		63-138	14-JUL-10
Molybdenum (Mo)			99		%		63-138	14-JUL-10
Nickel (Ni)			97		%		63-138	14-JUL-10
Phosphorus (P)			92		%		63-138	14-JUL-10
Potassium (K)			94		%		63-138	14-JUL-10
Rubidium (Rb)			97		%		63-138	14-JUL-10
Selenium (Se)			98		%		63-138	14-JUL-10
Silver (Ag)			99		%		63-138	14-JUL-10
Sodium (Na)			93		%		63-138	14-JUL-10
Strontium (Sr)			96		%		63-138	14-JUL-10
Tellurium (Te)			98		%		63-138	14-JUL-10
Thallium (Tl)			95		%		63-138	14-JUL-10
Tin (Sn)			96		%		63-138	14-JUL-10



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 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP								
	Soil							
Batch	R1376503							
WG1136217-3	CCV							
Titanium (Ti)			101		%		63-138	14-JUL-10
Tungsten (W)			97		%		63-138	14-JUL-10
Uranium (U)			95		%		63-138	14-JUL-10
Vanadium (V)			95		%		63-138	14-JUL-10
Zinc (Zn)			99		%		63-138	14-JUL-10
Zirconium (Zr)			96		%		63-138	14-JUL-10
WG1133704-2	CRM	NRC PACS-2						
Aluminum (Al)			103		%		70-130	14-JUL-10
Antimony (Sb)			111		%		70-130	14-JUL-10
Arsenic (As)			103		%		70-130	14-JUL-10
Barium (Ba)			78		%		70-130	14-JUL-10
Beryllium (Be)			97		%		70-130	14-JUL-10
Boron (B)			108		%		70-130	14-JUL-10
Cadmium (Cd)			103		%		70-130	14-JUL-10
Calcium (Ca)			109		%		70-130	14-JUL-10
Chromium (Cr)			106		%		70-130	14-JUL-10
Cobalt (Co)			99		%		70-130	14-JUL-10
Copper (Cu)			112		%		70-130	14-JUL-10
Iron (Fe)			102		%		70-130	14-JUL-10
Lead (Pb)			99		%		70-130	14-JUL-10
Magnesium (Mg)			101		%		70-130	14-JUL-10
Manganese (Mn)			103		%		70-130	14-JUL-10
Molybdenum (Mo)			109		%		70-130	14-JUL-10
Nickel (Ni)			127		%		70-130	14-JUL-10
Phosphorus (P)			103		%		70-130	14-JUL-10
Potassium (K)			96		%		70-130	14-JUL-10
Selenium (Se)			113		%		70-130	14-JUL-10
Silver (Ag)			97		%		70-130	14-JUL-10
Sodium (Na)			99		%		70-130	14-JUL-10
Strontium (Sr)			98		%		70-130	14-JUL-10
Thallium (Tl)			89		%		70-130	14-JUL-10
Tin (Sn)			96		%		70-130	14-JUL-10
Titanium (Ti)			110		%		70-130	14-JUL-10
Uranium (U)			89		%		70-130	14-JUL-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP								
	Soil							
Batch	R1376503							
WG1133704-2	CRM	NRC PACS-2						
Vanadium (V)			109		%		70-130	14-JUL-10
Zinc (Zn)			108		%		70-130	14-JUL-10
WG1133704-3	CRM	NRC MESS-3						
Aluminum (Al)			71		%		70-130	14-JUL-10
Antimony (Sb)			92		%		70-130	14-JUL-10
Arsenic (As)			94		%		70-130	14-JUL-10
Barium (Ba)			97		%		70-130	14-JUL-10
Beryllium (Be)			84		%		70-130	14-JUL-10
Cadmium (Cd)			91		%		70-130	14-JUL-10
Calcium (Ca)			116		%		70-130	14-JUL-10
Chromium (Cr)			85		%		70-130	14-JUL-10
Cobalt (Co)			103		%		70-130	14-JUL-10
Copper (Cu)			108		%		70-130	14-JUL-10
Iron (Fe)			107		%		70-130	14-JUL-10
Lead (Pb)			94		%		70-130	14-JUL-10
Magnesium (Mg)			103		%		70-130	14-JUL-10
Manganese (Mn)			117		%		70-130	14-JUL-10
Molybdenum (Mo)			101		%		70-130	14-JUL-10
Nickel (Ni)			109		%		70-130	14-JUL-10
Phosphorus (P)			97		%		70-130	14-JUL-10
Potassium (K)			70		%		70-130	14-JUL-10
Selenium (Se)			114		%		70-130	14-JUL-10
Silver (Ag)			95		%		70-130	14-JUL-10
Sodium (Na)			98		%		70-130	14-JUL-10
Strontium (Sr)			96		%		70-130	14-JUL-10
Tin (Sn)			80		%		70-130	14-JUL-10
Uranium (U)			84		%		70-130	14-JUL-10
Vanadium (V)			80		%		70-130	14-JUL-10
Zinc (Zn)			105		%		70-130	14-JUL-10
WG1136217-1	CVS							
Aluminum (Al)			96		%		70-130	13-JUL-10
Antimony (Sb)			97		%		70-130	13-JUL-10
Arsenic (As)			101		%		70-130	13-JUL-10
Barium (Ba)			98		%		70-130	13-JUL-10



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 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP		Soil						
Batch	R1376503							
WG1136217-1	CVS							
Beryllium (Be)			99		%		70-130	13-JUL-10
Bismuth (Bi)			98		%		70-130	13-JUL-10
Boron (B)			103		%		70-130	13-JUL-10
Cadmium (Cd)			98		%		70-130	13-JUL-10
Calcium (Ca)			103		%		70-130	13-JUL-10
Cesium (Cs)			95		%		70-130	13-JUL-10
Chromium (Cr)			98		%		70-130	13-JUL-10
Cobalt (Co)			96		%		70-130	13-JUL-10
Copper (Cu)			102		%		70-130	13-JUL-10
Iron (Fe)			96		%		70-130	13-JUL-10
Lead (Pb)			98		%		70-130	13-JUL-10
Magnesium (Mg)			103		%		70-130	13-JUL-10
Manganese (Mn)			96		%		70-130	13-JUL-10
Molybdenum (Mo)			100		%		70-130	13-JUL-10
Nickel (Ni)			101		%		70-130	13-JUL-10
Phosphorus (P)			100		%		70-130	13-JUL-10
Potassium (K)			102		%		70-130	13-JUL-10
Rubidium (Rb)			98		%		70-130	13-JUL-10
Selenium (Se)			99		%		70-130	13-JUL-10
Silver (Ag)			100		%		70-130	13-JUL-10
Sodium (Na)			100		%		70-130	13-JUL-10
Strontium (Sr)			95		%		70-130	13-JUL-10
Tellurium (Te)			97		%		70-130	13-JUL-10
Thallium (Tl)			97		%		70-130	13-JUL-10
Tin (Sn)			98		%		70-130	13-JUL-10
Titanium (Ti)			100		%		70-130	13-JUL-10
Tungsten (W)			98		%		70-130	13-JUL-10
Uranium (U)			95		%		70-130	13-JUL-10
Vanadium (V)			100		%		70-130	13-JUL-10
Zinc (Zn)			101		%		70-130	13-JUL-10
Zirconium (Zr)			96		%		70-130	13-JUL-10
WG1136217-2	CVS							
Aluminum (Al)			106		%		70-130	14-JUL-10
Antimony (Sb)			100		%		70-130	14-JUL-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP	Soil							
Batch	R1376503							
WG1136217-2	CVS							
Arsenic (As)			102		%		70-130	14-JUL-10
Barium (Ba)			100		%		70-130	14-JUL-10
Beryllium (Be)			101		%		70-130	14-JUL-10
Bismuth (Bi)			99		%		70-130	14-JUL-10
Boron (B)			104		%		70-130	14-JUL-10
Cadmium (Cd)			104		%		70-130	14-JUL-10
Calcium (Ca)			105		%		70-130	14-JUL-10
Cesium (Cs)			99		%		70-130	14-JUL-10
Chromium (Cr)			106		%		70-130	14-JUL-10
Cobalt (Co)			107		%		70-130	14-JUL-10
Copper (Cu)			103		%		70-130	14-JUL-10
Iron (Fe)			100		%		70-130	14-JUL-10
Lead (Pb)			101		%		70-130	14-JUL-10
Magnesium (Mg)			104		%		70-130	14-JUL-10
Manganese (Mn)			102		%		70-130	14-JUL-10
Molybdenum (Mo)			106		%		70-130	14-JUL-10
Nickel (Ni)			98		%		70-130	14-JUL-10
Phosphorus (P)			103		%		70-130	14-JUL-10
Potassium (K)			104		%		70-130	14-JUL-10
Rubidium (Rb)			104		%		70-130	14-JUL-10
Selenium (Se)			99		%		70-130	14-JUL-10
Silver (Ag)			104		%		70-130	14-JUL-10
Sodium (Na)			101		%		70-130	14-JUL-10
Strontium (Sr)			103		%		70-130	14-JUL-10
Tellurium (Te)			99		%		70-130	14-JUL-10
Thallium (Tl)			99		%		70-130	14-JUL-10
Tin (Sn)			103		%		70-130	14-JUL-10
Titanium (Ti)			101		%		70-130	14-JUL-10
Tungsten (W)			101		%		70-130	14-JUL-10
Uranium (U)			102		%		70-130	14-JUL-10
Vanadium (V)			103		%		70-130	14-JUL-10
Zinc (Zn)			101		%		70-130	14-JUL-10
Zirconium (Zr)			104		%		70-130	14-JUL-10
WG1133704-5	DUP	WG1133704-4						



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP		Soil						
Batch	R1376503							
WG1133704-5	DUP	WG1133704-4						
Aluminum (Al)		10200	10200		mg/kg	0.074	40	14-JUL-10
Antimony (Sb)		0.2	0.2	J	mg/kg	0.0	0.4	14-JUL-10
Arsenic (As)		4.7	4.7		mg/kg	0.093	30	14-JUL-10
Barium (Ba)		139	139		mg/kg	0.047	40	14-JUL-10
Beryllium (Be)		0.4	0.5	J	mg/kg	0.1	0.4	14-JUL-10
Bismuth (Bi)		0.09	0.10	J	mg/kg	0.00	0.08	14-JUL-10
Boron (B)		26	27		mg/kg	2.5	30	14-JUL-10
Cadmium (Cd)		0.39	0.38		mg/kg	2.2	30	14-JUL-10
Calcium (Ca)		19600	20100		mg/kg	2.5	30	14-JUL-10
Cesium (Cs)		0.92	0.89		mg/kg	3.7	30	14-JUL-10
Chromium (Cr)		17	17		mg/kg	0.021	30	14-JUL-10
Cobalt (Co)		6.75	6.85		mg/kg	1.5	30	14-JUL-10
Copper (Cu)		14	14		mg/kg	2.2	30	14-JUL-10
Iron (Fe)		16200	16200		mg/kg	0.20	30	14-JUL-10
Lead (Pb)		8.7	8.9		mg/kg	2.3	40	14-JUL-10
Magnesium (Mg)		11300	11400		mg/kg	1.1	30	14-JUL-10
Manganese (Mn)		780	792		mg/kg	1.5	30	14-JUL-10
Molybdenum (Mo)		0.52	0.53		mg/kg	0.92	40	14-JUL-10
Nickel (Ni)		18.9	18.7		mg/kg	1.3	30	14-JUL-10
Phosphorus (P)		700	800	J	mg/kg	0	400	14-JUL-10
Potassium (K)		3180	3090		mg/kg	3.0	40	14-JUL-10
Rubidium (Rb)		17.8	17.4		mg/kg	2.3	30	14-JUL-10
Selenium (Se)		0.5	0.6	J	mg/kg	0.0	2	14-JUL-10
Silver (Ag)		<0.1	<0.1	RPD-NA	mg/kg	N/A	40	14-JUL-10
Sodium (Na)		3830	3810		mg/kg	0.62	40	14-JUL-10
Strontium (Sr)		121	121		mg/kg	0.035	40	14-JUL-10
Tellurium (Te)		<0.1	<0.1	RPD-NA	mg/kg	N/A	30	14-JUL-10
Thallium (Tl)		0.2	0.2	J	mg/kg	0.0	0.4	14-JUL-10
Tin (Sn)		<5	<5	RPD-NA	mg/kg	N/A	40	14-JUL-10
Titanium (Ti)		125	108		mg/kg	14	40	14-JUL-10
Tungsten (W)		<0.05	<0.05	RPD-NA	mg/kg	N/A	30	14-JUL-10
Uranium (U)		2.09	2.04		mg/kg	2.3	30	14-JUL-10
Vanadium (V)		34.3	33.0		mg/kg			14-JUL-10



Quality Control Report

Workorder: L906873

Report Date: 02-SEP-10

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP		Soil						
Batch	R1376503							
WG1133704-5	DUP	WG1133704-4						
Vanadium (V)		34.3	33.0		mg/kg	3.7	30	14-JUL-10
Zinc (Zn)		70	70	J	mg/kg	0	40	14-JUL-10
Zirconium (Zr)		4.6	4.7		mg/kg	1.8	30	14-JUL-10
WG1133704-7	DUP	WG1133704-6						
Aluminum (Al)		11500	9620		mg/kg	18	40	14-JUL-10
Antimony (Sb)		0.2	0.2	J	mg/kg	0.0	0.4	14-JUL-10
Arsenic (As)		4.9	4.7		mg/kg	4.2	30	14-JUL-10
Barium (Ba)		135	132		mg/kg	2.4	40	14-JUL-10
Beryllium (Be)		0.4	0.5	J	mg/kg	0.0	0.4	14-JUL-10
Bismuth (Bi)		0.10	0.10	J	mg/kg	0.00	0.08	14-JUL-10
Boron (B)		26	24		mg/kg	9.2	30	14-JUL-10
Cadmium (Cd)		0.41	0.37		mg/kg	11	30	14-JUL-10
Calcium (Ca)		21200	20300		mg/kg	4.3	30	14-JUL-10
Cesium (Cs)		0.90	0.86		mg/kg	5.0	30	14-JUL-10
Chromium (Cr)		242	15	G	mg/kg	176	30	14-JUL-10
Cobalt (Co)		10.7	6.52	G	mg/kg	48	30	14-JUL-10
Copper (Cu)		20	13	G	mg/kg	45	30	14-JUL-10
Iron (Fe)		16700	15400		mg/kg	8.2	30	14-JUL-10
Lead (Pb)		9.0	10.5		mg/kg	16	40	14-JUL-10
Magnesium (Mg)		11400	11000		mg/kg	3.0	30	14-JUL-10
Manganese (Mn)		804	745		mg/kg	7.6	30	14-JUL-10
Molybdenum (Mo)		24.2	0.50	G	mg/kg	192	40	14-JUL-10
Nickel (Ni)		197	21.0	G	mg/kg	161	30	14-JUL-10
Phosphorus (P)		1000	800	J	mg/kg	200	400	14-JUL-10
Potassium (K)		3360	2880		mg/kg	15	40	14-JUL-10
Rubidium (Rb)		17.4	16.7		mg/kg	4.6	30	14-JUL-10
Selenium (Se)		0.6	<0.5	RPD-NA	mg/kg	N/A	30	14-JUL-10
Silver (Ag)		0.1	<0.1	RPD-NA	mg/kg	N/A	40	14-JUL-10
Sodium (Na)		3800	3690		mg/kg	3.0	40	14-JUL-10
Strontium (Sr)		120	118		mg/kg	1.2	40	14-JUL-10
Tellurium (Te)		<0.1	<0.1	RPD-NA	mg/kg	N/A	30	14-JUL-10
Thallium (Tl)		0.2	0.2	J	mg/kg	0.0	0.4	14-JUL-10
Tin (Sn)		<5	<5	RPD-NA	mg/kg	N/A	40	14-JUL-10



Quality Control Report

Workorder: L906873

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP								
	Soil							
Batch	R1376503							
WG1133704-1	MB							
Tellurium (Te)			<0.1		mg/kg dwt		0.1	13-JUL-10
Thallium (Tl)			<0.1		mg/kg dwt		0.1	13-JUL-10
Tin (Sn)			<5		mg/kg dwt		5	13-JUL-10
Titanium (Ti)			<0.5		mg/kg dwt		0.5	13-JUL-10
Tungsten (W)			<0.05		mg/kg dwt		0.05	13-JUL-10
Uranium (U)			<0.02		mg/kg dwt		0.02	13-JUL-10
Vanadium (V)			<0.5		mg/kg dwt		0.5	13-JUL-10
Zinc (Zn)			<10		mg/kg dwt		10	13-JUL-10
Zirconium (Zr)			<0.1		mg/kg dwt		0.1	13-JUL-10
MOIST-SK								
	Soil							
Batch	R1355623							
WG1133507-1	DUP	L906873-3						
% Moisture		93.6	93.4		%	0.14	26	14-JUL-10
N-TOT-LECO-SK								
	Soil							
Batch	R1366883							
WG1135051-1	DUP	L906873-4						
Total Nitrogen by LECO		2.57	2.52	J	%	0.045	0.05	15-JUL-10
WG1135051-2	IRM	07-114_SOIL						
Total Nitrogen by LECO			0.080		%		0.06-0.1	15-JUL-10
WG1135051-3	MB							
Total Nitrogen by LECO			<0.020		%		0.02	15-JUL-10
P-TOT-SK								
	Soil							
Batch	R1369823							
WG1133497-2	CRM	SS-1_SOIL						
Phosphorus, Total			101		%		70-130	16-JUL-10
WG1133497-3	DUP	L906873-8						
Phosphorus, Total		510	590	J	mg/kg	80	400	16-JUL-10
WG1133497-4	DUP	L906810-4						
Phosphorus, Total		1150	1160		mg/kg	0.67	30	16-JUL-10
WG1133497-1	MB							
Phosphorus, Total			<100		mg/kg		100	16-JUL-10
PSA-1-SK								
	Soil							



Quality Control Report

Workorder: L906873

Report Date: 02-SEP-10

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PSA-1-SK	Soil							
Batch	R1368865							
WG1133607-1	DUP	L907674-1						
% Sand (2.0mm - 0.05mm)		52.5	52.8	J	%	0.3	5	16-JUL-10
% Silt (0.05mm - 2um)		29.7	28.5	J	%	1.3	5	16-JUL-10
% Clay (<2um)		17.8	18.7	J	%	1.0	5	16-JUL-10
WG1133607-2	IRM	FARM98						
% Sand (2.0mm - 0.05mm)			48.3		%		43-53	16-JUL-10
% Silt (0.05mm - 2um)			29.4		%		21-31	16-JUL-10
% Clay (<2um)			22.3		%		18-28	16-JUL-10

Quality Control Report

Workorder: L906873

Report Date: 02-SEP-10

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Legend:

Limit	99% Confidence Interval (Laboratory Control Limits)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
G	QC result did not meet ALS DQO. Refer to narrative comments for further information.
J	Duplicate results and limits are expressed in terms of absolute difference.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L906873

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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
pH	5	08-JUL-10 16:43	12-JUL-10 11:47	0.25	91	hours	EHTR-FM

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L906873 were received on 09-JUL-10 15:25.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

CADLER #3

L966873

Environmental Division



Report to: AECOM
Company: CLIFF SAMOILOFF
Contact: 99 COMMERCE DR
Address: WINNIPEG MB R3P0Y7
Phone: 204.928.7427 **Fax:** 204.284.7040
Invoice To: Same as Report? Yes No ?

Report Format / Distribution:
 Standard: Other:
 Select: PDF Excel Digital
 Email 1: CLIFF.SAMOILOFF@AECOM.COM
 Email 2: SHAWN@KJERTANSON.COM
 LEANNE.DOLCHER@AECOM.COM

Service Requested: (rush - subject to availability)
 Regular (Default)
 Priority (2-3 Business Days) - 50% Surcharge
 Emergency (1 Business Day) - 100% Surcharge
 For Emergency < 1 Day, ASAP or Weekend - Contact ALS

Client / Project Information:
 Client #: 60157028
 PO / AFE:
 Legal Site Description:
 Quote #: Q24534
 ALS CONTACT: CARSTINE
 Contact: NEERD
 Sampler: LDB, SK

Sample #	Lab Work Order # (lab use only)	Sample Identification (This description will appear on the report)		Date	Time	Sample Type	Acidity	Chlorides	BOD	TLC+TC	ANIONS	Tot Metals+Hg	Diss. Metals+Hg	Gen. Chemistry	N+P	Methane	Soil Prep	Number of Containers
		TD-SQ1-60157028-20100708		8 JULIO	14:05	SEDIMENT												
		TC-SQ1-60157028-20100708		8 JULIO	14:23	SEDIMENT												
		TL-SQ1-60157028-20100708		8 JULIO	13:10	SEDIMENT												
		TDP-SQ1-60157028-20100708		8 JULIO	17:57	SEDIMENT												
		TDP-WQ1-60157028-20100708		8 JULIO	16:43	WATER												
		LL-SQ1-60157028-20100708		8 JULIO	11:18	SEDIMENT												
		LL-SQ2-60157028-20100708		8 JULIO	10:59	SEDIMENT												
		LL-SQ3-60157028-20100708		8 JULIO	10:32	SEDIMENT												

Special Instructions / Requirements / Hazardous Details

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

SHIPMENT RELEASE (lab use only)
 Released by: [Signature] Date & Time: 8 JULIO 2008 15:00
 Received by: [Signature] Date: 8 JULIO 2008 3:05
 Temperature: 1
 Verified by:
 Date & Time:
 Observations:
 Yes / No ?
 If Yes attach SIF

WHITE - REPORT COPY, PINK - FILE COPY, YELLOW - CLIENT COPY
 GENF 18.00 Front



Environmental Division

Certificate of Analysis

AECOM Canada Ltd. (Winnipeg)

ATTN: Clifton Samoiloff

99 Commerce Drive

Winnipeg MB R3P 0Y7

Report Date: 10-SEP-10 10:19 (MT)

Version: FINAL

Lab Work Order #: **L913433**

Date Received: **27-JUL-10**

Project P.O. #: NOT SUBMITTED

Job Reference: 60157028

Legal Site Desc:

CofC Numbers:

Other Information:

Comments:

Paul Nicolas
Account Manager

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L913433-1 TDP-U10-BRSB001 Sampled By: SK, LDB on 09-JUL-10 @ 10:25 Matrix: FISH TISSUE ICPOES & ICPMS in Tissue (Wet Weight) Metals in Tissue by ICPMS							
Aluminum (Al)-Total	<4.0	DLA	4.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Antimony (Sb)-Total	<0.020	DLA	0.020	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Arsenic (As)-Total	0.123		0.020	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Barium (Ba)-Total	2.63		0.020	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Beryllium (Be)-Total	<0.20	DLA	0.20	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Bismuth (Bi)-Total	<0.060	DLA	0.060	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Cadmium (Cd)-Total	<0.010	DLA	0.010	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Calcium (Ca)-Total	12100		4.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Chromium (Cr)-Total	<0.20	DLA	0.20	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Cobalt (Co)-Total	<0.040	DLA	0.040	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Copper (Cu)-Total	1.60		0.020	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Lead (Pb)-Total	<0.040	DLA	0.040	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Lithium (Li)-Total	<0.20	DLA	0.20	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Magnesium (Mg)-Total	504		2.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Manganese (Mn)-Total	10.6		0.020	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Molybdenum (Mo)-Total	0.030		0.020	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Nickel (Ni)-Total	<0.20	DLA	0.20	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Selenium (Se)-Total	<0.40	DLA	0.40	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Strontium (Sr)-Total	11.6		0.020	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Thallium (Tl)-Total	<0.020	DLA	0.020	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Tin (Sn)-Total	<0.10	DLA	0.10	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Uranium (U)-Total	<0.0040	DLA	0.0040	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Vanadium (V)-Total	<0.20	DLA	0.20	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Zinc (Zn)-Total	55.6		0.20	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Metals in Tissue by ICPOES							
Iron (Fe)-Total	28.1		2.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Phosphorus (P)-Total	8820		50	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Potassium (K)-Total	3600		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Sodium (Na)-Total	1260		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Titanium (Ti)-Total	<1.0		1.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Miscellaneous Parameters							
% Moisture	77.6		0.10	%		09-SEP-10	R1461821
Mercury (Hg)-Total	0.102		0.0010	mg/kg wwt	07-SEP-10	09-SEP-10	R1462275
L913433-2 TDP-U10-BRSB002 Sampled By: SK, LDB on 10-JUL-10 @ 09:27 Matrix: FISH TISSUE ICPOES & ICPMS in Tissue (Wet Weight) Metals in Tissue by ICPMS							
Aluminum (Al)-Total	4.7		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Antimony (Sb)-Total	<0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Arsenic (As)-Total	0.038		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Barium (Ba)-Total	1.41		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Beryllium (Be)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Bismuth (Bi)-Total	<0.030		0.030	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cadmium (Cd)-Total	0.0051		0.0050	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Calcium (Ca)-Total	6780		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Chromium (Cr)-Total	0.63		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cobalt (Co)-Total	<0.020		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Copper (Cu)-Total	<1.1	DLB	1.1	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lead (Pb)-Total	<0.020		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L913433-2 TDP-U10-BRSB002 Sampled By: SK, LDB on 10-JUL-10 @ 09:27 Matrix: FISH TISSUE							
Metals in Tissue by ICPMS							
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Magnesium (Mg)-Total	358		1.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Manganese (Mn)-Total	6.94		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Molybdenum (Mo)-Total	0.035		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Nickel (Ni)-Total	<0.50	DLB	0.50	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Selenium (Se)-Total	<0.20		0.20	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Strontium (Sr)-Total	5.57		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Thallium (Tl)-Total	<0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Tin (Sn)-Total	<0.050		0.050	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Uranium (U)-Total	<0.0020		0.0020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Vanadium (V)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Zinc (Zn)-Total	33.7		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Metals in Tissue by ICPOES							
Iron (Fe)-Total	23.6		2.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Phosphorus (P)-Total	5380		50	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Potassium (K)-Total	2930		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Sodium (Na)-Total	480		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Titanium (Ti)-Total	<1.0		1.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Miscellaneous Parameters							
% Moisture	77.1		0.10	%		09-SEP-10	R1461821
Mercury (Hg)-Total	0.0127		0.0010	mg/kg wwt	07-SEP-10	09-SEP-10	R1462275
L913433-3 TDP-U10-BRSB003 Sampled By: SK, LDB on 10-JUL-10 @ 09:27 Matrix: FISH TISSUE							
ICPOES & ICPMS in Tissue (Wet Weight)							
Metals in Tissue by ICPMS							
Aluminum (Al)-Total	5.5		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Antimony (Sb)-Total	<0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Arsenic (As)-Total	0.029		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Barium (Ba)-Total	2.67		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Beryllium (Be)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Bismuth (Bi)-Total	<0.030		0.030	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cadmium (Cd)-Total	<0.0050		0.0050	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Calcium (Ca)-Total	7320		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Chromium (Cr)-Total	0.14		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cobalt (Co)-Total	<0.020		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Copper (Cu)-Total	<1.3	DLB	1.3	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lead (Pb)-Total	0.023		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Magnesium (Mg)-Total	367		1.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Manganese (Mn)-Total	7.49		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Molybdenum (Mo)-Total	0.034		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Nickel (Ni)-Total	<0.20	DLB	0.20	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Selenium (Se)-Total	<0.20		0.20	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Strontium (Sr)-Total	10.3		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Thallium (Tl)-Total	<0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Tin (Sn)-Total	<0.050		0.050	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Uranium (U)-Total	<0.0020		0.0020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Vanadium (V)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Zinc (Zn)-Total	33.3		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Metals in Tissue by ICPOES							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L913433-3 TDP-U10-BRSB003 Sampled By: SK, LDB on 10-JUL-10 @ 09:27 Matrix: FISH TISSUE Metals in Tissue by ICPOES							
Iron (Fe)-Total	28.3		2.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Phosphorus (P)-Total	5970		50	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Potassium (K)-Total	3320		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Sodium (Na)-Total	750		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Titanium (Ti)-Total	<1.0		1.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Miscellaneous Parameters							
% Moisture	74.8		0.10	%		09-SEP-10	R1461821
Mercury (Hg)-Total	0.0182		0.0010	mg/kg wwt	07-SEP-10	09-SEP-10	R1462275
L913433-4 TDP-U10-BRSB004 Sampled By: SK, LDB on 10-JUL-10 @ 09:38 Matrix: FISH TISSUE ICPOES & ICPMS in Tissue (Wet Weight)							
Metals in Tissue by ICPMS							
Aluminum (Al)-Total	<2.0		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Antimony (Sb)-Total	<0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Arsenic (As)-Total	0.030		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Barium (Ba)-Total	1.96		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Beryllium (Be)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Bismuth (Bi)-Total	<0.030		0.030	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cadmium (Cd)-Total	<0.0050		0.0050	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Calcium (Ca)-Total	8800		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Chromium (Cr)-Total	0.29		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cobalt (Co)-Total	<0.020		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Copper (Cu)-Total	<1.0	DLB	1.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lead (Pb)-Total	0.026		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Magnesium (Mg)-Total	403		1.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Manganese (Mn)-Total	7.91		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Molybdenum (Mo)-Total	0.034		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Nickel (Ni)-Total	<0.50	DLB	0.50	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Selenium (Se)-Total	0.22		0.20	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Strontium (Sr)-Total	8.50		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Thallium (Tl)-Total	<0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Tin (Sn)-Total	<0.050		0.050	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Uranium (U)-Total	<0.0020		0.0020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Vanadium (V)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Zinc (Zn)-Total	38.9		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Metals in Tissue by ICPOES							
Iron (Fe)-Total	25.9		2.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Phosphorus (P)-Total	6330		50	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Potassium (K)-Total	3170		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Sodium (Na)-Total	710		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Titanium (Ti)-Total	<1.0		1.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Miscellaneous Parameters							
% Moisture	78.0		0.10	%		09-SEP-10	R1461821
Mercury (Hg)-Total	0.0115		0.0010	mg/kg wwt	07-SEP-10	09-SEP-10	R1462275
L913433-5 TDP-U10-BRSB005 Sampled By: SK, LDB on 10-JUL-10 @ 09:58 Matrix: FISH TISSUE ICPOES & ICPMS in Tissue (Wet Weight)							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L913433-5 TDP-U10-BRSB005 Sampled By: SK, LDB on 10-JUL-10 @ 09:58 Matrix: FISH TISSUE							
Metals in Tissue by ICPMS							
Aluminum (Al)-Total	<2.0		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Antimony (Sb)-Total	<0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Arsenic (As)-Total	0.040		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Barium (Ba)-Total	1.37		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Beryllium (Be)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Bismuth (Bi)-Total	<0.030		0.030	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cadmium (Cd)-Total	0.0146		0.0050	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Calcium (Ca)-Total	5510		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Chromium (Cr)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cobalt (Co)-Total	0.032		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Copper (Cu)-Total	<1.2	DLB	1.2	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lead (Pb)-Total	<0.020		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Magnesium (Mg)-Total	294		1.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Manganese (Mn)-Total	7.47		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Molybdenum (Mo)-Total	0.040		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Nickel (Ni)-Total	<0.30	DLB	0.30	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Selenium (Se)-Total	<0.20		0.20	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Strontium (Sr)-Total	4.82		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Thallium (Tl)-Total	<0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Tin (Sn)-Total	<0.050		0.050	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Uranium (U)-Total	<0.0020		0.0020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Vanadium (V)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Zinc (Zn)-Total	28.0		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Metals in Tissue by ICPOES							
Iron (Fe)-Total	32.9		2.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Phosphorus (P)-Total	5600		50	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Potassium (K)-Total	3690		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Sodium (Na)-Total	1150		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Titanium (Ti)-Total	<1.0		1.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Miscellaneous Parameters							
% Moisture	75.1		0.10	%		09-SEP-10	R1461821
Mercury (Hg)-Total	0.0134		0.0010	mg/kg wwt	07-SEP-10	09-SEP-10	R1462275
L913433-6 TDP-U10-BRSB006 Sampled By: SK, LDB on 10-JUL-10 @ 09:58 Matrix: FISH TISSUE							
ICPOES & ICPMS in Tissue (Wet Weight)							
Metals in Tissue by ICPMS							
Aluminum (Al)-Total	2.4		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Antimony (Sb)-Total	<0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Arsenic (As)-Total	0.049		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Barium (Ba)-Total	1.27		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Beryllium (Be)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Bismuth (Bi)-Total	<0.030		0.030	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cadmium (Cd)-Total	0.0143		0.0050	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Calcium (Ca)-Total	6350		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Chromium (Cr)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cobalt (Co)-Total	0.042		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Copper (Cu)-Total	<1.3	DLB	1.3	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lead (Pb)-Total	0.021		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L913433-6 TDP-U10-BRSB006 Sampled By: SK, LDB on 10-JUL-10 @ 09:58 Matrix: FISH TISSUE							
Metals in Tissue by ICPMS							
Magnesium (Mg)-Total	373		1.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Manganese (Mn)-Total	7.85		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Molybdenum (Mo)-Total	0.052		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Nickel (Ni)-Total	<0.40	DLB	0.40	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Selenium (Se)-Total	0.21		0.20	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Strontium (Sr)-Total	5.64		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Thallium (Tl)-Total	<0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Tin (Sn)-Total	<0.050		0.050	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Uranium (U)-Total	<0.0020		0.0020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Vanadium (V)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Zinc (Zn)-Total	39.4		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Metals in Tissue by ICPOES							
Iron (Fe)-Total	31.9		2.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Phosphorus (P)-Total	5540		50	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Potassium (K)-Total	3490		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Sodium (Na)-Total	810		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Titanium (Ti)-Total	<1.0		1.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Miscellaneous Parameters							
% Moisture	75.0		0.10	%		09-SEP-10	R1461821
Mercury (Hg)-Total	0.0091		0.0010	mg/kg wwt	07-SEP-10	09-SEP-10	R1462275
L913433-7 TDP-U10-BRSB007 Sampled By: SK, LDB on 10-JUL-10 @ 09:58 Matrix: FISH TISSUE							
ICPOES & ICPMS in Tissue (Wet Weight)							
Metals in Tissue by ICPMS							
Aluminum (Al)-Total	<4.0	DLA	4.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Antimony (Sb)-Total	<0.020	DLA	0.020	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Arsenic (As)-Total	0.117		0.020	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Barium (Ba)-Total	3.00		0.020	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Beryllium (Be)-Total	<0.20	DLA	0.20	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Bismuth (Bi)-Total	<0.060	DLA	0.060	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Cadmium (Cd)-Total	<0.010	DLA	0.010	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Calcium (Ca)-Total	13400		4.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Chromium (Cr)-Total	0.36		0.20	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Cobalt (Co)-Total	<0.040	DLA	0.040	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Copper (Cu)-Total	<1.1	DLB	1.1	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Lead (Pb)-Total	<0.040	DLA	0.040	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Lithium (Li)-Total	<0.20	DLA	0.20	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Magnesium (Mg)-Total	520		2.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Manganese (Mn)-Total	12.6		0.020	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Molybdenum (Mo)-Total	0.032		0.020	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Nickel (Ni)-Total	<0.30	DLB	0.30	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Selenium (Se)-Total	<0.40	DLA	0.40	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Strontium (Sr)-Total	12.4		0.020	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Thallium (Tl)-Total	<0.020	DLA	0.020	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Tin (Sn)-Total	<0.10	DLA	0.10	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Uranium (U)-Total	<0.0040	DLA	0.0040	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Vanadium (V)-Total	<0.20	DLA	0.20	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Zinc (Zn)-Total	53.0		0.20	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Metals in Tissue by ICPOES							
Iron (Fe)-Total	22.3		2.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L913433-7 TDP-U10-BRSB007 Sampled By: SK, LDB on 10-JUL-10 @ 09:58 Matrix: FISH TISSUE Metals in Tissue by ICPOES							
Phosphorus (P)-Total	9360		50	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Potassium (K)-Total	3510		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Sodium (Na)-Total	1350		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Titanium (Ti)-Total	<1.0		1.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Miscellaneous Parameters							
% Moisture	78.9		0.10	%		09-SEP-10	R1461821
Mercury (Hg)-Total	0.0496		0.0010	mg/kg wwt	07-SEP-10	09-SEP-10	R1462275
L913433-8 TDP-U10-BRSB008 Sampled By: SK, LDB on 10-JUL-10 @ 09:58 Matrix: FISH TISSUE ICPOES & ICPMS in Tissue (Wet Weight)							
Metals in Tissue by ICPMS							
Aluminum (Al)-Total	<2.0		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Antimony (Sb)-Total	<0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Arsenic (As)-Total	0.032		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Barium (Ba)-Total	1.90		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Beryllium (Be)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Bismuth (Bi)-Total	<0.030		0.030	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cadmium (Cd)-Total	0.0052		0.0050	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Calcium (Ca)-Total	5920		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Chromium (Cr)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cobalt (Co)-Total	<0.020		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Copper (Cu)-Total	<1.0	DLB	1.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lead (Pb)-Total	<0.020		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Magnesium (Mg)-Total	333		1.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Manganese (Mn)-Total	5.98		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Molybdenum (Mo)-Total	0.035		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Nickel (Ni)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Selenium (Se)-Total	0.20		0.20	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Strontium (Sr)-Total	5.76		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Thallium (Tl)-Total	<0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Tin (Sn)-Total	<0.050		0.050	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Uranium (U)-Total	<0.0020		0.0020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Vanadium (V)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Zinc (Zn)-Total	37.1		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Metals in Tissue by ICPOES							
Iron (Fe)-Total	24.4		2.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Phosphorus (P)-Total	5370		50	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Potassium (K)-Total	3440		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Sodium (Na)-Total	1030		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Titanium (Ti)-Total	<1.0		1.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Miscellaneous Parameters							
% Moisture	75.4		0.10	%		09-SEP-10	R1461821
Mercury (Hg)-Total	0.0097		0.0010	mg/kg wwt	07-SEP-10	09-SEP-10	R1462275
L913433-9 TDP-U10-BRSB009 Sampled By: SK, LDB on 10-JUL-10 @ 09:58 Matrix: FISH TISSUE ICPOES & ICPMS in Tissue (Wet Weight)							
Metals in Tissue by ICPMS							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L913433-9 TDP-U10-BRSB009 Sampled By: SK, LDB on 10-JUL-10 @ 09:58 Matrix: FISH TISSUE							
Metals in Tissue by ICPMS							
Aluminum (Al)-Total	<2.0		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Antimony (Sb)-Total	<0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Arsenic (As)-Total	<0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Barium (Ba)-Total	0.431		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Beryllium (Be)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Bismuth (Bi)-Total	<0.030		0.030	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cadmium (Cd)-Total	<0.0050		0.0050	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Calcium (Ca)-Total	2240		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Chromium (Cr)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cobalt (Co)-Total	<0.020		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Copper (Cu)-Total	<0.30	DLB	0.30	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lead (Pb)-Total	<0.020		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Magnesium (Mg)-Total	118		1.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Manganese (Mn)-Total	2.04		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Molybdenum (Mo)-Total	0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Nickel (Ni)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Selenium (Se)-Total	<0.20		0.20	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Strontium (Sr)-Total	1.87		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Thallium (Tl)-Total	<0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Tin (Sn)-Total	<0.050		0.050	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Uranium (U)-Total	<0.0020		0.0020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Vanadium (V)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Zinc (Zn)-Total	9.93		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Metals in Tissue by ICPOES							
Iron (Fe)-Total	23.3		2.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Phosphorus (P)-Total	6430		50	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Potassium (K)-Total	3710		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Sodium (Na)-Total	1150		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Titanium (Ti)-Total	<1.0		1.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Miscellaneous Parameters							
% Moisture	75.1		0.10	%		09-SEP-10	R1461821
Mercury (Hg)-Total	0.0120		0.0010	mg/kg wwt	07-SEP-10	09-SEP-10	R1462275
L913433-10 TDP-U10-BRSB010 Sampled By: SK, LDB on 10-JUL-10 @ 09:58 Matrix: FISH TISSUE							
ICPOES & ICPMS in Tissue (Wet Weight)							
Metals in Tissue by ICPMS							
Aluminum (Al)-Total	<2.0		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Antimony (Sb)-Total	0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Arsenic (As)-Total	0.032		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Barium (Ba)-Total	1.69		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Beryllium (Be)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Bismuth (Bi)-Total	<0.030		0.030	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cadmium (Cd)-Total	0.0056		0.0050	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Calcium (Ca)-Total	8250		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Chromium (Cr)-Total	0.16		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cobalt (Co)-Total	<0.020		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Copper (Cu)-Total	<1.0	DLB	1.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lead (Pb)-Total	<0.020		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L913433-10 TDP-U10-BRSB010 Sampled By: SK, LDB on 10-JUL-10 @ 09:58 Matrix: FISH TISSUE							
Metals in Tissue by ICPMS							
Magnesium (Mg)-Total	396		1.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Manganese (Mn)-Total	7.35		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Molybdenum (Mo)-Total	0.039		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Nickel (Ni)-Total	<0.20	DLB	0.20	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Selenium (Se)-Total	0.24		0.20	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Strontium (Sr)-Total	7.09		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Thallium (Tl)-Total	<0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Tin (Sn)-Total	<0.050		0.050	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Uranium (U)-Total	<0.0020		0.0020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Vanadium (V)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Zinc (Zn)-Total	36.2		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Metals in Tissue by ICPOES							
Iron (Fe)-Total	19.1		2.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Phosphorus (P)-Total	6950		50	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Potassium (K)-Total	3700		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Sodium (Na)-Total	1140		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Titanium (Ti)-Total	<1.0		1.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Miscellaneous Parameters							
% Moisture	73.3		0.10	%		09-SEP-10	R1461821
Mercury (Hg)-Total	0.0131		0.0010	mg/kg wwt	07-SEP-10	09-SEP-10	R1462275
L913433-11 TDP-U10-BRSB011 Sampled By: SK, LDB on 10-JUL-10 @ 09:58 Matrix: FISH TISSUE							
ICPOES & ICPMS in Tissue (Wet Weight)							
Metals in Tissue by ICPMS							
Aluminum (Al)-Total	<4.0	DLA	4.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Antimony (Sb)-Total	<0.020	DLA	0.020	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Arsenic (As)-Total	0.087		0.020	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Barium (Ba)-Total	2.72		0.020	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Beryllium (Be)-Total	<0.20	DLA	0.20	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Bismuth (Bi)-Total	<0.060	DLA	0.060	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Cadmium (Cd)-Total	<0.010	DLA	0.010	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Calcium (Ca)-Total	12400		4.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Chromium (Cr)-Total	0.23		0.20	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Cobalt (Co)-Total	<0.040	DLA	0.040	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Copper (Cu)-Total	<1.1	DLB	1.1	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Lead (Pb)-Total	<0.040	DLA	0.040	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Lithium (Li)-Total	<0.20	DLA	0.20	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Magnesium (Mg)-Total	493		2.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Manganese (Mn)-Total	14.0		0.020	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Molybdenum (Mo)-Total	0.030		0.020	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Nickel (Ni)-Total	<0.20	DLA	0.20	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Selenium (Se)-Total	<0.40	DLA	0.40	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Strontium (Sr)-Total	12.0		0.020	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Thallium (Tl)-Total	<0.020	DLA	0.020	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Tin (Sn)-Total	<0.10	DLA	0.10	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Uranium (U)-Total	<0.0040	DLA	0.0040	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Vanadium (V)-Total	<0.20	DLA	0.20	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Zinc (Zn)-Total	50.2		0.20	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Metals in Tissue by ICPOES							
Iron (Fe)-Total	20.1		2.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L913433-11 TDP-U10-BRSB011 Sampled By: SK, LDB on 10-JUL-10 @ 09:58 Matrix: FISH TISSUE Metals in Tissue by ICPOES							
Phosphorus (P)-Total	8820		50	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Potassium (K)-Total	3090		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Sodium (Na)-Total	1580		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Titanium (Ti)-Total	<1.0		1.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Miscellaneous Parameters							
% Moisture	79.5		0.10	%		09-SEP-10	R1461821
Mercury (Hg)-Total	0.0386		0.0010	mg/kg wwt	07-SEP-10	09-SEP-10	R1462275
L913433-12 TDP-U10-BRSB012 Sampled By: SK, LDB on 10-JUL-10 @ 11:49 Matrix: FISH TISSUE ICPOES & ICPMS in Tissue (Wet Weight)							
Metals in Tissue by ICPMS							
Aluminum (Al)-Total	6.3		4.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Antimony (Sb)-Total	<0.020	DLIV	0.020	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Arsenic (As)-Total	0.055		0.020	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Barium (Ba)-Total	1.84		0.020	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Beryllium (Be)-Total	<0.20	DLIV	0.20	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Bismuth (Bi)-Total	<0.060	DLIV	0.060	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Cadmium (Cd)-Total	<0.010	DLIV	0.010	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Calcium (Ca)-Total	5790		4.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Chromium (Cr)-Total	<0.20	DLIV	0.20	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Cobalt (Co)-Total	<0.040	DLIV	0.040	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Copper (Cu)-Total	<1.2	DLB	1.2	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Lead (Pb)-Total	0.044		0.040	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Lithium (Li)-Total	<0.20	DLIV	0.20	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Magnesium (Mg)-Total	399		2.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Manganese (Mn)-Total	6.00		0.020	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Molybdenum (Mo)-Total	0.043		0.020	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Nickel (Ni)-Total	0.70		0.20	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Selenium (Se)-Total	<0.40	DLIV	0.40	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Strontium (Sr)-Total	5.93		0.020	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Thallium (Tl)-Total	<0.020	DLIV	0.020	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Tin (Sn)-Total	<0.10	DLIV	0.10	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Uranium (U)-Total	<0.0040	DLIV	0.0040	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Vanadium (V)-Total	<0.20	DLIV	0.20	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Zinc (Zn)-Total	27.4		0.20	mg/kg wwt	07-SEP-10	08-SEP-10	R1462213
Metals in Tissue by ICPOES							
Iron (Fe)-Total	45.0		2.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Phosphorus (P)-Total	5430		50	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Potassium (K)-Total	3640		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Sodium (Na)-Total	1150		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Titanium (Ti)-Total	<1.0		1.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Miscellaneous Parameters							
% Moisture	75.9		0.10	%		09-SEP-10	R1461821
Mercury (Hg)-Total	0.0110	DLIS	0.0020	mg/kg wwt	07-SEP-10	09-SEP-10	R1462275
L913433-13 TDP-U10-BRSB013 Sampled By: SK, LDB on 10-JUL-10 @ 12:40 Matrix: FISH TISSUE ICPOES & ICPMS in Tissue (Wet Weight)							
Metals in Tissue by ICPMS							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L913433-13 TDP-U10-BRSB013 Sampled By: SK, LDB on 10-JUL-10 @ 12:40 Matrix: FISH TISSUE							
Metals in Tissue by ICPMS							
Aluminum (Al)-Total	2.5		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Antimony (Sb)-Total	<0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Arsenic (As)-Total	0.037		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Barium (Ba)-Total	1.26		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Beryllium (Be)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Bismuth (Bi)-Total	<0.030		0.030	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cadmium (Cd)-Total	0.0083		0.0050	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Calcium (Ca)-Total	5320		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Chromium (Cr)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cobalt (Co)-Total	<0.020		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Copper (Cu)-Total	<1.2	DLB	1.2	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lead (Pb)-Total	<0.020		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Magnesium (Mg)-Total	335		1.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Manganese (Mn)-Total	9.40		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Molybdenum (Mo)-Total	0.035		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Nickel (Ni)-Total	0.71		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Selenium (Se)-Total	<0.20		0.20	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Strontium (Sr)-Total	4.58		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Thallium (Tl)-Total	<0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Tin (Sn)-Total	<0.050		0.050	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Uranium (U)-Total	<0.0020		0.0020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Vanadium (V)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Zinc (Zn)-Total	33.3		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Metals in Tissue by ICPOES							
Iron (Fe)-Total	44.4		2.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Phosphorus (P)-Total	4750		50	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Potassium (K)-Total	3360		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Sodium (Na)-Total	1180		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Titanium (Ti)-Total	<1.0		1.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Miscellaneous Parameters							
% Moisture	79.3		0.10	%		09-SEP-10	R1461821
Mercury (Hg)-Total	0.0121		0.0010	mg/kg wwt	07-SEP-10	09-SEP-10	R1462275
L913433-14 TDP-U10-BRSB014 Sampled By: SK, LDB on 10-JUL-10 @ 12:40 Matrix: FISH TISSUE							
ICPOES & ICPMS in Tissue (Wet Weight)							
Metals in Tissue by ICPMS							
Aluminum (Al)-Total	8.1		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Antimony (Sb)-Total	<0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Arsenic (As)-Total	0.087		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Barium (Ba)-Total	2.50		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Beryllium (Be)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Bismuth (Bi)-Total	<0.030		0.030	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cadmium (Cd)-Total	0.0095		0.0050	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Calcium (Ca)-Total	6250		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Chromium (Cr)-Total	0.14		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cobalt (Co)-Total	0.031		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Copper (Cu)-Total	1.47		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lead (Pb)-Total	0.047		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L913433-14 TDP-U10-BRSB014							
Sampled By: SK, LDB on 10-JUL-10 @ 12:40							
Matrix: FISH TISSUE							
Metals in Tissue by ICPMS							
Magnesium (Mg)-Total	381		1.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Manganese (Mn)-Total	9.46		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Molybdenum (Mo)-Total	0.053		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Nickel (Ni)-Total	<0.20	DLB	0.20	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Selenium (Se)-Total	0.22		0.20	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Strontium (Sr)-Total	5.85		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Thallium (Tl)-Total	<0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Tin (Sn)-Total	<0.050		0.050	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Uranium (U)-Total	<0.0020		0.0020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Vanadium (V)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Zinc (Zn)-Total	32.6		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Metals in Tissue by ICPOES							
Iron (Fe)-Total	49.4		2.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Phosphorus (P)-Total	5290		50	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Potassium (K)-Total	3620		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Sodium (Na)-Total	1180		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Titanium (Ti)-Total	1.1		1.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Miscellaneous Parameters							
% Moisture	74.7		0.10	%		09-SEP-10	R1461821
Mercury (Hg)-Total	0.0077		0.0010	mg/kg wwt	07-SEP-10	09-SEP-10	R1462275
L913433-15 TDP-U10-BRSB015							
Sampled By: SK, LDB on 10-JUL-10 @ 12:40							
Matrix: FISH TISSUE							
ICPOES & ICPMS in Tissue (Wet Weight)							
Metals in Tissue by ICPMS							
Aluminum (Al)-Total	<4.0	DLIV	4.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Antimony (Sb)-Total	<0.020	DLIV	0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Arsenic (As)-Total	0.048		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Barium (Ba)-Total	1.40		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Beryllium (Be)-Total	<0.20	DLIV	0.20	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Bismuth (Bi)-Total	<0.060	DLIV	0.060	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cadmium (Cd)-Total	<0.010	DLIV	0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Calcium (Ca)-Total	5160		4.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Chromium (Cr)-Total	<0.20	DLIV	0.20	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cobalt (Co)-Total	<0.040	DLIV	0.040	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Copper (Cu)-Total	<1.2	DLB	1.2	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lead (Pb)-Total	0.048		0.040	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lithium (Li)-Total	<0.20	DLIV	0.20	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Magnesium (Mg)-Total	359		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Manganese (Mn)-Total	8.27		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Molybdenum (Mo)-Total	0.050		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Nickel (Ni)-Total	1.76		0.20	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Selenium (Se)-Total	<0.40	DLIV	0.40	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Strontium (Sr)-Total	4.80		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Thallium (Tl)-Total	<0.020	DLIV	0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Tin (Sn)-Total	<0.10	DLIV	0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Uranium (U)-Total	<0.0040	DLIV	0.0040	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Vanadium (V)-Total	<0.20	DLIV	0.20	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Zinc (Zn)-Total	29.6		0.20	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Metals in Tissue by ICPOES							
Iron (Fe)-Total	41.2		2.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L913433-15 TDP-U10-BRSB015 Sampled By: SK, LDB on 10-JUL-10 @ 12:40 Matrix: FISH TISSUE Metals in Tissue by ICPOES							
Phosphorus (P)-Total	4570		50	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Potassium (K)-Total	3370		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Sodium (Na)-Total	1110		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Titanium (Ti)-Total	<1.0		1.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Miscellaneous Parameters							
% Moisture	79.6		0.10	%		09-SEP-10	R1461821
Mercury (Hg)-Total	0.0088	DLIS	0.0020	mg/kg wwt	07-SEP-10	09-SEP-10	R1462275
L913433-16 TDP-U10-BRSB016 Sampled By: SK, LDB on 10-JUL-10 @ 12:40 Matrix: FISH TISSUE ICPOES & ICPMS in Tissue (Wet Weight)							
Metals in Tissue by ICPMS							
Aluminum (Al)-Total	<4.0	DLIV	4.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Antimony (Sb)-Total	<0.020	DLIV	0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Arsenic (As)-Total	0.080		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Barium (Ba)-Total	2.96		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Beryllium (Be)-Total	<0.20	DLIV	0.20	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Bismuth (Bi)-Total	<0.060	DLIV	0.060	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cadmium (Cd)-Total	0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Calcium (Ca)-Total	7250		4.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Chromium (Cr)-Total	<0.20	DLIV	0.20	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cobalt (Co)-Total	<0.040	DLIV	0.040	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Copper (Cu)-Total	<1.4	DLB	1.4	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lead (Pb)-Total	<0.040	DLIV	0.040	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lithium (Li)-Total	<0.20	DLIV	0.20	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Magnesium (Mg)-Total	399		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Manganese (Mn)-Total	11.5		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Molybdenum (Mo)-Total	0.057		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Nickel (Ni)-Total	<0.40	DLB	0.40	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Selenium (Se)-Total	<0.40	DLIV	0.40	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Strontium (Sr)-Total	6.26		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Thallium (Tl)-Total	<0.020	DLIV	0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Tin (Sn)-Total	<0.10	DLIV	0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Uranium (U)-Total	<0.0040	DLIV	0.0040	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Vanadium (V)-Total	<0.20	DLIV	0.20	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Zinc (Zn)-Total	33.1		0.20	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Metals in Tissue by ICPOES							
Iron (Fe)-Total	77.2		2.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Phosphorus (P)-Total	5780		50	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Potassium (K)-Total	3610		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Sodium (Na)-Total	1260		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Titanium (Ti)-Total	<1.0		1.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Miscellaneous Parameters							
% Moisture	76.1		0.10	%		09-SEP-10	R1461821
Mercury (Hg)-Total	0.019	DLIS	0.010	mg/kg wwt	07-SEP-10	09-SEP-10	R1462275
L913433-17 TDP-U10-BRSB017 Sampled By: SK, LDB on 10-JUL-10 @ 12:40 Matrix: FISH TISSUE ICPOES & ICPMS in Tissue (Wet Weight)							
Metals in Tissue by ICPMS							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L913433-17 TDP-U10-BRSB017 Sampled By: SK, LDB on 10-JUL-10 @ 12:40 Matrix: FISH TISSUE							
Metals in Tissue by ICPMS							
Aluminum (Al)-Total	2.2		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Antimony (Sb)-Total	<0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Arsenic (As)-Total	0.065		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Barium (Ba)-Total	1.96		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Beryllium (Be)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Bismuth (Bi)-Total	<0.030		0.030	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cadmium (Cd)-Total	0.0073		0.0050	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Calcium (Ca)-Total	5770		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Chromium (Cr)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cobalt (Co)-Total	0.022		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Copper (Cu)-Total	1.48		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lead (Pb)-Total	<0.020		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Magnesium (Mg)-Total	359		1.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Manganese (Mn)-Total	8.12		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Molybdenum (Mo)-Total	0.052		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Nickel (Ni)-Total	<0.20	DLB	0.20	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Selenium (Se)-Total	0.24		0.20	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Strontium (Sr)-Total	5.47		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Thallium (Tl)-Total	<0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Tin (Sn)-Total	<0.050		0.050	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Uranium (U)-Total	<0.0020		0.0020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Vanadium (V)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Zinc (Zn)-Total	31.0		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Metals in Tissue by ICPOES							
Iron (Fe)-Total	50.8		2.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Phosphorus (P)-Total	5170		50	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Potassium (K)-Total	3640		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Sodium (Na)-Total	1120		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Titanium (Ti)-Total	<1.0		1.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Miscellaneous Parameters							
% Moisture	74.3		0.10	%		09-SEP-10	R1461821
Mercury (Hg)-Total	0.0103		0.0010	mg/kg wwt	07-SEP-10	09-SEP-10	R1462275
L913433-18 TDP-U10-BRSB018 Sampled By: SK, LDB on 10-JUL-10 @ 12:40 Matrix: FISH TISSUE							
ICPOES & ICPMS in Tissue (Wet Weight)							
Metals in Tissue by ICPMS							
Aluminum (Al)-Total	2.9		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Antimony (Sb)-Total	<0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Arsenic (As)-Total	0.072		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Barium (Ba)-Total	1.53		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Beryllium (Be)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Bismuth (Bi)-Total	<0.030		0.030	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cadmium (Cd)-Total	0.0096		0.0050	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Calcium (Ca)-Total	6670		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Chromium (Cr)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cobalt (Co)-Total	<0.020		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Copper (Cu)-Total	1.40		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lead (Pb)-Total	<0.020		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L913433-18 TDP-U10-BRSB018 Sampled By: SK, LDB on 10-JUL-10 @ 12:40 Matrix: FISH TISSUE							
Metals in Tissue by ICPMS							
Magnesium (Mg)-Total	381		1.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Manganese (Mn)-Total	8.78		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Molybdenum (Mo)-Total	0.057		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Nickel (Ni)-Total	<0.40	DLB	0.40	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Selenium (Se)-Total	0.25		0.20	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Strontium (Sr)-Total	6.52		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Thallium (Tl)-Total	<0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Tin (Sn)-Total	<0.050		0.050	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Uranium (U)-Total	<0.0020		0.0020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Vanadium (V)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Zinc (Zn)-Total	33.3		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Metals in Tissue by ICPOES							
Iron (Fe)-Total	50.9		2.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Phosphorus (P)-Total	5430		50	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Potassium (K)-Total	3570		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Sodium (Na)-Total	1200		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Titanium (Ti)-Total	<1.0		1.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Miscellaneous Parameters							
% Moisture	75.6		0.10	%		09-SEP-10	R1461821
Mercury (Hg)-Total	0.0088	DLIS	0.0020	mg/kg wwt	07-SEP-10	09-SEP-10	R1462275
L913433-19 TDP-U10-BRSB019 Sampled By: SK, LDB on 10-JUL-10 @ 12:40 Matrix: FISH TISSUE							
ICPOES & ICPMS in Tissue (Wet Weight)							
Metals in Tissue by ICPMS							
Aluminum (Al)-Total	<2.0		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Antimony (Sb)-Total	<0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Arsenic (As)-Total	0.056		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Barium (Ba)-Total	2.33		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Beryllium (Be)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Bismuth (Bi)-Total	<0.030		0.030	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cadmium (Cd)-Total	0.0101		0.0050	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Calcium (Ca)-Total	6570		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Chromium (Cr)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cobalt (Co)-Total	0.037		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Copper (Cu)-Total	1.48		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lead (Pb)-Total	<0.020		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Magnesium (Mg)-Total	368		1.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Manganese (Mn)-Total	9.69		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Molybdenum (Mo)-Total	0.048		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Nickel (Ni)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Selenium (Se)-Total	0.21		0.20	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Strontium (Sr)-Total	6.22		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Thallium (Tl)-Total	<0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Tin (Sn)-Total	<0.050		0.050	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Uranium (U)-Total	<0.0020		0.0020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Vanadium (V)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Zinc (Zn)-Total	31.7		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Metals in Tissue by ICPOES							
Iron (Fe)-Total	36.0		2.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L913433-19 TDP-U10-BRSB019 Sampled By: SK, LDB on 10-JUL-10 @ 12:40 Matrix: FISH TISSUE							
Metals in Tissue by ICPOES							
Phosphorus (P)-Total	5260		50	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Potassium (K)-Total	3320		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Sodium (Na)-Total	1020		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Titanium (Ti)-Total	<1.0		1.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Miscellaneous Parameters							
% Moisture	76.0		0.10	%		09-SEP-10	R1461821
Mercury (Hg)-Total	0.0093		0.0010	mg/kg wwt	07-SEP-10	09-SEP-10	R1462275
L913433-20 TDP-U10-BRSB020 Sampled By: SK, LDB on 10-JUL-10 @ 12:40 Matrix: FISH TISSUE							
ICPOES & ICPMS in Tissue (Wet Weight)							
Metals in Tissue by ICPMS							
Aluminum (Al)-Total	<2.0		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Antimony (Sb)-Total	<0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Arsenic (As)-Total	0.053		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Barium (Ba)-Total	1.79		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Beryllium (Be)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Bismuth (Bi)-Total	<0.030		0.030	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cadmium (Cd)-Total	0.0066		0.0050	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Calcium (Ca)-Total	6530		2.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Chromium (Cr)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Cobalt (Co)-Total	<0.020		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Copper (Cu)-Total	<1.2	DLB	1.2	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lead (Pb)-Total	<0.020		0.020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Magnesium (Mg)-Total	367		1.0	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Manganese (Mn)-Total	9.18		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Molybdenum (Mo)-Total	0.037		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Nickel (Ni)-Total	<0.50	DLB	0.50	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Selenium (Se)-Total	0.23		0.20	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Strontium (Sr)-Total	6.05		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Thallium (Tl)-Total	<0.010		0.010	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Tin (Sn)-Total	<0.050		0.050	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Uranium (U)-Total	<0.0020		0.0020	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Vanadium (V)-Total	<0.10		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Zinc (Zn)-Total	30.9		0.10	mg/kg wwt	07-SEP-10	07-SEP-10	R1461389
Metals in Tissue by ICPOES							
Iron (Fe)-Total	30.0		2.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Phosphorus (P)-Total	5520		50	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Potassium (K)-Total	3430		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Sodium (Na)-Total	1050		200	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Titanium (Ti)-Total	<1.0		1.0	mg/kg wwt	07-SEP-10	08-SEP-10	R1461383
Miscellaneous Parameters							
% Moisture	75.6		0.10	%		09-SEP-10	R1461821
Mercury (Hg)-Total	0.0116		0.0010	mg/kg wwt	07-SEP-10	09-SEP-10	R1462275

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Method Blank	Copper (Cu)-Total	MB-LOR	L913433-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -3, -4, -5, -6, -7, -8, -9
Method Blank	Nickel (Ni)-Total	MB-LOR	L913433-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -3, -4, -5, -6, -7, -8, -9
Method Blank	Zinc (Zn)-Total	MB-LOR	L913433-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -3, -4, -5, -6, -7, -8, -9

Sample Parameter Qualifier Key:

Qualifier	Description
DLA	Detection Limit Adjusted For required dilution
DLB	Detection limit was raised due to detection of analyte at comparable level in Method Blank.
DLIS	Detection Limit Adjusted: Insufficient Sample
DLIV	Detection Limit Adjusted: Lower Initial Volume
MB-LOR	Method Blank exceeds ALS DQO. LORs adjusted for samples with positive hits below 5 times blank level. Please contact ALS if re-analysis is required.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
HG-WET-CVAFS-VA	Tissue	Mercury in Tissue by CVAFS	EPA 200.3, EPA 245.7
<p>This method is adapted from US EPA Method 200.3 "Sample Procedures for Spectrochemical Determination of Total Recoverable Elements in Biological Tissues" (1996). Tissue samples are homogenized and sub-sampled prior to hotblock digestion with nitric and hydrochloric acids, in combination with repeated additions of hydrogen peroxide. Analysis is by atomic fluorescence spectrophotometry, adapted from US EPA Method 245.7. This digestion procedure was implemented on October 5, 2009.</p>			
MET-WET-ICP-VA	Tissue	Metals in Tissue by ICPOES	EPA 200.3, EPA 6010B
<p>This method is adapted from US EPA Method 200.3 "Sample Procedures for Spectrochemical Determination of Total Recoverable Elements in Biological Tissues" (1996). Tissue samples are homogenized and sub-sampled prior to hotblock digestion with nitric and hydrochloric acids, in combination with repeated additions of hydrogen peroxide. Analysis is by Inductively Coupled Plasma - Optical Emission Spectrophotometry, adapted from US EPA Method 6010B. This digestion procedure was implemented on October 5, 2009.</p>			
MET-WET-MS-VA	Tissue	Metals in Tissue by ICPMS	EPA 200.3, EPA 6020A
<p>This method is adapted from US EPA Method 200.3 "Sample Procedures for Spectrochemical Determination of Total Recoverable Elements in Biological Tissues" (1996). Tissue samples are homogenized and sub-sampled prior to hotblock digestion with nitric and hydrochloric acids, in combination with repeated additions of hydrogen peroxide. Analysis is by Inductively Coupled Plasma - Mass Spectrometry, adapted from US EPA Method 6020A. This digestion procedure was implemented on October 5, 2009</p>			
MOISTURE-TISS-VA	Tissue	% Moisture in Tissues	ASTM METHOD D2974-00
<p>This analysis is carried out gravimetrically by drying the sample at 105 C for a minimum of six hours.</p>			

** 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 LABORATORY GROUP - VANCOUVER, BC, CANADA

Chain of Custody Numbers:

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
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GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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.



Quality Control Report

Workorder: L913433

Report Date: 10-SEP-10

Page 1 of 5

Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-WET-CVAFS-VA		Tissue						
Batch	R1462275							
WG1162707-3 CRM		VA-NRC-TORT2						
Mercury (Hg)-Total			92		%		70-130	09-SEP-10
WG1162707-4 CRM		VA-NRC-DOLT4						
Mercury (Hg)-Total			112		%		70-130	09-SEP-10
WG1162707-1 MB								
Mercury (Hg)-Total			<0.0010		mg/kg wwt		0.001	09-SEP-10
WG1162707-2 MB								
Mercury (Hg)-Total			<0.0010		mg/kg wwt		0.001	09-SEP-10
MET-WET-ICP-VA		Tissue						
Batch	R1461383							
WG1162707-3 CRM		VA-NRC-TORT2						
Iron (Fe)-Total			107		%		70-130	08-SEP-10
WG1162707-4 CRM		VA-NRC-DOLT4						
Iron (Fe)-Total			104		%		70-130	08-SEP-10
WG1162707-1 MB								
Iron (Fe)-Total			<2.0		mg/kg wwt		2	08-SEP-10
Phosphorus (P)-Total			<50		mg/kg wwt		50	08-SEP-10
Potassium (K)-Total			<200		mg/kg wwt		200	08-SEP-10
Sodium (Na)-Total			<200		mg/kg wwt		200	08-SEP-10
Titanium (Ti)-Total			<1.0		mg/kg wwt		1	08-SEP-10
WG1162707-2 MB								
Iron (Fe)-Total			<2.0		mg/kg wwt		2	08-SEP-10
Phosphorus (P)-Total			<50		mg/kg wwt		50	08-SEP-10
Potassium (K)-Total			<200		mg/kg wwt		200	08-SEP-10
Sodium (Na)-Total			<200		mg/kg wwt		200	08-SEP-10
Titanium (Ti)-Total			<1.0		mg/kg wwt		1	08-SEP-10
MET-WET-MS-VA		Tissue						
Batch	R1461389							
WG1162707-3 CRM		VA-NRC-TORT2						
Arsenic (As)-Total			110		%		70-130	07-SEP-10
Cadmium (Cd)-Total			112		%		70-130	07-SEP-10
Chromium (Cr)-Total			0.62		mg/kg wwt		0-1.77	07-SEP-10
Cobalt (Co)-Total			113		%		70-130	07-SEP-10
Copper (Cu)-Total			102		%		70-130	07-SEP-10
Lead (Pb)-Total			0.361		mg/kg wwt		0.15-0.55	07-SEP-10
Manganese (Mn)-Total			105		%		70-130	07-SEP-10



Quality Control Report

Workorder: L913433

Report Date: 10-SEP-10

Page 2 of 5

Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-WET-MS-VA								
	Tissue							
Batch	R1461389							
WG1162707-3 CRM		VA-NRC-TORT2						
Molybdenum (Mo)-Total			113		%		70-130	07-SEP-10
Nickel (Ni)-Total			104		%		70-130	07-SEP-10
Selenium (Se)-Total			120		%		70-130	07-SEP-10
Strontium (Sr)-Total			100		%		70-130	07-SEP-10
Vanadium (V)-Total			1.89		mg/kg wwt		0.64-2.64	07-SEP-10
Zinc (Zn)-Total			108		%		70-130	07-SEP-10
Batch	R1462213							
WG1162707-4 CRM		VA-NRC-DOLT4						
Arsenic (As)-Total			103		%		70-130	08-SEP-10
Cadmium (Cd)-Total			100		%		70-130	08-SEP-10
Copper (Cu)-Total			106		%		70-130	08-SEP-10
Lead (Pb)-Total			0.175		mg/kg wwt		0.06-0.26	08-SEP-10
Nickel (Ni)-Total			0.82		mg/kg wwt		0.47-1.47	08-SEP-10
Selenium (Se)-Total			111		%		70-130	08-SEP-10
Zinc (Zn)-Total			89		%		70-130	08-SEP-10
WG1162707-1 MB								
Aluminum (Al)-Total			<2.0		mg/kg wwt		2	08-SEP-10
Antimony (Sb)-Total			<0.010		mg/kg wwt		0.01	08-SEP-10
Arsenic (As)-Total			<0.010		mg/kg wwt		0.01	08-SEP-10
Barium (Ba)-Total			<0.010		mg/kg wwt		0.01	08-SEP-10
Beryllium (Be)-Total			<0.10		mg/kg wwt		0.1	08-SEP-10
Bismuth (Bi)-Total			<0.030		mg/kg wwt		0.03	08-SEP-10
Cadmium (Cd)-Total			<0.0050		mg/kg wwt		0.005	08-SEP-10
Calcium (Ca)-Total			<2.0		mg/kg wwt		2	08-SEP-10
Chromium (Cr)-Total			<0.10		mg/kg wwt		0.1	08-SEP-10
Cobalt (Co)-Total			<0.020		mg/kg wwt		0.02	08-SEP-10
Copper (Cu)-Total			0.275	MB-LOR	mg/kg wwt		0.01	08-SEP-10
Lead (Pb)-Total			<0.020		mg/kg wwt		0.02	08-SEP-10
Lithium (Li)-Total			<0.10		mg/kg wwt		0.1	08-SEP-10
Magnesium (Mg)-Total			<1.0		mg/kg wwt		1	08-SEP-10
Manganese (Mn)-Total			<0.010		mg/kg wwt		0.01	08-SEP-10
Molybdenum (Mo)-Total			<0.010		mg/kg wwt		0.01	08-SEP-10
Nickel (Ni)-Total			0.12	MB-LOR	mg/kg wwt		0.1	08-SEP-10
Selenium (Se)-Total			<0.20		mg/kg wwt		0.2	08-SEP-10



Quality Control Report

Workorder: L913433

Report Date: 10-SEP-10

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-WET-MS-VA		Tissue						
Batch	R1462213							
WG1162707-1 MB								
Strontium (Sr)-Total			<0.010		mg/kg wwt		0.01	08-SEP-10
Thallium (Tl)-Total			<0.010		mg/kg wwt		0.01	08-SEP-10
Tin (Sn)-Total			<0.050		mg/kg wwt		0.05	08-SEP-10
Uranium (U)-Total			<0.0020		mg/kg wwt		0.002	08-SEP-10
Vanadium (V)-Total			<0.10		mg/kg wwt		0.1	08-SEP-10
Zinc (Zn)-Total			0.17	MB-LOR	mg/kg wwt		0.1	08-SEP-10
WG1162707-2 MB								
Aluminum (Al)-Total			<2.0		mg/kg wwt		2	08-SEP-10
Antimony (Sb)-Total			<0.010		mg/kg wwt		0.01	08-SEP-10
Arsenic (As)-Total			<0.010		mg/kg wwt		0.01	08-SEP-10
Barium (Ba)-Total			<0.010		mg/kg wwt		0.01	08-SEP-10
Beryllium (Be)-Total			<0.10		mg/kg wwt		0.1	08-SEP-10
Bismuth (Bi)-Total			<0.030		mg/kg wwt		0.03	08-SEP-10
Cadmium (Cd)-Total			<0.0050		mg/kg wwt		0.005	08-SEP-10
Calcium (Ca)-Total			<2.0		mg/kg wwt		2	08-SEP-10
Chromium (Cr)-Total			<0.10		mg/kg wwt		0.1	08-SEP-10
Cobalt (Co)-Total			<0.020		mg/kg wwt		0.02	08-SEP-10
Copper (Cu)-Total			<0.010		mg/kg wwt		0.01	08-SEP-10
Lead (Pb)-Total			<0.020		mg/kg wwt		0.02	08-SEP-10
Lithium (Li)-Total			<0.10		mg/kg wwt		0.1	08-SEP-10
Magnesium (Mg)-Total			<1.0		mg/kg wwt		1	08-SEP-10
Manganese (Mn)-Total			<0.010		mg/kg wwt		0.01	08-SEP-10
Molybdenum (Mo)-Total			<0.010		mg/kg wwt		0.01	08-SEP-10
Nickel (Ni)-Total			<0.10		mg/kg wwt		0.1	08-SEP-10
Selenium (Se)-Total			<0.20		mg/kg wwt		0.2	08-SEP-10
Strontium (Sr)-Total			<0.010		mg/kg wwt		0.01	08-SEP-10
Thallium (Tl)-Total			<0.010		mg/kg wwt		0.01	08-SEP-10
Tin (Sn)-Total			<0.050		mg/kg wwt		0.05	08-SEP-10
Uranium (U)-Total			<0.0020		mg/kg wwt		0.002	08-SEP-10
Vanadium (V)-Total			<0.10		mg/kg wwt		0.1	08-SEP-10
Zinc (Zn)-Total			<0.10		mg/kg wwt		0.1	08-SEP-10

MOISTURE-TISS-VA **Tissue**



Quality Control Report

Workorder: L913433

Report Date: 10-SEP-10

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Client: AECOM Canada Ltd. (Winnipeg)
99 Commerce Drive
Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MOISTURE-TISS-VA	Tissue							
Batch	R1461821							
WG1162731-1	DUP	L898119-1						
% Moisture		4.10	3.56		%	14	20	09-SEP-10

Quality Control Report

Workorder: L913433

Report Date: 10-SEP-10

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Legend:

Limit	99% Confidence Interval (Laboratory Control Limits)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
MB-LOR	Method Blank exceeds ALS DQO. LORs adjusted for samples with positive hits below 5 times blank level. Please contact ALS if re-analysis is required.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



L913433

Report to: Company: AECOM
 Contact: Client: Samoiloff
 Address: 99 Commerce Drive
 Winnipeg, MB R3P 0Y7
 Phone: 204-928-7427 Fax: 204-284-2040

Report Format / Distribution
 Standard: Regular (Default)
 Priority (2-3 Business Days) - 50% Surcharge
 Emergency (1 Business Day) - 100% Surcharge
 For Emergency < 1 Day, ASAP or Weekend - Contact ALS

Service Requested: (rush - subject to availability)

Client / Project Information:
 Job #: 60157028
 PO / AFE:
 Legal Site Description:
 Quote #:
 ALS Christine
 Contact: Herrod
 Sampler: SK, LDB

Sample #	Sample Identification (This description will appear on the report)	Date	Time	Sample Type	Number of Containers
1	TDP-U10-BRSB001	9JUL10	1025	TISSUE	1
2	TDP-U10-BRSB002	10JUL10	927	TISSUE	1
3	TDP-U10-BRSB003	"	927	TISSUE	1
4	TDP-U10-BRSB004	"	938	TISSUE	1
5	TDP-U10-BRSB005	"	958	"	1
6	TDP-U10-BRSB006	"	958	"	1
7	TDP-U10-BRSB007	"	958	"	1
8	TDP-U10-BRSB008	"	958	"	1
9	TDP-U10-BRSB009	"	958	"	1
10	TDP-U10-BRSB010	"	958	"	1
11	TDP-U10-BRSB011	"	958	"	1
12	TDP-U10-BRSB012	"	1149	"	1

Special Instructions / Regulations / Hazardous Details

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

SHIPMENT RELEASE (client use)
 Released by: [Signature] Date & Time: 22JUL10 930

SHIPMENT RECEPTION (lab use only)
 Received by: AM Date: 27-7-10 Time: 13:00 Temperature: 1.3°C

SHIPMENT VERIFICATION (lab use only)
 Verified by: Date & Time: Observations: Yes / No? If Yes attach SIF

WHITE - REPORT COPY, PINK - FILE COPY, YELLOW - CLIENT COPY
 GENF 18.00 Front

RECHECK ANALYSIS REPORT

RC22752

Date: 06-AUG-10 14:12

Loginnum L906318 **Requestby** CLIENT
Acctnum W172 **Due Date** 04-AUG-10
Client AECOM Canada Ltd. (Winnipeg) **Issued To** GHILL
Deptnum 61200 **Issued By** CHILL
 Date Initiated 29-JUL-10

Recheck Comments

L906318-1 Silicon (Si)-Dissolved 1.24
 higher than expected (and higher than total Si)
 L906318-1 Silicon (Si)-Total 1.10
 higher than expected (and lower than dissolved Si);
 L906225-3 Silicon (Si)-Total 0.531
 lower than expected; please check
 L906225-3 Total Dissolved Solids 52.0
 higher than expected; please check
 L906318-3 Silicon (Si)-Dissolved 0.981
 higher than total Si; please check

Note: there is a relational check in place for Si-Dis>Si-Tot. Results fail if RPD >20% also D-T > 2X LOR. None of these results failed this check.

Recheck Reason

Result does not agree with historical data

Action to Take

Do whats necessary

Samplenum	Prod	Mat	Parm Syn	Result	Units	Measdate	RCResult	UCL	RC RPD	RCWork#	RCMeasdate	Initials
L906225-3	MET-T-L-MS-WP	1	Silicon (Si)-Total	0.531	mg/L	10-JUL-10	0.472	No Charl	11.8		30-JUL-10	DAG
								20	11.8			
L906225-3	SOLIDS-TDS-WP	1	Casserole ID	11		13-JUL-10						CWG
L906225-3	SOLIDS-TDS-WP	1	Total Dissolved Solids	52.0	mg/L	13-JUL-10	90	20	53.5		29-JUL-10	CWG
L906318-1	MET-D-L-MS-WP	1	Silicon (Si)-Dissolved	1.24	mg/L	12-JUL-10	0.59	20	71		30-JUL-10	DAG
								No Charl	71			
L906318-1	MET-T-L-MS-WP	1	Silicon (Si)-Total	1.10	mg/L	10-JUL-10	0.67	No Charl	48.6		30-JUL-10	DAG
								20	48.6			
L906318-3	MET-D-L-MS-WP	1	Silicon (Si)-Dissolved	0.981	mg/L	12-JUL-10	0.60	No Charl	48.2		30-JUL-10	DAG
								20	48.2			
L906318-3	MET-T-L-MS-WP	1	Silicon (Si)-Total	0.865	mg/L	10-JUL-10	0.66	20	26.9		30-JUL-10	DAG
								No Charl	26.9			

Sample Comments:

RECHECK ANALYSIS REPORT

RC:22752

Date: 06-AUG-10 14:12

Loginnum L906318 Requestby CLIENT
Acctnum W172 Due Date 04-AUG-10
Client AECOM Canada Ltd. (Winnipeg) Issued To GHILL
Deptnum 61200 Issued By CHILL
Date Initiated 29-JUL-10

Recheck Comments

L906318-1 Silicon (Si)-Dissolved 1.24
higher than expected (and higher than total Si)
L906318-1 Silicon (Si)-Total 1.10
higher than expected (and lower than dissolved Si);
L906225-3 Silicon (Si)-Total 0.531
Lower than expected; please check
L906225-3 Total Dissolved Solids 52.0
higher than expected; please check
L906318-3 Silicon (Si)-Dissolved 0.981
higher than total Si; please check

Note: there is a relational check in place for Si-Dis>Si-Tot. Results fail if RPD >20% also D-T > 2X LOR. None of these results failed this check.

Recheck Reason

Result does not agree with historical data

Action to Take

Do whats necessary

Samplenum Prod Mat Parm Syn Result Units Measdate RCResult UCL RC RPD RCWork# RCMeasdate Initials

Sample Comments:

L906225-3 #RAW 25568
L906318-1 20100712 Redo:SILICON,SILICON #RAW 25568
L906318-3 20100712 Redo:SILICON,SILICON #RAW 25568

Analyst Comments:

RECHECK ANALYSIS REPORT

RC22822

Date: 18-AUG-10 10:46

Loginnum L906861
Accntnum W172
Client AECOM Canada Ltd. (Winnipeg)
Deptnum 61200

Requestby CLIENT
Due Date 13-AUG-10
Issued To GHILL
Issued By CHILL
Date Initiated 10-AUG-10

Recheck Comments

L906873-8 and L906861-4 are client duplicates / RPD value too great please recheck values.

Samples re-digested and analyzed again. For some elements (As and Ba) the duplication between samples has improved, the rest show the same trend. 18-AUG-10 GMH-WP

Recheck Reason

Quality control sample(s) failure (in-house or client QC)

Action to Take

Do whats necessary

Samplenum	Prod	Mat	Parm Syn	Result	Units	Measdate	RCResult	UCL	RC RPD	RCWork#	RCMeasdate	Initials
L906861-4	HG-200.2-CVAF-WP	2	Mercury (Hg)-Total	0.126	mg/kg	03-AUG-10	0.109	40	14.5			MXB
L906861-4	MET-200.2-MS-WP	2	Arsenic (As)	3.1	mg/kg	15-JUL-10	2.3	30	29.6		16-AUG-10	DAG
L906861-4	MET-200.2-MS-WP	2	Barium (Ba)	125	mg/kg	15-JUL-10	88.6	40	34.1			DAG
L906861-4	MET-200.2-MS-WP	2	Calcium (Ca)	30100	mg/kg	15-JUL-10	24300	30	21.3			DAG
L906861-4	MET-200.2-MS-WP	2	Lead (Pb)	35.3	mg/kg	15-JUL-10	25.6	40	31.9			DAG
L906861-4	MET-200.2-MS-WP	2	Magnesium (Mg)	11600	mg/kg	15-JUL-10	8970	30	25.6			DAG
L906861-4	MET-200.2-MS-WP	2	Strontium (Sr)	44.2	mg/kg	15-JUL-10	32.8	40	29.6			DAG
L906873-8	HG-200.2-CVAF-WP	2	Mercury (Hg)-Total	0.0307	mg/kg	03-AUG-10	0.0402	40	26.8			MXB
L906873-8	MET-200.2-MS-WP	2	Arsenic (As)	2.4	mg/kg	15-JUL-10	2.3	30	4.3		16-AUG-10	DAG
L906873-8	MET-200.2-MS-WP	2	Barium (Ba)	94.6	mg/kg	15-JUL-10	81.5	40	14.9			DAG
L906873-8	MET-200.2-MS-WP	2	Calcium (Ca)	9100	mg/kg	15-JUL-10	9260	30	1.7			DAG
L906873-8	MET-200.2-MS-WP	2	Lead (Pb)	4.3	mg/kg	15-JUL-10	3.65	40	16.4			DAG
L906873-8	MET-200.2-MS-WP	2	Magnesium (Mg)	3500	mg/kg	15-JUL-10	3350	30	4.4			DAG
L906873-8	MET-200.2-MS-WP	2	Strontium (Sr)	21.5	mg/kg	15-JUL-10	18.5	40	15			DAG

Sample Comments:

L906861-4 #RAW 25584

Analyst Comments:

RECHECK ANALYSIS REPORT

RC22753

Date: 04-AUG-10 08:26

Loginnum L906865 **Requestby** CLIENT
Acctnum W172 **Due Date** 05-AUG-10
Client AECOM Canada Ltd. (Winnipeg) **Issued To** GHILL
Deptnum 61200 **Issued By** CHILL
 Date Initiated 29-JUL-10

Recheck Comments

L906865-1 Silicon (Si)-Total - dissolved>total; please re check
 L906865-2 Silicon (Si)-Total - dissolved>total; please re check
 L906865-3 Silicon (Si)-Total dissolved>total; please re check
 L906865-1 Manganese (Mn)-Dissolved 0.00280 magnitude higher than expected; please re-check
 L906865-3 Total Inorganic Carbon 3.5 magnitude lower than expected; please re-check. Sample was re-analyzed from a different bottle. results from original bottle look as if it may have been preserved in error.
 Silicon: Samples re-digested and analyzed for Total, re-analyzed for dissolved. Rerun results have changed. Diss>Tot, relational check passes.
 Note: there is a relational check in place for Si-Dis>Si-Tot. Results fail if RPD >20% also D-T > 2X LOR. None of these results (original or rerun) failed this check.

Recheck Reason

Result does not agree with historical data

Action to Take

Do whats necessary

Samplenum	Prod	Mat	Parm Syn	Result	Units	Measdate	RCResult	UCL	RC RPD	RCWork#	RCMeasdate	Initials
L906865-1	MET-D-L-MS-WP	1	Manganese (Mn)-Dissolved	0.00280	mg/L	12-JUL-10	0.0447	20	176.4		30-JUL-10	DAG
								No Char!	176.4			
L906865-1	MET-D-L-MS-WP	1	Silicon (Si)-Dissolved	0.198	mg/L	12-JUL-10	0.30	No Char!	41		30-JUL-10	DAG
								20	41			
L906865-1	MET-T-L-MS-WP	1	Silicon (Si)-Total	0.129	mg/L	12-JUL-10	0.18	20	33		30-JUL-10	DAG
								No Char!	33			
L906865-2	MET-D-L-MS-WP	1	Silicon (Si)-Dissolved	0.213	mg/L	12-JUL-10	0.21	20	1.4		30-JUL-10	DAG
								No Char!	1.4			
L906865-2	MET-T-L-MS-WP	1	Silicon (Si)-Total	0.148	mg/L	12-JUL-10	0.17	20	13.8		30-JUL-10	DAG
								No Char!	13.8			
L906865-3	C-TOT-INORG-WP	1	Total Inorganic Carbon	3.5	mg/L	13-JUL-10	16.8	20	131		30-JUL-10	MEB

RECHECK ANALYSIS REPORT

RC:22753

Date: 04-AUG-10 08:26

Loginnum	L906865	Requestby	CLIENT
Acctnum	W172	Due Date	05-AUG-10
Client	AECOM Canada Ltd. (Winnipeg)	Issued To	GHILL
Deptnum	61200	Issued By	CHILL
		Date Initiated	29-JUL-10

Recheck Comments

L906865-1 Silicon (Si)-Total - dissolved>total; please re check

L906865-2 Silicon (Si)-Total - dissolved>total; please re check

L906865-3 Silicon (Si)-Total dissolved>total; please re check

L906865-1 Manganese (Mn)-Dissolved 0.00280 magnitude higher than expected; please re-check

L906865-3 Total Inorganic Carbon 3.5 magnitude lower than expected; please re-check. Sample was re-analyzed from a different bottle. results from original bottle look as if it may have been preserved in error.

Silicon: Samples re-digested and analyzed for Total, re-analyzed for dissolved. Rerun results have changed. Diss>Tot, relational check passes.
 Note: there is a relational check in place for Si-Dis>Si-Tot. Results fail if RPD >20% also D-T > 2X LOR. None of these results (original or rerun) failed this check.

Recheck Reason

Result does not agree with historical data

Action to Take

Do whats necessary

Samplenum	Prod	Mat	Parm Syn	Result	Units	Measdate	RCResult	UCL	RC RPD	RCWork#	RCMeasdate	Initials
L906865-3	MET-D-L-MS-WP	1	Silicon (Si)-Dissolved	0.213	mg/L	12-JUL-10	0.18	20	16.8		30-JUL-10	DAG
L906865-3	MET-T-L-MS-WP	1	Silicon (Si)-Total	0.133	mg/L	12-JUL-10	0.189	No Charl	16.8		30-JUL-10	DAG
								20	131			
								No Charl	16.8			
								No Charl	34.8			
								20	34.8			

Sample Comments:

L906865-1 #RAW 25584

L906865-2 #RAW 25584

L906865-3 #RAW 25584

RECHECK ANALYSIS REPORT

RC:22753

Date: 04-AUG-10 08:26

Loginnum L906865 **Requestby** CLIENT
Acctnum W172 **Due Date** 05-AUG-10
Client AECOM Canada Ltd. (Winnipeg) **Issued To** GHILL
Deptnum 61200 **Issued By** CHILL
 Date Initiated 29-JUL-10

Recheck Comments

L906865-1 Silicon (Si)-Total - dissolved>total; please re check
L906865-2 Silicon (Si)-Total - dissolved>total; please re check
L906865-3 Silicon (Si)-Total dissolved>total; please re check
L906865-1 Manganese (Mn)-Dissolved 0.00280 magnitude higher than expected; please re-check
L906865-3 Total Inorganic Carbon 3.5 magnitude lower than expected; please re-check. Sample was re-analyzed from a different bottle. results from original bottle look as if it may have been preserved in error.
Silicon: Samples re-digested and analyzed for Total, re-analyzed for dissolved. Rerun results have changed. Diss>Tot, relational check passes.
Note: there is a relational check in place for Si-Dis>Si-Tot. Results fail if RPD >20% also D-T > 2X LOR. None of these results (original or rerun) failed this check.

Recheck Reason

Result does not agree with historical data

Action to Take

Do whats necessary

Samplenum	Prod	Mat	Parm Syn	Result	Units	Measdate	RCResult	UCL	RC RPD	RCWork#	RCMeasdate	Initials
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Sample Comments:

Analyst Comments:

COOLER #2

L906225



Environmental Division

Report to: Company: AECOM
 Contact: CLIFF SANDILOFF
 Address: 99 COMMERCE DR. WINNIPEG, MB R3P 0Y7
 Phone: 204-928-7477 Fax: 204-284-2040
 Invoice To: Same as Report? (Yes) No ?
 Company: Client / Project Information: Job #: 60157028
 Contact: PO / AFE:
 Address: Legal Site Description:
 Phone: Quote #: 024534
 Lab Work Order # (lab use only): ALS Contact: CHRISTINE Sampler: SK-LDB
 Fax:

Sample #	Sample Identification (This description will appear on the report)	Date	Time	Sample Type	Service Requested: (rush - subject to availability)							Number of Containers
					Regular (Default)	Priority (2-3 Business Days) - 50% Surcharge	Emergency (1 Business Day) - 100% Surcharge	For Emergency < 1 Day, ASAP or Weekend - Contact ALS	Analysis Request	(Indicate Filtered or Preserved, F/P)		
VL-WQ1-60157028-20100707		7-JUL-10	1031	WATER	X	X	X	X	X	X	X	7
VL-WQ2-60157028-20100707		7-JUL-10	1106	WATER	X	X	X	X	X	X	X	7
VL-WQ3-60157028-20100707		7-JUL-10	1137	WATER	X	X	X	X	X	X	X	7

Special Instructions / Regulations / Hazardous Details

Labels on jars/bottles are only first 5 characters (eg. VL-WQ1). Diss. Metals bottle NOT field filtered.

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

Released by: [Signature] Date & Time: 7-JUL-10 17:00
 Received by: [Signature] Date: 8-7-10 Time: 9:00 Temperature: 16.7
 SHIPMENT RELEASE (client use) SHIPMENT RECEPTION (lab use only) SHIPMENT VERIFICATION (lab use only)
 Verified by: Date & Time: Observations: Yes / No? If Yes attach SIF
 REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION WHITE - REPORT COPY, PINK - FILE COPY, YELLOW - CLIENT COPY GENF 18.00 Front