

ALDERON IRON ORE CORP.



AMENDMENT TO THE ENVIRONMENTAL IMPACT STATEMENT
VOLUME 3 APPENDICES – INFORMATION REQUEST RESPONSES

Appendix L

Certificates of Analysis

ATTACHMENT 1

**PORT ABA
CERTIFICATE OF ANALYSES**



SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakeland - Ontario - K0L 2H0
Phone: 705-652-2000 FAX: 705-652-6365

Stantec

Attn : Nikolay Sidenko

603-386 Broadway Ave., Winnipeg
, R3C 3R6
Phone: 204-928-8862, Fax:204-942-2548

Modified ABA (Price 1997)

July-12-12

Date Rec. : 25 June 2012
LR Report: CA10423-JUN12
Reference: PO#: 121614000.324 Project: Alderon
Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5:		6:		7:		8:		9:		10:		11:		12:		13:		14:	
			18-Jun-12	S1-1	18-Jun-12	S1-2	18-Jun-12	S1-3	18-Jun-12	S1-4	18-Jun-12	S1-5	18-Jun-12	S1-6	18-Jun-12	S1-7	18-Jun-12	S1-8	18-Jun-12	S1-9	18-Jun-12	S1-10
Sample Date & Time			18-Jun-12		18-Jun-12		18-Jun-12		18-Jun-12		18-Jun-12		18-Jun-12		18-Jun-12		18-Jun-12		18-Jun-12		18-Jun-12	
Paste pH [units]	12-Jul-12	08:39	7.43	9.56	9.39	9.36	9.03	9.71	9.74	9.66	9.73	9.22										
Fizz Rate [---]	12-Jul-12	08:39	1	1	1	2	2	2	1	2	1	1										
Sample weight [g]	12-Jul-12	08:39	1.99	1.98	2.01	2.03	2.05	2.00	2.04	2.03	2.03	2.00										
HCl added [mL]	12-Jul-12	08:39	20.00	20.00	46.60	20.00	26.30	25.60	26.10	24.90	20.00	35.40										
HCl [Normality]	12-Jul-12	08:39	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10										
NaOH [Normality]	12-Jul-12	08:39	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10										
NaOH to pH=8.3 [mL]	12-Jul-12	08:39	15.52	14.24	39.41	16.67	17.16	18.14	18.72	16.83	17.73	25.22										
Final pH [units]	12-Jul-12	08:39	1.60	1.84	1.58	1.21	1.62	1.60	1.61	1.92	1.27	1.63										
NP [t CaCO3/1000 t]	12-Jul-12	08:39	11	15	18	8.2	22	19	18	20	5.6	25										
AP [t CaCO3/1000 t]	12-Jul-12	08:40	0.31	0.62	0.31	0.31	1.25	0.94	0.94	0.94	0.31	3.12										
Net NP [t CaCO3/1000 t]	12-Jul-12	08:40	10.9	14.0	17.6	7.89	21.0	17.8	17.2	19.0	5.29	22.3										
NP/AP [ratio]	12-Jul-12	08:40	36.1	23.5	57.7	26.5	17.8	19.9	19.3	21.2	18.1	8.14										
Sulphur (total) [%]	03-Jul-12	15:57	0.033	0.035	0.019	< 0.005	0.069	0.051	0.051	0.059	0.023	0.128										
Acid Leachable SO4-S [%]	04-Jul-12	14:21	0.02	0.01	0.02	< 0.01	0.03	0.02	0.02	0.03	0.02	0.03										
Sulphide [%]	04-Jul-12	14:21	0.01	0.02	< 0.01	< 0.01	0.04	0.03	0.03	0.03	< 0.01	0.10										
Carbon (total) [%]	03-Jul-12	15:57	0.405	0.058	0.046	0.087	0.150	0.093	0.084	0.067	0.055	0.031										
Carbonate [%]	04-Jul-12	13:21	0.066	0.146	0.144	0.272	0.504	0.306	0.463	0.273	0.037	0.077										



SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - K0L 2H0
Phone: 705-652-2000 FAX: 705-652-6365

A handwritten signature in black ink, appearing to read 'B. Graham'.

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical

ATTACHMENT 2A

**WQ QUARRY
CERTIFICATE OF ANALYSES**



Stantec Consulting (Winnipeg)
ATTN: Nikolay Sidenko
603 386 Broadway Avenue
Winnipeg MB R3C 3R6

Date Received: 21-JUN-12
Report Date: 06-JUL-12 15:46 (MT)
Version: FINAL

Client Phone: 204-942-2505

Certificate of Analysis

Lab Work Order #: L1165719
Project P.O. #: NOT SUBMITTED
Job Reference: 121614000.326
C of C Numbers:
Legal Site Desc:

Gail Hill
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
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1165719-1 SIW-1 Sampled By: CLIENT on 19-JUN-12 @ 13:00 Matrix: WATER CCME Aqlife Dissolved Metals Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0624		0.0020	mg/L	21-JUN-12	27-JUN-12	R2389525
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Arsenic (As)-Dissolved	0.00024		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Barium (Ba)-Dissolved	0.00387		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Boron (B)-Dissolved	0.116		0.010	mg/L	21-JUN-12	27-JUN-12	R2389525
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	21-JUN-12	27-JUN-12	R2389525
Calcium (Ca)-Dissolved	14.5		0.050	mg/L	21-JUN-12	27-JUN-12	R2389525
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	21-JUN-12	27-JUN-12	R2389525
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Copper (Cu)-Dissolved	0.00477		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	21-JUN-12	27-JUN-12	R2389525
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	21-JUN-12	27-JUN-12	R2389525
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	21-JUN-12	27-JUN-12	R2389525
Magnesium (Mg)-Dissolved	4.20		0.010	mg/L	21-JUN-12	27-JUN-12	R2389525
Manganese (Mn)-Dissolved	0.00068		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Molybdenum (Mo)-Dissolved	0.00200		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Nickel (Ni)-Dissolved	0.0041		0.0010	mg/L	21-JUN-12	27-JUN-12	R2389525
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	21-JUN-12	27-JUN-12	R2389525
Potassium (K)-Dissolved	5.37		0.020	mg/L	21-JUN-12	27-JUN-12	R2389525
Rubidium (Rb)-Dissolved	0.00531		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	21-JUN-12	27-JUN-12	R2389525
Silicon (Si)-Dissolved	4.33		0.050	mg/L	21-JUN-12	27-JUN-12	R2389525
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Sodium (Na)-Dissolved	49.2	DLA	2.0	mg/L	21-JUN-12	03-JUL-12	R2392203
Strontium (Sr)-Dissolved	0.104		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Titanium (Ti)-Dissolved	0.00141		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Tungsten (W)-Dissolved	0.00036		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Uranium (U)-Dissolved	0.00040		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Vanadium (V)-Dissolved	0.00146		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	21-JUN-12	27-JUN-12	R2389525
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	21-JUN-12	27-JUN-12	R2389525
Mercury Dissolved							
Mercury (Hg)-Dissolved	<0.000020		0.000020	mg/L	25-JUN-12	25-JUN-12	R2388154
Miscellaneous Parameters							
Sulfate	24.4		0.50	mg/L		22-JUN-12	R2387679
pH	9.46		0.10	pH units		21-JUN-12	R2386564
L1165719-2 SIW-2 Sampled By: CLIENT on 19-JUN-12 @ 13:30 Matrix: WATER CCME Aqlife Dissolved Metals Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0652		0.0020	mg/L	21-JUN-12	27-JUN-12	R2389525
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1165719-2 SIW-2							
Sampled By: CLIENT on 19-JUN-12 @ 13:30							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Arsenic (As)-Dissolved	0.00044		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Barium (Ba)-Dissolved	0.00721		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Boron (B)-Dissolved	0.050		0.010	mg/L	21-JUN-12	27-JUN-12	R2389525
Cadmium (Cd)-Dissolved	0.000015		0.000010	mg/L	21-JUN-12	27-JUN-12	R2389525
Calcium (Ca)-Dissolved	20.4		0.050	mg/L	21-JUN-12	27-JUN-12	R2389525
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	21-JUN-12	27-JUN-12	R2389525
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Copper (Cu)-Dissolved	0.00779		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	21-JUN-12	27-JUN-12	R2389525
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	21-JUN-12	27-JUN-12	R2389525
Lithium (Li)-Dissolved	0.0022		0.0020	mg/L	21-JUN-12	27-JUN-12	R2389525
Magnesium (Mg)-Dissolved	4.60		0.010	mg/L	21-JUN-12	27-JUN-12	R2389525
Manganese (Mn)-Dissolved	0.0384		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Molybdenum (Mo)-Dissolved	0.00107		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Nickel (Ni)-Dissolved	0.0053		0.0010	mg/L	21-JUN-12	27-JUN-12	R2389525
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	21-JUN-12	27-JUN-12	R2389525
Potassium (K)-Dissolved	4.37		0.020	mg/L	21-JUN-12	27-JUN-12	R2389525
Rubidium (Rb)-Dissolved	0.00659		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	21-JUN-12	27-JUN-12	R2389525
Silicon (Si)-Dissolved	5.19		0.050	mg/L	21-JUN-12	27-JUN-12	R2389525
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Sodium (Na)-Dissolved	21.7		0.020	mg/L	21-JUN-12	27-JUN-12	R2389525
Strontium (Sr)-Dissolved	0.120		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Thorium (Th)-Dissolved	0.00010		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Tin (Sn)-Dissolved	0.00044		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Titanium (Ti)-Dissolved	0.00047		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Tungsten (W)-Dissolved	0.00010		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Uranium (U)-Dissolved	0.00032		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Vanadium (V)-Dissolved	0.00101		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	21-JUN-12	27-JUN-12	R2389525
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	21-JUN-12	27-JUN-12	R2389525
Mercury Dissolved							
Mercury (Hg)-Dissolved	<0.000020		0.000020	mg/L	25-JUN-12	25-JUN-12	R2388154
Miscellaneous Parameters							
Sulfate	19.7		0.50	mg/L		22-JUN-12	R2387679
pH	8.38		0.10	pH units		21-JUN-12	R2386564

* 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
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**
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.			
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.			
PH-WP	Water	pH	APHA 4500H
The 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.			
SO4-IC-WP	Water	Sulfate by Ion Chromatography	EPA 300.1 (modified)
Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.			

** 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 ENVIRONMENTAL - 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: L1165719

Report Date: 06-JUL-12

Page 1 of 7

Client: Stantec Consulting (Winnipeg)
603 386 Broadway Avenue
Winnipeg MB R3C 3R6

Contact: Nikolay Sidenko

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-D-CVAF-WP		Water						
Batch	R2388154							
WG1496108-2	LCS							
Mercury (Hg)-Dissolved			92.3		%		80-120	25-JUN-12
Mercury (Hg)-Dissolved			92.3		%		80-120	25-JUN-12
WG1496101-1	MB							
Mercury (Hg)-Dissolved			<0.000020		mg/L		0.00002	25-JUN-12
Mercury (Hg)-Dissolved			<0.000020		mg/L		0.00002	25-JUN-12
WG1496108-1	MB							
Mercury (Hg)-Dissolved			<0.000020		mg/L		0.00002	25-JUN-12
Mercury (Hg)-Dissolved			<0.000020		mg/L		0.00002	25-JUN-12
MET-D-L-MS-WP		Water						
Batch	R2389525							
WG1497986-4	DUP	WG1497986-3						
Aluminum (Al)-Dissolved		0.103	0.100		mg/L	2.8	20	27-JUN-12
Antimony (Sb)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	27-JUN-12
Arsenic (As)-Dissolved		0.00023	0.00021		mg/L	10	20	27-JUN-12
Barium (Ba)-Dissolved		0.0131	0.0125		mg/L	5.3	20	27-JUN-12
Beryllium (Be)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	27-JUN-12
Bismuth (Bi)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	27-JUN-12
Boron (B)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	27-JUN-12
Cadmium (Cd)-Dissolved		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	27-JUN-12
Calcium (Ca)-Dissolved		9.05	8.65		mg/L	4.5	20	27-JUN-12
Cesium (Cs)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	27-JUN-12
Chromium (Cr)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	27-JUN-12
Cobalt (Co)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	27-JUN-12
Copper (Cu)-Dissolved		0.00050	0.00051		mg/L	1.7	20	27-JUN-12
Iron (Fe)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	20	27-JUN-12
Lead (Pb)-Dissolved		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	27-JUN-12
Lithium (Li)-Dissolved		0.0044	0.0044		mg/L	0.0	20	27-JUN-12
Magnesium (Mg)-Dissolved		3.89	3.71		mg/L	4.8	20	27-JUN-12
Manganese (Mn)-Dissolved		0.00263	0.00270		mg/L	2.4	20	27-JUN-12
Molybdenum (Mo)-Dissolved		0.00015	0.00015		mg/L	3.0	20	27-JUN-12
Nickel (Ni)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	27-JUN-12
Phosphorus (P)-Dissolved		<0.030	<0.030	RPD-NA	mg/L	N/A	20	27-JUN-12
Potassium (K)-Dissolved		1.09	1.03		mg/L	5.9	20	27-JUN-12



Quality Control Report

Workorder: L1165719

Report Date: 06-JUL-12

Page 2 of 7

Client: Stantec Consulting (Winnipeg)
603 386 Broadway Avenue
Winnipeg MB R3C 3R6

Contact: Nikolay Sidenko

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2389525							
WG1497986-4	DUP	WG1497986-3						
Rubidium (Rb)-Dissolved		0.00139	0.00136		mg/L	2.1	20	27-JUN-12
Selenium (Se)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	27-JUN-12
Silicon (Si)-Dissolved		1.62	1.63		mg/L	0.3	20	27-JUN-12
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	27-JUN-12
Sodium (Na)-Dissolved		2.82	2.65		mg/L	6.3	20	27-JUN-12
Strontium (Sr)-Dissolved		0.0372	0.0353		mg/L	5.3	20	27-JUN-12
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	27-JUN-12
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	27-JUN-12
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	27-JUN-12
Tin (Sn)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	27-JUN-12
Titanium (Ti)-Dissolved		0.00329	0.00307		mg/L	6.7	20	27-JUN-12
Tungsten (W)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	27-JUN-12
Uranium (U)-Dissolved		0.00011	<0.00010	RPD-NA	mg/L	N/A	20	27-JUN-12
Vanadium (V)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	27-JUN-12
Zinc (Zn)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	27-JUN-12
Zirconium (Zr)-Dissolved		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	27-JUN-12
WG1497986-2	LCS							
Aluminum (Al)-Dissolved			100.4		%		80-120	27-JUN-12
Antimony (Sb)-Dissolved			109.2		%		80-120	27-JUN-12
Arsenic (As)-Dissolved			106.9		%		80-120	27-JUN-12
Barium (Ba)-Dissolved			96.6		%		80-120	27-JUN-12
Beryllium (Be)-Dissolved			106.0		%		80-120	27-JUN-12
Bismuth (Bi)-Dissolved			100.4		%		80-120	27-JUN-12
Boron (B)-Dissolved			98.1		%		80-120	27-JUN-12
Cadmium (Cd)-Dissolved			106.4		%		80-120	27-JUN-12
Calcium (Ca)-Dissolved			97.0		%		80-120	27-JUN-12
Cesium (Cs)-Dissolved			97.0		%		80-120	27-JUN-12
Chromium (Cr)-Dissolved			92.5		%		80-120	27-JUN-12
Cobalt (Co)-Dissolved			89.4		%		80-120	27-JUN-12
Copper (Cu)-Dissolved			92.3		%		80-120	27-JUN-12
Iron (Fe)-Dissolved			87.7		%		80-120	27-JUN-12
Lead (Pb)-Dissolved			102.0		%		80-120	27-JUN-12
Lithium (Li)-Dissolved			111.4		%		80-120	27-JUN-12



Quality Control Report

Workorder: L1165719

Report Date: 06-JUL-12

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Client: Stantec Consulting (Winnipeg)
603 386 Broadway Avenue
Winnipeg MB R3C 3R6

Contact: Nikolay Sidenko

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2389525							
WG1497986-2 LCS								
Magnesium (Mg)-Dissolved			105.8		%		80-120	27-JUN-12
Manganese (Mn)-Dissolved			89.7		%		80-120	27-JUN-12
Molybdenum (Mo)-Dissolved			99.7		%		80-120	27-JUN-12
Nickel (Ni)-Dissolved			91.0		%		80-120	27-JUN-12
Phosphorus (P)-Dissolved			93.2		%		80-120	27-JUN-12
Potassium (K)-Dissolved			98.5		%		80-120	27-JUN-12
Rubidium (Rb)-Dissolved			102.3		%		80-120	27-JUN-12
Selenium (Se)-Dissolved			103.3		%		80-120	27-JUN-12
Silicon (Si)-Dissolved			98.9		%		80-120	27-JUN-12
Silver (Ag)-Dissolved			97.7		%		80-120	27-JUN-12
Sodium (Na)-Dissolved			101.9		%		80-120	27-JUN-12
Strontium (Sr)-Dissolved			107.3		%		80-120	27-JUN-12
Tellurium (Te)-Dissolved			103.1		%		80-120	27-JUN-12
Thallium (Tl)-Dissolved			101.0		%		80-120	27-JUN-12
Thorium (Th)-Dissolved			103.7		%		80-120	27-JUN-12
Tin (Sn)-Dissolved			103.4		%		80-120	27-JUN-12
Titanium (Ti)-Dissolved			107.0		%		80-120	27-JUN-12
Tungsten (W)-Dissolved			103.7		%		80-120	27-JUN-12
Uranium (U)-Dissolved			101.1		%		80-120	27-JUN-12
Vanadium (V)-Dissolved			97.6		%		80-120	27-JUN-12
Zinc (Zn)-Dissolved			97.7		%		80-120	27-JUN-12
Zirconium (Zr)-Dissolved			104.0		%		80-120	27-JUN-12
WG1497986-1 MB								
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.002	27-JUN-12
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.0002	27-JUN-12
Arsenic (As)-Dissolved			<0.00020		mg/L		0.0002	27-JUN-12
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0002	27-JUN-12
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.0002	27-JUN-12
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0002	27-JUN-12
Boron (B)-Dissolved			<0.010		mg/L		0.01	27-JUN-12
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.00001	27-JUN-12
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	27-JUN-12
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0001	27-JUN-12
Chromium (Cr)-Dissolved			<0.0020		mg/L		0.002	27-JUN-12



Quality Control Report

Workorder: L1165719

Report Date: 06-JUL-12

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Client: Stantec Consulting (Winnipeg)
603 386 Broadway Avenue
Winnipeg MB R3C 3R6

Contact: Nikolay Sidenko

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2389525							
WG1497986-1	MB							
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0002	27-JUN-12
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	27-JUN-12
Iron (Fe)-Dissolved			<0.10		mg/L		0.1	27-JUN-12
Lead (Pb)-Dissolved			<0.000090		mg/L		0.00009	27-JUN-12
Lithium (Li)-Dissolved			<0.0020		mg/L		0.002	27-JUN-12
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.01	27-JUN-12
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	27-JUN-12
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0001	27-JUN-12
Nickel (Ni)-Dissolved			<0.0010		mg/L		0.001	27-JUN-12
Phosphorus (P)-Dissolved			<0.030		mg/L		0.03	27-JUN-12
Potassium (K)-Dissolved			<0.020		mg/L		0.02	27-JUN-12
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	27-JUN-12
Selenium (Se)-Dissolved			<0.0010		mg/L		0.001	27-JUN-12
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	27-JUN-12
Silver (Ag)-Dissolved			<0.00010		mg/L		0.0001	27-JUN-12
Sodium (Na)-Dissolved			<0.020		mg/L		0.02	27-JUN-12
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0001	27-JUN-12
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	27-JUN-12
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.0001	27-JUN-12
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	27-JUN-12
Tin (Sn)-Dissolved			<0.00020		mg/L		0.0002	27-JUN-12
Titanium (Ti)-Dissolved			<0.00020		mg/L		0.0002	27-JUN-12
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	27-JUN-12
Uranium (U)-Dissolved			<0.00010		mg/L		0.0001	27-JUN-12
Vanadium (V)-Dissolved			<0.00020		mg/L		0.0002	27-JUN-12
Zinc (Zn)-Dissolved			<0.0020		mg/L		0.002	27-JUN-12
Zirconium (Zr)-Dissolved			<0.00040		mg/L		0.0004	27-JUN-12

PH-WP **Water**

Batch **R2386564**

WG1494657-6	DUP	L1165692-9						
pH		9.31	9.26	J	pH units	0.05	0.2	21-JUN-12

WG1494657-7	DUP	L1165712-1						
pH		8.08	8.18	J	pH units	0.10	0.2	21-JUN-12

WG1494657-3 **LCS**



Quality Control Report

Workorder: L1165719

Report Date: 06-JUL-12

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Client: Stantec Consulting (Winnipeg)
603 386 Broadway Avenue
Winnipeg MB R3C 3R6

Contact: Nikolay Sidenko

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-WP	Water							
Batch	R2386564							
WG1494657-3	LCS							
pH			7.37		pH units		7.3-7.5	21-JUN-12
SO4-IC-WP	Water							
Batch	R2387679							
WG1495139-3	DUP	L1166712-1						
Sulfate		173	174		mg/L	0.3	20	22-JUN-12
WG1495139-2	LCS							
Sulfate			99.3		%		85-115	22-JUN-12
WG1495139-1	MB							
Sulfate			<0.50		mg/L		0.5	22-JUN-12
WG1495139-4	MS	L1166712-1						
Sulfate			N/A	MS-B	%		-	22-JUN-12

Quality Control Report

Workorder: L1165719

Report Date: 06-JUL-12

Client: Stantec Consulting (Winnipeg)
603 386 Broadway Avenue
Winnipeg MB R3C 3R6

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Contact: Nikolay Sidenko

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
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: L1165719

Report Date: 06-JUL-12

Client: Stantec Consulting (Winnipeg)
603 386 Broadway Avenue
Winnipeg MB R3C 3R6

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Contact: Nikolay Sidenko

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
pH							
	1	19-JUN-12 13:00	21-JUN-12 13:25	0.25	48	hours	EHTR-FM
	2	19-JUN-12 13:30	21-JUN-12 13:25	0.25	48	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 L1165719 were received on 21-JUN-12 09:38.

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.

ATTACHMENT 2B

**BASELINE WQ
CERTIFICATE OF ANALYSES**

Attention:
Pierre-Olivier Laliberté
 STANTEC CONSULTING LTD
 Montreal
 100, boulevard Alexis-Nihon
 Suite 110
 Ville Saint-Laurent, PQ
 CANADA H4M 2N6

Your P.O. #: 546
 Your Project #: 121614000
 Site Location: POINTE NOIRE
 Your C.O.C. #: 77799

Report Date: 2012/06/22

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B229839
Received: 2012/06/14, 10:45

Sample Matrix: SURFACE WATER
 # Samples Received: 9

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Primary reference
Acidity	9	N/A	2012/06/19	STL SOP-00057	MA.315 Alc-Aci 1.0
Total Alkalinity (pH end point 4.5)	9	N/A	2012/06/14	STL SOP-00038	SM 2320B
Petroleum Hydrocarbons (C10-C50)	9	2012/06/14	2012/06/16	STL SOP-00173	MA.400 - Hyd 1.1
Total Cyanide	9	2012/06/18	2012/06/18	STL SOP-00035	MA. 300 - CN 1.1
Real Color	9	N/A	2012/06/14	STL SOP-00046	MA. 103 - Col. 2.0
Hexavalent Chromium (Cr 6+)	9	N/A	2012/06/14	STL SOP-00037	MA. 200 - CrHex 1.1
Total Suspended Solids	9	2012/06/18	2012/06/19	STL SOP-00015	MA. 104 - S.S. 1.1
Metals by ICP-MS	9	2012/06/18	2012/06/19	STL SOP-00006	MA.200- Mét 1.2
Metals by ICP	9	2012/06/18	2012/06/18	STL SOP-00006	MA.200- Mét 1.2
Ammonia Nitrogen	9	N/A	2012/06/20	STL SOP-00040	MA. 300 - N 1.1
pH	8	N/A	2012/06/14	STL SOP-00038	MA.100- pH1.1
pH	1	N/A	2012/06/15	STL SOP-00038	MA.100- pH1.1
Total Dissolved Solids	9	2012/06/18	2012/06/20	STL SOP-00050	MA. 103 - S.T. 1.0
Turbidity	9	N/A	2012/06/14	STL SOP-00022	MA. 103 - Tur. 1.0

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

MARIA MANAROLIS, Customer Service
 Email: MManarolis@maxxam.ca
 Phone# (514) 448-9001 Ext:4236

=====
 Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B229839
 Report Date: 2012/06/22

 STANTEC CONSULTING LTD
 Client Project #: 121614000
 Site Location: POINTE NOIRE
 Your P.O. #: 546
 Sampler Initials: PM

HYDROCARBONS BY GCFID (SURFACE WATER)

Maxxam ID		R25812	R25892	R25893	R25894	R25897		
Sampling Date		2012/06/11	2012/06/11	2012/06/11	2012/06/12	2012/06/12		
COC Number		77799	77799	77799	77799	77799		
	Units	SW12-01	SW12-02	SW12-03	SW12-04	SW12-06	RDL	QC Batch

Total Petroleum Hydro.								
Petroleum Hydrocarbons (C10-C50)	ug/L	<100	<100	<100	<100	<100	100	1017218
Surrogate Recovery (%)								
1-Chlorooctadecane	%	74	76	83	79	80	N/A	1017218
N/A = Not Applicable RDL = Reportable Detection Limit								

Maxxam ID		R25898	R25899	R25900	R25901		
Sampling Date		2012/06/11	2012/06/11	2012/06/12	2012/06/12		
COC Number		77799	77799	77799	77799		
	Units	SW12-07	SW12-08	SW12-09	DUP-2012-06-12-A	RDL	QC Batch

Total Petroleum Hydro.								
Petroleum Hydrocarbons (C10-C50)	ug/L	<100	<100	<100	<100		100	1017218
Surrogate Recovery (%)								
1-Chlorooctadecane	%	84	84	81	82		N/A	1017218
N/A = Not Applicable RDL = Reportable Detection Limit								

Maxxam Job #: B229839
Report Date: 2012/06/22

STANTEC CONSULTING LTD
Client Project #: 121614000
Site Location: POINTE NOIRE
Your P.O. #: 546
Sampler Initials: PM

METALS (SURFACE WATER)

Maxxam ID		R25812	R25812	R25892	R25893	R25894	R25897		
Sampling Date		2012/06/11	2012/06/11	2012/06/11	2012/06/11	2012/06/12	2012/06/12		
COC Number		77799	77799	77799	77799	77799	77799		
	Units	SW12-01	SW12-01 Lab-Dup	SW12-02	SW12-03	SW12-04	SW12-06	RDL	QC Batch

METALS									
Total Hardness (CaCO ₃)	mg/L	5	N/A	55	54	98	89	1	1018306
Total phosphorous	mg/L	<0.01	0.02	0.03	0.03	<0.01	0.02	0.01	1018432
Aluminum (Al)	mg/L	0.72	N/A	0.23	0.39	0.38	0.30	0.03	1018306
Antimony (Sb)	mg/L	<0.006	N/A	<0.006	<0.006	<0.006	<0.006	0.006	1018306
Silver (Ag)	mg/L	<0.0003	N/A	<0.0003	<0.0003	<0.0003	<0.0003	0.0003	1018306
Arsenic (As)	mg/L	<0.002	N/A	<0.002	<0.002	<0.002	<0.002	0.002	1018306
Barium (Ba)	mg/L	<0.03	N/A	<0.03	<0.03	0.03	<0.03	0.03	1018306
Cadmium (Cd)	mg/L	<0.001	N/A	<0.001	<0.001	<0.001	<0.001	0.001	1018306
Chromium (Cr)	mg/L	<0.03	N/A	<0.03	<0.03	<0.03	<0.03	0.03	1018306
Cobalt (Co)	mg/L	<0.03	N/A	<0.03	<0.03	<0.03	<0.03	0.03	1018306
Copper (Cu)	mg/L	0.12	N/A	<0.003	<0.003	<0.003	<0.003	0.003	1018306
Lead (Pb)	mg/L	<0.001	N/A	<0.001	<0.001	0.004	0.003	0.001	1018306
Manganese (Mn)	mg/L	0.60	N/A	0.059	0.25	0.63	0.70	0.003	1018306
Molybdenum (Mo)	mg/L	<0.03	N/A	<0.03	<0.03	<0.03	<0.03	0.03	1018306
Nickel (Ni)	mg/L	<0.01	N/A	<0.01	<0.01	<0.01	<0.01	0.01	1018306
Selenium (Se)	mg/L	<0.001	N/A	<0.001	<0.001	<0.001	<0.001	0.001	1018306
Sodium (Na)	mg/L	4.0	N/A	5.2	19	26	27	0.2	1018306
Zinc (Zn)	mg/L	0.013	N/A	0.009	<0.005	0.015	0.014	0.005	1018306
Iron (Fe)	mg/L	0.9	N/A	0.2	1.4	0.8	0.8	0.1	1018306
Magnesium (Mg)	mg/L	0.6	N/A	1.3	2.5	6.9	6.5	0.2	1018306
Calcium (Ca)	mg/L	1.0	N/A	20	18	28	25	0.5	1018306

N/A = Not Applicable
RDL = Reportable Detection Limit

Maxxam Job #: B229839
 Report Date: 2012/06/22

 STANTEC CONSULTING LTD
 Client Project #: 121614000
 Site Location: POINTE NOIRE
 Your P.O. #: 546
 Sampler Initials: PM

METALS (SURFACE WATER)

Maxxam ID		R25898	R25899		R25900	R25901		
Sampling Date		2012/06/11	2012/06/11		2012/06/12	2012/06/12		
COC Number		77799	77799		77799	77799		
	Units	SW12-07	SW12-08	RDL	SW12-09	DUP-2012-06-12-A	RDL	QC Batch

METALS								
Total Hardness (CaCO ₃)	mg/L	4600	4500	1	9	76	1	1018306
Total phosphorous	mg/L	0.05	0.04	0.01	0.02	0.02	0.01	1018432
Aluminum (Al)	mg/L	0.06	0.05	0.03	0.76	0.31	0.03	1018306
Antimony (Sb)	mg/L	<0.006	<0.006	0.006	<0.006	<0.006	0.006	1018306
Silver (Ag)	mg/L	<0.0003	<0.0003	0.0003	<0.0003	<0.0003	0.0003	1018306
Arsenic (As)	mg/L	<0.002	<0.002	0.002	<0.002	<0.002	0.002	1018306
Barium (Ba)	mg/L	<0.03	<0.03	0.03	<0.03	<0.03	0.03	1018306
Cadmium (Cd)	mg/L	<0.001	<0.001	0.001	<0.001	<0.001	0.001	1018306
Chromium (Cr)	mg/L	<0.03	<0.03	0.03	<0.03	<0.03	0.03	1018306
Cobalt (Co)	mg/L	<0.03	<0.03	0.03	<0.03	<0.03	0.03	1018306
Copper (Cu)	mg/L	<0.003	<0.003	0.003	<0.003	<0.003	0.003	1018306
Lead (Pb)	mg/L	<0.001	<0.001	0.001	<0.001	0.002	0.001	1018306
Manganese (Mn)	mg/L	0.032	0.018	0.003	0.55	0.60	0.003	1018306
Molybdenum (Mo)	mg/L	<0.03	<0.03	0.03	<0.03	<0.03	0.03	1018306
Nickel (Ni)	mg/L	<0.01	<0.01	0.01	<0.01	<0.01	0.01	1018306
Selenium (Se)	mg/L	<0.001	<0.001	0.001	<0.001	<0.001	0.001	1018306
Sodium (Na)	mg/L	5200	4900	20	4.5	27	0.2	1018306
Zinc (Zn)	mg/L	<0.005	<0.005	0.005	0.010	0.006	0.005	1018306
Iron (Fe)	mg/L	0.2	<0.1	0.1	0.8	0.7	0.1	1018306
Magnesium (Mg)	mg/L	920	910	0.2	0.9	5.4	0.2	1018306
Calcium (Ca)	mg/L	310	310	0.5	2.1	22	0.5	1018306

RDL = Reportable Detection Limit

Maxxam Job #: B229839
Report Date: 2012/06/22

STANTEC CONSULTING LTD
Client Project #: 121614000
Site Location: POINTE NOIRE
Your P.O. #: 546
Sampler Initials: PM

CONVENTIONAL PARAMETERS (SURFACE WATER)

Maxxam ID		R25812	R25892	R25893	R25894	R25897		
Sampling Date		2012/06/11	2012/06/11	2012/06/11	2012/06/12	2012/06/12		
COC Number		77799	77799	77799	77799	77799		
	Units	SW12-01	SW12-02	SW12-03	SW12-04	SW12-06	RDL	QC Batch

CONVENTIONALS								
Acidity as CaCO ₃	mg/L	52	<10	<10	<10	<10	10	1018733
Hexavalent Chromium (Cr 6+)	mg/L	<0.008	<0.008	<0.008	<0.008	<0.008	0.008	1017201
Nitrogen ammonia (N-NH ₃)	mg/L	<0.02	<0.02	0.09	0.03	0.03	0.02	1018948
pH	pH	5.07	6.93	7.14	7.52	7.54	N/A	1017237
Real Color	UCV	180	57	58	66	68	2	1017219
Total Cyanide (CN)	mg/L	<0.003	<0.003	<0.003	<0.003	<0.003	0.003	1018217
Turbidity	NTU	0.3	0.3	5.2	27	17	0.1	1017264
Alkalinity Total (as CaCO ₃) pH 4.5	mg/L	<1	44	50	63	62	1	1017251
Total Dissolved Solids	mg/L	83	70	160	160	170	10	1018177
Total suspended solids (TSS)	mg/L	19	<2	6	23	20	2	1018257

RDL = Reportable Detection Limit

Maxxam Job #: B229839
Report Date: 2012/06/22

STANTEC CONSULTING LTD
Client Project #: 121614000
Site Location: POINTE NOIRE
Your P.O. #: 546
Sampler Initials: PM

CONVENTIONAL PARAMETERS (SURFACE WATER)

Maxxam ID		R25897	R25898	R25898	R25899	R25900		
Sampling Date		2012/06/12	2012/06/11	2012/06/11	2012/06/11	2012/06/12		
COC Number		77799	77799	77799	77799	77799		
	Units	SW12-06 Lab-Dup	SW12-07	SW12-07 Lab-Dup	SW12-08	SW12-09	RDL	QC Batch

CONVENTIONALS								
Acidity as CaCO ₃	mg/L	N/A	12	N/A	12	12	10	1018733
Hexavalent Chromium (Cr 6+)	mg/L	N/A	<0.008	N/A	<0.008	<0.008	0.008	1017201
Nitrogen ammonia (N-NH ₃)	mg/L	N/A	<0.02	N/A	<0.02	<0.02	0.02	1018948
pH	pH	N/A	7.96	8.15	7.75	5.82	N/A	1017237
Real Color	UCV	N/A	10	N/A	8	120	2	1017219
Total Cyanide (CN)	mg/L	N/A	<0.003	N/A	<0.003	<0.003	0.003	1018217
Turbidity	NTU	N/A	1.7	N/A	0.5	0.6	0.1	1017264
Alkalinity Total (as CaCO ₃) pH 4.5	mg/L	N/A	95	85	86	3	1	1017251
Total Dissolved Solids	mg/L	N/A	27000	N/A	27000	150	10	1018177
Total suspended solids (TSS)	mg/L	21	24	N/A	34	2	2	1018257
N/A = Not Applicable RDL = Reportable Detection Limit								

Maxxam Job #: B229839
Report Date: 2012/06/22

STANTEC CONSULTING LTD
Client Project #: 121614000
Site Location: POINTE NOIRE
Your P.O. #: 546
Sampler Initials: PM

CONVENTIONAL PARAMETERS (SURFACE WATER)

Maxxam ID		R25900	R25901	R25901		
Sampling Date		2012/06/12	2012/06/12	2012/06/12		
COC Number		77799	77799	77799		
	Units	SW12-09 Lab-Dup	DUP-2012-06-12-A	DUP-2012-06-12-A Lab-Dup	RDL	QC Batch

CONVENTIONALS						
Acidity as CaCO ₃	mg/L	N/A	<10	N/A	10	1018733
Hexavalent Chromium (Cr 6+)	mg/L	N/A	<0.008	N/A	0.008	1017201
Nitrogen ammonia (N-NH ₃)	mg/L	N/A	0.05	N/A	0.02	1018948
pH	pH	N/A	7.57	N/A	N/A	1017237
Real Color	UCV	N/A	63	N/A	2	1017219
Total Cyanide (CN)	mg/L	<0.003	0.003	N/A	0.003	1018217
Turbidity	NTU	N/A	16	N/A	0.1	1017264
Alkalinity Total (as CaCO ₃) pH 4.5	mg/L	N/A	60	N/A	1	1017251
Total Dissolved Solids	mg/L	N/A	180	180	10	1018177
Total suspended solids (TSS)	mg/L	N/A	10	N/A	2	1018257
N/A = Not Applicable RDL = Reportable Detection Limit						

Maxxam Job #: B229839
Report Date: 2012/06/22

STANTEC CONSULTING LTD
Client Project #: 121614000
Site Location: POINTE NOIRE
Your P.O. #: 546
Sampler Initials: PM

GENERAL COMMENTS

Condition of sample(s) upon receipt: GOOD except for the following:

Total Cyanide: The maximum volume of base has been added but the sample pH is still <12.: R25898

Total Cyanide: Insufficient preservative, pH adjusted upon receipt at the laboratory.: R25899

Real Color: Holding time already past.: R25812, R25892, R25893, R25898, R25899

Hexavalent Chromium (Cr 6+): Holding time already past.: R25812, R25892, R25893, R25894, R25897, R25898, R25899, R25900, R25901

pH: Holding time already past.: R25812, R25892, R25893, R25894, R25897, R25898, R25899, R25900, R25901

Turbidity: Holding time already past.: R25812, R25892, R25893, R25898, R25899

HYDROCARBONS BY GC/FID (SURFACE WATER)

Please note that the results have not been corrected for QC recoveries (spiked blank and surrogates). Please note that the results have been corrected for the method blank.

METALS (SURFACE WATER)

Please note that the results have not been corrected for QC recoveries nor for the method blank results. Reported detection limits are multiplied by dilution factors used for sample analysis.

CONVENTIONAL PARAMETERS (SURFACE WATER)

Please note that the results have not been corrected for QC recoveries nor for the method blank results. Holding time not respected for pH analysis.

Results relate only to the items tested.

STANTEC CONSULTING LTD
 Attention: Pierre-Olivier Laliberté
 Client Project #: 121614000
 P.O. #: 546
 Site Location: POINTE NOIRE

Quality Assurance Report

Maxxam Job Number: B229839

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units
1017201 DKH	Spiked Blank	Hexavalent Chromium (Cr 6+)	2012/06/14		96	%
	Method Blank	Hexavalent Chromium (Cr 6+)	2012/06/14	<0.008		mg/L
1017218 FV1	Spiked Blank	1-Chlorooctadecane	2012/06/16		85	%
		Petroleum Hydrocarbons (C10-C50)	2012/06/16		84	%
	Method Blank	1-Chlorooctadecane	2012/06/16		90	%
		Petroleum Hydrocarbons (C10-C50)	2012/06/16	140, RDL=100		ug/L
1017219 NC4	QC Standard	Real Color	2012/06/14		101	%
	Method Blank	Real Color	2012/06/14	<2		UCV
1017237 MR4	Spiked Blank	pH	2012/06/14		100	%
	Spiked Blank DUP	pH	2012/06/14		100	%
1017251 MR4	Spiked Blank	Alkalinity Total (as CaCO3) pH 4.5	2012/06/14		95	%
	Method Blank	Alkalinity Total (as CaCO3) pH 4.5	2012/06/14	<1		mg/L
1017264 NC4	QC Standard	Turbidity	2012/06/14		90	%
	Method Blank	Turbidity	2012/06/14	0.1, RDL=0.1		NTU
1018177 LD2	Spiked Blank	Total Dissolved Solids	2012/06/20		98	%
	Spiked Blank DUP	Total Dissolved Solids	2012/06/20		97	%
	Method Blank	Total Dissolved Solids	2012/06/20	<10		mg/L
1018217 DB2	QC Standard	Total Cyanide (CN)	2012/06/18		91	%
	Spiked Blank	Total Cyanide (CN)	2012/06/18		100	%
	Method Blank	Total Cyanide (CN)	2012/06/18	<0.003		mg/L
1018257 LD2	Spiked Blank	Total suspended solids (TSS)	2012/06/19		97	%
	Spiked Blank DUP	Total suspended solids (TSS)	2012/06/19		98	%
	Method Blank	Total suspended solids (TSS)	2012/06/19	<2		mg/L
1018306 MCA	Spiked Blank	Aluminum (Al)	2012/06/19		98	%
		Antimony (Sb)	2012/06/19		104	%
		Silver (Ag)	2012/06/19		100	%
		Arsenic (As)	2012/06/19		99	%
		Barium (Ba)	2012/06/19		108	%
		Cadmium (Cd)	2012/06/19		100	%
		Chromium (Cr)	2012/06/19		102	%
		Cobalt (Co)	2012/06/19		99	%
		Copper (Cu)	2012/06/19		97	%
		Lead (Pb)	2012/06/19		105	%
		Manganese (Mn)	2012/06/19		106	%
		Molybdenum (Mo)	2012/06/19		104	%
		Nickel (Ni)	2012/06/19		116	%
		Selenium (Se)	2012/06/19		100	%
		Sodium (Na)	2012/06/19		97	%
		Zinc (Zn)	2012/06/19		99	%
		Iron (Fe)	2012/06/19		101	%
		Magnesium (Mg)	2012/06/19		97	%
		Calcium (Ca)	2012/06/19		99	%
	Method Blank	Total Hardness (CaCO3)	2012/06/19	<1		mg/L
		Aluminum (Al)	2012/06/19	<0.03		mg/L
		Antimony (Sb)	2012/06/19	<0.006		mg/L
		Silver (Ag)	2012/06/19	<0.0003		mg/L
		Arsenic (As)	2012/06/19	<0.002		mg/L
		Barium (Ba)	2012/06/19	<0.03		mg/L
		Cadmium (Cd)	2012/06/19	<0.001		mg/L
		Chromium (Cr)	2012/06/19	<0.03		mg/L
		Cobalt (Co)	2012/06/19	<0.03		mg/L
		Copper (Cu)	2012/06/19	<0.003		mg/L
		Lead (Pb)	2012/06/19	<0.001		mg/L
		Manganese (Mn)	2012/06/19	<0.003		mg/L
		Molybdenum (Mo)	2012/06/19	<0.03		mg/L

STANTEC CONSULTING LTD
 Attention: Pierre-Olivier Laliberté
 Client Project #: 121614000
 P.O. #: 546
 Site Location: POINTE NOIRE

Quality Assurance Report (Continued)

Maxxam Job Number: B229839

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units
1018306 MCA	Method Blank	Nickel (Ni)	2012/06/19	<0.01		mg/L
		Selenium (Se)	2012/06/19	<0.001		mg/L
		Sodium (Na)	2012/06/19	<0.2		mg/L
		Zinc (Zn)	2012/06/19	0.007, RDL=0.005		mg/L
		Iron (Fe)	2012/06/19	<0.1		mg/L
		Magnesium (Mg)	2012/06/19	<0.2		mg/L
		Calcium (Ca)	2012/06/19	<0.5		mg/L
1018432 MCA	Spiked Blank	Total phosphorous	2012/06/18		103	%
	Method Blank	Total phosphorous	2012/06/18	<0.01		mg/L
1018733 NC4	Calibration Check	Acidity as CaCO ₃	2012/06/19		100	%
	QC Standard	Acidity as CaCO ₃	2012/06/19		101	%
	Spiked Blank	Acidity as CaCO ₃	2012/06/19		101	%
1018948 DKH	Spiked Blank	Nitrogen ammonia (N-NH ₃)	2012/06/20		98	%
	Method Blank	Nitrogen ammonia (N-NH ₃)	2012/06/20	<0.02		mg/L

RDL = Reportable Detection Limit

Calibration Check: A calibration standard analyzed at different times to evaluate on-going calibration accuracy.

QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

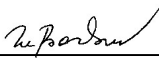
Validation Signature Page

Maxxam Job #: B229839

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



CORINA TUE, B.Sc., Chemist



DELIA BARBUL, B.Sc., Chemist



KATHIE QUEVILLON, B.Sc., Chemist



MARIA CHRIFI ALAOU, B.Sc., Chemist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

INFORMATION FACTURATION: #1681 STANTEC CONSULTING LTD Refinery Payables P.O. Box 38212 Dartmouth NS B3B 1X2 Téléphone: _____ Téléc.: _____ Courriel: Stantec.Accounts.Payable.Invoices@Stantec.com		INFORMATION RAPPORT (si différente de facturation): #999 STANTEC CONSULTING LTD Pierre-Olivier Laliberté 100, boulevard Alexis-Nihon Suite 110 Ville Saint-Laurent PQ H4M 2N6 4240 PierreOlivier.Laliberté@stantec.com/labmontreal Téléc.: (514)739-8499		INFORMATION PROJET: # DOSSIER MAXXAM: B20269 # CHAÎNE DE RESPONSABILITÉ: CHARGÉ(E) DE PROJETS: MARIA MANAROLIS # COMMANDE BOUTEILLES: 77739 # engagement OPC: P. MARCOUX Échantillonneur: P. MARCOUX		À l'usage du laboratoire seulement: # DOSSIER MAXXAM: _____ CHARGÉ(E) DE PROJETS: MARIA MANAROLIS # COMMANDE BOUTEILLES: 77739	
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CRITÈRES ET RÉGLEMENTS:

Essai de pompage
 Pontique
 PDS
 PMS
 REMR
 Autre (spécifier) _____

Rég. OLM
 24h (Art. 6.103.2)
 48h (Art. 6.2)
 72h (Art. 6.103.2)

Qualité Eau Potable
 Rég. Pâtes à Papiers (Art. 104)
 Rég. Pâtes à Papiers (Art. 112)
 Municipal
 Non-municipal

Remarque: Pour les échantillons d'eau potable soumis à la réglementation - S.V.P. utiliser le formulaire client rattaché à l'eau potable

CONSERVER LES ÉCHANTILLONS EN MILIEU FROID (< 10°C) JUSQU'À LA LIVRAISON CHEZ MAXXAM

Étiquette Codebar	Identification de l'échantillon	Date Prélevé	Heure	Matrice	INSTRUCIONS SPÉCIALES		ANALYSES REQUISES (S.V.P. soyez précis)										Demande biochimique en oxgène (5 jours)	Délai Régulier: (Sera applicable si le délai de l'urgence n'est pas précisé) Délai Régulier = 5 Jours ouvrables pour la plupart des analyses. S.V.P. Veuillez noter que le délai pour certaines analyses telles que la DBO5 et les Divinnes/Uranium est > 5 jours - Contactez votre chargé de projets pour les détails. Délai rapide (Si applicable à tous les échantillons) Date Requis: _____ Heure requise: _____	Date Requis	# de Contenaires	Commentaires
					Eau potable réglementée ? ()	Métaux à filtrer au labo ? ()	Métaux	dissous: Al, Ag, As, Ba, Cd, Co, Cr, Cu, Fe, Se, Sb, Mn, Mo, Na, Ni, Pb, Chrome Hexavalent (Cr 6+)	Dureté	Turbidité	Matières en suspension	Conductivité	Coliformes fécaux	Coliformes totaux							
1	SW12-01	2012/06/11		Eau source														14	14-Jun-12 10:45 MARIA MANAROLIS		
2	SW12-02	2012/06/11																14			
3	SW12-03	2012/06/11																14			
4	SW12-04	2012/06/12																14			
5	SW12-05	2012/06/12																14			
6	SW12-06	2012/06/12																14			
7	SW12-07	2012/06/11																14			
8	SW12-08	2012/06/11																14			
9	SW12-09	2012/06/12																13	888/869/		
10	DUP-2012-06-12-A	2012/06/12																14	753/686/10.12.12/		

***DESSAIS PAR: (Signature)** *Robert Boudin* **Date: (AAAA/MM/JJ)** 2012/06/19 **Heure:** 10:45

***DESSAIS PAR: (Signature)** _____ **Date: (AAAA/MM/JJ)** _____ **Heure:** _____

RECUPERÉ PAR: (Signature) _____ **Date: (AAAA/MM/JJ)** _____ **Heure:** _____

de pots utilisés et non retournés _____

Courr. Délai de Conservation X

Température (°C) de Réception _____

A l'usage du laboratoire seulement
 Social Legal Intact sur la gabarite
 2012/06/22 10:45

Page 12 of 13

Maxxam Analytics International Corporation o/a Maxxam Analytique

• IL EST DE LA RESPONSABILITÉ DE LA PERSONNE RAPPORTANT L'ÉCHANTILLON DE S'ASSURER DE L'EXACTITUDE DU BORDEREAU DE TRANSMISSION. UN MANQUEMENT À CETTE PROCÉDURE PEUT SE TRADUIRE PAR UN RETARD DANS LE DÉLAI ANALYTIQUE.

ÉCHANTILLON à conserver (1)

- SW12-05

ÉCHANTILLONS pour analyse immédiate (9)

- SW12-01
- SW12-02
- SW12-03
- SW12-04
- SW12-06
- SW12-07
- SW12-08
- SW12-09 (voir note ci-dessous)
- DUP-2012-06-12-A

PARAMÈTRES (à mesurer pour chacun des 9 échantillons ci-dessus)

- Acidité
- Alcalinité totale
- Azote ammoniacale
- Chrome hexavalent
- Couleur
- Cyanures totaux
- Dureté
- Hydrocarbures pétroliers C10-C50
- Métaux extractibles (Al, Ag, As, Ba, Cd, Co, Cr, Cu, Fe, Hg, Se, Sb, Mn, Mo, Na, Ni, Pb, Zn)
- pH
- Phosphore total
- Radium 226
- Solides totaux dissous (voir note ci-dessous pour SW12-09)
- Solides totaux en suspension
- Turbidité

Note : pour l'échantillon **SW12-09**, il nous n'avons pas de bouteille servant à l'analyse des **solides totaux dissous**. Es-tu en mesure d'effectuer cette analyse à partir des autres bouteilles disponibles pour cet échantillon? Si oui, stp procède avec cette analyse. Si non, on annule ce paramètre pour cet échantillon.

Merci et bonne journée!

Pierre-Olivier Laliberté

Chargé de projet

Stantec

100 boulevard Alexis-Nihon bureau 110

Saint-Laurent (Québec) H4M 2N6

Ph: (514) 340-2180

Fx: (514) 739-8499

Cell: (514) 605-9541

Pierre-Olivier.Laliberte@stantec.com

stantec.com

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2012/06/14



Stantec Consulting (Winnipeg)
ATTN: Nikolay Sidenko
603 386 Broadway Avenue
Winnipeg MB R3C 3R6

Date Received: 21-JUN-12
Report Date: 06-JUL-12 15:46 (MT)
Version: FINAL

Client Phone: 204-942-2505

Certificate of Analysis

Lab Work Order #: L1165719
Project P.O. #: NOT SUBMITTED
Job Reference: 121614000.326
C of C Numbers:
Legal Site Desc:

Gail Hill
Account Manager

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1165719-1 SIW-1 Sampled By: CLIENT on 19-JUN-12 @ 13:00 Matrix: WATER CCME Aqlife Dissolved Metals Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0624		0.0020	mg/L	21-JUN-12	27-JUN-12	R2389525
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Arsenic (As)-Dissolved	0.00024		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Barium (Ba)-Dissolved	0.00387		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Boron (B)-Dissolved	0.116		0.010	mg/L	21-JUN-12	27-JUN-12	R2389525
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	21-JUN-12	27-JUN-12	R2389525
Calcium (Ca)-Dissolved	14.5		0.050	mg/L	21-JUN-12	27-JUN-12	R2389525
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	21-JUN-12	27-JUN-12	R2389525
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Copper (Cu)-Dissolved	0.00477		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	21-JUN-12	27-JUN-12	R2389525
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	21-JUN-12	27-JUN-12	R2389525
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	21-JUN-12	27-JUN-12	R2389525
Magnesium (Mg)-Dissolved	4.20		0.010	mg/L	21-JUN-12	27-JUN-12	R2389525
Manganese (Mn)-Dissolved	0.00068		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Molybdenum (Mo)-Dissolved	0.00200		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Nickel (Ni)-Dissolved	0.0041		0.0010	mg/L	21-JUN-12	27-JUN-12	R2389525
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	21-JUN-12	27-JUN-12	R2389525
Potassium (K)-Dissolved	5.37		0.020	mg/L	21-JUN-12	27-JUN-12	R2389525
Rubidium (Rb)-Dissolved	0.00531		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	21-JUN-12	27-JUN-12	R2389525
Silicon (Si)-Dissolved	4.33		0.050	mg/L	21-JUN-12	27-JUN-12	R2389525
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Sodium (Na)-Dissolved	49.2	DLA	2.0	mg/L	21-JUN-12	03-JUL-12	R2392203
Strontium (Sr)-Dissolved	0.104		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Titanium (Ti)-Dissolved	0.00141		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Tungsten (W)-Dissolved	0.00036		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Uranium (U)-Dissolved	0.00040		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Vanadium (V)-Dissolved	0.00146		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	21-JUN-12	27-JUN-12	R2389525
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	21-JUN-12	27-JUN-12	R2389525
Mercury Dissolved							
Mercury (Hg)-Dissolved	<0.000020		0.000020	mg/L	25-JUN-12	25-JUN-12	R2388154
Miscellaneous Parameters							
Sulfate	24.4		0.50	mg/L		22-JUN-12	R2387679
pH	9.46		0.10	pH units		21-JUN-12	R2386564
L1165719-2 SIW-2 Sampled By: CLIENT on 19-JUN-12 @ 13:30 Matrix: WATER CCME Aqlife Dissolved Metals Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0652		0.0020	mg/L	21-JUN-12	27-JUN-12	R2389525
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1165719-2 SIW-2							
Sampled By: CLIENT on 19-JUN-12 @ 13:30							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Arsenic (As)-Dissolved	0.00044		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Barium (Ba)-Dissolved	0.00721		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Boron (B)-Dissolved	0.050		0.010	mg/L	21-JUN-12	27-JUN-12	R2389525
Cadmium (Cd)-Dissolved	0.000015		0.000010	mg/L	21-JUN-12	27-JUN-12	R2389525
Calcium (Ca)-Dissolved	20.4		0.050	mg/L	21-JUN-12	27-JUN-12	R2389525
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	21-JUN-12	27-JUN-12	R2389525
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Copper (Cu)-Dissolved	0.00779		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	21-JUN-12	27-JUN-12	R2389525
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	21-JUN-12	27-JUN-12	R2389525
Lithium (Li)-Dissolved	0.0022		0.0020	mg/L	21-JUN-12	27-JUN-12	R2389525
Magnesium (Mg)-Dissolved	4.60		0.010	mg/L	21-JUN-12	27-JUN-12	R2389525
Manganese (Mn)-Dissolved	0.0384		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Molybdenum (Mo)-Dissolved	0.00107		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Nickel (Ni)-Dissolved	0.0053		0.0010	mg/L	21-JUN-12	27-JUN-12	R2389525
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	21-JUN-12	27-JUN-12	R2389525
Potassium (K)-Dissolved	4.37		0.020	mg/L	21-JUN-12	27-JUN-12	R2389525
Rubidium (Rb)-Dissolved	0.00659		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	21-JUN-12	27-JUN-12	R2389525
Silicon (Si)-Dissolved	5.19		0.050	mg/L	21-JUN-12	27-JUN-12	R2389525
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Sodium (Na)-Dissolved	21.7		0.020	mg/L	21-JUN-12	27-JUN-12	R2389525
Strontium (Sr)-Dissolved	0.120		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Thorium (Th)-Dissolved	0.00010		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Tin (Sn)-Dissolved	0.00044		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Titanium (Ti)-Dissolved	0.00047		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Tungsten (W)-Dissolved	0.00010		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Uranium (U)-Dissolved	0.00032		0.00010	mg/L	21-JUN-12	27-JUN-12	R2389525
Vanadium (V)-Dissolved	0.00101		0.00020	mg/L	21-JUN-12	27-JUN-12	R2389525
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	21-JUN-12	27-JUN-12	R2389525
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	21-JUN-12	27-JUN-12	R2389525
Mercury Dissolved							
Mercury (Hg)-Dissolved	<0.000020		0.000020	mg/L	25-JUN-12	25-JUN-12	R2388154
Miscellaneous Parameters							
Sulfate	19.7		0.50	mg/L		22-JUN-12	R2387679
pH	8.38		0.10	pH units		21-JUN-12	R2386564

* 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
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**
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.			
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.			
PH-WP	Water	pH	APHA 4500H
The 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.			
SO4-IC-WP	Water	Sulfate by Ion Chromatography	EPA 300.1 (modified)
Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.			

** 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 ENVIRONMENTAL - 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: L1165719

Report Date: 06-JUL-12

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Client: Stantec Consulting (Winnipeg)
603 386 Broadway Avenue
Winnipeg MB R3C 3R6

Contact: Nikolay Sidenko

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-D-CVAF-WP		Water						
Batch	R2388154							
WG1496108-2	LCS							
Mercury (Hg)-Dissolved			92.3		%		80-120	25-JUN-12
Mercury (Hg)-Dissolved			92.3		%		80-120	25-JUN-12
WG1496101-1	MB							
Mercury (Hg)-Dissolved			<0.000020		mg/L		0.00002	25-JUN-12
Mercury (Hg)-Dissolved			<0.000020		mg/L		0.00002	25-JUN-12
WG1496108-1	MB							
Mercury (Hg)-Dissolved			<0.000020		mg/L		0.00002	25-JUN-12
Mercury (Hg)-Dissolved			<0.000020		mg/L		0.00002	25-JUN-12
MET-D-L-MS-WP		Water						
Batch	R2389525							
WG1497986-4	DUP	WG1497986-3						
Aluminum (Al)-Dissolved		0.103	0.100		mg/L	2.8	20	27-JUN-12
Antimony (Sb)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	27-JUN-12
Arsenic (As)-Dissolved		0.00023	0.00021		mg/L	10	20	27-JUN-12
Barium (Ba)-Dissolved		0.0131	0.0125		mg/L	5.3	20	27-JUN-12
Beryllium (Be)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	27-JUN-12
Bismuth (Bi)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	27-JUN-12
Boron (B)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	27-JUN-12
Cadmium (Cd)-Dissolved		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	27-JUN-12
Calcium (Ca)-Dissolved		9.05	8.65		mg/L	4.5	20	27-JUN-12
Cesium (Cs)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	27-JUN-12
Chromium (Cr)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	27-JUN-12
Cobalt (Co)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	27-JUN-12
Copper (Cu)-Dissolved		0.00050	0.00051		mg/L	1.7	20	27-JUN-12
Iron (Fe)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	20	27-JUN-12
Lead (Pb)-Dissolved		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	27-JUN-12
Lithium (Li)-Dissolved		0.0044	0.0044		mg/L	0.0	20	27-JUN-12
Magnesium (Mg)-Dissolved		3.89	3.71		mg/L	4.8	20	27-JUN-12
Manganese (Mn)-Dissolved		0.00263	0.00270		mg/L	2.4	20	27-JUN-12
Molybdenum (Mo)-Dissolved		0.00015	0.00015		mg/L	3.0	20	27-JUN-12
Nickel (Ni)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	27-JUN-12
Phosphorus (P)-Dissolved		<0.030	<0.030	RPD-NA	mg/L	N/A	20	27-JUN-12
Potassium (K)-Dissolved		1.09	1.03		mg/L	5.9	20	27-JUN-12



Quality Control Report

Workorder: L1165719

Report Date: 06-JUL-12

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Client: Stantec Consulting (Winnipeg)
603 386 Broadway Avenue
Winnipeg MB R3C 3R6

Contact: Nikolay Sidenko

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP								
	Water							
Batch	R2389525							
WG1497986-4	DUP	WG1497986-3						
Rubidium (Rb)-Dissolved		0.00139	0.00136		mg/L	2.1	20	27-JUN-12
Selenium (Se)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	27-JUN-12
Silicon (Si)-Dissolved		1.62	1.63		mg/L	0.3	20	27-JUN-12
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	27-JUN-12
Sodium (Na)-Dissolved		2.82	2.65		mg/L	6.3	20	27-JUN-12
Strontium (Sr)-Dissolved		0.0372	0.0353		mg/L	5.3	20	27-JUN-12
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	27-JUN-12
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	27-JUN-12
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	27-JUN-12
Tin (Sn)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	27-JUN-12
Titanium (Ti)-Dissolved		0.00329	0.00307		mg/L	6.7	20	27-JUN-12
Tungsten (W)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	27-JUN-12
Uranium (U)-Dissolved		0.00011	<0.00010	RPD-NA	mg/L	N/A	20	27-JUN-12
Vanadium (V)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	27-JUN-12
Zinc (Zn)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	27-JUN-12
Zirconium (Zr)-Dissolved		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	27-JUN-12
WG1497986-2	LCS							
Aluminum (Al)-Dissolved			100.4		%		80-120	27-JUN-12
Antimony (Sb)-Dissolved			109.2		%		80-120	27-JUN-12
Arsenic (As)-Dissolved			106.9		%		80-120	27-JUN-12
Barium (Ba)-Dissolved			96.6		%		80-120	27-JUN-12
Beryllium (Be)-Dissolved			106.0		%		80-120	27-JUN-12
Bismuth (Bi)-Dissolved			100.4		%		80-120	27-JUN-12
Boron (B)-Dissolved			98.1		%		80-120	27-JUN-12
Cadmium (Cd)-Dissolved			106.4		%		80-120	27-JUN-12
Calcium (Ca)-Dissolved			97.0		%		80-120	27-JUN-12
Cesium (Cs)-Dissolved			97.0		%		80-120	27-JUN-12
Chromium (Cr)-Dissolved			92.5		%		80-120	27-JUN-12
Cobalt (Co)-Dissolved			89.4		%		80-120	27-JUN-12
Copper (Cu)-Dissolved			92.3		%		80-120	27-JUN-12
Iron (Fe)-Dissolved			87.7		%		80-120	27-JUN-12
Lead (Pb)-Dissolved			102.0		%		80-120	27-JUN-12
Lithium (Li)-Dissolved			111.4		%		80-120	27-JUN-12



Quality Control Report

Workorder: L1165719

Report Date: 06-JUL-12

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Client: Stantec Consulting (Winnipeg)
603 386 Broadway Avenue
Winnipeg MB R3C 3R6

Contact: Nikolay Sidenko

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2389525							
WG1497986-2	LCS							
Magnesium (Mg)-Dissolved			105.8		%		80-120	27-JUN-12
Manganese (Mn)-Dissolved			89.7		%		80-120	27-JUN-12
Molybdenum (Mo)-Dissolved			99.7		%		80-120	27-JUN-12
Nickel (Ni)-Dissolved			91.0		%		80-120	27-JUN-12
Phosphorus (P)-Dissolved			93.2		%		80-120	27-JUN-12
Potassium (K)-Dissolved			98.5		%		80-120	27-JUN-12
Rubidium (Rb)-Dissolved			102.3		%		80-120	27-JUN-12
Selenium (Se)-Dissolved			103.3		%		80-120	27-JUN-12
Silicon (Si)-Dissolved			98.9		%		80-120	27-JUN-12
Silver (Ag)-Dissolved			97.7		%		80-120	27-JUN-12
Sodium (Na)-Dissolved			101.9		%		80-120	27-JUN-12
Strontium (Sr)-Dissolved			107.3		%		80-120	27-JUN-12
Tellurium (Te)-Dissolved			103.1		%		80-120	27-JUN-12
Thallium (Tl)-Dissolved			101.0		%		80-120	27-JUN-12
Thorium (Th)-Dissolved			103.7		%		80-120	27-JUN-12
Tin (Sn)-Dissolved			103.4		%		80-120	27-JUN-12
Titanium (Ti)-Dissolved			107.0		%		80-120	27-JUN-12
Tungsten (W)-Dissolved			103.7		%		80-120	27-JUN-12
Uranium (U)-Dissolved			101.1		%		80-120	27-JUN-12
Vanadium (V)-Dissolved			97.6		%		80-120	27-JUN-12
Zinc (Zn)-Dissolved			97.7		%		80-120	27-JUN-12
Zirconium (Zr)-Dissolved			104.0		%		80-120	27-JUN-12
WG1497986-1	MB							
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.002	27-JUN-12
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.0002	27-JUN-12
Arsenic (As)-Dissolved			<0.00020		mg/L		0.0002	27-JUN-12
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0002	27-JUN-12
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.0002	27-JUN-12
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0002	27-JUN-12
Boron (B)-Dissolved			<0.010		mg/L		0.01	27-JUN-12
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.00001	27-JUN-12
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	27-JUN-12
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0001	27-JUN-12
Chromium (Cr)-Dissolved			<0.0020		mg/L		0.002	27-JUN-12



Quality Control Report

Workorder: L1165719

Report Date: 06-JUL-12

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Client: Stantec Consulting (Winnipeg)
603 386 Broadway Avenue
Winnipeg MB R3C 3R6

Contact: Nikolay Sidenko

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2389525							
WG1497986-1	MB							
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0002	27-JUN-12
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	27-JUN-12
Iron (Fe)-Dissolved			<0.10		mg/L		0.1	27-JUN-12
Lead (Pb)-Dissolved			<0.000090		mg/L		0.00009	27-JUN-12
Lithium (Li)-Dissolved			<0.0020		mg/L		0.002	27-JUN-12
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.01	27-JUN-12
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	27-JUN-12
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0001	27-JUN-12
Nickel (Ni)-Dissolved			<0.0010		mg/L		0.001	27-JUN-12
Phosphorus (P)-Dissolved			<0.030		mg/L		0.03	27-JUN-12
Potassium (K)-Dissolved			<0.020		mg/L		0.02	27-JUN-12
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	27-JUN-12
Selenium (Se)-Dissolved			<0.0010		mg/L		0.001	27-JUN-12
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	27-JUN-12
Silver (Ag)-Dissolved			<0.00010		mg/L		0.0001	27-JUN-12
Sodium (Na)-Dissolved			<0.020		mg/L		0.02	27-JUN-12
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0001	27-JUN-12
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	27-JUN-12
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.0001	27-JUN-12
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	27-JUN-12
Tin (Sn)-Dissolved			<0.00020		mg/L		0.0002	27-JUN-12
Titanium (Ti)-Dissolved			<0.00020		mg/L		0.0002	27-JUN-12
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	27-JUN-12
Uranium (U)-Dissolved			<0.00010		mg/L		0.0001	27-JUN-12
Vanadium (V)-Dissolved			<0.00020		mg/L		0.0002	27-JUN-12
Zinc (Zn)-Dissolved			<0.0020		mg/L		0.002	27-JUN-12
Zirconium (Zr)-Dissolved			<0.00040		mg/L		0.0004	27-JUN-12
PH-WP		Water						
Batch	R2386564							
WG1494657-6	DUP	L1165692-9						
pH		9.31	9.26	J	pH units	0.05	0.2	21-JUN-12
WG1494657-7	DUP	L1165712-1						
pH		8.08	8.18	J	pH units	0.10	0.2	21-JUN-12
WG1494657-3	LCS							



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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-WP	Water							
Batch	R2386564							
WG1494657-3	LCS							
pH			7.37		pH units		7.3-7.5	21-JUN-12
SO4-IC-WP	Water							
Batch	R2387679							
WG1495139-3	DUP	L1166712-1						
Sulfate		173	174		mg/L	0.3	20	22-JUN-12
WG1495139-2	LCS							
Sulfate			99.3		%		85-115	22-JUN-12
WG1495139-1	MB							
Sulfate			<0.50		mg/L		0.5	22-JUN-12
WG1495139-4	MS	L1166712-1						
Sulfate			N/A	MS-B	%		-	22-JUN-12

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
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	19-JUN-12 13:00	21-JUN-12 13:25	0.25	48	hours	EHTR-FM
	2	19-JUN-12 13:30	21-JUN-12 13:25	0.25	48	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 L1165719 were received on 21-JUN-12 09:38.

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.

