Appendix 21

Laboratory Analytical Results

Your P.O. #: NSD016400
Your Project #: 1044857-Z9100
Site:NORTHWESTPOINT
Your C.O.C. #: 23599, 23600, 23523

Attention: Carolyn Anstey-Moore
Jacques Whitford Limited
607 Torbay Rd
St. John's, NL
A1A 4Y6

Report Date: 2009/08/19

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A9A2100
Received: 2009/08/11, 14:00

Sample Matrix: Soil
Samples Received: 18

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
TEH in Soil (PIRI)	4	2009/08/12	2009/08/13	ATL SOP-00197 R2	Based on Atl. PIRI
TEH in Soil (PIRI)	10	2009/08/13	2009/08/14	ATL SOP-00197 R2	Based on Atl. PIRI
TEH in Soil (PIRI)	2	2009/08/13	2009/08/18	ATL SOP-00197 R2	Based on Atl. PIRI
TEH in Soil (PIRI)	1	2009/08/14	2009/08/17	ATL SOP-00197 R2	Based on Atl. PIRI
TEH in Soil (PIRI)	1	2009/08/14	2009/08/18	ATL SOP-00197 R2	Based on Atl. PIRI
Moisture	4	N/A	2009/08/12	ATL SOP-00196 R3	MOE Handbook 1983
Moisture	12	N/A	2009/08/13	ATL SOP-00196 R3	MOE Handbook 1983
Moisture	2	N/A	2009/08/14	ATL SOP-00196 R3	MOE Handbook 1983
VPH in Soil (PIRI) (1)	4	2009/08/12	2009/08/17	ATL SOP 00117 R4/00119 R6	Based on Atl. PIRI
VPH in Soil (PIRI) (1)	12	2009/08/13	2009/08/18	ATL SOP 00117 R4/00119 R6	Based on Atl. PIRI
VPH in Soil (PIRI) (1)	2	2009/08/14	2009/08/19	ATL SOP 00117 R4/00119 R6	Based on Atl. PIRI
ModTPH (T1) Calc. for Soil	12	2009/08/11	2009/08/18		Based on Atl. PIRI
ModTPH (T1) Calc. for Soil	6	2009/08/11	2009/08/19		Based on Atl. PIRI

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
* Results relate only to the items tested.

(1) This test was performed by Bedford

EncryptionKey

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

ROB WHELAN, Project Manager
Email: Rob.Whelan@maxxamanalytics.com
Phone# (709) 754-0203

==========

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. SCC and CALA have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 1

This document is in electronic format, hard copy is available on request.

Maxxam Job #: A9A2100
Report Date: 2009/08/19

Jacques Whitford Limited
Client Project #: 1044857-Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

RESULTS OF ANALYSES OF SOIL

MaxxamID		DI3709	DI3712	DI3713	DI3714		DI3715	DI3716		
SamplingDate		2009/08/07	2009/08/07	2009/08/07	2009/08/07		2009/08/07	2009/08/07		
ReceivedTemperature(°C)		18.5 C	18.5 C	18.5 C	18.5 C		18.5 C	18.5 C		
	Units	**TP2 BS2**	**TP3 BS2**	**TP4 BS2**	**TP5 BS2**	**QC Batch**	**TP7 BS2**	**TP9 BS2**	**RDL**	**QC Batch**
Inorganics										
Moisture	%	16	16	20	16	1904406	13	13	1	1905668

MaxxamID		DI3717	DI3718	DI3720	DI3721	DI3722	DI3723	DI3724		
SamplingDate		2009/08/07	2009/08/07	2009/08/07	2009/08/07	2009/08/07	2009/08/07	2009/08/07		
ReceivedTemperature(°C)		18.5 C	18.5 C	18.5 C	18.5 C	18.5 C	18.5 C	18.5 C		
	Units	**TP10 BS2**	**09-MW2-SS2**	**TP11 BS1**	**TP13 BS2**	**TP16-BS2**	**TP18-BS2**	**TP19-BS2**	**RDL**	**QC Batch**
Inorganics										
Moisture	%	11	14	14	10	12	14	13	1	1905668

MaxxamID		DI3725	DI3726	DI3727		DI3728	DI3728	DI3729		
SamplingDate		2009/08/07	2009/08/07	2009/08/07		2009/08/07	2009/08/07	2009/08/07		
ReceivedTemperature(°C)		18.5 C	18.5 C	18.5 C		18.5 C	18.5 C	18.5 C		
	Units	**TP21-BS2**	**TP22-BS2**	**TP23-BS2**	**QC Batch**	**TP25-BS2**	**TP25-BS2 Lab-Dup**	**MW14-SS4**	**RDL**	**QC Batch**
Inorganics										
Moisture	%	11	21	9	1905668	11	11	13	1	1906992

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: A9A2100
Report Date: 2009/08/19

Jacques Whitford Limited
Client Project #: 1044857-Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

ATLANTIC RBCA HYDROCARBONS (SOIL)

MaxxamID		DI3709	DI3712	DI3713	DI3714			DI3715		DI3716	DI3717	DI3718		
SamplingDate		2009/08/07	2009/08/07	2009/08/07	2009/08/07			2009/08/07		2009/08/07	2009/08/07	2009/08/07		
ReceivedTemperature(°C)		18.5 C	18.5 C	18.5 C	18.5 C			18.5 C		18.5 C	18.5 C	18.5 C		
	Units	**TP2 BS2**	**TP3 BS2**	**TP4 BS2**	**TP5 BS2**	**RDL**	**QC Batch**	**TP7 BS2**	**RDL**	**TP9 BS2**	**TP10 BS2**	**09-MW2-SS2**	**RDL**	**QC Batch**
PetroleumHydrocarbons														
Benzene	mg/kg	<0.03	<0.03	<0.03	<0.03	0.03	1904411	<0.03	0.03	<0.03	<0.03	<0.03	0.03	1905671
Toluene	mg/kg	<0.03	<0.03	<0.03	<0.03	0.03	1904411	<0.03	0.03	<0.03	<0.03	<0.03	0.03	1905671
Ethylbenzene	mg/kg	<0.03	<0.03	<0.03	<0.03	0.03	1904411	1.5	0.03	<0.03	<0.03	<0.03	0.03	1905671
Xylene(Total)	mg/kg	<0.05	<0.05	<0.05	<0.05	0.05	1904411	8.9	0.05	<0.05	<0.05	<0.05	0.05	1905671
C6 - C10 (less BTEX)	mg/kg	21	25	10	<3	3	1904411	1200	30	<3	180	130	3	1905671
>C10-C21Hydrocarbons	mg/kg	2700	2900	750	1600	15	1904412	6900	15	<15	8400	3800	15	1905672
>C21-<C32Hydrocarbons	mg/kg	57	62	29	23	15	1904412	51	15	<15	79	48	15	1905672
Modified TPH (Tier1)	mg/kg	2700	3000	790	1600	20	1903462	8100	30	<20	8700	4000	20	1903462
Surrogate Recovery (%)														
Isobutylbenzene-Extractable	%	78	76	109	107		1904412	193(1)		105	130	140(1)		1905672
Isobutylbenzene-Volatile	%	77	78	94	88		1904411	69		102	61	77		1905671
n-Dotriacontane-Extractable	%	134(2)	130(3)	117(3)	125(3)		1904412	122(2)		107	123(3)	127(2)		1905672

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.
(2) - Weathered fuel oil fraction. Isobutylbenzene/n-Dotriacontane recovery(ies) not within acceptance limits due to matrix/co-extractive interference.
(3) - Weathered fuel oil fraction.

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Maxxam Job #: A9A2100
Report Date: 2009/08/19

Jacques Whitford Limited
Client Project #: 1044857-Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

ATLANTIC RBCA HYDROCARBONS (SOIL)

MaxxamID		DI3720	DI3721	DI3722	DI3723	DI3724	DI3725		DI3726		
SamplingDate		2009/08/07	2009/08/07	2009/08/07	2009/08/07	2009/08/07	2009/08/07		2009/08/07		
ReceivedTemperature(°C)		18.5 C	18.5 C	18.5 C	18.5 C	18.5 C	18.5 C		18.5 C		
	Units	**TP11 BS1**	**TP13 BS2**	**TP16-BS2**	**TP18-BS2**	**TP19-BS2**	**TP21-BS2**	**RDL**	**TP22-BS2**	**RDL**	**QC Batch**
PetroleumHydrocarbons											
Benzene	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	0.04	0.03	1905671
Toluene	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	0.20	0.03	1905671
Ethylbenzene	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	0.22	0.03	1905671
Xylene(Total)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	0.51	0.05	1905671
C6 - C10 (less BTEX)	mg/kg	<3	8	<3	<3	27	300	3	1100	30	1905671
>C10-C21Hydrocarbons	mg/kg	120	2000	<15	<15	5600	6500	15	29000	15	1905672
>C21-<C32Hydrocarbons	mg/kg	91	63	<15	28	140	76	15	380	15	1905672
Modified TPH (Tier1)	mg/kg	220	2100	<20	28	5800	6900	20	31000	30	1903462
Surrogate Recovery (%)											
Isobutylbenzene - Extractable	%	105	97	100	105	88	108		948(1)		1905672
Isobutylbenzene-Volatile	%	104	79	101	101	83	64		63		1905671
n-Dotriacontane-Extractable	%	118(2)	127(3)	106	110(4)	127(3)	125(3)		119(5)		1905672

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.
(2) - Weathered fuel oil fraction. Lube oil fraction.
(3) - Weathered fuel oil fraction.
(4) - No resemblance to petroleum products in lube oil range.
(5) - Weathered fuel oil fraction. Isobutylbenzene/n-Dotriacontane recovery(ies) not within acceptance limits due to matrix/co-extractive interference.

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Maxxam Job #: A9A2100
Report Date: 2009/08/19

Jacques Whitford Limited
Client Project #: 1044857-Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

ATLANTIC RBCA HYDROCARBONS (SOIL)

MaxxamID		DI3727			DI3728	DI3728		DI3729		
SamplingDate		2009/08/07			2009/08/07	2009/08/07		2009/08/07		
ReceivedTemperature(°C)		18.5 C			18.5 C	18.5 C		18.5 C		
	Units	**TP23-BS2**	**RDL**	**QC Batch**	**TP25-BS2**	**TP25-BS2 Lab-Dup**	**RDL**	**MW14-SS4**	**RDL**	**QC Batch**
PetroleumHydrocarbons										
Benzene	mg/kg	<0.3	0.3	1905671	<0.03	<0.03	0.03	1.7	0.5	1906997
Toluene	mg/kg	<0.3	0.3	1905671	<0.03	<0.03	0.03	<0.5	0.5	1906997
Ethylbenzene	mg/kg	5.0	0.3	1905671	0.28	0.28	0.03	18	0.5	1906997
Xylene(Total)	mg/kg	28	0.5	1905671	1.1	1.0	0.05	82	1	1906997
C6 - C10 (less BTEX)	mg/kg	1900	30	1905671	920	890	30	2700	50	1906997
>C10-C21Hydrocarbons	mg/kg	12000	15	1905672	4800	5400	15	23000	15	1907001
>C21-<C32Hydrocarbons	mg/kg	210	15	1905672	75	79	15	180	15	1907001
Modified TPH (Tier1)	mg/kg	14000	30	1903462	5800		30	26000	50	1903462
Surrogate Recovery (%)										
Isobutylbenzene - Extractable	%	303(1)		1905672	107	123		267(1)		1907001
Isobutylbenzene-Volatile	%	134(2)		1905671	71	71		142(3)		1906997
n-Dotriacontane-Extractable	%	127(4)		1905672	107(5)	111		112(4)		1907001

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.
(2) - Elevated VPH RDL(s) due to sample dilution.
(3) - Elevated VPH RDL(s) due to sample dilution. VPH surrogate not within acceptance limits due to sample dilution / product interference.
(4) - Weathered fuel oil fraction. Isobutylbenzene/n-Dotriacontane recovery(ies) not within acceptance limits due to matrix/co-extractive interference.
(5) - Weathered fuel oil fraction.

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Maxxam Job #: A9A2100
Report Date: 2009/08/19

Jacques Whitford Limited
Client Project #: 1044857-Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
1904406	Moisture	2009/08/12							1.3	25
1904411	Isobutylbenzene - Volatile	2009/08/16	86	60 - 140	98	60 - 140	101	%		
1904411	Benzene	2009/08/16	83	60 - 140	86	60 - 140	<0.03	mg/kg	NC	50
1904411	Toluene	2009/08/16	121	60 - 140	91	60 - 140	<0.03	mg/kg	NC	50
1904411	Ethylbenzene	2009/08/16	112	60 - 140	85	60 - 140	<0.03	mg/kg	NC	50
1904411	Xylene (Total)	2009/08/16	128	60 - 140	93	60 - 140	<0.05	mg/kg	NC	50
1904411	C6 - C10 (less BTEX)	2009/08/16					<3	mg/kg	NC	50
1904412	Isobutylbenzene - Extractable	2009/08/13	89	30 - 130	96	30 - 130	97	%		
1904412	n-Dotriacontane - Extractable	2009/08/13	119	30 - 130	130	30 - 130	101	%		
1904412	>C10-C21 Hydrocarbons	2009/08/13	103	30 - 130	103	30 - 130	<15	mg/kg	NC	50
1904412	>C21-<C32 Hydrocarbons	2009/08/13	83	30 - 130	87	30 - 130	<15	mg/kg	NC	50
1905668	Moisture	2009/08/13							NC	25
1905671	Isobutylbenzene - Volatile	2009/08/18	86	60 - 140	101	60 - 140	105	%		
1905671	Benzene	2009/08/18	83	60 - 140	116	60 - 140	<0.03	mg/kg	NC	50
1905671	Toluene	2009/08/18	106	60 - 140	120	60 - 140	<0.03	mg/kg	NC	50
1905671	Ethylbenzene	2009/08/18	101	60 - 140	117	60 - 140	<0.03	mg/kg	NC	50
1905671	Xylene (Total)	2009/08/18	112	60 - 140	120	60 - 140	<0.05	mg/kg	NC	50
1905671	C6 - C10 (less BTEX)	2009/08/18					<3	mg/kg	NC	50
1905672	Isobutylbenzene - Extractable	2009/08/14	99	30 - 130	103	30 - 130	105	%		
1905672	n-Dotriacontane - Extractable	2009/08/14	117	30 - 130	120	30 - 130	105	%		
1905672	>C10-C21 Hydrocarbons	2009/08/14	98	30 - 130	96	30 - 130	<15	mg/kg	NC	50
1905672	>C21-<C32 Hydrocarbons	2009/08/14	103	30 - 130	98	30 - 130	<15	mg/kg	NC	50
1906992	Moisture	2009/08/14							2.7	25
1906997	Isobutylbenzene - Volatile	2009/08/18	67	60 - 140	100	60 - 140	102	%		
1906997	Benzene	2009/08/19	83	60 - 140	100	60 - 140	<0.03	mg/kg	NC	50
1906997	Toluene	2009/08/19	107	60 - 140	102	60 - 140	<0.03	mg/kg	NC	50
1906997	Ethylbenzene	2009/08/19	87	60 - 140	96	60 - 140	<0.03	mg/kg	1.8	50
1906997	Xylene (Total)	2009/08/19	98	60 - 140	100	60 - 140	<0.05	mg/kg	0.9	50
1906997	C6 - C10 (less BTEX)	2009/08/19					<3	mg/kg	3.3	50
1907001	Isobutylbenzene - Extractable	2009/08/17	123	30 - 130	94	30 - 130	96	%		
1907001	n-Dotriacontane - Extractable	2009/08/17	110	30 - 130	111	30 - 130	97	%		

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Maxxam Job #: A9A2100
Report Date: 2009/08/19

Jacques Whitford Limited
Client Project #: 1044857-Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
1907001	>C10-C21 Hydrocarbons	2009/08/17	NC	30 - 130	113	30 - 130	<15	mg/kg	13.4	50
1907001	>C21-<C32 Hydrocarbons	2009/08/17	119	30 - 130	107	30 - 130	<15	mg/kg	5.1	50

N/A = Not Applicable
RPD = Relative Percent Difference
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
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.
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

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Validation Signature Page

Maxxam Job #: A9A2100

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

PAULA CHAPLIN, Project Manager

ROSE MACDONALD,

==========

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. SCC and CALA have approved this reporting process and electronic report format.

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Sheet 1 of 3

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CHAIN OF CUSTODY RECORD

23599

INVOICE INFORMATION:	REPORT INFORMATION (if differs from Invoice):		MAXXAM JOB NUMBER:
Company Name:	Company Name: Stantec	PO #:	A9A2100
Contact Name:	Contact Name: Carolyn Anstey-Moore	Project #: 1044857 79100	
Address: JWSL Dartmouth	Address: 607 Torbay Road	Proj. Name: Northwest Point	ENTERED BY, Init:
		Location: " "	
		Quotation#: 08-305 KO	
Email:	Email: Carolyn.Anstey-Moore@Stantec.com	Submitted By: Karl Hartmann	
Ph: Fax:	Ph: 576-1282 Fax:	Site Task #:	Client Code: 10951

Specify Guideline Requirements:

*Specify Matrix: Surface/Salt/Ground/Tapwater/Sewage/Effluent/Seawater Potable/NonPotable/Tissue/Soil/Sludge/Metal

DUE DATE:

STANDARD: X

RUSH Due Date:

For extra cost rush, specify Due Date. Rush analysis must be scheduled prior to sample submission.

Client will be contacted if Rush date cannot be met.

Sample Identification	Matrix*	Date/Time Sampled	# & type of bottles	Field Filtered & Preserved	Lab Filtration Required	RCAp-30 Choose Total or Diss Metals	RCAp-MS Choose Total or Diss Metals	Metals Water: Total Digest (Default Method)	Metals Water: Dissolved	Mercury: Mercury is not included in soil or water metals scan	Metals Soil: Available Metals Digest Default Method (HNO₃/H₂O₂)	Metals Soil: Total Digest - for sediments (HNO₃/HF/HClO₄)	Metals Soil: Tin (required for CCME soils)	Metals Soil: Selenium (low level) Req'd for CCME Residential, Parklands, Agricultural	Metals Soil: Hot Water soluble Boron (required for CCME Agricultural)	TPH MUST (BTEX, C6-C32)	Soil (Potable), TPH MUST, NS Fuel Oil Spill Policy Low Level BTEX & C6-C32	NB Potable Water: BTEX, VPH, Low Level TEH	TPH Fractionation	PAH's	PCB's	VOC's EPA 624,8260	Other Analysis or Comments/Hazards
TP1 BS3	Soil	Aug 7/09	250mL													✓			✓				
TP2 BS2	↓	↓	↓													✓							
TP3 BS2																✓							
TP4 BS2																✓							
TP5 BS2																✓							
TP7 BS2																✓							
TP9 BS2																✓							
TP10 BS2																✓							
09-MW2-SS2																✓							

RELINQUISHED BY: (Signature/Print)	RECEIVED BY: (Signature/Print)	DATE / TIME	PURPOSE OF CHANGE / REMARKS	TEMP @ Maxxam Receipt
[signature]				18.5°C
	Adrienne Penney	2009/08/11 2:00pm		INTEGRITY Init: Yes No

FEEN/FOCOC St John's 05/05

Sheet 2 of 3

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CHAIN OF CUSTODY RECORD

23600

INVOICE INFORMATION:	REPORT INFORMATION (if differs from invoice):		MAXXAM JOB NUMBER:
Company Name:	Company Name:	PO #:	A9A2100
Contact Name:	Contact Name:	Project #: 104857-79100	
Address:	Address:	Proj. Name: North West Pad 1	ENTERED BY, Init:
Email:	Email:	Location:	
Ph: Fax:	Ph: Fax:	Quotation#: 08-305 KO	
		Submitted By: Paul Hartman	
		Site Task #:	Client Code: 10951

Specify Guideline Requirements:

*Specify Matrix: Surface/Salt/Ground/Tapwater/Sewage/Effluent/Seawater Potable/NonPotable/Tissue/Soil/Sludge/Metal

Sample Identification	Matrix*	Date/Time Sampled	# & type of bottles	Field Filtered & Preserved	Lab Filtration Required	RCAp-30 Choose Total or Diss Metals	RCAp-MS Choose Total or Diss Metals	Metals Water: Total Digest (Default Method)	Metals Water: Dissolved	Metals Soil: Mercury is not included in soil or water metals scan	Metals Soil: Mercury	Metals Soil: Available Metals Digest Default Method (HNO_3/H_2O_2)	Metals Soil: Total Digest - for sediments (HNO_3/HF/$HClO_4$)	Metals Soil: Tin (required for CCME soils)	Metals Soil: Selenium (low level Req'd for CCME Residential, Parklands, Agricultural	Metals Soil: Hot Water soluble Boron (required for CCME Agricultural)	TPH MUST (BTEX, C_6-C_{50})	Soil (Potable), TPH MUST, NS Fuel Oil Spill Policy Low Level BTEX & C_6-C_{50}	NB Potable Water BTEX, VPH, Low Level TEH	TPH Fractionation	PAH's	PCB's	VOC's EPA 624,8260	Other Analysis or Comments/Hazards
TP7 - BS1	Soil	Aug 7/09	250mL								✓	✓											
TP8 - BS1											✓	✓											
TP9 - BS1											✓	✓											
TP10 - BS1											✓	✓											
TP11 - BS1																	✓						
TP13 - BS2																	✓						
TP14 - BS2																	✓			✓			
TP14 - BS1	↓	↓	↓								✓	✓											

DUE DATE:

STANDARD: ☒

RUSH Due Date: _____

For extra cost rush, specify Due Date. Rush analysis must be scheduled prior to sample submission.

Client will be contacted if Rush date cannot be met.

RELINQUISHED BY: (Signature/Print)	RECEIVED BY: (Signature/Print)	DATE / TIME	PURPOSE OF CHANGE / REMARKS	TEMP @ Maxxam Receipt
Paul Hartman	Deborah Penney	2009/08/11 2:05pm		18.5C

INTEGRITY Init: Yes No

KEEN/ROGOC St.John's 05/09

Sheet 3 of 3

Maxxam Analytics Inc

49-55 Elizabeth Avenue, Suite 101A, St. John's, NL A1A 1W9 Tel: 709-754-0203 Fax: 709-754-8612 Toll Free: 1-888-492-7227
www.maxxamanalytics.com

CHAIN OF CUSTODY RECORD
23523

INVOICE INFORMATION:
Company Name:
Contact Name:
Address:
Email:
Ph: Fax:

REPORT INFORMATION (if differs from invoice):
Company Name:
Contact Name:
Address:
Email:
Ph: Fax:

PO #:
Project #: 1044857 29100
Proj. Name: North Wye Pilot
Location:
Quotation#: 08-305 KO
Submitted By: Karl Hartmann
Site Task #:

MAXXAM JOB NUMBER: A9A2100

ENTERED BY, Init:

Client Code: 10951

Specify Guideline Requirements:

*Specify Matrix: Surface/Salt/Ground/Tapwater/Sewage/Effluent/Seawater Potable/NonPotable/Tissue/Soil/Sludge/Metal

Sample Identification	Matrix*	Date/Time Sampled	# & type of bottles	Field Filtered & Preserved	Lab Filtration Required	RCAp-30 Choose Total or Diss Metals	RCAp-MS Choose Total or Diss Metals	Metals Water: Total Digest (Default Method)	Metals Water: Dissolved	Mercury: Mercury is not included in soil or water metals scan	Metals Soil: Available Metals Digest Default Method (HNO_3/H_2O_2)	Metals Soil: Total Digest - for sediments ($HNO_3/HF/HClO_4$)	Metals Soil: Tin (required for CCME soils)	Metals Soil: Selenium (low level) Req'd for CCME Residential, Parkland, Agricultural	Metals Soil: Hot Water soluble Boron (required for CCME Agricultural)	TPH MUST (BTEX, C_6-C_{50})	Soil (Potable), TPH MUST, NS Fuel Oil Spill Policy Low Level BTEX & C_6-C_{50}	NB Potable Water BTEX, VPH, Low Level TEH	TPH Fractionation	PAH's	PCB's	VOC's EPA 624,8260	Other Analysis or Comments/Hazards
TP16 - BS2	Soil	Aug 7/09	250 mL													✓						
TP18 - BS2																✓						
TP19 - BS2																✓						
TP21 - BS2																✓						
TP22 - BS2																✓						
TP23 - BS2																✓						
TP25 - BS2																✓						
MW14 - SS4																✓						

DUE DATE:
STANDARD: ☒
RUSH Due Date:
For extra cost rush, specify Due Date. Rush analysis must be scheduled prior to sample submission.
Client will be contacted if Rush date cannot be met.

RELINQUISHED BY: (Signature/Print)	RECEIVED BY: (Signature/Print)	DATE / TIME	PURPOSE OF CHANGE / REMARKS	TEMP @ Maxxam Receipt
Karl Hartmann				18.5°C
	Sabrina Penney	Aug 9/09 2:05pm		INTEGRITY Init: SP Yes No

Your P.O. #: NSD016400
Your Project #: 1044857/Z9100
Site: NORTHWEST POINT
Your C.O.C. #: 23599

Attention: Carolyn Anstey-Moore
Jacques Whitford Limited
607 Torbay Rd
St. John's, NL
A1A 4Y6

Report Date: 2009/08/20

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A9A3478
Received: 2009/08/12, 10:19

Sample Matrix: Soil
Samples Received: 7

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
TEH in Soil (PIRI)	2	2009/08/17	2009/08/18	ATL SOP 00111 R3	Based on Atl. PIRI
Metals Solid Avail. Unified MS - Nper	4	N/A	2009/08/14	ATL SOP 00024 R4	Based on EPA6020A
Metals Solid Avail. Unified MS - Nper	1	N/A	2009/08/17	ATL SOP 00024 R4	Based on EPA6020A
VPH in Soil (PIRI)	2	2009/08/13	2009/08/19	ATL SOP 00117 R4/00119 R6	Based on Atl. PIRI
ModTPH (T1) Calc. for Soil	2	2009/08/13	2009/08/19		Based on Atl. PIRI

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
* Results relate only to the items tested.

Encryption Key

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

MICHELLE HILL, Project Manager
Email: Michelle.Hill.Reports@maxxamanalytics.com
Phone# (902) 420-0203

==========

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. SCC and CALA have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 1

Maxxam Job #: A9A3478
Report Date: 2009/08/20

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		DJ0172	DJ0173	DJ0174	DJ0175		DJ0179		
Sampling Date		2009/08/07	2009/08/07	2009/08/07	2009/08/07		2009/08/07		
	Units	**TP7-BS1**	**TP8-BS1**	**TP9-BS1**	**TP10-BS1**	**QC Batch**	**TP14-BS1**	**RDL**	**QC Batch**
Metals									
Available Aluminum (Al)	mg/kg	5400	4800	4900	4700	1907601	5400	10	1909245
Available Antimony (Sb)	mg/kg	<2	<2	<2	<2	1907601	<2	2	1909245
Available Arsenic (As)	mg/kg	<2	<2	<2	<2	1907601	<2	2	1909245
Available Barium (Ba)	mg/kg	56	49	34	43	1907601	39	5	1909245
Available Beryllium (Be)	mg/kg	<2	<2	<2	<2	1907601	<2	2	1909245
Available Bismuth (Bi)	mg/kg	<2	<2	<2	<2	1907601	<2	2	1909245
Available Boron (B)	mg/kg	<5	<5	<5	<5	1907601	<5	5	1909245
Available Cadmium (Cd)	mg/kg	<0.3	<0.3	<0.3	<0.3	1907601	<0.3	0.3	1909245
Available Chromium (Cr)	mg/kg	14	11	9	9	1907601	10	2	1909245
Available Cobalt (Co)	mg/kg	4	3	3	4	1907601	3	1	1909245
Available Copper (Cu)	mg/kg	11	8	9	9	1907601	12	2	1909245
Available Iron (Fe)	mg/kg	8900	7700	6600	7000	1907601	6300	50	1909245
Available Lead (Pb)	mg/kg	3.6	3.6	5.1	2.9	1907601	25	0.5	1909245
Available Lithium (Li)	mg/kg	5	4	3	4	1907601	3	2	1909245
Available Manganese (Mn)	mg/kg	120	110	89	90	1907601	68	2	1909245
Available Mercury (Hg)	mg/kg	<0.1	<0.1	<0.1	<0.1	1907601	<0.1	0.1	1909245
Available Molybdenum (Mo)	mg/kg	<2	<2	<2	<2	1907601	<2	2	1909245
Available Nickel (Ni)	mg/kg	9	8	5	6	1907601	6	2	1909245
Available Rubidium (Rb)	mg/kg	11	10	7	7	1907601	6	2	1909245
Available Selenium (Se)	mg/kg	<2	<2	<2	<2	1907601	<2	2	1909245
Available Silver (Ag)	mg/kg	<0.5	<0.5	<0.5	<0.5	1907601	<0.5	0.5	1909245
Available Strontium (Sr)	mg/kg	10	9	7	6	1907601	14	5	1909245
Available Thallium (Tl)	mg/kg	<0.1	<0.1	<0.1	<0.1	1907601	<0.1	0.1	1909245
Available Tin (Sn)	mg/kg	<2	<2	<2	<2	1907601	<2	2	1909245
Available Uranium (U)	mg/kg	0.4	0.4	0.3	0.3	1907601	0.3	0.1	1909245
Available Vanadium (V)	mg/kg	21	18	14	17	1907601	15	2	1909245
Available Zinc (Zn)	mg/kg	33	26	86	18	1907601	30	5	1909245

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Analytics International Corporation o/a Maxxam Analytics 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel:902-420-0203 Toll-free:800-565-7227 Fax:902-420-8612 www.maxxamanalytics.com

Maxxam Job #: A9A3478
Report Date: 2009/08/20

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

ATLANTIC RBCA HYDROCARBONS (SOIL)

Maxxam ID		DJ0163		DJ0178		
Sampling Date		2009/08/07		2009/08/07		
	Units	**TP1 BS3**	**RDL**	**TP14-BS2**	**RDL**	**QC Batch**
Petroleum Hydrocarbons						
Benzene	mg/kg	0.16	0.03	<0.03	0.03	1910516
Toluene	mg/kg	0.08	0.03	<0.03	0.03	1910516
Ethylbenzene	mg/kg	2.3	0.03	<0.03	0.03	1910516
Xylene (Total)	mg/kg	5.0	0.05	<0.05	0.05	1910516
C6 - C10 (less BTEX)	mg/kg	1000	30	4	3	1910516
>C10-C21 Hydrocarbons	mg/kg	10000	15	190	15	1909260
>C21-<C32 Hydrocarbons	mg/kg	120	15	22	15	1909260
Modified TPH (Tier1)	mg/kg	11000	30	220	20	1906394
Surrogate Recovery (%)						
Isobutylbenzene - Extractable	%	74		99		1909260
Isobutylbenzene - Volatile	%	62		100		1910516
n-Dotriacontane - Extractable	%	95(1)		99(2)		1909260

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Fuel oil fraction.
(2) - Weathered fuel oil fraction. No resemblance to petroleum products in lube oil range.

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Maxxam Job #: A9A3478
Report Date: 2009/08/20

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
1907601	Available Aluminum (Al)	2009/08/14	NC	75 - 125	114	75 - 125	<10	mg/kg	3.7	35	85	75 - 125
1907601	Available Antimony (Sb)	2009/08/14	77	75 - 125	118	75 - 125	<2	mg/kg	NC	35		
1907601	Available Arsenic (As)	2009/08/14	89	75 - 125	97	75 - 125	<2	mg/kg	NC	35	111	75 - 125
1907601	Available Barium (Ba)	2009/08/14	NC	75 - 125	105	75 - 125	<5	mg/kg	50.6(1)	35	101	75 - 125
1907601	Available Beryllium (Be)	2009/08/14	97	75 - 125	103	75 - 125	<2	mg/kg	NC	35		
1907601	Available Bismuth (Bi)	2009/08/14	103	75 - 125	119	75 - 125	<2	mg/kg	NC	35		
1907601	Available Boron (B)	2009/08/14	86	75 - 125	102	75 - 125	<5	mg/kg	NC	35		
1907601	Available Cadmium (Cd)	2009/08/14	92	75 - 125	98	75 - 125	<0.3	mg/kg	NC	35		
1907601	Available Chromium (Cr)	2009/08/14	103	75 - 125	116	75 - 125	<2	mg/kg	NC	35	87	75 - 125
1907601	Available Cobalt (Co)	2009/08/14	106	75 - 125	110	75 - 125	<1	mg/kg	27.7(1)	35	98	75 - 125
1907601	Available Copper (Cu)	2009/08/14	NC	75 - 125	112	75 - 125	<2	mg/kg	14.2	35	94	75 - 125
1907601	Available Iron (Fe)	2009/08/14	NC	75 - 125	114	75 - 125	<50	mg/kg	9.5	35	90	75 - 125
1907601	Available Lead (Pb)	2009/08/14	NC	75 - 125	113	75 - 125	<0.5	mg/kg	3.7	35	101	75 - 125
1907601	Available Lithium (Li)	2009/08/14	NC	75 - 125	101	75 - 125	<2	mg/kg	5.4	35		
1907601	Available Manganese (Mn)	2009/08/14	NC	75 - 125	106	75 - 125	<2	mg/kg	1.6	35	97	75 - 125
1907601	Available Mercury (Hg)	2009/08/14	92	75 - 125	104	75 - 125	<0.1	mg/kg	NC	35		
1907601	Available Molybdenum (Mo)	2009/08/14	93	75 - 125	105	75 - 125	<2	mg/kg	NC	35		
1907601	Available Nickel (Ni)	2009/08/14	102	75 - 125	113	75 - 125	<2	mg/kg	NC	35	103	75 - 125
1907601	Available Rubidium (Rb)	2009/08/14	83	75 - 125	102	75 - 125	<2	mg/kg	NC	35		
1907601	Available Selenium (Se)	2009/08/14	85	75 - 125	98	75 - 125	<2	mg/kg	NC	35		
1907601	Available Silver (Ag)	2009/08/14	94	75 - 125	105	75 - 125	<0.5	mg/kg	NC	35		
1907601	Available Strontium (Sr)	2009/08/14	NC	75 - 125	107	75 - 125	<5	mg/kg	NC	35	87	75 - 125
1907601	Available Thallium (Tl)	2009/08/14	97	75 - 125	110	75 - 125	<0.1	mg/kg	NC	35		
1907601	Available Tin (Sn)	2009/08/14	91	75 - 125	100	75 - 125	<2	mg/kg	NC	35		
1907601	Available Uranium (U)	2009/08/14	100	75 - 125	111	75 - 125	<0.1	mg/kg	NC	35		
1907601	Available Vanadium (V)	2009/08/14	NC	75 - 125	115	75 - 125	<2	mg/kg	7.7	35	103	75 - 125
1907601	Available Zinc (Zn)	2009/08/14	91	75 - 125	98	75 - 125	<5	mg/kg	11.7	35	100	75 - 125
1909245	Available Aluminum (Al)	2009/08/17	NC	75 - 125	100	75 - 125	<10	mg/kg			87	75 - 125
1909245	Available Antimony (Sb)	2009/08/17	86	75 - 125	107	75 - 125	<2	mg/kg				
1909245	Available Arsenic (As)	2009/08/17	88	75 - 125	88	75 - 125	<2	mg/kg			108	75 - 125
1909245	Available Barium (Ba)	2009/08/17	90	75 - 125	97	75 - 125	<5	mg/kg			103	75 - 125
1909245	Available Beryllium (Be)	2009/08/17	94	75 - 125	102	75 - 125	<2	mg/kg				
1909245	Available Bismuth (Bi)	2009/08/17	106	75 - 125	109	75 - 125	<2	mg/kg				
1909245	Available Boron (B)	2009/08/17	83	75 - 125	98	75 - 125	<5	mg/kg				
1909245	Available Cadmium (Cd)	2009/08/17	91	75 - 125	91	75 - 125	<0.3	mg/kg				
1909245	Available Chromium (Cr)	2009/08/17	96	75 - 125	104	75 - 125	<2	mg/kg			84	75 - 125
1909245	Available Cobalt (Co)	2009/08/17	98	75 - 125	99	75 - 125	<1	mg/kg			97	75 - 125
1909245	Available Copper (Cu)	2009/08/17	96	75 - 125	103	75 - 125	<2	mg/kg			94	75 - 125
1909245	Available Iron (Fe)	2009/08/17	NC	75 - 125	100	75 - 125	<50	mg/kg			92	75 - 125

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Maxxam Job #: A9A3478
Report Date: 2009/08/20

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
1909245	Available Lead (Pb)	2009/08/17	93	75 - 125	105	75 - 125	<0.5	mg/kg	1.4	35	105	75 - 125
1909245	Available Lithium (Li)	2009/08/17	90	75 - 125	95	75 - 125	<2	mg/kg				
1909245	Available Manganese (Mn)	2009/08/17	NC	75 - 125	98	75 - 125	<2	mg/kg			102	75 - 125
1909245	Available Mercury (Hg)	2009/08/17	108	75 - 125	112	75 - 125	<0.1	mg/kg				
1909245	Available Molybdenum (Mo)	2009/08/17	90	75 - 125	96	75 - 125	<2	mg/kg				
1909245	Available Nickel (Ni)	2009/08/17	97	75 - 125	99	75 - 125	<2	mg/kg			98	75 - 125
1909245	Available Rubidium (Rb)	2009/08/17	83	75 - 125	94	75 - 125	<2	mg/kg				
1909245	Available Selenium (Se)	2009/08/17	91	75 - 125	91	75 - 125	<2	mg/kg				
1909245	Available Silver (Ag)	2009/08/17	100	75 - 125	104	75 - 125	<0.5	mg/kg				
1909245	Available Strontium (Sr)	2009/08/17	96	75 - 125	99	75 - 125	<5	mg/kg			89	75 - 125
1909245	Available Thallium (Tl)	2009/08/17	101	75 - 125	101	75 - 125	<0.1	mg/kg				
1909245	Available Tin (Sn)	2009/08/17	93	75 - 125	89	75 - 125	<2	mg/kg				
1909245	Available Uranium (U)	2009/08/17	105	75 - 125	103	75 - 125	<0.1	mg/kg				
1909245	Available Vanadium (V)	2009/08/17	NC	75 - 125	106	75 - 125	<2	mg/kg			105	75 - 125
1909245	Available Zinc (Zn)	2009/08/17	86	75 - 125	88	75 - 125	<5	mg/kg			95	75 - 125
1909260	Isobutylbenzene - Extractable	2009/08/18	102	30 - 130	105	30 - 130	97	%				
1909260	n-Dotriacontane - Extractable	2009/08/18	94	30 - 130	107	30 - 130	93	%				
1909260	>C10-C21 Hydrocarbons	2009/08/18	83	30 - 130	88	30 - 130	<15	mg/kg	NC	50		
1909260	>C21-<C32 Hydrocarbons	2009/08/18	84	30 - 130	93	30 - 130	<15	mg/kg	NC	50		
1910516	Isobutylbenzene - Volatile	2009/08/18	88	60 - 140	98	60 - 140	100	%				
1910516	Benzene	2009/08/18	92	60 - 140	105	60 - 140	<0.03	mg/kg	NC	50		
1910516	Toluene	2009/08/18	115	60 - 140	109	60 - 140	<0.03	mg/kg	NC	50		
1910516	Ethylbenzene	2009/08/18	107	60 - 140	106	60 - 140	<0.03	mg/kg	NC	50		
1910516	Xylene (Total)	2009/08/18	116	60 - 140	107	60 - 140	<0.05	mg/kg	NC	50		
1910516	C6 - C10 (less BTEX)	2009/08/18					<3	mg/kg	NC	50		

N/A = Not Applicable
RPD = Relative Percent Difference
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
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.
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.
(1) - Poor duplicate agreement due to sample inhomogeneity.

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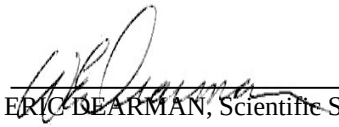
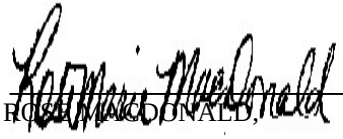
Validation Signature Page

Maxxam Job #: A9A3478

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



ERIC DEARMAN, Scientific Specialist



ROSE MACDONALD, B.Sc.

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Maxxam Analytics International Corporation o/a Maxxam Analytics 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel:902-420-0203 Toll-free:800-565-7227 Fax:902-420-8612 www.maxxamanalytics.com

Your P.O. #: NSD016400
Your Project #: 1044857/Z9100
Site: NORTHWEST POINT
Your C.O.C. #: 23599

Attention: Carolyn Anstey-Moore
Jacques Whitford Limited
607 Torbay Rd
St. John's, NL
A1A 4Y6

Report Date: 2009/08/26

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A9A3478
Received: 2009/08/12, 10:19

Sample Matrix: Soil
Samples Received: 9

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
TEH in Soil (AA PIRI)	2	2009/08/13	2009/08/25	ATL SOP 00116 R3	Based on Atl. PIRI
TEH in Soil (PIRI)	2	2009/08/17	2009/08/18	ATL SOP 00111 R3	Based on Atl. PIRI
Metals Solid Avail. Unified MS - Nper	4	N/A	2009/08/14	ATL SOP 00024 R4	Based on EPA6020A
Metals Solid Avail. Unified MS - Nper	1	N/A	2009/08/17	ATL SOP 00024 R4	Based on EPA6020A
Moisture	2	N/A	2009/08/13	ATL SOP 00001 R3	MOE Handbook 1983
Moisture	2	N/A	2009/08/18	ATL SOP 00001 R3	MOE Handbook 1983
VPH in Soil (PIRI2)	2	2009/08/13	2009/08/19	ATL SOP 00120 R4	Based on Atl. PIRI
VPH in Soil (PIRI)	2	2009/08/13	2009/08/19	ATL SOP 00117 R4/00119 R6	Based on Atl. PIRI
ModTPH (T1) Calc. for Soil	2	2009/08/13	2009/08/19		Based on Atl. PIRI
ModTPH (T2) Calc. for Soil	2	N/A	2009/08/26	n/a	Based on Atl. PIRI

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
* Results relate only to the items tested.

Encryption Key

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

MICHELLE HILL, Project Manager
Email: Michelle.Hill.Reports@maxxamanalytics.com
Phone# (902) 420-0203

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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. SCC and CALA have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 1

This document is in electronic format, hard copy is available on request.

Maxxam Job #: A9A3478
Report Date: 2009/08/26

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

RESULTS OF ANALYSES OF SOIL

Maxxam ID		DJ0163	DJ0178		DJ0253	DJ0254		
Sampling Date		2009/08/07	2009/08/07		2009/08/07	2009/08/07		
	Units	**TP1 BS3**	**TP14-BS2**	**QC Batch**	**TP1 BS3**	**TP14 BS2**	**RDL**	**QC Batch**
Inorganics								
Moisture	%	19	13	1910162	19	13	1	1906490

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: A9A3478
Report Date: 2009/08/26

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		DJ0172	DJ0173	DJ0174	DJ0175		DJ0179		
Sampling Date		2009/08/07	2009/08/07	2009/08/07	2009/08/07		2009/08/07		
	Units	**TP7-BS1**	**TP8-BS1**	**TP9-BS1**	**TP10-BS1**	**QC Batch**	**TP14-BS1**	**RDL**	**QC Batch**
Metals									
Available Aluminum (Al)	mg/kg	5400	4800	4900	4700	1907601	5400	10	1909245
Available Antimony (Sb)	mg/kg	<2	<2	<2	<2	1907601	<2	2	1909245
Available Arsenic (As)	mg/kg	<2	<2	<2	<2	1907601	<2	2	1909245
Available Barium (Ba)	mg/kg	56	49	34	43	1907601	39	5	1909245
Available Beryllium (Be)	mg/kg	<2	<2	<2	<2	1907601	<2	2	1909245
Available Bismuth (Bi)	mg/kg	<2	<2	<2	<2	1907601	<2	2	1909245
Available Boron (B)	mg/kg	<5	<5	<5	<5	1907601	<5	5	1909245
Available Cadmium (Cd)	mg/kg	<0.3	<0.3	<0.3	<0.3	1907601	<0.3	0.3	1909245
Available Chromium (Cr)	mg/kg	14	11	9	9	1907601	10	2	1909245
Available Cobalt (Co)	mg/kg	4	3	3	4	1907601	3	1	1909245
Available Copper (Cu)	mg/kg	11	8	9	9	1907601	12	2	1909245
Available Iron (Fe)	mg/kg	8900	7700	6600	7000	1907601	6300	50	1909245
Available Lead (Pb)	mg/kg	3.6	3.6	5.1	2.9	1907601	25	0.5	1909245
Available Lithium (Li)	mg/kg	5	4	3	4	1907601	3	2	1909245
Available Manganese (Mn)	mg/kg	120	110	89	90	1907601	68	2	1909245
Available Mercury (Hg)	mg/kg	<0.1	<0.1	<0.1	<0.1	1907601	<0.1	0.1	1909245
Available Molybdenum (Mo)	mg/kg	<2	<2	<2	<2	1907601	<2	2	1909245
Available Nickel (Ni)	mg/kg	9	8	5	6	1907601	6	2	1909245
Available Rubidium (Rb)	mg/kg	11	10	7	7	1907601	6	2	1909245
Available Selenium (Se)	mg/kg	<2	<2	<2	<2	1907601	<2	2	1909245
Available Silver (Ag)	mg/kg	<0.5	<0.5	<0.5	<0.5	1907601	<0.5	0.5	1909245
Available Strontium (Sr)	mg/kg	10	9	7	6	1907601	14	5	1909245
Available Thallium (Tl)	mg/kg	<0.1	<0.1	<0.1	<0.1	1907601	<0.1	0.1	1909245
Available Tin (Sn)	mg/kg	<2	<2	<2	<2	1907601	<2	2	1909245
Available Uranium (U)	mg/kg	0.4	0.4	0.3	0.3	1907601	0.3	0.1	1909245
Available Vanadium (V)	mg/kg	21	18	14	17	1907601	15	2	1909245
Available Zinc (Zn)	mg/kg	33	26	86	18	1907601	30	5	1909245

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: A9A3478
Report Date: 2009/08/26

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

ATLANTIC RBCA HYDROCARBONS (SOIL)

Maxxam ID		DJ0163		DJ0178		DJ0253		DJ0254		
Sampling Date		2009/08/07		2009/08/07		2009/08/07		2009/08/07		
	Units	**TP1 BS3**	**RDL**	**TP14-BS2**	**QC Batch**	**TP1 BS3**	**RDL**	**TP14 BS2**	**RDL**	**QC Batch**
Petroleum Hydrocarbons										
Benzene	mg/kg	0.16	0.03	<0.03	1910516	0.15	0.03	<0.03	0.03	1916471
Toluene	mg/kg	0.08	0.03	<0.03	1910516	0.08	0.03	<0.03	0.03	1916471
Ethylbenzene	mg/kg	2.3	0.03	<0.03	1910516	2.5	0.03	<0.03	0.03	1916471
Xylene (Total)	mg/kg	5.0	0.05	<0.05	1910516	5.0	0.05	<0.05	0.05	1916471
Aliphatic >C6-C8	mg/kg					130(1)	3	0.6(1)	0.3	1916471
Aliphatic >C8-C10	mg/kg					970(1)	6	5.6(1)	0.6	1916471
C6 - C10 (less BTEX)	mg/kg	1000	30	4	1910516		3			
>C8-C10 Aromatics (-EX)	mg/kg					32	1	<0.1	0.1	1916471
>C10-C21 Hydrocarbons	mg/kg	10000	15	190	1909260		15			
Aliphatic >C10-C12	mg/kg					1600	8.0	59	8.0	1913342
>C21-<C32 Hydrocarbons	mg/kg	120	15	22	1909260		15			
Aliphatic >C12-C16	mg/kg					4700	15	190	15	1913342
Modified TPH (Tier1)	mg/kg	11000	30	220	1906394		20			
Aliphatic >C16-C21	mg/kg					1500	15	23	15	1913342
Aliphatic >C21-<C32	mg/kg					73	15	<15	15	1913342
Aromatic >C10-C12	mg/kg					460	4.0	20	4.0	1913342
Aromatic >C12-C16	mg/kg					1600	15	53	15	1913342
Aromatic >C16-C21	mg/kg					680	15	<15	15	1913342
Aromatic >C21-<C32	mg/kg					60	15	<15	15	1913342
Modified TPH (Tier 2)	mg/kg					12000	20	350	20	1906396
Surrogate Recovery (%)										
Isobutylbenzene - Extractable	%	74		99	1909260	108		88		1913342
Isobutylbenzene - Volatile	%	62		100	1910516	62		99		1916471
n-Dotriacontane - Extractable	%	95(2)		99(3)	1909260	91(2)		83(2)		1913342

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Elevated VPH RDL(s) due to detected levels in the method blank.
(2) - Fuel oil fraction.
(3) - Weathered fuel oil fraction. No resemblance to petroleum products in lube oil range.

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Maxxam Job #: A9A3478
Report Date: 2009/08/26

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
1907601	Available Aluminum (Al)	2009/08/14	NC	75 - 125	114	75 - 125	<10	mg/kg	3.7	35	85	75 - 125
1907601	Available Antimony (Sb)	2009/08/14	77	75 - 125	118	75 - 125	<2	mg/kg	NC	35		
1907601	Available Arsenic (As)	2009/08/14	89	75 - 125	97	75 - 125	<2	mg/kg	NC	35	111	75 - 125
1907601	Available Barium (Ba)	2009/08/14	NC	75 - 125	105	75 - 125	<5	mg/kg	50.6(1)	35	101	75 - 125
1907601	Available Beryllium (Be)	2009/08/14	97	75 - 125	103	75 - 125	<2	mg/kg	NC	35		
1907601	Available Bismuth (Bi)	2009/08/14	103	75 - 125	119	75 - 125	<2	mg/kg	NC	35		
1907601	Available Boron (B)	2009/08/14	86	75 - 125	102	75 - 125	<5	mg/kg	NC	35		
1907601	Available Cadmium (Cd)	2009/08/14	92	75 - 125	98	75 - 125	<0.3	mg/kg	NC	35		
1907601	Available Chromium (Cr)	2009/08/14	103	75 - 125	116	75 - 125	<2	mg/kg	NC	35	87	75 - 125
1907601	Available Cobalt (Co)	2009/08/14	106	75 - 125	110	75 - 125	<1	mg/kg	27.7(1)	35	98	75 - 125
1907601	Available Copper (Cu)	2009/08/14	NC	75 - 125	112	75 - 125	<2	mg/kg	14.2	35	94	75 - 125
1907601	Available Iron (Fe)	2009/08/14	NC	75 - 125	114	75 - 125	<50	mg/kg	9.5	35	90	75 - 125
1907601	Available Lead (Pb)	2009/08/14	NC	75 - 125	113	75 - 125	<0.5	mg/kg	3.7	35	101	75 - 125
1907601	Available Lithium (Li)	2009/08/14	NC	75 - 125	101	75 - 125	<2	mg/kg	5.4	35		
1907601	Available Manganese (Mn)	2009/08/14	NC	75 - 125	106	75 - 125	<2	mg/kg	1.6	35	97	75 - 125
1907601	Available Mercury (Hg)	2009/08/14	92	75 - 125	104	75 - 125	<0.1	mg/kg	NC	35		
1907601	Available Molybdenum (Mo)	2009/08/14	93	75 - 125	105	75 - 125	<2	mg/kg	NC	35		
1907601	Available Nickel (Ni)	2009/08/14	102	75 - 125	113	75 - 125	<2	mg/kg	NC	35	103	75 - 125
1907601	Available Rubidium (Rb)	2009/08/14	83	75 - 125	102	75 - 125	<2	mg/kg	NC	35		
1907601	Available Selenium (Se)	2009/08/14	85	75 - 125	98	75 - 125	<2	mg/kg	NC	35		
1907601	Available Silver (Ag)	2009/08/14	94	75 - 125	105	75 - 125	<0.5	mg/kg	NC	35		
1907601	Available Strontium (Sr)	2009/08/14	NC	75 - 125	107	75 - 125	<5	mg/kg	NC	35	87	75 - 125
1907601	Available Thallium (Tl)	2009/08/14	97	75 - 125	110	75 - 125	<0.1	mg/kg	NC	35		
1907601	Available Tin (Sn)	2009/08/14	91	75 - 125	100	75 - 125	<2	mg/kg	NC	35		
1907601	Available Uranium (U)	2009/08/14	100	75 - 125	111	75 - 125	<0.1	mg/kg	NC	35		
1907601	Available Vanadium (V)	2009/08/14	NC	75 - 125	115	75 - 125	<2	mg/kg	7.7	35	103	75 - 125
1907601	Available Zinc (Zn)	2009/08/14	91	75 - 125	98	75 - 125	<5	mg/kg	11.7	35	100	75 - 125
1909245	Available Aluminum (Al)	2009/08/17	NC	75 - 125	100	75 - 125	<10	mg/kg			87	75 - 125
1909245	Available Antimony (Sb)	2009/08/17	86	75 - 125	107	75 - 125	<2	mg/kg				
1909245	Available Arsenic (As)	2009/08/17	88	75 - 125	88	75 - 125	<2	mg/kg			108	75 - 125
1909245	Available Barium (Ba)	2009/08/17	90	75 - 125	97	75 - 125	<5	mg/kg			103	75 - 125
1909245	Available Beryllium (Be)	2009/08/17	94	75 - 125	102	75 - 125	<2	mg/kg				
1909245	Available Bismuth (Bi)	2009/08/17	106	75 - 125	109	75 - 125	<2	mg/kg				
1909245	Available Boron (B)	2009/08/17	83	75 - 125	98	75 - 125	<5	mg/kg				
1909245	Available Cadmium (Cd)	2009/08/17	91	75 - 125	91	75 - 125	<0.3	mg/kg				
1909245	Available Chromium (Cr)	2009/08/17	96	75 - 125	104	75 - 125	<2	mg/kg			84	75 - 125
1909245	Available Cobalt (Co)	2009/08/17	98	75 - 125	99	75 - 125	<1	mg/kg			97	75 - 125
1909245	Available Copper (Cu)	2009/08/17	96	75 - 125	103	75 - 125	<2	mg/kg			94	75 - 125
1909245	Available Iron (Fe)	2009/08/17	NC	75 - 125	100	75 - 125	<50	mg/kg			92	75 - 125

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Maxxam Job #: A9A3478
Report Date: 2009/08/26

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
1909245	Available Lead (Pb)	2009/08/17	93	75 - 125	105	75 - 125	<0.5	mg/kg	1.4	35	105	75 - 125
1909245	Available Lithium (Li)	2009/08/17	90	75 - 125	95	75 - 125	<2	mg/kg				
1909245	Available Manganese (Mn)	2009/08/17	NC	75 - 125	98	75 - 125	<2	mg/kg			102	75 - 125
1909245	Available Mercury (Hg)	2009/08/17	108	75 - 125	112	75 - 125	<0.1	mg/kg				
1909245	Available Molybdenum (Mo)	2009/08/17	90	75 - 125	96	75 - 125	<2	mg/kg				
1909245	Available Nickel (Ni)	2009/08/17	97	75 - 125	99	75 - 125	<2	mg/kg			98	75 - 125
1909245	Available Rubidium (Rb)	2009/08/17	83	75 - 125	94	75 - 125	<2	mg/kg				
1909245	Available Selenium (Se)	2009/08/17	91	75 - 125	91	75 - 125	<2	mg/kg				
1909245	Available Silver (Ag)	2009/08/17	100	75 - 125	104	75 - 125	<0.5	mg/kg				
1909245	Available Strontium (Sr)	2009/08/17	96	75 - 125	99	75 - 125	<5	mg/kg			89	75 - 125
1909245	Available Thallium (Tl)	2009/08/17	101	75 - 125	101	75 - 125	<0.1	mg/kg				
1909245	Available Tin (Sn)	2009/08/17	93	75 - 125	89	75 - 125	<2	mg/kg				
1909245	Available Uranium (U)	2009/08/17	105	75 - 125	103	75 - 125	<0.1	mg/kg				
1909245	Available Vanadium (V)	2009/08/17	NC	75 - 125	106	75 - 125	<2	mg/kg			105	75 - 125
1909245	Available Zinc (Zn)	2009/08/17	86	75 - 125	88	75 - 125	<5	mg/kg			95	75 - 125
1909260	Isobutylbenzene - Extractable	2009/08/18	102	30 - 130	105	30 - 130	97	%				
1909260	n-Dotriacontane - Extractable	2009/08/18	94	30 - 130	107	30 - 130	93	%				
1909260	>C10-C21 Hydrocarbons	2009/08/18	83	30 - 130	88	30 - 130	<15	mg/kg	NC	50		
1909260	>C21-<C32 Hydrocarbons	2009/08/18	84	30 - 130	93	30 - 130	<15	mg/kg	NC	50		
1910516	Isobutylbenzene - Volatile	2009/08/18	88	60 - 140	98	60 - 140	100	%				
1910516	Benzene	2009/08/18	92	60 - 140	105	60 - 140	<0.03	mg/kg	NC	50		
1910516	Toluene	2009/08/18	115	60 - 140	109	60 - 140	<0.03	mg/kg	NC	50		
1910516	Ethylbenzene	2009/08/18	107	60 - 140	106	60 - 140	<0.03	mg/kg	NC	50		
1910516	Xylene (Total)	2009/08/18	116	60 - 140	107	60 - 140	<0.05	mg/kg	NC	50		
1910516	C6 - C10 (less BTEX)	2009/08/18					<3	mg/kg	NC	50		
1913342	Aliphatic >C10-C12	2009/08/25			78	30 - 130	<8.0	mg/kg	36.2	50		
1913342	Aliphatic >C12-C16	2009/08/25			80	30 - 130	<15	mg/kg	33.0	50		
1913342	Aliphatic >C16-C21	2009/08/25			86	30 - 130	<15	mg/kg	33.9	50		
1913342	Aliphatic >C21-<C32	2009/08/25			88	30 - 130	<15	mg/kg	33.5	50		
1913342	Aromatic >C10-C12	2009/08/25			107	30 - 130	<4.0	mg/kg	7.5	50		
1913342	Aromatic >C12-C16	2009/08/25			100	30 - 130	<15	mg/kg	10	50		
1913342	Aromatic >C16-C21	2009/08/25			99	30 - 130	<15	mg/kg	10	50		
1913342	Aromatic >C21-<C32	2009/08/25			96	30 - 130	<15	mg/kg	7.0	50		
1913342	Isobutylbenzene - Extractable	2009/08/25					98	%				
1913342	n-Dotriacontane - Extractable	2009/08/25					88	%				
1916471	Isobutylbenzene - Volatile	2009/08/18			98	60 - 140	100	%				
1916471	Benzene	2009/08/18			105	60 - 140	<0.03	mg/kg				
1916471	Toluene	2009/08/18			109	60 - 140	<0.03	mg/kg				
1916471	Ethylbenzene	2009/08/18			106	60 - 140	<0.03	mg/kg				

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Maxxam Job #: A9A3478
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Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
1916471	Xylene (Total)	2009/08/18			107	60 - 140	<0.05	mg/kg				
1916471	Aliphatic >C6-C8	2009/08/18					<0.3(2)	mg/kg				
1916471	Aliphatic >C8-C10	2009/08/18					<0.6(2)	mg/kg				
1916471	>C8-C10 Aromatics (-EX)	2009/08/18					<0.1	mg/kg				

N/A = Not Applicable
RPD = Relative Percent Difference
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
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.
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.
(1) - Poor duplicate agreement due to sample inhomogeneity.
(2) - Elevated VPH RDL(s) due to detected levels in the method blank.

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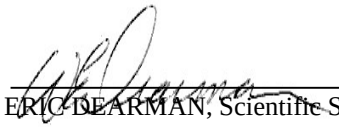
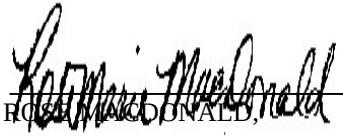
Validation Signature Page

Maxxam Job #: A9A3478

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



ERIC DEARMAN, Scientific Specialist



ROSE MACDONALD, B.Sc.

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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. SCC and CALA have approved this reporting process and electronic report format.

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Your P.O. #: NSD016400
Your Project #: 1044857/Z9100
Site: NORTHWEST POINT
Your C.O.C. #: 23477

Attention: JIM SLADE
Jacques Whitford Limited
607 Torbay Rd
St. John's, NL
A1A 4Y6

Report Date: 2009/08/24

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A9A4979
Received: 2009/08/15, 9:46

Sample Matrix: Soil
Samples Received: 53

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
TEH in Soil (PIRI)	3	2009/08/15	2009/08/17	ATL SOP 00111 R3	Based on Atl. PIRI
TEH in Soil (PIRI)	26	2009/08/19	2009/08/19	ATL SOP 00111 R3	Based on Atl. PIRI
TEH in Soil (PIRI)	17	2009/08/19	2009/08/20	ATL SOP 00111 R3	Based on Atl. PIRI
Metals Solid Avail. Unified MS - Nper	9	N/A	2009/08/19	ATL SOP 00024 R4	Based on EPA6020A
Moisture	47	N/A	2009/08/17	ATL SOP 00001 R3	MOE Handbook 1983
PCBs in soil by GC/ECD	5	2009/08/19	2009/08/20	ATL SOP 00106 R3	Based on EPA8082
VPH in Soil (PIRI)	45	2009/08/15	2009/08/21	ATL SOP 00117 R4/00119 R6	Based on Atl. PIRI
VPH in Soil (PIRI)	1	2009/08/15	2009/08/24	ATL SOP 00117 R4/00119 R6	Based on Atl. PIRI
ModTPH (T1) Calc. for Soil	1	2009/08/15	2009/08/21		Based on Atl. PIRI
ModTPH (T1) Calc. for Soil	45	2009/08/15	2009/08/24		Based on Atl. PIRI

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
* Results relate only to the items tested.

Encryption Key

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

MICHELLE HILL, Project Manager
Email: Michelle.Hill.Reports@maxxamanalytics.com
Phone# (902) 420-0203

==========

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For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 1

This document is in electronic format, hard copy is available on request.

Maxxam Job #: A9A4979
Report Date: 2009/08/24

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

RESULTS OF ANALYSES OF SOIL

Maxxam ID		DJ7638	DJ7639	DJ7640	DJ7642	DJ7643	DJ7644	DJ7646	DJ7647		
Sampling Date		2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08		
	Units	**09-MW5-SS3**	**09-MW6-SS4**	**09-MW4-SS4**	**09-MW8-SS3**	**09-MW9-SS4**	**09-MW7-SS3**	**09-MW10-SS4**	**09-MW10-SS1**	**RDL**	**QC Batch**
Inorganics											
Moisture	%	21	17	21	19	11	14	14	11	1	1909268

Maxxam ID		DJ7648	DJ7649	DJ7651	DJ7652	DJ7653	DJ7654	DJ7655	DJ7656		
Sampling Date		2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08		
	Units	**09-MW12-SS3**	**09-MW11-SS3**	**09-MW20-SS2**	**09-MW19-SS3**	**09-TP32-BS2**	**09-TP33-BS2**	**09-TP35-BS2**	**09-TP34-BS2**	**RDL**	**QC Batch**
Inorganics											
Moisture	%	13	10	18	23	12	13	18	23	1	1909268

Maxxam ID		DJ7657	DJ7658	DJ7659	DJ7660	DJ7661	DJ7662	DJ7663	DJ7664		
Sampling Date		2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08		
	Units	**09-MW16-SS3**	**09-TP30-BS2**	**09-TP26-BS2**	**09-TP27-BS2**	**09-TP28-BS2**	**09-TP29-BS2**	**09-TP40-BS2**	**09-TP39-BS2**	**RDL**	**QC Batch**
Inorganics											
Moisture	%	17	21	25	20	18	9	20	28	1	1909268

Maxxam ID		DJ7665	DJ7666	DJ7667	DJ7668	DJ7670	DJ7671	DJ7672	DJ7673		
Sampling Date		2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08		
	Units	**09-TP41-BS2**	**09-TP45-BS2**	**09-TP46-BS2**	**09-TP48-BS2**	**09-TP70-BS2**	**09-MW32-SS2**	**09-MW30-SS3**	**09-TP68-BS2**	**RDL**	**QC Batch**
Inorganics											
Moisture	%	18	11	14	13	8	20	19	20	1	1909268

Maxxam ID		DJ7674	DJ7675		DJ7676	DJ7677	DJ7678	DJ7681	DJ7682		
Sampling Date		2009/08/08	2009/08/08		2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08		
	Units	**09-TP43-BS2**	**09-TP42-BS2**	**QC Batch**	**09-TP65-BS2**	**09-TP64-BS2**	**09-TP66-BS2**	**09-TP51-BS2**	**09-TP52-BS2**	**RDL**	**QC Batch**
Inorganics											
Moisture	%	31	24	1909268	24	16	17	19	12	1	1909706

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: A9A4979
Report Date: 2009/08/24

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

RESULTS OF ANALYSES OF SOIL

Maxxam ID		DJ7683	DJ7684	DJ7685	DJ7686	DJ7687	DJ7688	DJ7689	DJ7690		
Sampling Date		2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08		
	Units	**09-TP53-BS2**	**09-TP54-BS2**	**09-TP55-BS2**	**09-TP56-BS2**	**09-TP57-BS2**	**09-TP58-BS2**	**09-TP59-BS2**	**09-TP60-BS2**	**RDL**	**QC Batch**
Inorganics											
Moisture	%	17	13	13	9	9	9	12	7	1	1909706

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: A9A4979
Report Date: 2009/08/24

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		DJ7641	DJ7645	DJ7647	DJ7650	DJ7651		
Sampling Date		2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08		
	Units	**09-MW4-SS1**	**09-MW7-SS1**	**09-MW10-SS1**	**09-MW11-SS1**	**09-MW20-SS2**	**RDL**	**QC Batch**
Metals								
Available Aluminum (Al)	mg/kg	5200	5800	4500	4000	1600	10	1911815
Available Antimony (Sb)	mg/kg	<2	<2	<2	<2	<2	2	1911815
Available Arsenic (As)	mg/kg	<2	<2	<2	<2	<2	2	1911815
Available Barium (Ba)	mg/kg	52	65	47	45	9	5	1911815
Available Beryllium (Be)	mg/kg	<2	<2	<2	<2	<2	2	1911815
Available Bismuth (Bi)	mg/kg	<2	<2	<2	<2	<2	2	1911815
Available Boron (B)	mg/kg	<5	<5	<5	<5	<5	5	1911815
Available Cadmium (Cd)	mg/kg	<0.3	<0.3	<0.3	0.5	<0.3	0.3	1911815
Available Chromium (Cr)	mg/kg	12	14	13	11	4	2	1911815
Available Cobalt (Co)	mg/kg	4	4	3	3	<1	1	1911815
Available Copper (Cu)	mg/kg	12	11	9	39	<2	2	1911815
Available Iron (Fe)	mg/kg	8300	9400	7800	6900	2100	50	1911815
Available Lead (Pb)	mg/kg	6.5	9.5	17	46	0.6	0.5	1911815
Available Lithium (Li)	mg/kg	5	6	4	4	<2	2	1911815
Available Manganese (Mn)	mg/kg	100	140	110	130	23	2	1911815
Available Mercury (Hg)	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1	0.1	1911815
Available Molybdenum (Mo)	mg/kg	<2	<2	<2	<2	<2	2	1911815
Available Nickel (Ni)	mg/kg	7	9	6	7	<2	2	1911815
Available Rubidium (Rb)	mg/kg	10	13	9	11	<2	2	1911815
Available Selenium (Se)	mg/kg	<2	<2	<2	<2	<2	2	1911815
Available Silver (Ag)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	1911815
Available Strontium (Sr)	mg/kg	10	14	17	49	<5	5	1911815
Available Thallium (Tl)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1911815
Available Tin (Sn)	mg/kg	<2	<2	<2	<2	<2	2	1911815
Available Uranium (U)	mg/kg	0.4	0.4	0.3	0.2	<0.1	0.1	1911815
Available Vanadium (V)	mg/kg	20	22	17	15	6	2	1911815
Available Zinc (Zn)	mg/kg	38	34	37	98	6	5	1911815

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		DJ7669	DJ7669	DJ7672	DJ7679	DJ7680		
Sampling Date		2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08		
	Units	**09-TP49-BS2**	**09-TP49-BS2 Lab-Dup**	**09-MW30-SS3**	**09-TP66-BS1**	**09-TP63-BS1**	**RDL**	**QC Batch**
Metals								
Available Aluminum (Al)	mg/kg	2700	2300	2900	2900	2100	10	1911815
Available Antimony (Sb)	mg/kg	<2	<2	<2	<2	<2	2	1911815
Available Arsenic (As)	mg/kg	<2	<2	<2	<2	<2	2	1911815
Available Barium (Ba)	mg/kg	30	24	20	15	15	5	1911815
Available Beryllium (Be)	mg/kg	<2	<2	<2	<2	<2	2	1911815
Available Bismuth (Bi)	mg/kg	<2	<2	<2	<2	<2	2	1911815
Available Boron (B)	mg/kg	<5	<5	<5	8	<5	5	1911815
Available Cadmium (Cd)	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3	0.3	1911815
Available Chromium (Cr)	mg/kg	8	8	5	5	6	2	1911815
Available Cobalt (Co)	mg/kg	3	3	2	2	2	1	1911815
Available Copper (Cu)	mg/kg	7	6	4	5	3	2	1911815
Available Iron (Fe)	mg/kg	4800	5200	4100	4200	4000	50	1911815
Available Lead (Pb)	mg/kg	1.7	1.2	0.9	2.2	2.7	0.5	1911815
Available Lithium (Li)	mg/kg	3	2	3	3	3	2	1911815
Available Manganese (Mn)	mg/kg	60	57	58	67	58	2	1911815
Available Mercury (Hg)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1911815
Available Molybdenum (Mo)	mg/kg	<2	<2	<2	2	<2	2	1911815
Available Nickel (Ni)	mg/kg	4	4	4	7	3	2	1911815
Available Rubidium (Rb)	mg/kg	8	6	3	2	3	2	1911815
Available Selenium (Se)	mg/kg	<2	<2	<2	<2	<2	2	1911815
Available Silver (Ag)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	1911815
Available Strontium (Sr)	mg/kg	5	5	<5	7	<5	5	1911815
Available Thallium (Tl)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1911815
Available Tin (Sn)	mg/kg	<2	<2	<2	<2	<2	2	1911815
Available Uranium (U)	mg/kg	0.3	0.3	0.1	0.2	0.1	0.1	1911815
Available Vanadium (V)	mg/kg	12	14	10	10	10	2	1911815
Available Zinc (Zn)	mg/kg	43	36	13	59	13	5	1911815

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Project name: NORTHWEST POINT
Your P.O. #: NSD016400

ATLANTIC RBCA HYDROCARBONS (SOIL)

Maxxam ID		DJ7638	DJ7639	DJ7640		DJ7642	DJ7643		DJ7644		
Sampling Date		2009/08/08	2009/08/08	2009/08/08		2009/08/08	2009/08/08		2009/08/08		
	Units	**09-MW5-SS3**	**09-MW6-SS4**	**09-MW4-SS4**	**QC Batch**	**09-MW8-SS3**	**09-MW9-SS4**	**QC Batch**	**09-MW7-SS3**	**RDL**	**QC Batch**
Petroleum Hydrocarbons											
Benzene	mg/kg	<0.03	<0.03	<0.03	1912883	<0.03	<0.03	1912883	<0.03	0.03	1912883
Toluene	mg/kg	<0.03	<0.03	<0.03	1912883	<0.03	<0.03	1912883	0.08	0.03	1912883
Ethylbenzene	mg/kg	<0.03	<0.03	<0.03	1912883	<0.03	<0.03	1912883	1.4	0.03	1912883
Xylene (Total)	mg/kg	<0.05	<0.05	<0.05	1912883	<0.05	<0.05	1912883	7.2	0.05	1912883
C6 - C10 (less BTEX)	mg/kg	<3	<3	<3	1912883	6	110	1912883	710	3	1912883
>C10-C21 Hydrocarbons	mg/kg	<15	<15	<15	1908354	1100	700	1911910	8200	15	1911652
>C21-<C32 Hydrocarbons	mg/kg	<15	20	<15	1908354	19	<15	1911910	100	15	1911652
Modified TPH (Tier1)	mg/kg	<20	20	<20	1908306	1100	810	1908306	9000	20	1908306
Surrogate Recovery (%)											
Isobutylbenzene - Extractable	%	91	102	95	1908354	96	103	1911910	95		1911652
Isobutylbenzene - Volatile	%	106	104	106	1912883	106	102	1912883	74		1912883
n-Dotriacontane - Extractable	%	94	111(1)	101	1908354	90(2)	108(3)	1911910	89(3)		1911652

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Possible lube oil fraction.
(2) - Weatherted fuel oil fraction.
(3) - Fuel oil fraction.

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Client Project #: 1044857/Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

ATLANTIC RBCA HYDROCARBONS (SOIL)

Maxxam ID		DJ7646	DJ7648	DJ7649	DJ7649	DJ7651	DJ7652	DJ7653		
Sampling Date		2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08		
	Units	**09-MW10-SS4**	**09-MW12-SS3**	**09-MW11-SS3**	**09-MW11-SS3 Lab-Dup**	**09-MW20-SS2**	**09-MW19-SS3**	**09-TP32-BS2**	**RDL**	**QC Batch**
Petroleum Hydrocarbons										
Benzene	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	1912883
Toluene	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	1912883
Ethylbenzene	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	1912883
Xylene (Total)	mg/kg	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	0.05	1912883
C6 - C10 (less BTEX)	mg/kg	<3	<3	<3	<3	320	14	80	3	1912883
>C10-C21 Hydrocarbons	mg/kg	27	28	<15		8800	160	2100	15	1911652
>C21-<C32 Hydrocarbons	mg/kg	<15	27	<15		110	20	37	15	1911652
Modified TPH (Tier1)	mg/kg	27	55	<20		9300	190	2200	20	1908306
Surrogate Recovery (%)										
Isobutylbenzene - Extractable	%	76	89	85		90	92	88		1911652
Isobutylbenzene - Volatile	%	104	103	102	101	72	109	88		1912883
n-Dotriacontane - Extractable	%	86(1)	92(2)	95		88(3)	95(3)	84(3)		1911652

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Weathered fuel oil fraction.
(2) - One product in fuel / lube range.
(3) - Fuel oil fraction.

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Project name: NORTHWEST POINT
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ATLANTIC RBCA HYDROCARBONS (SOIL)

Maxxam ID		DJ7654		DJ7655	DJ7656		DJ7657		DJ7658	DJ7659		
Sampling Date		2009/08/08		2009/08/08	2009/08/08		2009/08/08		2009/08/08	2009/08/08		
	Units	**09-TP33-BS2**	**RDL**	**09-TP35-BS2**	**09-TP34-BS2**	**RDL**	**09-MW16-SS3**	**RDL**	**09-TP30-BS2**	**09-TP26-BS2**	**RDL**	**QC Batch**
Petroleum Hydrocarbons												
Benzene	mg/kg	<0.03	0.03	<0.03	<0.03	0.03	<0.03	0.03	<0.03	<0.03	0.03	1912883
Toluene	mg/kg	<0.03	0.03	<0.03	<0.03	0.03	<0.03	0.03	<0.03	<0.03	0.03	1912883
Ethylbenzene	mg/kg	<0.04(1)	0.04	<0.03	<0.03	0.03	<0.03	0.03	<0.03	<0.03	0.03	1912883
Xylene (Total)	mg/kg	<0.2(1)	0.2	<0.05	<0.05	0.05	<0.05	0.05	<0.05	<0.05	0.05	1912883
C6 - C10 (less BTEX)	mg/kg	1100	30	<3	<3	3	890	30	220	<3	3	1912883
>C10-C21 Hydrocarbons	mg/kg	8700	15	<15	<15	15	13000	75	10000	62	15	1911391
>C21-<C32 Hydrocarbons	mg/kg	59	15	<15	<15	15	110	15	120	<15	15	1911391
Modified TPH (Tier1)	mg/kg	9900	30	<20	<20	20	14000	80	11000	62	20	1908306
Surrogate Recovery (%)												
Isobutylbenzene - Extractable	%	86		87	97		89		88	93		1911391
Isobutylbenzene - Volatile	%	62		109	104		67		60	108		1912883
n-Dotriacontane - Extractable	%	105(2)		100	116		97(3)		99(2)	98(4)		1911391

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Elevated VPH RDL(s) due to matrix interference.
(2) - Fuel oil fraction.
(3) - Fuel oil fraction. Elevated TEH RDL(s) due to sample dilution.
(4) - Weathered fuel oil fraction.

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Maxxam Job #: A9A4979
Report Date: 2009/08/24

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

ATLANTIC RBCA HYDROCARBONS (SOIL)

Maxxam ID		DJ7660	DJ7661	DJ7662	DJ7662		DJ7663	DJ7664	DJ7665		
Sampling Date		2009/08/08	2009/08/08	2009/08/08	2009/08/08		2009/08/08	2009/08/08	2009/08/08		
	Units	**09-TP27-BS2**	**09-TP28-BS2**	**09-TP29-BS2**	**09-TP29-BS2 Lab-Dup**	**QC Batch**	**09-TP40-BS2**	**09-TP39-BS2**	**09-TP41-BS2**	**RDL**	**QC Batch**
Petroleum Hydrocarbons											
Benzene	mg/kg	<0.03	<0.03	<0.03	<0.03	1913584	<0.03	<0.03	<0.03	0.03	1913584
Toluene	mg/kg	<0.03	<0.03	<0.03	<0.03	1913584	<0.03	0.06	<0.03	0.03	1913584
Ethylbenzene	mg/kg	<0.03	<0.03	<0.03	<0.03	1913584	<0.03	<0.03	<0.03	0.03	1913584
Xylene (Total)	mg/kg	<0.05	<0.05	<0.05	<0.05	1913584	<0.05	<0.05	<0.05	0.05	1913584
C6 - C10 (less BTEX)	mg/kg	340	210	72	64	1913584	<3	<3	<3	3	1913584
>C10-C21 Hydrocarbons	mg/kg	8700	6200	11000	11000	1911391	<15	280	<15	15	1911652
>C21-<C32 Hydrocarbons	mg/kg	70	58	160	160	1911391	<15	480	<15	15	1911652
Modified TPH (Tier1)	mg/kg	9100	6500	11000		1908306	<20	760	<20	20	1908306
Surrogate Recovery (%)											
Isobutylbenzene - Extractable	%	98	96	88	90	1911391	83	90	76		1911652
Isobutylbenzene - Volatile	%	67	79	58(1)	58(1)	1913584	107	116	106		1913584
n-Dotriacontane - Extractable	%	94(2)	94(2)	100(2)	103(2)	1911391	87	109(3)	91		1911652

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - VPH surrogate not within acceptance limits. Analysis was repeated with similar results.
(2) - Fuel oil fraction.
(3) - One product in fuel / lube range; interference from possible PAHs.

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Maxxam Job #: A9A4979
Report Date: 2009/08/24

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

ATLANTIC RBCA HYDROCARBONS (SOIL)

Maxxam ID		DJ7666	DJ7667	DJ7668	DJ7670	DJ7671	DJ7672	DJ7673	DJ7674		
Sampling Date		2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08		
	Units	**09-TP45-BS2**	**09-TP46-BS2**	**09-TP48-BS2**	**09-TP70-BS2**	**09-MW32-SS2**	**09-MW30-SS3**	**09-TP68-BS2**	**09-TP43-BS2**	**RDL**	**QC Batch**
Petroleum Hydrocarbons											
Benzene	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	1913584
Toluene	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	1913584
Ethylbenzene	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	1913584
Xylene (Total)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	1913584
C6 - C10 (less BTEX)	mg/kg	<3	<3	<3	<3	<3	<3	<3	<3	3	1913584
>C10-C21 Hydrocarbons	mg/kg	<15	<15	<15	<15	<15	<15	<15	<15	15	1911652
>C21-<C32 Hydrocarbons	mg/kg	<15	<15	<15	<15	<15	<15	<15	<15	15	1911652
Modified TPH (Tier1)	mg/kg	<20	<20	<20	<20	<20	<20	<20	<20	20	1908306
Surrogate Recovery (%)											
Isobutylbenzene - Extractable	%	88	75	65	82	88	89	83	83		1911652
Isobutylbenzene - Volatile	%	104	103	109	104	106	106	110	110		1913584
n-Dotriacontane - Extractable	%	96	85	85	86	94	95	92	89		1911652

Maxxam ID		DJ7675		DJ7676	DJ7677	DJ7678	DJ7681		
Sampling Date		2009/08/08		2009/08/08	2009/08/08	2009/08/08	2009/08/08		
	Units	**09-TP42-BS2**	**QC Batch**	**09-TP65-BS2**	**09-TP64-BS2**	**09-TP66-BS2**	**09-TP51-BS2**	**RDL**	**QC Batch**
Petroleum Hydrocarbons									
Benzene	mg/kg	<0.03	1913584	<0.03	<0.03	<0.03	<0.03	0.03	1913584
Toluene	mg/kg	<0.03	1913584	<0.03	<0.03	<0.03	<0.03	0.03	1913584
Ethylbenzene	mg/kg	<0.03	1913584	<0.03	<0.03	<0.03	<0.03	0.03	1913584
Xylene (Total)	mg/kg	<0.05	1913584	<0.05	<0.05	<0.05	<0.05	0.05	1913584
C6 - C10 (less BTEX)	mg/kg	<3	1913584	<3	<3	<3	<3	3	1913584
>C10-C21 Hydrocarbons	mg/kg	<15	1911652	<15	<15	<15	<15	15	1911391
>C21-<C32 Hydrocarbons	mg/kg	<15	1911652	<15	<15	<15	<15	15	1911391
Modified TPH (Tier1)	mg/kg	<20	1908306	<20	<20	<20	<20	20	1908306
Surrogate Recovery (%)									
Isobutylbenzene - Extractable	%	79	1911652	100	100	93	97		1911391
Isobutylbenzene - Volatile	%	114	1913584	112	107	108	107		1913584
n-Dotriacontane - Extractable	%	90	1911652	111	101	97	106		1911391

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: A9A4979
Report Date: 2009/08/24

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

ATLANTIC RBCA HYDROCARBONS (SOIL)

Maxxam ID		DJ7682		DJ7683	DJ7684		DJ7685	DJ7685		
Sampling Date		2009/08/08		2009/08/08	2009/08/08		2009/08/08	2009/08/08		
	Units	**09-TP52-BS2**	**QC Batch**	**09-TP53-BS2**	**09-TP54-BS2**	**QC Batch**	**09-TP55-BS2**	**09-TP55-BS2 Lab-Dup**	**RDL**	**QC Batch**
Petroleum Hydrocarbons										
Benzene	mg/kg	<0.03	1913584	<0.03	<0.03	1913588	<0.03	<0.03	0.03	1913588
Toluene	mg/kg	<0.03	1913584	<0.03	<0.03	1913588	<0.03	<0.03	0.03	1913588
Ethylbenzene	mg/kg	<0.03	1913584	<0.03	<0.03	1913588	<0.03	<0.03	0.03	1913588
Xylene (Total)	mg/kg	<0.05	1913584	<0.05	<0.05	1913588	<0.05	<0.05	0.05	1913588
C6 - C10 (less BTEX)	mg/kg	<3	1913584	<3	<3	1913588	<3	<3	3	1913588
>C10-C21 Hydrocarbons	mg/kg	<15	1911391	<15	<15	1911910	<15	<15	15	1911652
>C21-<C32 Hydrocarbons	mg/kg	<15	1911391	<15	<15	1911910	<15	<15	15	1911652
Modified TPH (Tier1)	mg/kg	<20	1908324	<20	<20	1908324	<20		20	1908324
Surrogate Recovery (%)										
Isobutylbenzene - Extractable	%	90	1911391	106	89	1911910	75	86		1911652
Isobutylbenzene - Volatile	%	110	1913584	107	107	1913588	112	103		1913588
n-Dotriacontane - Extractable	%	111	1911391	110	93	1911910	86	99		1911652

Maxxam ID		DJ7686	DJ7687	DJ7688	DJ7689	DJ7690		
Sampling Date		2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08		
	Units	**09-TP56-BS2**	**09-TP57-BS2**	**09-TP58-BS2**	**09-TP59-BS2**	**09-TP60-BS2**	**RDL**	**QC Batch**
Petroleum Hydrocarbons								
Benzene	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	1913588
Toluene	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	1913588
Ethylbenzene	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	1913588
Xylene (Total)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	1913588
C6 - C10 (less BTEX)	mg/kg	<3	<3	<3	<3	<3	3	1913588
>C10-C21 Hydrocarbons	mg/kg	<15	<15	<15	<15	<15	15	1911910
>C21-<C32 Hydrocarbons	mg/kg	<15	<15	<15	<15	<15	15	1911910
Modified TPH (Tier1)	mg/kg	<20	<20	<20	<20	<20	20	1908324
Surrogate Recovery (%)								
Isobutylbenzene - Extractable	%	103	95	100	97	93		1911910
Isobutylbenzene - Volatile	%	103	112	109	108	109		1913588
n-Dotriacontane - Extractable	%	100	96	99	102	89		1911910

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: A9A4979
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Your P.O. #: NSD016400

POLYCHLORINATED BIPHENYLS BY GC-ECD (SOIL)

Maxxam ID		DJ7643	DJ7646	DJ7649	DJ7651	DJ7672		
Sampling Date		2009/08/08	2009/08/08	2009/08/08	2009/08/08	2009/08/08		
	Units	**09-MW9-SS4**	**09-MW10-SS4**	**09-MW11-SS3**	**09-MW20-SS2**	**09-MW30-SS3**	**RDL**	**QC Batch**
PCBs								
Total PCB	ug/g	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	1911368
Surrogate Recovery (%)								
Decachlorobiphenyl	%	78	76	78	76	78		1911368

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: A9A4979
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Jacques Whitford Limited
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Project name: NORTHWEST POINT
Your P.O. #: NSD016400

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
1908354	Isobutylbenzene - Extractable	2009/08/16	88	30 - 130	93	30 - 130	104	%				
1908354	n-Dotriacontane - Extractable	2009/08/16	112	30 - 130	95	30 - 130	98	%				
1908354	>C10-C21 Hydrocarbons	2009/08/16	NC	30 - 130	81	30 - 130	<15	mg/kg	23.8	50		
1908354	>C21-<C32 Hydrocarbons	2009/08/16	92	30 - 130	90	30 - 130	<15	mg/kg	NC	50		
1911368	Decachlorobiphenyl	2009/08/20	82	30 - 130	78	30 - 130	81	%				
1911368	Total PCB	2009/08/20	102	70 - 130	81	70 - 130	<0.05	ug/g	NC	50		
1911391	Isobutylbenzene - Extractable	2009/08/19	89	30 - 130	98	30 - 130	88	%				
1911391	n-Dotriacontane - Extractable	2009/08/19	94	30 - 130	102	30 - 130	100	%				
1911391	>C10-C21 Hydrocarbons	2009/08/19	NC	30 - 130	80	30 - 130	<15	mg/kg	1.6	50		
1911391	>C21-<C32 Hydrocarbons	2009/08/19	NC	30 - 130	80	30 - 130	<15	mg/kg	1.7	50		
1911652	Isobutylbenzene - Extractable	2009/08/19	80	30 - 130	85	30 - 130	86	%				
1911652	n-Dotriacontane - Extractable	2009/08/19	87	30 - 130	90	30 - 130	88	%				
1911652	>C10-C21 Hydrocarbons	2009/08/19	85	30 - 130	87	30 - 130	<15	mg/kg	NC	50		
1911652	>C21-<C32 Hydrocarbons	2009/08/19	91	30 - 130	94	30 - 130	<15	mg/kg	NC	50		
1911815	Available Aluminum (Al)	2009/08/19	NC	75 - 125	99	75 - 125	<10	mg/kg	15.1	35	87	75 - 125
1911815	Available Antimony (Sb)	2009/08/19	109	75 - 125	108	75 - 125	<2	mg/kg	NC	35		
1911815	Available Arsenic (As)	2009/08/19	104	75 - 125	94	75 - 125	<2	mg/kg	NC	35	109	75 - 125
1911815	Available Barium (Ba)	2009/08/19	NC	75 - 125	99	75 - 125	<5	mg/kg	NC	35	109	75 - 125
1911815	Available Beryllium (Be)	2009/08/19	97	75 - 125	95	75 - 125	<2	mg/kg	NC	35		
1911815	Available Bismuth (Bi)	2009/08/19	103	75 - 125	101	75 - 125	<2	mg/kg	NC	35		
1911815	Available Boron (B)	2009/08/19	95	75 - 125	95	75 - 125	<5	mg/kg	NC	35		
1911815	Available Cadmium (Cd)	2009/08/19	104	75 - 125	98	75 - 125	<0.3	mg/kg	NC	35		
1911815	Available Chromium (Cr)	2009/08/19	98	75 - 125	99	75 - 125	<2	mg/kg	NC	35	87	75 - 125
1911815	Available Cobalt (Co)	2009/08/19	100	75 - 125	97	75 - 125	<1	mg/kg	NC	35	99	75 - 125
1911815	Available Copper (Cu)	2009/08/19	94	75 - 125	96	75 - 125	<2	mg/kg	NC	35	89	75 - 125
1911815	Available Iron (Fe)	2009/08/19	NC	75 - 125	96	75 - 125	<50	mg/kg	8.4	35	90	75 - 125
1911815	Available Lead (Pb)	2009/08/19	94	75 - 125	97	75 - 125	<0.5	mg/kg	NC	35	96	75 - 125
1911815	Available Lithium (Li)	2009/08/19	102	75 - 125	94	75 - 125	<2	mg/kg	NC	35		
1911815	Available Manganese (Mn)	2009/08/19	NC	75 - 125	100	75 - 125	<2	mg/kg	5.6	35	104	75 - 125
1911815	Available Mercury (Hg)	2009/08/19	94	75 - 125	105	75 - 125	<0.1	mg/kg	NC	35		
1911815	Available Molybdenum (Mo)	2009/08/19	104	75 - 125	96	75 - 125	<2	mg/kg	NC	35		
1911815	Available Nickel (Ni)	2009/08/19	97	75 - 125	98	75 - 125	<2	mg/kg	NC	35	99	75 - 125
1911815	Available Rubidium (Rb)	2009/08/19	95	75 - 125	99	75 - 125	<2	mg/kg	NC	35		
1911815	Available Selenium (Se)	2009/08/19	107	75 - 125	79	75 - 125	<2	mg/kg	NC	35		
1911815	Available Silver (Ag)	2009/08/19	103	75 - 125	102	75 - 125	<0.5	mg/kg	NC	35		
1911815	Available Strontium (Sr)	2009/08/19	97	75 - 125	100	75 - 125	<5	mg/kg	NC	35	87	75 - 125
1911815	Available Thallium (Tl)	2009/08/19	96	75 - 125	93	75 - 125	<0.1	mg/kg	NC	35		
1911815	Available Tin (Sn)	2009/08/19	105	75 - 125	97	75 - 125	<2	mg/kg	NC	35		
1911815	Available Uranium (U)	2009/08/19	101	75 - 125	96	75 - 125	<0.1	mg/kg	NC	35		

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Maxxam Job #: A9A4979
Report Date: 2009/08/24

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
1911815	Available Vanadium (V)	2009/08/19	NC	75 - 125	101	75 - 125	<2	mg/kg	16.0	35	104	75 - 125
1911815	Available Zinc (Zn)	2009/08/19	98	75 - 125	92	75 - 125	<5	mg/kg	18.7	35	106	75 - 125
1911910	Isobutylbenzene - Extractable	2009/08/19	116	30 - 130	106	30 - 130	121	%				
1911910	n-Dotriacontane - Extractable	2009/08/19	97	30 - 130	93	30 - 130	116	%				
1911910	>C10-C21 Hydrocarbons	2009/08/19	NC	30 - 130	95	30 - 130	<15	mg/kg	25.3	50		
1911910	>C21-<C32 Hydrocarbons	2009/08/19	NC	30 - 130	98	30 - 130	<15	mg/kg	32.4	50		
1912883	Isobutylbenzene - Volatile	2009/08/21	95	60 - 140	101	60 - 140	100	%				
1912883	Benzene	2009/08/21	83	60 - 140	87	60 - 140	<0.03	mg/kg	NC	50		
1912883	Toluene	2009/08/21	119	60 - 140	87	60 - 140	<0.03	mg/kg	NC	50		
1912883	Ethylbenzene	2009/08/21	107	60 - 140	81	60 - 140	<0.03	mg/kg	NC	50		
1912883	Xylene (Total)	2009/08/21	119	60 - 140	87	60 - 140	<0.05	mg/kg	NC	50		
1912883	C6 - C10 (less BTEX)	2009/08/21					<3	mg/kg	NC	50		
1913584	Isobutylbenzene - Volatile	2009/08/21	85	60 - 140	103	60 - 140	97	%				
1913584	Benzene	2009/08/24	92	60 - 140	101	60 - 140	<0.03	mg/kg	NC	50		
1913584	Toluene	2009/08/24	109	60 - 140	105	60 - 140	<0.03	mg/kg	NC	50		
1913584	Ethylbenzene	2009/08/24	95	60 - 140	103	60 - 140	<0.03	mg/kg	NC	50		
1913584	Xylene (Total)	2009/08/24	101	60 - 140	103	60 - 140	<0.05	mg/kg	NC	50		
1913584	C6 - C10 (less BTEX)	2009/08/24					<3	mg/kg	10.7	50		
1913588	Isobutylbenzene - Volatile	2009/08/21	92	60 - 140	98	60 - 140	103	%				
1913588	Benzene	2009/08/21	92	60 - 140	97	60 - 140	<0.03	mg/kg	NC	50		
1913588	Toluene	2009/08/21	118	60 - 140	101	60 - 140	<0.03	mg/kg	NC	50		
1913588	Ethylbenzene	2009/08/21	112	60 - 140	99	60 - 140	<0.03	mg/kg	NC	50		
1913588	Xylene (Total)	2009/08/21	120	60 - 140	100	60 - 140	<0.05	mg/kg	NC	50		
1913588	C6 - C10 (less BTEX)	2009/08/21					<3	mg/kg	NC	50		

N/A = Not Applicable
RPD = Relative Percent Difference
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
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.
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

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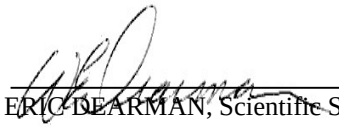
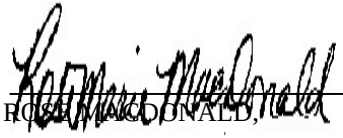
Validation Signature Page

Maxxam Job #: A9A4979

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



ERIC DEARMAN, Scientific Specialist



ROSE MACDONALD, B.Sc.

ALAN STEWART, Scientific Specialist (Organics)

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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. SCC and CALA have approved this reporting process and electronic report format.

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Your P.O. #: NSD016300
Your Project #: 1044857/Z9100
Site: NORTHWEST PT
Your C.O.C. #: 25970

Attention: Jim Slade
Jacques Whitford Limited
St. John's - Standing Offer
607 Torbay Rd
St. John's, NL
A1A 4Y6

Report Date: 2009/08/25

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A9A6176
Received: 2009/08/18, 9:51

Sample Matrix: Soil
Samples Received: 11

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
TEH in Soil (PIRI)	10	2009/08/20	2009/08/20	ATL SOP 00111 R3	Based on Atl. PIRI
Metals Solid Avail. Unified MS - Nper	5	N/A	2009/08/21	ATL SOP 00024 R4	Based on EPA6020A
Moisture	11	N/A	2009/08/18	ATL SOP 00001 R3	MOE Handbook 1983
PAH Compounds by GCMS (SIM) @	1	2009/08/19	2009/08/20	ATL SOP 00102 R3	Based on EPA8270C
VPH in Soil (PIRI)	9	2009/08/18	2009/08/24	ATL SOP 00117 R4/00119 R6	Based on Atl. PIRI
VPH in Soil (PIRI)	1	2009/08/18	2009/08/25	ATL SOP 00117 R4/00119 R6	Based on Atl. PIRI
ModTPH (T1) Calc. for Soil	10	2009/08/18	2009/08/25		Based on Atl. PIRI
Volatile Organic Compounds in Soil	3	2009/08/18	2009/08/21	ATL SOP 00123 R3	Based on USEPA SW-84

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
* Results relate only to the items tested.

(1) Soils are reported on a dry weight basis unless otherwise specified.

Encryption Key

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

MICHELLE HILL, Project Manager
Email: Michelle.Hill.Reports@maxxamanalytics.com
Phone# (902) 420-0203

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For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 1

Maxxam Job #: A9A6176
Report Date: 2009/08/25

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NORTHWEST PT
Your P.O. #: NSD016300

RESULTS OF ANALYSES OF SOIL

Maxxam ID		DK3785	DK3786	DK3787	DK3788	DK3789		
Sampling Date		2009/08/11	2009/08/11	2009/08/11	2009/08/11	2009/08/11		
	Units	**MW17-SS3**	**MW21-SS5**	**MW22-SS5**	**MW23-SS7**	**MW24-SS4**	**RDL**	**QC Batch**
Inorganics								
Moisture	%	10	4	5	9	9	1	1910817

Maxxam ID		DK3790	DK3791	DK3792	DK3793	DK3794	DK3795		
Sampling Date		2009/08/11	2009/08/11	2009/08/11	2009/08/11	2009/08/11	2009/08/11		
	Units	**MW25-SS3**	**MW26-SS2**	**MW27D-SS3**	**MW28-SS6**	**MW29-SS3**	**MW27D-SS1**	**RDL**	**QC Batch**
Inorganics									
Moisture	%	9	8	12	14	16	16	1	1910817

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: A9A6176
Report Date: 2009/08/25

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NORTHWEST PT
Your P.O. #: NSD016300

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		DK3786	DK3790	DK3792	DK3793	DK3794		
Sampling Date		2009/08/11	2009/08/11	2009/08/11	2009/08/11	2009/08/11		
	Units	**MW21-SS5**	**MW25-SS3**	**MW27D-SS3**	**MW28-SS6**	**MW29-SS3**	**RDL**	**QC Batch**
Metals								
Available Aluminum (Al)	mg/kg	1500	5500	8000	10000	3300	10	1914341
Available Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND	2	1914341
Available Arsenic (As)	mg/kg	ND	ND	ND	ND	ND	2	1914341
Available Barium (Ba)	mg/kg	17	43	75	110	29	5	1914341
Available Beryllium (Be)	mg/kg	ND	ND	ND	ND	ND	2	1914341
Available Bismuth (Bi)	mg/kg	ND	ND	ND	ND	ND	2	1914341
Available Boron (B)	mg/kg	ND	ND	ND	ND	ND	5	1914341
Available Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND	0.3	1914341
Available Chromium (Cr)	mg/kg	5	15	24	24	10	2	1914341
Available Cobalt (Co)	mg/kg	2	4	6	8	3	1	1914341
Available Copper (Cu)	mg/kg	6	9	18	20	12	2	1914341
Available Iron (Fe)	mg/kg	4000	8200	13000	16000	7700	50	1914341
Available Lead (Pb)	mg/kg	0.8	3.9	5.7	5.0	6.8	0.5	1914341
Available Lithium (Li)	mg/kg	ND	5	8	11	4	2	1914341
Available Manganese (Mn)	mg/kg	40	110	180	290	100	2	1914341
Available Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND	0.1	1914341
Available Molybdenum (Mo)	mg/kg	ND	ND	ND	ND	ND	2	1914341
Available Nickel (Ni)	mg/kg	3	8	13	16	7	2	1914341
Available Rubidium (Rb)	mg/kg	3	8	19	27	6	2	1914341
Available Selenium (Se)	mg/kg	ND	ND	ND	ND	ND	2	1914341
Available Silver (Ag)	mg/kg	ND	ND	ND	ND	ND	0.5	1914341
Available Strontium (Sr)	mg/kg	ND	8	16	25	8	5	1914341
Available Thallium (Tl)	mg/kg	ND	ND	ND	0.1	ND	0.1	1914341
Available Tin (Sn)	mg/kg	ND	ND	ND	ND	6	2	1914341
Available Uranium (U)	mg/kg	0.2	0.3	0.6	0.7	0.2	0.1	1914341
Available Vanadium (V)	mg/kg	8	18	32	33	14	2	1914341
Available Zinc (Zn)	mg/kg	7	19	42	45	30	5	1914341

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Maxxam ID		DK3795		
Sampling Date		2009/08/11		
	Units	**MW27D-SS1**	**RDL**	**QC Batch**
Polyaromatic Hydrocarbons				
1-Methylnaphthalene	mg/kg	5.9	0.01	1911353
2-Methylnaphthalene	mg/kg	10	0.01	1911353
Acenaphthene	mg/kg	42(1)	0.1	1911353
Acenaphthylene	mg/kg	0.22	0.01	1911353
Anthracene	mg/kg	57(1)	0.1	1911353
Benzo(a)anthracene	mg/kg	90(1)	0.1	1911353
Benzo(a)pyrene	mg/kg	81	0.01	1911353
Benzo(b)fluoranthene	mg/kg	71(1)	0.1	1911353
Benzo(g,h,i)perylene	mg/kg	38(1)	0.1	1911353
Benzo(k)fluoranthene	mg/kg	71(1)	0.1	1911353
Chrysene	mg/kg	94(1)	0.1	1911353
Dibenz(a,h)anthracene	mg/kg	11	0.01	1911353
Fluoranthene	mg/kg	230(1)	0.1	1911353
Fluorene	mg/kg	31(1)	0.1	1911353
Indeno(1,2,3-cd)pyrene	mg/kg	44(1)	0.1	1911353
Naphthalene	mg/kg	36(1)	0.1	1911353
Perylene	mg/kg	23	0.01	1911353
Phenanthrene	mg/kg	210(1)	0.1	1911353
Pyrene	mg/kg	180(1)	0.1	1911353
Surrogate Recovery (%)				
D10-Anthracene	%	88		1911353
D14-Terphenyl (FS)	%	81		1911353
D8-Acenaphthylene	%	90		1911353

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Elevated PAH RDL(s) due to sample dilution.

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VOLATILE ORGANICS BY GC/MS (SOIL)

Maxxam ID		DK3786	DK3787	DK3788		
Sampling Date		2009/08/11	2009/08/11	2009/08/11		
	Units	**MW21-SS5**	**MW22-SS5**	**MW23-SS7**	**RDL**	**QC Batch**
Volatile Organics						
1,1,1-Trichloroethane	ug/kg	ND	ND	ND	30	1912928
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND	ND	30	1912928
1,1,2-Trichloroethane	ug/kg	ND	ND	ND	30	1912928
1,1-Dichloroethane	ug/kg	ND	ND	ND	30	1912928
1,1-Dichloroethylene	ug/kg	ND	ND	ND	30	1912928
1,2-Dichlorobenzene	ug/kg	ND	ND	ND	30	1912928
1,2-Dichloroethane	ug/kg	ND	ND	ND	30	1912928
1,2-Dichloropropane	ug/kg	ND	ND	ND	30	1912928
1,3-Dichlorobenzene	ug/kg	ND	ND	ND	30	1912928
1,4-Dichlorobenzene	ug/kg	ND	ND	ND	30	1912928
Benzene	ug/kg	ND	ND	ND	30	1912928
Bromodichloromethane	ug/kg	ND	ND	ND	30	1912928
Bromoform	ug/kg	ND	ND	ND	30	1912928
Bromomethane	ug/kg	ND	ND	ND	200	1912928
Carbon Tetrachloride	ug/kg	ND	ND	ND	30	1912928
Chlorobenzene	ug/kg	ND	ND	ND	30	1912928
Chloroform	ug/kg	ND	ND	ND	30	1912928
Chloromethane	ug/kg	ND	ND	ND	30	1912928
cis-1,2-Dichloroethylene	ug/kg	ND	ND	ND	30	1912928
cis-1,3-Dichloropropene	ug/kg	ND	ND	ND	30	1912928
Dibromochloromethane	ug/kg	ND	ND	ND	30	1912928
Ethylbenzene	ug/kg	ND	ND	ND	30	1912928
Ethylene Dibromide	ug/kg	ND	ND	ND	30	1912928
Methylene Chloride(Dichloromethane)	ug/kg	ND	ND	ND	30	1912928
o-Xylene	ug/kg	ND	ND	ND	30	1912928
p+m-Xylene	ug/kg	ND	ND	ND	30	1912928
Styrene	ug/kg	ND	ND	ND	30	1912928
Tetrachloroethylene	ug/kg	ND	ND	ND	30	1912928
Toluene	ug/kg	ND	ND	ND	30	1912928
trans-1,2-Dichloroethylene	ug/kg	ND	ND	ND	30	1912928
trans-1,3-Dichloropropene	ug/kg	ND	ND	ND	30	1912928
Trichloroethylene	ug/kg	ND	ND	ND	30	1912928
Trichlorofluoromethane (FREON 11)	ug/kg	ND	ND	ND	30	1912928

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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VOLATILE ORGANICS BY GC/MS (SOIL)

Maxxam ID		DK3786	DK3787	DK3788		
Sampling Date		2009/08/11	2009/08/11	2009/08/11		
	Units	**MW21-SS5**	**MW22-SS5**	**MW23-SS7**	**RDL**	**QC Batch**
Vinyl Chloride	ug/kg	ND	ND	ND	30	1912928
Surrogate Recovery (%)						
4-Bromofluorobenzene	%	99	98	100		1912928
D4-1,2-Dichloroethane	%	114	109	113		1912928
D8-Toluene	%	102	102	105		1912928

ATLANTIC RBCA HYDROCARBONS (SOIL)

Maxxam ID		DK3785		DK3786	DK3787	DK3788	DK3789		
Sampling Date		2009/08/11		2009/08/11	2009/08/11	2009/08/11	2009/08/11		
	Units	**MW17-SS3**	**RDL**	**MW21-SS5**	**MW22-SS5**	**MW23-SS7**	**MW24-SS4**	**RDL**	**QC Batch**
Petroleum Hydrocarbons									
Benzene	mg/kg	ND	0.03	ND	ND	ND	ND	0.03	1916168
Toluene	mg/kg	ND	0.03	ND	ND	ND	ND	0.03	1916168
Ethylbenzene	mg/kg	0.46	0.03	ND	ND	ND	ND	0.03	1916168
Xylene (Total)	mg/kg	1.1	0.05	ND	ND	ND	ND	0.05	1916168
C6 - C10 (less BTEX)	mg/kg	520	30	ND	ND	ND	ND	3	1916168
>C10-C21 Hydrocarbons	mg/kg	15000	15	ND	ND	ND	ND	15	1912960
>C21-<C32 Hydrocarbons	mg/kg	190	15	ND	ND	ND	ND	15	1912960
Modified TPH (Tier1)	mg/kg	16000	30	ND	ND	ND	ND	20	1910789
Surrogate Recovery (%)									
Isobutylbenzene - Extractable	%	97		100	93	96	95		1912960
Isobutylbenzene - Volatile	%	39(1)		97	99	102	102		1916168
n-Dotriacontane - Extractable	%	102(2)		107	103	112	112		1912960

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - VPH surrogate not within acceptance limits. Analysis was repeated with similar results.
(2) - Fuel oil fraction.

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ATLANTIC RBCA HYDROCARBONS (SOIL)

Maxxam ID		DK3790	DK3791	DK3792		DK3793	DK3794		
Sampling Date		2009/08/11	2009/08/11	2009/08/11		2009/08/11	2009/08/11		
	Units	**MW25-SS3**	**MW26-SS2**	**MW27D-SS3**	**QC Batch**	**MW28-SS6**	**MW29-SS3**	**RDL**	**QC Batch**
Petroleum Hydrocarbons									
Benzene	mg/kg	ND	ND	ND	1916168	ND	ND	0.03	1916168
Toluene	mg/kg	ND	ND	ND	1916168	ND	ND	0.03	1916168
Ethylbenzene	mg/kg	ND	ND	ND	1916168	ND	ND	0.03	1916168
Xylene (Total)	mg/kg	ND	ND	ND	1916168	ND	ND	0.05	1916168
C6 - C10 (less BTEX)	mg/kg	ND	ND	ND	1916168	ND	ND	3	1916168
>C10-C21 Hydrocarbons	mg/kg	36	ND	530	1912960	ND	24	15	1912845
>C21-<C32 Hydrocarbons	mg/kg	210	ND	960	1912960	ND	41	15	1912845
Modified TPH (Tier1)	mg/kg	250	ND	1500	1910789	ND	65	20	1910789
Surrogate Recovery (%)									
Isobutylbenzene - Extractable	%	93	96	97	1912960	85	93		1912845
Isobutylbenzene - Volatile	%	100	101	101	1916168	99	108		1916168
n-Dotriacontane - Extractable	%	101(1)	105	165(2)	1912960	91	92(3)		1912845

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Lube oil fraction.
(2) - One product in fuel / lube range; interference from possible PAHs. TEH surrogate(s) not within acceptance limits due to sample dilution / product interference.
(3) - One product in fuel / lube range.

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VOLATILE ORGANICS BY GC/MS (SOIL)

Volatile Organic Compounds in Soil: WS#1912928 - Chloroethane unavailable due to calibration non-conformance.

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Jacques Whitford Limited
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QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
1911353	D10-Anthracene	2009/08/19	85	30 - 130	106	30 - 130	86	%				
1911353	D14-Terphenyl (FS)	2009/08/19	78	30 - 130	96	30 - 130	92	%				
1911353	D8-Acenaphthylene	2009/08/19	82	30 - 130	104	30 - 130	86	%				
1911353	1-Methylnaphthalene	2009/08/19	97	30 - 130	96	30 - 130	ND, RDL=0.01	mg/kg	NC	50		
1911353	2-Methylnaphthalene	2009/08/19	100	30 - 130	99	30 - 130	ND, RDL=0.01	mg/kg	NC	50		
1911353	Acenaphthene	2009/08/19	99	30 - 130	99	30 - 130	ND, RDL=0.01	mg/kg	NC	50		
1911353	Acenaphthylene	2009/08/19	95	30 - 130	94	30 - 130	ND, RDL=0.01	mg/kg	NC	50		
1911353	Anthracene	2009/08/19	110	30 - 130	110	30 - 130	ND, RDL=0.01	mg/kg	NC	50		
1911353	Benzo(a)anthracene	2009/08/19	96	30 - 130	96	30 - 130	ND, RDL=0.01	mg/kg	NC	50		
1911353	Benzo(a)pyrene	2009/08/19	101	30 - 130	97	30 - 130	ND, RDL=0.01	mg/kg	NC	50		
1911353	Benzo(b)fluoranthene	2009/08/19	101	30 - 130	97	30 - 130	ND, RDL=0.01	mg/kg	NC	50		
1911353	Benzo(g,h,i)perylene	2009/08/19	92	30 - 130	91	30 - 130	ND, RDL=0.01	mg/kg	NC	50		
1911353	Benzo(k)fluoranthene	2009/08/19	101	30 - 130	97	30 - 130	ND, RDL=0.01	mg/kg	NC	50		
1911353	Chrysene	2009/08/19	109	30 - 130	106	30 - 130	ND, RDL=0.01	mg/kg	NC	50		
1911353	Dibenz(a,h)anthracene	2009/08/19	77	30 - 130	78	30 - 130	ND, RDL=0.01	mg/kg	NC	50		
1911353	Fluoranthene	2009/08/19	110	30 - 130	106	30 - 130	ND, RDL=0.01	mg/kg	NC	50		
1911353	Fluorene	2009/08/19	96	30 - 130	97	30 - 130	ND, RDL=0.01	mg/kg	NC	50		
1911353	Indeno(1,2,3-cd)pyrene	2009/08/19	80	30 - 130	77	30 - 130	ND, RDL=0.01	mg/kg	NC	50		
1911353	Naphthalene	2009/08/19	96	30 - 130	96	30 - 130	ND, RDL=0.01	mg/kg	NC	50		
1911353	Perylene	2009/08/19	97	30 - 130	94	30 - 130	ND, RDL=0.01	mg/kg	NC	50		
1911353	Phenanthrene	2009/08/19	113	30 - 130	113	30 - 130	ND, RDL=0.01	mg/kg	NC	50		
1911353	Pyrene	2009/08/19	110	30 - 130	107	30 - 130	ND, RDL=0.01	mg/kg	NC	50		
1912845	Isobutylbenzene - Extractable	2009/08/20	87	30 - 130	80	30 - 130	81	%				
1912845	n-Dotriacontane - Extractable	2009/08/20	84	30 - 130	81	30 - 130	84	%				
1912845	>C10-C21 Hydrocarbons	2009/08/20	86	30 - 130	86	30 - 130	ND, RDL=15	mg/kg	NC	50		
1912845	>C21-<C32 Hydrocarbons	2009/08/20	91	30 - 130	95	30 - 130	ND, RDL=15	mg/kg	NC	50		
1912928	4-Bromofluorobenzene	2009/08/20	97	60 - 140	107	60 - 140	101	%				
1912928	D4-1,2-Dichloroethane	2009/08/20	102	60 - 140	115	60 - 140	110	%				
1912928	D8-Toluene	2009/08/20	96	60 - 140	110	60 - 140	102	%				
1912928	1,1,1-Trichloroethane	2009/08/20	95	60 - 140	103	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	1,1,2,2-Tetrachloroethane	2009/08/20	83	60 - 140	86	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	1,1,2-Trichloroethane	2009/08/20	93	60 - 140	98	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	1,1-Dichloroethane	2009/08/20	97	60 - 140	102	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	1,1-Dichloroethylene	2009/08/20	91	60 - 140	100	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	1,2-Dichlorobenzene	2009/08/20	87	60 - 140	92	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	1,2-Dichloroethane	2009/08/20	93	60 - 140	100	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	1,2-Dichloropropane	2009/08/20	89	60 - 140	96	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	1,3-Dichlorobenzene	2009/08/20	87	60 - 140	95	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	1,4-Dichlorobenzene	2009/08/20	85	60 - 140	91	60 - 140	ND, RDL=30	ug/kg	NC	50		

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Client Project #: 1044857/Z9100
Project name: NORTHWEST PT
Your P.O. #: NSD016300

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
1912928	Benzene	2009/08/20	91	60 - 140	97	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	Bromodichloromethane	2009/08/20	81	60 - 140	86	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	Bromoform	2009/08/20	65	60 - 140	72	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	Bromomethane	2009/08/20	95	60 - 140	103	60 - 140	ND, RDL=200	ug/kg	NC	50		
1912928	Carbon Tetrachloride	2009/08/20	89	60 - 140	96	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	Chlorobenzene	2009/08/20	93	60 - 140	97	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	Chloroform	2009/08/20	95	60 - 140	106	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	Chloromethane	2009/08/20	85	60 - 140	95	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	cis-1,2-Dichloroethylene	2009/08/20	96	60 - 140	103	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	cis-1,3-Dichloropropene	2009/08/20	81	60 - 140	88	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	Dibromochloromethane	2009/08/20	73	60 - 140	79	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	Ethylbenzene	2009/08/20	89	60 - 140	93	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	Ethylene Dibromide	2009/08/20	86	60 - 140	95	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	MethyleneChloride(Dichloromethane)	2009/08/20	103	60 - 140	107	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	o-Xylene	2009/08/20	92	60 - 140	96	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	p+m-Xylene	2009/08/20	96	60 - 140	99	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	Styrene	2009/08/20	90	60 - 140	96	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	Tetrachloroethylene	2009/08/20	95	60 - 140	99	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	Toluene	2009/08/20	91	60 - 140	98	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	trans-1,2-Dichloroethylene	2009/08/20	97	60 - 140	101	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	trans-1,3-Dichloropropene	2009/08/20	73	60 - 140	77	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	Trichloroethylene	2009/08/20	97	60 - 140	101	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	Trichlorofluoromethane (FREON 11)	2009/08/20	93	60 - 140	103	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912928	Vinyl Chloride	2009/08/20	77	60 - 140	84	60 - 140	ND, RDL=30	ug/kg	NC	50		
1912960	Isobutylbenzene - Extractable	2009/08/20	185(1)	30 - 130	102	30 - 130	100	%				
1912960	n-Dotriacontane - Extractable	2009/08/20	101	30 - 130	102	30 - 130	98	%				
1912960	>C10-C21 Hydrocarbons	2009/08/20	NC	30 - 130	92	30 - 130	ND, RDL=15	mg/kg	9.2	50		
1912960	>C21-<C32 Hydrocarbons	2009/08/20	NC	30 - 130	96	30 - 130	ND, RDL=15	mg/kg	12.7	50		
1914341	Available Aluminum (Al)	2009/08/21	NC	75 - 125	98	75 - 125	ND, RDL=10	mg/kg	6.0	35	86	75 - 125
1914341	Available Antimony (Sb)	2009/08/21	92	75 - 125	109	75 - 125	ND, RDL=2	mg/kg	NC	35		
1914341	Available Arsenic (As)	2009/08/21	89	75 - 125	92	75 - 125	ND, RDL=2	mg/kg	NC	35	118	75 - 125
1914341	Available Barium (Ba)	2009/08/21	99	75 - 125	98	75 - 125	ND, RDL=5	mg/kg	NC	35	112	75 - 125
1914341	Available Beryllium (Be)	2009/08/21	97	75 - 125	91	75 - 125	ND, RDL=2	mg/kg	NC	35		
1914341	Available Bismuth (Bi)	2009/08/21	100	75 - 125	102	75 - 125	ND, RDL=2	mg/kg	NC	35		
1914341	Available Boron (B)	2009/08/21	99	75 - 125	88	75 - 125	ND, RDL=5	mg/kg	NC	35		
1914341	Available Cadmium (Cd)	2009/08/21	98	75 - 125	93	75 - 125	ND, RDL=0.3	mg/kg	NC	35		
1914341	Available Chromium (Cr)	2009/08/21	91	75 - 125	100	75 - 125	ND, RDL=2	mg/kg	NC	35	83	75 - 125
1914341	Available Cobalt (Co)	2009/08/21	95	75 - 125	98	75 - 125	ND, RDL=1	mg/kg	NC	35	97	75 - 125
1914341	Available Copper (Cu)	2009/08/21	NC	75 - 125	98	75 - 125	ND, RDL=2	mg/kg	0.5	35	91	75 - 125

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Maxxam Job #: A9A6176
Report Date: 2009/08/25

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NORTHWEST PT
Your P.O. #: NSD016300

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
1914341	Available Iron (Fe)	2009/08/21	NC	75 - 125	98	75 - 125	ND, RDL=50	mg/kg	0.7	35	91	75 - 125
1914341	Available Lead (Pb)	2009/08/21	NC	75 - 125	99	75 - 125	ND, RDL=0.5	mg/kg	5.5	35	103	75 - 125
1914341	Available Lithium (Li)	2009/08/21	93	75 - 125	89	75 - 125	ND, RDL=2	mg/kg	NC	35		
1914341	Available Manganese (Mn)	2009/08/21	NC	75 - 125	97	75 - 125	ND, RDL=2	mg/kg	0.6	35	105	75 - 125
1914341	Available Mercury (Hg)	2009/08/21	116	75 - 125	112	75 - 125	ND, RDL=0.1	mg/kg	NC	35		
1914341	Available Molybdenum (Mo)	2009/08/21	94	75 - 125	97	75 - 125	ND, RDL=2	mg/kg	NC	35		
1914341	Available Nickel (Ni)	2009/08/21	92	75 - 125	99	75 - 125	ND, RDL=2	mg/kg	NC	35	95	75 - 125
1914341	Available Rubidium (Rb)	2009/08/21	97	75 - 125	94	75 - 125	ND, RDL=2	mg/kg	NC	35		
1914341	Available Selenium (Se)	2009/08/21	81	75 - 125	87	75 - 125	ND, RDL=2	mg/kg	NC	35		
1914341	Available Silver (Ag)	2009/08/21	100	75 - 125	101	75 - 125	ND, RDL=0.5	mg/kg	NC	35		
1914341	Available Strontium (Sr)	2009/08/21	96	75 - 125	97	75 - 125	ND, RDL=5	mg/kg	NC	35	90	75 - 125
1914341	Available Thallium (Tl)	2009/08/21	95	75 - 125	98	75 - 125	ND, RDL=0.1	mg/kg	NC	35		
1914341	Available Tin (Sn)	2009/08/21	97	75 - 125	96	75 - 125	ND, RDL=2	mg/kg	NC	35		
1914341	Available Uranium (U)	2009/08/21	98	75 - 125	101	75 - 125	ND, RDL=0.1	mg/kg	NC	35		
1914341	Available Vanadium (V)	2009/08/21	87	75 - 125	102	75 - 125	ND, RDL=2	mg/kg	NC	35	99	75 - 125
1914341	Available Zinc (Zn)	2009/08/21	91	75 - 125	87	75 - 125	ND, RDL=5	mg/kg	3.7	35	100	75 - 125
1916168	Isobutylbenzene - Volatile	2009/08/24	79	60 - 140	99	60 - 140	98	%				
1916168	Benzene	2009/08/24	83	60 - 140	110	60 - 140	ND, RDL=0.03	mg/kg	NC	50		
1916168	Toluene	2009/08/24	106	60 - 140	115	60 - 140	ND, RDL=0.03	mg/kg	8.3	50		
1916168	Ethylbenzene	2009/08/24	101	60 - 140	112	60 - 140	ND, RDL=0.03	mg/kg	NC	50		
1916168	Xylene (Total)	2009/08/24	108	60 - 140	113	60 - 140	ND, RDL=0.05	mg/kg	NC	50		
1916168	C6 - C10 (less BTEX)	2009/08/24					ND, RDL=3	mg/kg	NC	50		

N/A = Not Applicable
RDL = Reportable Detection Limit
RPD = Relative Percent Difference
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
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.
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.
(1) - TEH surrogate(s) not within acceptance limits due to sample dilution / product interference.

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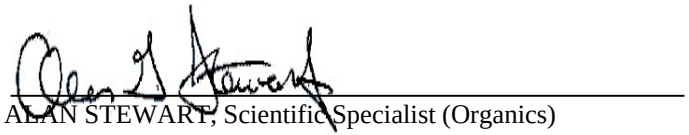
Validation Signature Page

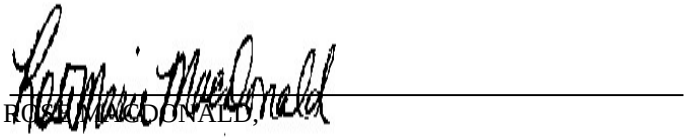
Maxxam Job #: A9A6176

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



ALAN STEWART, Scientific Specialist (Organics)

ERIC BEARMAN, Scientific Specialist



ROSA MACDONALD, B.Sc.

==========

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. SCC and CALA have approved this reporting process and electronic report format.

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WIF 363 Temp 47 Sheet 1 of 2

Maxxam Analytics Inc 49-55 Elizabeth Avenue, Suite 101A, St. John's, NL A1A 1W9 Tel: 709-754-0203 Fax: 709-754-8612 Toll Free: 1-888-492-7227 www.maxxamanalytics.com

CHAIN OF CUSTODY RECORD

25970

INVOICE INFORMATION:	REPORT INFORMATION (if differs from invoice):		MAXXAM JOB NUMBER:
Company Name: JW Stantec	Company Name: JW Stantec	PO #:	A9A676
Contact Name:	Contact Name: Jim Slade, Carolyn A. Moore	Project #: 1044857. Z900	ENTERED BY, Init: BC
Address:	Address: 607 Torbay road	Proj. Name: North West Pt	
		Location: "North West Pt"	
		Quotation#:	
Email:	Email: Michelle Shepard	Submitted By: Karl Hartman	
Ph: Fax:	Ph: Fax:	Site Task #:	Client Code: 10951

Specify Guideline Requirements:

Heat Treat

*S... Ground/Tapwater/Sewage/Effluent/Seawater Potable/NonPotable/Tissue/Soil/Sludge/Metal

DUE DATE:

STANDARD: X

RUSH Due Date:

For extra cost rush, specify Due Date. Rush analysis must be scheduled prior to sample submission.

Client will be contacted if Rush date cannot be met.

Sample Identification	Matrix*	Date/Time Sampled	# & type of bottles	Field Filtered & Preserved	Lab Filtration Required	RCAp-30 Choose Total or Diss Metals	RCAp-MS Choose Total or Diss Metals	Metals Water: Total Digest (Default Method)	Metals Water: Dissolved	Mercury (Mercury is not included in soil or water metals scan)	Metals Soil: Available Metals Digest Default Method (HNO_3/H_2O_2)	Metals Soil: Total Digest - for sediments ($HNO_3/HF/HClO_4$)	Metals Soil: Tin (required for CCME soils)	Metals Soil: Selenium (low level) Req'd for CCME Residential, Parklands, Agricultural	Metals Soil: Hot Water soluble Boron (required for CCME Agricultural)	TPH MUST (BTEX, C_6-C_{32})	Soil (Potable), TPH MUST, NS Fuel Oil Spill Policy Low Level BTEX & C_6-C_{32}	NB Potable Water BTEX, VPH, Low Level TEH	TPH Fractionation	PAH's	PCB's	VOC's EPA 624,8260	Other Analysis or Comments/Hazards
MW17-SS3	Soil	Aug 11/09	250 mL				DK3785									X							
MW21-SS5	↓		↓				86			X	X					X						X	
MW22-SS5							87									X						X	
MW23-SS7							88									X						X	
MW-24-SS4	↓	↓	↓				89									X							
MW25-SS3		AUG 11/09					90			X	X					X							
MW26-SS2							91									X							FROM MAXXAM NL
MW27D-SS3							92			X	X					X							AUG 17 2009
MW28-SS6							93			X	X					X							
MW29-SS3	↓	↓	↓				94			X	X					X							

RELINQUISHED BY: (Signature/Print)	RECEIVED BY: (Signature/Print)	DATE / TIME	PURPOSE OF CHANGE / REMARKS	TEMP @ Maxxam Receipt
Karl Hartman	[illegible]	Aug 14/09 4:20 pm	NON - ROUTINE SUBMISSION	16.0°C 2 5
				INTEGRITY Init: Yes No

Sheet 2 of 2

CHAIN OF CUSTODY RECORD

25971

Maxxam Analytics Inc
49-55 Elizabeth Avenue, Suite 101A, St. John's, NL A1A 1W9 Tel: 709-754-0203 Fax: 709-754-8612 Toll Free: 1-888-492-7227
www.maxxamanalytics.com

INVOICE INFORMATION:	REPORT INFORMATION (if differs from invoice):		MAXXAM JOB NUMBER:
Company Name:	Company Name:	PO #:	
Contact Name:	Contact Name:	Project #: 1044857-29100	ENTERED BY, Init:
Address:	Address:	Proj. Name: Northwest Pt	
Email:	Email:	Location: Northwest Pt	
Ph: Fax:	Ph: Fax:	Quotation#:	
		Submitted By: Karl Hartmann	
		Site Task #:	Client Code:

Specify Guideline Requirements:

*Specify Matrix: Surface/Salt/Ground/Tapwater/Sewage/Effluent/Seawater Potable/NonPotable/Tissue/Soil/Sludge/Metal

Sample Identification	Matrix*	Date/Time Sampled	# & type of bottles	Field Filtered & Preserved	Lab Filtration Required	RCAp-30 Choose Total or Diss Metals	RCAp-MS Choose Total or Diss Metals	Metals Water: Total Digest (Default Method)	Metals Water: Dissolved	Metals Soil: Mercury is not included in soil or water metals scan	Metals Soil: Available Metals Digest Default Method (HNO3/H2O2)	Metals Soil: Total Digest - for sediments (HNO3/HF/HCLO4)	Metals Soil: Tin (required for CCME soils)	Metals Soil: Selenium (low level) Req'd for CCME Residential, Parklands, Agricultural	Metals Soil: Hot Water soluble Boron (required for CCME Agricultural)	TPH MUST (BTEX, C6-C50)	Soil (Potable), TPH MUST, NS Fuel Oil Spill Policy Low Level BTEX & C6-C50	NB Potable Water BTEX, VPH, Low Level TEH	TPH Fractionation	PAH's	PCB's	VOC's EPA 624,8260	Other Analysis or Comments/Hazards
NW27D-551	Soil	Aug 11/09	250mL			DR2795														X			

DUE DATE:

STANDARD: ☒

RUSH Due Date: _____

For extra cost rush, specify Due Date. Rush analysis must be scheduled prior to sample submission.

Client will be contacted if Rush date cannot be met.

RECEIVED AUG 18 AM 9:51
FROM MAXXAM
AUG 17 2009

RELINQUISHED BY: (Signature/Print)	RECEIVED BY: (Signature/Print)	DATE / TIME	PURPOSE OF CHANGE / REMARKS	TEMP @ Maxxam Receipt
K. Hartmann		Aug 14/09		16.0°C
		4:20pm	NON-ROUTINE SUBMISSION	INTEGRITY Init: BMW Yes No

Your P.O. #: NSD016400
Your Project #: 1044857/Z9100
Site: NWP
Your C.O.C. #: 18110

Attention: JIM SLADE
Jacques Whitford Limited
607 Torbay Rd
St. John's, NL
A1A 4Y6

Report Date: 2009/08/31

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A9A8516
Received: 2009/08/21, 10:36

Sample Matrix: Soil
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
TEH in Soil (PIRI)	4	2009/08/26	2009/08/26	ATL SOP 00111 R3	Based on Atl. PIRI
Metals Solid Avail. Unified MS - Nper	1	N/A	2009/08/24	ATL SOP 00024 R4	Based on EPA6020A
Moisture	4	N/A	2009/08/21	ATL SOP 00001 R3	MOE Handbook 1983
PCBs in soil by GC/ECD	1	2009/08/24	2009/08/31	ATL SOP 00106 R3	Based on EPA8082
VPH in Soil (PIRI)	3	2009/08/21	2009/08/25	ATL SOP 00117 R4/00119 R6	Based on Atl. PIRI
VPH in Soil (PIRI)	1	2009/08/21	2009/08/26	ATL SOP 00117 R4/00119 R6	Based on Atl. PIRI
ModTPH (T1) Calc. for Soil	1	2009/08/21	2009/08/27		Based on Atl. PIRI
ModTPH (T1) Calc. for Soil	3	2009/08/21	2009/08/28		Based on Atl. PIRI

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
* Results relate only to the items tested.

Encryption Key

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

MICHELLE HILL, Project Manager
Email: Michelle.Hill.Reports@maxxamanalytics.com
Phone# (902) 420-0203

==========

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. SCC and CALA have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 1

This document is in electronic format, hard copy is available on request.

Maxxam Job #: A9A8516
Report Date: 2009/08/31

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

RESULTS OF ANALYSES OF SOIL

Maxxam ID		DL4871	DL4872	DL4873	DL4874		
Sampling Date		2009/08/14	2009/08/14	2009/08/14	2009/08/14		
	Units	**MW35D-SS8**	**MW34D-SS1**	**MW33D-SS3**	**MW33D-SS7**	**RDL**	**QC Batch**
Inorganics							
Moisture	%	7	92	7	12	1	1914897

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: A9A8516
Report Date: 2009/08/31

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		DL4874		
Sampling Date		2009/08/14		
	Units	**MW33D-SS7**	**RDL**	**QC Batch**
Metals				
Available Aluminum (Al)	mg/kg	2500	10	1916687
Available Antimony (Sb)	mg/kg	<2	2	1916687
Available Arsenic (As)	mg/kg	<2	2	1916687
Available Barium (Ba)	mg/kg	38	5	1916687
Available Beryllium (Be)	mg/kg	<2	2	1916687
Available Bismuth (Bi)	mg/kg	<2	2	1916687
Available Boron (B)	mg/kg	<5	5	1916687
Available Cadmium (Cd)	mg/kg	<0.3	0.3	1916687
Available Chromium (Cr)	mg/kg	13	2	1916687
Available Cobalt (Co)	mg/kg	3	1	1916687
Available Copper (Cu)	mg/kg	9	2	1916687
Available Iron (Fe)	mg/kg	7900	50	1916687
Available Lead (Pb)	mg/kg	1.8	0.5	1916687
Available Lithium (Li)	mg/kg	2	2	1916687
Available Manganese (Mn)	mg/kg	83	2	1916687
Available Mercury (Hg)	mg/kg	<0.1	0.1	1916687
Available Molybdenum (Mo)	mg/kg	<2	2	1916687
Available Nickel (Ni)	mg/kg	5	2	1916687
Available Rubidium (Rb)	mg/kg	5	2	1916687
Available Selenium (Se)	mg/kg	<2	2	1916687
Available Silver (Ag)	mg/kg	<0.5	0.5	1916687
Available Strontium (Sr)	mg/kg	9	5	1916687
Available Thallium (Tl)	mg/kg	<0.1	0.1	1916687
Available Tin (Sn)	mg/kg	<2	2	1916687
Available Uranium (U)	mg/kg	0.3	0.1	1916687
Available Vanadium (V)	mg/kg	18	2	1916687
Available Zinc (Zn)	mg/kg	13	5	1916687

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: A9A8516
Report Date: 2009/08/31

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ATLANTIC RBCA HYDROCARBONS (SOIL)

Maxxam ID		DL4871			DL4872		DL4873	DL4874		
Sampling Date		2009/08/14			2009/08/14		2009/08/14	2009/08/14		
	Units	**MW35D-SS8**	**RDL**	**QC Batch**	**MW34D-SS1**	**RDL**	**MW33D-SS3**	**MW33D-SS7**	**RDL**	**QC Batch**
Petroleum Hydrocarbons										
Benzene	mg/kg	<0.03	0.03	1917653	<0.1	0.1	<0.03	<0.03	0.03	1917653
Toluene	mg/kg	<0.03	0.03	1917653	<0.1	0.1	<0.03	<0.03	0.03	1917653
Ethylbenzene	mg/kg	<0.03	0.03	1917653	<0.1	0.1	<0.03	<0.03	0.03	1917653
Xylene (Total)	mg/kg	<0.05	0.05	1917653	<0.3	0.3	<0.05	<0.05	0.05	1917653
C6 - C10 (less BTEX)	mg/kg	<3	3	1917653	<10	10	<3	<3	3	1917653
>C10-C21 Hydrocarbons	mg/kg	<15	15	1919119	410	15	<15	<15	15	1918820
>C21-<C32 Hydrocarbons	mg/kg	<15	15	1919119	1100	15	<15	60	15	1918820
Modified TPH (Tier1)	mg/kg	<20	20	1915116	1600	20	<20	60	20	1915116
Surrogate Recovery (%)										
Isobutylbenzene - Extractable	%	88		1919119	102		97	104		1918820
Isobutylbenzene - Volatile	%	101		1917653	107 (1)		101	104		1917653
n-Dotriacontane - Extractable	%	87		1919119	100 (2)		112	108 (3)		1918820

POLYCHLORINATED BIPHENYLS BY GC-ECD (SOIL)

Maxxam ID		DL4874		
Sampling Date		2009/08/14		
	Units	**MW33D-SS7**	**RDL**	**QC Batch**
PCBs				
Total PCB	ug/g	<0.05	0.05	1916108
Surrogate Recovery (%)				
Decachlorobiphenyl	%	115		1916108

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Elevated VPH RDL(s) due to sample dilution.
(2) - One product in fuel oil range. No resemblance to petroleum products in lube oil range.
(3) - Lube oil fraction.

Maxxam Analytics International Corporation o/a Maxxam Analytics 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel:902-420-0203 Toll-free:800-565-7227 Fax:902-420-8612 www.maxxamanalytics.com

Maxxam Job #: A9A8516
Report Date: 2009/08/31

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
1916108	Decachlorobiphenyl	2009/08/26	91	30 - 130	115	30 - 130	116	%				
1916108	Total PCB	2009/08/26	100	70 - 130	124	70 - 130	<0.05	ug/g	NC	50		
1916687	Available Aluminum (Al)	2009/08/24	NC	75 - 125	95	75 - 125	<10	mg/kg			91	75 - 125
1916687	Available Antimony (Sb)	2009/08/24	85	75 - 125	103	75 - 125	<2	mg/kg				
1916687	Available Arsenic (As)	2009/08/24	NC	75 - 125	87	75 - 125	<2	mg/kg			117	75 - 125
1916687	Available Barium (Ba)	2009/08/24	NC	75 - 125	93	75 - 125	<5	mg/kg			109	75 - 125
1916687	Available Beryllium (Be)	2009/08/24	99	75 - 125	94	75 - 125	<2	mg/kg				
1916687	Available Bismuth (Bi)	2009/08/24	100	75 - 125	103	75 - 125	<2	mg/kg				
1916687	Available Boron (B)	2009/08/24	85	75 - 125	85	75 - 125	<5	mg/kg				
1916687	Available Cadmium (Cd)	2009/08/24	93	75 - 125	89	75 - 125	<0.3	mg/kg				
1916687	Available Chromium (Cr)	2009/08/24	NC	75 - 125	99	75 - 125	<2	mg/kg			91	75 - 125
1916687	Available Cobalt (Co)	2009/08/24	89	75 - 125	96	75 - 125	<1	mg/kg			101	75 - 125
1916687	Available Copper (Cu)	2009/08/24	NC	75 - 125	100	75 - 125	<2	mg/kg			97	75 - 125
1916687	Available Iron (Fe)	2009/08/24	NC	75 - 125	100	75 - 125	<50	mg/kg			94	75 - 125
1916687	Available Lead (Pb)	2009/08/24	NC	75 - 125	98	75 - 125	<0.5	mg/kg	5.9	35	106	75 - 125
1916687	Available Lithium (Li)	2009/08/24	NC	75 - 125	87	75 - 125	<2	mg/kg				
1916687	Available Manganese (Mn)	2009/08/24	NC	75 - 125	97	75 - 125	<2	mg/kg			108	75 - 125
1916687	Available Mercury (Hg)	2009/08/24	99	75 - 125	104	75 - 125	<0.1	mg/kg	NC	35		
1916687	Available Molybdenum (Mo)	2009/08/24	92	75 - 125	92	75 - 125	<2	mg/kg				
1916687	Available Nickel (Ni)	2009/08/24	NC	75 - 125	97	75 - 125	<2	mg/kg			101	75 - 125
1916687	Available Rubidium (Rb)	2009/08/24	90	75 - 125	91	75 - 125	<2	mg/kg				
1916687	Available Selenium (Se)	2009/08/24	77	75 - 125	86	75 - 125	<2	mg/kg				
1916687	Available Silver (Ag)	2009/08/24	103	75 - 125	105	75 - 125	<0.5	mg/kg				
1916687	Available Strontium (Sr)	2009/08/24	90	75 - 125	95	75 - 125	<5	mg/kg			90	75 - 125
1916687	Available Thallium (Tl)	2009/08/24	91	75 - 125	98	75 - 125	<0.1	mg/kg				
1916687	Available Tin (Sn)	2009/08/24	90	75 - 125	91	75 - 125	<2	mg/kg				
1916687	Available Uranium (U)	2009/08/24	93	75 - 125	101	75 - 125	<0.1	mg/kg				
1916687	Available Vanadium (V)	2009/08/24	NC	75 - 125	102	75 - 125	<2	mg/kg			108	75 - 125
1916687	Available Zinc (Zn)	2009/08/24	89	75 - 125	84	75 - 125	<5	mg/kg			102	75 - 125
1917653	Isobutylbenzene - Volatile	2009/08/25	92	60 - 140	101	60 - 140	103	%				
1917653	Benzene	2009/08/26	83	60 - 140	91	60 - 140	<0.03	mg/kg	NC	50		
1917653	Toluene	2009/08/26	112	60 - 140	94	60 - 140	<0.03	mg/kg	NC	50		
1917653	Ethylbenzene	2009/08/26	107	60 - 140	91	60 - 140	<0.03	mg/kg	NC	50		
1917653	Xylene (Total)	2009/08/26	114	60 - 140	90	60 - 140	<0.05	mg/kg	NC	50		
1917653	C6 - C10 (less BTEX)	2009/08/26					<3	mg/kg	NC	50		
1918820	Isobutylbenzene - Extractable	2009/08/26	95	30 - 130	101	30 - 130	93	%				
1918820	n-Dotriacontane - Extractable	2009/08/26	89	30 - 130	97	30 - 130	88	%				
1918820	>C10-C21 Hydrocarbons	2009/08/26	94	30 - 130	99	30 - 130	<15	mg/kg	NC	50		
1918820	>C21-<C32 Hydrocarbons	2009/08/26	NC	30 - 130	112	30 - 130	<15	mg/kg	30.4	50		

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Maxxam Job #: A9A8516
Report Date: 2009/08/31

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
1919119	Isobutylbenzene - Extractable	2009/08/26	95	30 - 130	102	30 - 130	98	%				
1919119	n-Dotriacontane - Extractable	2009/08/26	98	30 - 130	106	30 - 130	98	%				
1919119	>C10-C21 Hydrocarbons	2009/08/26	86	30 - 130	101	30 - 130	16, RDL=15	mg/kg	NC	50		
1919119	>C21-<C32 Hydrocarbons	2009/08/26	101	30 - 130	114	30 - 130	<15	mg/kg	NC	50		

N/A = Not Applicable
RDL = Reportable Detection Limit
RPD = Relative Percent Difference
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
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.
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

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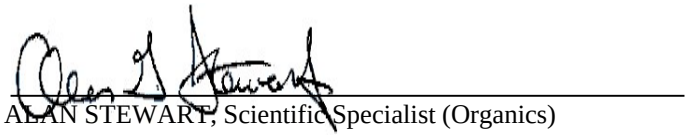
Validation Signature Page

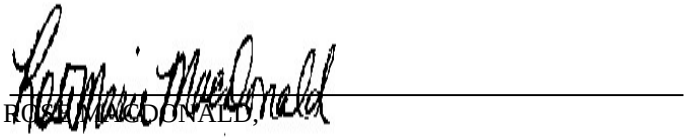
Maxxam Job #: A9A8516

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

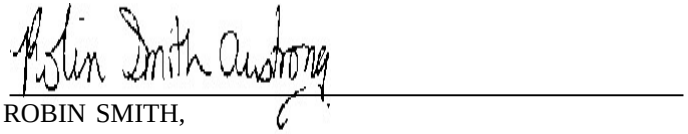


ALAN STEWART, Scientific Specialist (Organics)

ERIC DEARMAN, Scientific Specialist



ROBIN MACDONALD,



ROBIN SMITH,

==========

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. SCC and CALA have approved this reporting process and electronic report format.

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WIF 405 Temp K

Maxxam Analytics Inc

49-55 Elizabeth Avenue, Suite 101A, St. John's, NL A1A 1W9 Tel: 709-754-0203 Fax: 709-754-8612 Toll Free: 1-888-492-7227
www.maxxamanalytics.com

CHAIN OF CUSTODY RECORD

18110

INVOICE INFORMATION:
Company Name: Jacques Whitford.
Contact Name:
Address:
Email:
Ph: Fax:

REPORT INFORMATION (if differs from invoice):
Company Name: Jacques Whitford
Contact Name: Jim Slade/Carolin Moore
Address: 607 Torbay Rd. ST. John's, NL.
Email:
Ph: 576 1458 Fax:

PO #:
Project #: 1044857 / 29100
Proj. Name:
Location: NWP.
Quotation#:
Submitted By:
Site Task #:

MAXXAM JOB NUMBER: A9A8516
ENTERED BY, Init: mc
Client Code: 10951

HEAT TREAT
required prior to disposal
(Attach this label to any sub-samples)

HEAT TREAT

*Specify Matrix: Surface/Salt/Ground/Tapwater/Sewage/Effluent/Seawater Potable/NonPotable/Tissue/Soil/Sludge/Metal

Sample Identification	Matrix*	Date/Time Sampled	# & type of bottles	Field Filtered & Preserved	Lab Filtration Required	RCAp-30 Choose Total or Diss Metals	RCAp-MS Choose Total or Diss Metals	Metals Water: Total Digest (Default Method)	Metals Water: Dissolved	Mercury: Mercury is not included in soil or water metals scan	Metals Soil: Available Metals Digest Default Method (HNO_3/H_2O_2)	Metals Soil: Total Digest - for sediments ($HNO_3/HF/HClO_4$)	Metals Soil: Tin (required for CCME soils)	Metals Soil: Selenium (low level) Req'd for CCME Residential, Parklands, Agricultural	Metals Soil: Hot Water soluble Boron (required for CCME Agricultural)	TPH MUST (BTEX, C_6-C_{50})	Soil (Potable), TPH MUST, NS Fuel Oil Spill Policy Low Level BTEX & C_6-C_{50}	NB Potable Water BTEX, VPH, Low Level TEH	TPH Fractionation	PAH's	PCB's	VOC's EPA 624,8260	Other Analysis or Comments/Hazards
MW 35D-558	Soil	Aug 14/09	DLLB			71										X						
MW 34D-551	"	"				72										X						
MW 33D-553	"	"				73										X						
MW 33D-557	"	"				74					X					X					X	

SHIPPED FROM
-08- 20 2009
MAXXAM-ST. JOHN'S

2009 AUG 21 AM 10:36

DUE DATE:
STANDARD: X
RUSH Due Date:
For extra cost rush, specify Due Date. Rush analysis must be scheduled prior to sample submission.
Client will be contacted if Rush date cannot be met.

RELINQUISHED BY: (Signature/Print)	RECEIVED BY: (Signature/Print)	DATE / TIME	PURPOSE OF CHANGE / REMARKS	TEMP & Maxxam Receipt
	J. Dawson	Aug 19/09 2009/09/19 4:55 PM	NON-ROUTINE SUBMISSION	MUST NOT DONE 14°C 5,8,8

INTEGRITY Init: Yes / No

KEENYROCOC St John's 05/05

Maxxam Analytics

Fundamental Laboratory Acceptance Guide (FLAG)

Report to Client: Jacques Whitford
Report to Attention: Jim Slade
Client Proj#: 1044857/29100
COC#: 18110 (Include photocopy of COC if no COC #)
Date Received: Aug 21/09
Fax#: 709-576-2126

Temp1	Temp2	Temp3
5 C	8 C	8 C

Report Comment

All samples ~~over 10C~~ 3° except MW 33D-557 have headspace. We will proceed unless told otherwise.

~~Also the TPH~~

_____ Analysis will proceed as requested.
_____ Analysis will not proceed
_____ Samples currently on hold, please call us ASAP at 1-902-420-0203 (ext 254)
_____ For clarification purposes, call your maxxam project manager _____

Supervisor-Login/CS Manager Check : ____
or
Supervisor / managers not available
copy left for Supervisor in bin:

Bolded Flags Non-National/Non-Tier1 PM ____
National/Tier1 client Called PM MH
or
Project manager/backup not available
copy of FLAG left in PM's bin :

___ 1. Custody Seal NOT intact
___ 2. Temperature >10 C
___ 2.a) Unless received same day as sampling, Organic samples should be received cold.
___ 2.b) Coliform received between 10C-15C & > 1hr old
___ 2.c) Coliform received > 15C & more than 1hr old
___ 13. Samples received past hold time
___ 15. Incorrect preservation or headspace
___ 15.c) in all 40mL vials
___ 15.d) in 60mL bottle
___ 15.e) in 250mL bottle (no 60mL bottle received)
___ 18a. Sample Volume below minimum for requested Test
___ 19. Sample Requiring Filtration Preserved
___ 22. Water Sample Received Frozen

___ 3. Broken Bottle in Transit
___ 3.a) Insufficient packing
___ 3.b) cooler/box damaged
___ 4. No Chain of Custody (CoC)
___ 5. Chain of Custody Info not complete
___ 6. Chain of Custody not signed/dated
___ 7. Non Current Chain of Custody (CoC)
___ 8. Bottles/Samples listed on CoC but not received (CS initials _____ Login Manager Initials_____)
___ 9. Bottles/Samples received but not listed on CoC
___ 10. Analysis Requirements absent/unclear
___ 11. Labelling issue (missing/incorrect)
___ 12. Samples received > 5 days after sampling
___ 14. Wrong Bottles used
___ 15. Incorrect preservation or headspace
___ 15.a) in 1 of the 40mL vials
___ 15.b) in 2 or more of the 40mL vials
___ 16. Insufficient # bottles (with no flag)
___ 17. Incorrect Task Order #
___ 18b. Insufficient Sample Volume for requested Test
___ 20. Cap Missing or Broken
___ 21. Sample Container Received Empty
___ 23. NA
___ 24. DWIS Reg 170 Requir. Need Confirmation
___ 25. DWIS Sampling Date /Time Missing
___ 26. DWIS Sample Type Not Provided
___ 27. DWIS Waterworks Name or Number Missing
___ 28. Special Analysis Required
___ 30. No Quote or incorrect Quote
___ 31. Other

Maxxam Analytics International Corporation o/a Maxxam Analytics 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel:902-420-0203 Toll-free:800-565-7227 Fax:902-420-8612 www.maxxamanalytics.com

Your P.O. #: NSD016400
Your Project #: 1044857/Z9100
Site: NORTHWEST POINT
Your C.O.C. #: 18133

Attention: JIM SLADE
Jacques Whitford Limited
607 Torbay Rd
St. John's, NL
A1A 4Y6

Report Date: 2009/09/30

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A9B5518
Received: 2009/09/03, 9:46

Sample Matrix: TISSUE
Samples Received: 19

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
PCBs in tissue by GC/ECD	19	2009/09/15	2009/09/30	ATL SOP 00110 R3	Based on EPA8082

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
* Results relate only to the items tested.

Encryption Key

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

MICHELLE HILL, Project Manager
Email: Michelle.Hill.Reports@maxxamanalytics.com
Phone# (902) 420-0203

==========

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. SCC and CALA have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 1

This document is in electronic format, hard copy is available on request.

Maxxam Job #: A9B5518
Report Date: 2009/09/30

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

POLYCHLORINATED BIPHENYLS BY GC-ECD (TISSUE)

Maxxam ID		DP0648	DP0666	DP0667	DP0668	DP0669	DP0670	DP0671	DP0671	DP0672	DP0673		
	Units	**09-BERRY 1**	**09-BERRY 2**	**09-BERRY 3**	**09-BERRY 4**	**09-BERRY 5**	**09-BERRY 6**	**09-BERRY 7**	**09-BERRY 7 Lab-Dup**	**09-BERRY 8**	**09-BERRY 9**	**RDL**	**QC Batch**
PCBs													
Total PCB	ug/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	1938690
Surrogate Recovery (%)													
2,4,5,6-Tetrachloro-m-xylene	%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		1938690
Decachlorobiphenyl	%	105	84	107	86	74	72	57(1)	69(1)	73	74		1938690

Maxxam ID		DP0674	DP0675	DP0676	DP0677	DP0678	DP0679	DP0680	DP0681	DP0682	DP0683		
	Units	**09-BERRY 10**	**09-BERRY 11**	**09-BERRY 12**	**09-BERRY 13**	**09-BERRY 14**	**09-BERRY 15**	**09-BERRY 16**	**09-BERRY 17**	**09-BERRY 18**	**09-BERRY 19**	**RDL**	**QC Batch**
PCBs													
Total PCB	ug/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	1938690
Surrogate Recovery (%)													
2,4,5,6-Tetrachloro-m-xylene	%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		1938690
Decachlorobiphenyl	%	107	109	105	73	75	90	104	86	101	116		1938690

N/A = Not Applicable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - PCB surrogate not within acceptance limits. Analysis was repeated with similar results.

Maxxam Analytics International Corporation o/a Maxxam Analytics 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel:902-420-0203 Toll-free:800-565-7227 Fax:902-420-8612 www.maxxamanalytics.com

Maxxam Job #: A9B5518
Report Date: 2009/09/30

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
1938690	2,4,5,6-Tetrachloro-m-xylene	2009/09/30	NA	30 - 130	NA	30 - 130	NA	%		
1938690	Decachlorobiphenyl	2009/09/30	37(1)	30 - 130	104	30 - 130	125	%		
1938690	Total PCB	2009/09/30	80	30 - 130	88	30 - 130	<0.05	ug/g	NC	50

N/A = Not Applicable
RPD = Relative Percent Difference
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
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.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.
(1) - PCB surrogate not within acceptance limits. Analysis was repeated with similar results.

Maxxam Analytics International Corporation o/a Maxxam Analytics 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel:902-420-0203 Toll-free:800-565-7227 Fax:902-420-8612 www.maxxamanalytics.com

Validation Signature Page

Maxxam Job #: A9B5518

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

ROBIN SMITH,

==========

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Maxxam Analytics Inc

49-55 Elizabeth Avenue, Suite 101A, St. John's, NL A1A 1W9 Tel: 709-754-0203 Fax: 709-754-8612 Toll Free: 1-888-492-7227
www.maxxamanalytics.com

CHAIN OF CUSTODY RECORD

18133

INVOICE INFORMATION:

Company Name:

Contact Name:

Address:

Email:

Ph: Fax:

REPORT INFORMATION (if differs from invoice):

Company Name: JW - Stantec

Contact Name: JIN SLADE

Address:

Email: MICHELLE SHEPPARD

Ph: Fax:

PO #:

Project #: 1044857-29100

Proj. Name:

Location: Northwest Point

Quotation#:

Submitted By:

Site Task #:

MAXXAM JOB NUMBER: A9B5518

ENTERED BY, Init: KL

Client Code: 10953

Specify Guideline Requirements:

*Specify Matrix: Surface/Salt/Ground/Tapwater/Sewage/Effluent/Seawater Potable/NonPotable/Tissue/Soil/Sludge/Metal

DUE DATE:

STANDARD:

RUSH Due Date:

For extra cost rush, specify Due Date. Rush analysis must be scheduled prior to sample submission.

Client will be contacted if Rush date cannot be met.

Sample Identification	Matrix*	Date/Time Sampled	# & type of bottles	Field Filtered & Preserved	Lab Filtration Required	RCAp-30 Choose Total or Diss Metals	RCAp-MS Choose Total or Diss Metals	Metals Water: Total Digest (Default Method)	Metals Water: Dissolved	Mercury: Mercury is not included in soil or water metals scan	Metals Soil: Available Metals Digest Default Method (HNO₃/H₂O)	Metals Soil: Total Digest - for sediments (HNO₃/HF/HClO₄)	Metals Soil: Tin (required for CCME soils)	Metals Soil: Selenium (low level) Req'd for CCME Residential, Parklands, Agricultural	Metals Soil: Hot Water soluble Boron (required for CCME Agricultural)	TPH MUST (BTEX, C6-C32)	Soil (Potable), TPH MUST, NS Fuel Oil Spill Policy Low Level BTEX & C6-C32	NB Potable Water BTEX, VPH, Low Level TEH	TPH Fractionation	PAH's	PCB's	VOC's EPA 624,8260	Other Analysis or Comments/Hazards
09-BERRY1	DP0648		1x bag																		X		
09-BERRY2		66																			X		
09-BERRY3		67																			X		
09-BERRY4		68																			X		
09-BERRY5		69																			X		
09-BERRY6		70																			X		
09-BERRY7		71																			X		
09-BERRY8		72																			X		
09-BERRY9		73																			X		
09-BERRY10		74																			X		

SHIPPED FROM -09-09-02 2009 MAXXAM-ST. JOHN'S

2009 SEP 3 AM 9:46

RELINQUISHED BY: (Signature/Print)	RECEIVED BY: (Signature/Print)	DATE / TIME	PURPOSE OF CHANGE / REMARKS	TEMP @ Maxxam Receipt
M. Sheppard	M Dalton	Sept 2/09 2:45		2 2 3
				INTEGRITY Init: Yes No

Maxxam Analytics International Corporation o/a Maxxam Analytics 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel:902-420-0203 Toll-free:800-565-7227 Fax:902-420-8612 www.maxxamanalytics.com

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49-55 Elizabeth Avenue, Suite 101A, St. John's, NL A1A 1W9 Tel: 709-754-0203 Fax: 709-754-8612 Toll Free: 1-888-492-7227
www.maxxamanalytics.com

CHAIN OF CUSTODY RECORD

18134

INVOICE INFORMATION:
Company Name:
Contact Name:
Address:
Email:
Ph: Fax:

REPORT INFORMATION (if differs from invoice):
Company Name: JW - STANTEC
Contact Name: JIM SLADE
Address:
Email: MICHELLE.SHEPPARD
Ph: Fax:

PO #:
Project #: 1044857-Z9100
Proj. Name:
Location: Northwest Point
Quotation#:
Submitted By:
Site Task #:

MAXXAM JOB NUMBER:
ENTERED BY, Init:
Client Code:

Specify Guideline Requirements:

*Specify Matrix: Surface/Salt/Ground/Tapwater/Sewage/Effluent/Seawater Potable/NonPotable/Tissue/Soil/Sludge/Metal

Sample Identification	Matrix*	Date/Time Sampled	# & type of bottles	Field Filtered & Preserved	Lab Filtration Required	RCAp-30 Choose Total or Diss Metals	RCAp-MS Choose Total or Diss Metals	Metals Water: Total Digest (Default Method)	Metals Water: Dissolved	Mercury: Mercury is not included in soil or water metals scan	Metals Soil: Available Metals Digest Default Method (HNO3/H2O2)	Metals Soil: Total Digest - for sediments (HNO3/HF/HCLO4)	Metals Soil: Tin (required for CCME soils)	Metals Soil: Selenium (low level) Req'd for CCME Residential, Parklands, Agricultural	Metals Soil: Hot Water soluble Boron (required for CCME Agricultural)	TPH MUST (BTEX, C6-C30)	Soil (Potable), TPH MUST, NS Fuel Oil Spill Policy Low Level BTEX & C6-C50	NB Potable Water BTEX, VPH, Low Level TEH	TPH Fractionation	PAH's	PCB's	VOC's EPA 624,8260	Other Analysis or Comments/Hazards
09-BERRY11	DP06	75	1x Vas																		X		
09-BERRY12		76																			X		
09-BERRY13		77																			X		
09-BERRY14		78																			X		
09-BERRY15		79																			X		
09-BERRY16		80																			X		
09-BERRY17		81																			X		
09-BERRY18		82																			X		
09-BERRY19		83																			X		

SHIPPED FROM
-00- 0 2 2009
MAXXAM-ST. JOHN'S
2009 SEP 3 AM 9:45

DUE DATE:
STANDARD:
RUSH Due Date:
For extra cost rush, specify Due Date. Rush analysis must be scheduled prior to sample submission.
Client will be contacted if Rush date cannot be met.

RELINQUISHED BY: (Signature/Print)	RECEIVED BY: (Signature/Print)	DATE / TIME	PURPOSE OF CHANGE / REMARKS	TEMP @ Maxxam Receipt
M Sheppard	m Dalton	Sept 2/09 2:45		

INTEGRITY Init: Yes No

Your P.O. #: NSD016400
Your Project #: 1044857/Z9100
Site: NORTHWEST POINT
Your C.O.C. #: 18130

Attention: JIM SLADE
Jacques Whitford Limited
607 Torbay Rd
St. John's, NL
A1A 4Y6

Report Date: 2009/09/28

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A9B5537
Received: 2009/09/03, 9:46

Sample Matrix: Soil
Samples Received: 24

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
PCBs in soil by GC/ECD	24	2009/09/16	2009/09/28	ATL SOP 00106 R3	Based on EPA8082

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
* Results relate only to the items tested.

Encryption Key

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

MICHELLE HILL, Project Manager
Email: Michelle.Hill.Reports@maxxamanalytics.com
Phone# (902) 420-0203

==========

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For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 1

Maxxam Job #: A9B5537
Report Date: 2009/09/28

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

POLYCHLORINATED BIPHENYLS BY GC-ECD (SOIL)

Maxxam ID		DP0749	DP0749	DP0769	DP0770	DP0771	DP0772	DP0773	DP0774	DP0775	DP0776		
Sampling Date		2009/09/02	2009/09/02	2009/09/02	2009/09/02	2009/09/02	2009/09/02	2009/09/02	2009/09/02	2009/09/02	2009/09/02		
	Units	**09-VEG 1**	**09-VEG 1 Lab-Dup**	**09-VEG 2**	**09-VEG 3**	**09-VEG 4**	**09-VEG 5**	**09-VEG 6**	**09-VEG 7**	**09-VEG 8**	**09-VEG 9**	**RDL**	**QC Batch**
PCBs													
Total PCB	ug/g	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.3	1940679
Surrogate Recovery (%)													
Decachlorobiphenyl	%	71(1)	71(1)	73(1)	72(1)	76(1)	71(1)	71(1)	71(1)	71(1)	71(1)		1940679

Maxxam ID		DP0777	DP0778	DP0779		DP0780	DP0780	DP0782	DP0783	DP0784	DP0786		
Sampling Date		2009/09/02	2009/09/02	2009/09/02		2009/09/02	2009/09/02	2009/09/02	2009/09/02	2009/09/02	2009/09/02		
	Units	**09-VEG 10**	**09-VEG 11**	**09-VEG 12**	**QC Batch**	**09-VEG 13**	**09-VEG 13 Lab-Dup**	**09-VEG 14**	**09-VEG 15**	**09-VEG 16**	**09-VEG 17**	**RDL**	**QC Batch**
PCBs													
Total PCB	ug/g	<0.3	<0.3	<0.3	1940679	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.3	1940715
Surrogate Recovery (%)													
Decachlorobiphenyl	%	70(1)	72(1)	72(1)	1940679	76(1)	75(1)	73(1)	79(1)	75(1)	74(1)		1940715

Maxxam ID		DP0787	DP0788	DP0789	DP0790	DP0791	DP0792	DP0793		
Sampling Date		2009/09/02	2009/09/02	2009/09/02	2009/09/02	2009/09/02	2009/09/02	2009/09/02		
	Units	**09-VEG 18**	**09-VEG 19**	**09-VEG 20**	**09-VEG 21**	**09-VEG 22**	**09-VEG 23**	**09-VEG 24**	**RDL**	**QC Batch**
PCBs										
Total PCB	ug/g	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.3	1940715
Surrogate Recovery (%)										
Decachlorobiphenyl	%	76(1)	74(1)	74(1)	74(1)	72(1)	72(1)	72(1)		1940715

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Elevated PCB RDL due to matrix / co-extractive interference.

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Maxxam Job #: A9B5537
Report Date: 2009/09/28

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
1940679	Decachlorobiphenyl	2009/09/28	74	30 - 130	72	30 - 130	83	%		
1940679	Total PCB	2009/09/28	93	70 - 130	101	70 - 130	<0.05	ug/g	NC	50
1940715	Decachlorobiphenyl	2009/09/28	74	30 - 130	73	30 - 130	72	%		
1940715	Total PCB	2009/09/28	97	70 - 130	95	70 - 130	<0.05	ug/g	NC	50

N/A = Not Applicable
RPD = Relative Percent Difference
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
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.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

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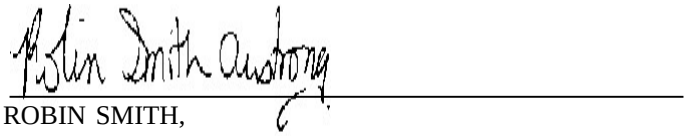
Validation Signature Page

Maxxam Job #: A9B5537

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



ROBIN SMITH,

==========

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Maxxam Analytics Inc

WJF

49-55 Elizabeth Avenue, Suite 101A, St. John's, NL A1A 1W9 Tel: 709-754-0203 Fax: 709-754-8612 Toll Free: 1-888-492-7227
www.maxxamanalytics.com

CHAIN OF CUSTODY RECORD

18130

INVOICE INFORMATION:
Company Name:
Contact Name:
Address:
Email:
Ph: Fax:

REPORT INFORMATION (if differs from invoice):
Company Name: JW - STANTEC
Contact Name: JIM SLADE
Address:
Email: MICHELLE SHEPPARD
Ph: Fax:

PO #:
Project #: 1044857-29100
Proj. Name:
Location: Northwest Point
Quotation#:
Submitted By:
Site Task #:

MAXXAM JOB NUMBER: A9B5537
ENTERED BY, Init: KG
Client Code: 10953

Specify Guideline Requirements:

*Specify Matrix: Surface/Salt/Ground/Tapwater/Sewage/Effluent/Seawater Potable/NonPotable/Tissue/Soil/Sludge/Metal

Sample Identification	Matrix*	Date/Time Sampled	# & type of bottles	Field Filtered & Preserved	Lab Filtration Required	RCAp-30 Choose Total or Diss Metals	RCAp-MS Choose Total or Diss Metals	Metals Water: Total Digest (Default Method)	Metals Water: Dissolved	Mercury: Mercury is not included in soil or water metals scan	Metals Soil: Available Metals Digest Default Method (HNO3/H2O2)	Metals Soil: Total Digest - for sediments (HNO3/HF/HClO4)	Metals Soil: Tin (required for CCME soils)	Metals Soil: Selenium (low level) Req'd for CCME Residential, Parkland, Agricultural	Metals Soil: Hot Water soluble Boron (required for CCME Agricultural)	TPH MUST (BTEX, C6-C50)	Soil (Potable), TPH MUST, NS Fuel Oil Spill Policy Low Level BTEX & C6-C50	NB Potable Water BTEX, VPH, Low Level TEH	TPH Fractionation	PAH's	PCB's	VOC's EPA 624,8260	Other Analysis or Comments/Hazards
09-VEG1			1x bag					DP		0749											X		
09-VEG2										69											X		
09-VEG3										70											X		
09-VEG4										71											X		
09-VEG5										72											X		SHIPPED FROM
09-VEG6										73											X		AUG 02 2009
09-VEG7										74											X		
09-VEG8			↓							75											X		ST. JOHN'S
09-VEG9										76											X		
09-VEG10										77											X		

DUE DATE:
STANDARD: ☐
RUSH Due Date:
For extra cost rush, specify Due Date. Rush analysis must be scheduled prior to sample submission.
Client will be contacted if Rush date cannot be met.

RELINQUISHED BY: (Signature/Print)	RECEIVED BY: (Signature/Print)	DATE / TIME	PURPOSE OF CHANGE / REMARKS	TEMP @ Maxxam Receipt
M. Sheppard	m Dalton	Sep 2/09 2:45		C2 C2 3
				INTEGRITY Init:

RECEIVED 2 AM 9:46

CHAIN OF CUSTODY RECORD

18131

Maxxam Analytics Inc
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www.maxxamanalytics.com

INVOICE INFORMATION:	REPORT INFORMATION (if differs from invoice):		MAXXAM JOB NUMBER:
Company Name:	Company Name: JW - STANTEC	PO #:	
Contact Name:	Contact Name: JIM SLADE	Project #: 1044857-29100	ENTERED BY, Init:
Address:	Address:	Proj. Name:	
Email:	Email: MICHELLE SHEPPARD	Location: Northwest Point	
Ph: Fax:	Ph: Fax:	Quotation#:	
		Submitted By:	
		Site Task #:	Client Code:

Specify Guideline Requirements:

*Specify Matrix: Surface/Salt/Ground/Tapwater/Sewage/Effluent/Seawater
Potable/NonPotable/Tissue/Soil/Sludge/Metal

DUE DATE:

STANDARD: ☐

RUSH Due Date: _____

For extra cost rush, specify Due Date. Rush analysis must be scheduled prior to sample submission.

Client will be contacted if Rush date cannot be met.

Sample Identification	Matrix*	Date/Time Sampled	# & type of bottles	Field Filtered & Preserved	Lab Filtration Required	RCAp-30 Choose Total or Diss Metals	RCAp-MS Choose Total or Diss Metals	Metals Water: Total Digest (Default Method)	Metals Water: Dissolved	Mercury: Mercury is not included in soil or water metals scan	Metals Soil: Available Metals Digest Default Method (HNO3/H2O2)	Metals Soil: Total Digest - for sediments (HNO3/HF/HClO4)	Metals Soil: Tin (required for CCME soils)	Metals Soil: Selenium (low level) Req'd for CCME Residential, Parklands, Agricultural	Metals Soil: Hot Water soluble Boron (required for CCME Agricultural)	TPH MUST (BTEX, C6-C50)	Soil (Potable), TPH MUST, NS Fuel Oil Spill Policy Low Level BTEX & C6-C50	NB Potable Water BTEX, VPH, Low Level TEH	TPH Fractionation	PAH's	PCB's	VOC's EPA 624,8260	Other Analysis or Comments/Hazards
09-VEG11			1x bag					DP		078											X		
09-VEG12										79											X		
09-VEG13										80											X		
09-VEG14										82											X		SHIPPED FROM
09-VEG15										83											X		-09-02 2009
09-VEG16										84											X		MAXXAM JOB #
09-VEG17										86											X		
09-VEG18										87											X		2009 SEP 3 AM 9:46
09-VEG19										88											X		
09-VEG20										89											X		

RELINQUISHED BY: (Signature/Print)	RECEIVED BY: (Signature/Print)	DATE / TIME	PURPOSE OF CHANGE / REMARKS	TEMP @ Maxxam Receipt
M. Sheppard	m Dalton	Sept 2/09 2:45		
				INTEGRITY Init: _____ Yes No

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www.maxxamanalytics.com

CHAIN OF CUSTODY RECORD

18132

INVOICE INFORMATION:
Company Name:
Contact Name:
Address:
Email:
Ph: Fax:

REPORT INFORMATION (if differs from invoice):
Company Name: JW - STANTEC
Contact Name: JIM SLADE
Address:
Email: MICHELLE SHEPPARD
Ph: Fax:

PO #:
Project #: 104485Z-Z9100
Proj. Name:
Location: Northwest Point
Quotation#:
Submitted By:
Site Task #:

MAXXAM JOB NUMBER:
ENTERED BY, Init:
Client Code:

Specify Guideline Requirements:

*Specify Matrix: Surface/Salt/Ground/Tapwater/Sewage/Effluent/Seawater Potable/NonPotable/Tissue/Soil/Sludge/Metal

Sample Identification	Matrix*	Date/Time Sampled	# & type of bottles	Field Filtered & Preserved	Lab Filtration Required	RCAp-30 Choose Total or Diss Metals	RCAp-MS Choose Total or Diss Metals	Metals Water: Total Digest (Default Method)	Metals Water: Dissolved	Metals Soil: Mercury Is not included in soil or water metals scan	Metals Soil: Available Metals Digest Default Method (HNO_3/H_2O_2)	Metals Soil: Total Digest - for sediments ($HNO_3/HF/HClO_4$)	Metals Soil: Tin (required for CCME soils)	Metals Soil: Selenium (low level) Req'd for CCME Residential, Parklands, Agricultural	Metals Soil: Hot Water soluble Boron (required for CCME Agricultural)	TPH MUST (BTEX, C_6-C_{10})	Soil (Potable), TPH MUST, NS Fuel Oil Spill Policy Low Level BTEX & C_6-C_{10}	NB Potable Water BTEX, VPH, Low Level TEH	TPH Fractionation	PAH's	PCB's	VOC's EPA 624,8260	Other Analysis or Comments/Hazards
09-VEG21			1x bag			DP		0790													X		
09-VEG22			↓						91												X		
09-VEG23			↓						92												X		
09-VEG24									93												X		

SHIPPED FROM
2009 SEP 3 AM 9:46

RELINQUISHED BY: (Signature/Print)	RECEIVED BY: (Signature/Print)	DATE / TIME	PURPOSE OF CHANGE / REMARKS	TEMP @ Maxxam Receipt
M. Sheppard	M Dalton	Sept 2/09		
				INTEGRITY Init:

Your P.O. #: NSD016400
Your Project #: 1044857/Z9100
Site: NORTHWEST POINT
Your C.O.C. #: 18136

Attention: JIM SLADE
Jacques Whitford Limited
607 Torbay Rd
St. John's, NL
A1A 4Y6

Report Date: 2009/10/02

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A9B6857
Received: 2009/09/04, 9:17

Sample Matrix: TISSUE
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Lipids (Crude Fat)	3	N/A	2009/09/23		AOAC 948.16
Mercury in biota	3	N/A	2009/09/23	ATL SOP-00026 R5	Based on EPA245.6
Metals Tissue MS - Nitric	3	N/A	2009/09/25	ATL SOP 00024 R4	Based on EPA6020A
PCBs in tissue by GC/ECD	3	2009/09/15	2009/09/30	ATL SOP 00110 R3	Based on EPA8082

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
* Results relate only to the items tested.

Encryption Key

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

MICHELLE HILL, Project Manager
Email: Michelle.Hill.Reports@maxxamanalytics.com
Phone# (902) 420-0203

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For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 1

Maxxam Job #: A9B6857
Report Date: 2009/10/02

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

RESULTS OF ANALYSES OF TISSUE

Maxxam ID		DP8230	DP8242	DP8245		
	Units	**SM1**	**SM2**	**SM3**	**RDL**	**QC Batch**
Inorganics						
Crude Fat	%	4.5	5.5	3.0	0.5	1949066

MERCURY BY COLD VAPOUR AA (TISSUE)

Maxxam ID		DP8230	DP8242	DP8245		
	Units	**SM1**	**SM2**	**SM3**	**RDL**	**QC Batch**
Metals						
Mercury (Hg)	mg/kg	<0.1	<0.1	<0.1	0.1	1947772

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: A9B6857
Report Date: 2009/10/02

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

ELEMENTS BY ICP/MS (TISSUE)

Maxxam ID		DP8230	DP8242	DP8245		
	Units	**SM1**	**SM2**	**SM3**	**RDL**	**QC Batch**
Metals						
Aluminum (Al)	mg/kg	3.3	8.6	2.7	2.5	1952237
Antimony (Sb)	mg/kg	<0.50	<0.50	<0.50	0.50	1952237
Arsenic (As)	mg/kg	<0.50	<0.50	<0.50	0.50	1952237
Barium (Ba)	mg/kg	11.5	5.2	3.0	1.5	1952237
Beryllium (Be)	mg/kg	<0.50	<0.50	<0.50	0.50	1952237
Boron (B)	mg/kg	<1.5	<1.5	<1.5	1.5	1952237
Cadmium (Cd)	mg/kg	<0.050	<0.050	<0.050	0.050	1952237
Chromium (Cr)	mg/kg	<0.50	<0.50	<0.50	0.50	1952237
Cobalt (Co)	mg/kg	<0.20	<0.20	0.20	0.20	1952237
Copper (Cu)	mg/kg	4.05	4.23	2.46	0.50	1952237
Iron (Fe)	mg/kg	73	90	60	15	1952237
Lead (Pb)	mg/kg	<0.18	<0.18	<0.18	0.18	1952237
Lithium (Li)	mg/kg	<0.50	<0.50	<0.50	0.50	1952237
Manganese (Mn)	mg/kg	8.98	15.4	27.8	0.50	1952237
Molybdenum (Mo)	mg/kg	<0.50	<0.50	<0.50	0.50	1952237
Nickel (Ni)	mg/kg	<0.50	<0.50	<0.50	0.50	1952237
Selenium (Se)	mg/kg	<0.50	<0.50	<0.50	0.50	1952237
Silver (Ag)	mg/kg	<0.12	<0.12	<0.12	0.12	1952237
Strontium (Sr)	mg/kg	7.7	15.1	13.6	1.5	1952237
Thallium (Tl)	mg/kg	<0.020	<0.020	<0.020	0.020	1952237
Tin (Sn)	mg/kg	<0.50	<0.50	<0.50	0.50	1952237
Uranium (U)	mg/kg	<0.020	<0.020	<0.020	0.020	1952237
Vanadium (V)	mg/kg	<0.50	<0.50	<0.50	0.50	1952237
Zinc (Zn)	mg/kg	23.9	28.8	21.9	1.5	1952237

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: A9B6857
Report Date: 2009/10/02

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

POLYCHLORINATED BIPHENYLS BY GC-ECD (TISSUE)

Maxxam ID		DP8230	DP8242	DP8245		
	Units	**SM1**	**SM2**	**SM3**	**RDL**	**QC Batch**
PCBs						
Total PCB	ug/g	<0.05	<0.05	<0.05	0.05	1938694
Surrogate Recovery (%)						
2,4,5,6-Tetrachloro-m-xylene	%	NA	NA	NA		1938694
Decachlorobiphenyl	%	77	71	71		1938694

N/A = Not Applicable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Analytics International Corporation o/a Maxxam Analytics 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel:902-420-0203 Toll-free:800-565-7227 Fax:902-420-8612 www.maxxamanalytics.com

Maxxam Job #: A9B6857
Report Date: 2009/10/02

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
1938694	2,4,5,6-Tetrachloro-m-xylene	2009/09/30	NA	30 - 130	NA	30 - 130	NA	%				
1938694	Decachlorobiphenyl	2009/09/30	82	30 - 130	119	30 - 130	101	%				
1938694	Total PCB	2009/10/02	92	30 - 130	107	30 - 130	<0.05	ug/g	NC	50		
1947772	Mercury (Hg)	2009/09/23	75	75 - 125	97	75 - 125	<0.1	mg/kg	NC	25	90	75 - 125
1949066	Crude Fat	2009/09/23					<0.5	%			93	80 - 120
1952237	Aluminum (Al)	2009/09/25	NC	75 - 125	112	75 - 125	<2.5	mg/kg	NC	25		
1952237	Antimony (Sb)	2009/09/25	85	75 - 125	91	75 - 125	<0.50	mg/kg	NC	25		
1952237	Arsenic (As)	2009/09/25	105	75 - 125	93	75 - 125	<0.50	mg/kg	NC	25	92	75 - 125
1952237	Barium (Ba)	2009/09/25	NC	75 - 125	98	75 - 125	<1.5	mg/kg	NC	25		
1952237	Beryllium (Be)	2009/09/25	96	75 - 125	99	75 - 125	<0.50	mg/kg	NC	25		
1952237	Boron (B)	2009/09/25	NC	75 - 125	101	75 - 125	<1.5	mg/kg	NC	25		
1952237	Cadmium (Cd)	2009/09/25	94	75 - 125	92	75 - 125	<0.050	mg/kg	NC	25	84	75 - 125
1952237	Chromium (Cr)	2009/09/25	96	75 - 125	98	75 - 125	<0.50	mg/kg	NC	25	73(1, 2)	75 - 125
1952237	Cobalt (Co)	2009/09/25	95	75 - 125	98	75 - 125	<0.20	mg/kg	NC	25		
1952237	Copper (Cu)	2009/09/25	NC	75 - 125	97	75 - 125	<0.50	mg/kg	24.8	25	92	75 - 125
1952237	Iron (Fe)	2009/09/25	NC	75 - 125	101	75 - 125	<15	mg/kg	NC	25	83	75 - 125
1952237	Lead (Pb)	2009/09/25	127(1, 3)	75 - 125	99	75 - 125	<0.18	mg/kg	NC	25	45(1, 4)	75 - 125
1952237	Lithium (Li)	2009/09/25	103	75 - 125	107	75 - 125	<0.50	mg/kg	NC	25		
1952237	Manganese (Mn)	2009/09/25	NC	75 - 125	106	75 - 125	<0.50	mg/kg	NC(5)	25		
1952237	Molybdenum (Mo)	2009/09/25	87	75 - 125	91	75 - 125	<0.50	mg/kg	NC	25		
1952237	Nickel (Ni)	2009/09/25	88	75 - 125	96	75 - 125	<0.50	mg/kg	NC	25		
1952237	Selenium (Se)	2009/09/25	79	75 - 125	73(1, 6)	75 - 125	<0.50	mg/kg	NC	25		
1952237	Silver (Ag)	2009/09/25	94	75 - 125	99	75 - 125	<0.12	mg/kg	NC	25		
1952237	Strontium (Sr)	2009/09/25	NC	75 - 125	99	75 - 125	<1.5	mg/kg	NC	25		
1952237	Thallium (Tl)	2009/09/25	92	75 - 125	92	75 - 125	<0.020	mg/kg	NC	25		
1952237	Tin (Sn)	2009/09/25	85	75 - 125	88	75 - 125	<0.50	mg/kg	NC	25		
1952237	Uranium (U)	2009/09/25	87	75 - 125	91	75 - 125	<0.020	mg/kg	NC	25		

Maxxam Analytics International Corporation o/a Maxxam Analytics 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel:902-420-0203 Toll-free:800-565-7227 Fax:902-420-8612 www.maxxamanalytics.com

Maxxam Job #: A9B6857
Report Date: 2009/10/02

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NORTHWEST POINT
Your P.O. #: NSD016400

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
1952237	Vanadium (V)	2009/09/25	99	75 - 125	99	75 - 125	<0.50	mg/kg	NC	25		
1952237	Zinc (Zn)	2009/09/25	NC	75 - 125	91	75 - 125	<1.5	mg/kg	1.1	25	86	75 - 125

N/A = Not Applicable
RPD = Relative Percent Difference
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
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.
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.
(1) - Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.
(2) - Typical recovery for RM matrix.
(3) - Elevated recovery due to sample matrix.
(4) - Secondary RM is acceptable.
(5) - Poor RPD due to sample inhomogeneity.
(6) - Low recovery due to digestion efficiency.

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Validation Signature Page

Maxxam Job #: A9B6857

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

JERRY ARENOVICH, Inorganics Manager

ROBIN SMITH,

==========

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. SCC and CALA have approved this reporting process and electronic report format.

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Maxxam Analytics Inc

49-55 Elizabeth Avenue, Suite 101A, St. John's, NL A1A 1W9 Tel: 709-754-0203 Fax: 709-754-8612 Toll Free: 1-888-492-7227
www.maxxamanalytics.com

CHAIN OF CUSTODY RECORD

18136

INVOICE INFORMATION:
Company Name:
Contact Name:
Address:
Email:
Ph: Fax:

REPORT INFORMATION (if differs from invoice):
Company Name: JW - STANTEC
Contact Name: JIM SLADE
Address:
Email: MICHELLE SHEPPARD
Ph: Fax:

PO #:
Project #: 1044857 Z9100
Proj. Name:
Location: Northwest Point
Quotation#:
Submitted By:
Site Task #:

MAXXAM JOB NUMBER: DA9B6857
ENTERED BY, Init: RP
Client Code: 10951

Specify Guideline Requirements: Freezer = 234

*Specify Matrix: Surface/Salt/Ground/Tapwater/Sewage/Effluent/Seawater Potable/NonPotable/Tissue/Soil/Sludge/Metal

Sample Identification	Matrix*	Date/Time Sampled	# & type of bottles	Field Filtered & Preserved	Lab Filtration Required	RCAp-30 Choose Total or Diss Metals	RCAp-MS Choose Total or Diss Metals	Metals Water: Total Digest (Default Method)	Metals Water: Dissolved	Mercury (Mercury is not included in soil or water metals scan)	Metals Soil: Available Metals Digest Default Method (HNO_3/H_2O_2)	Metals Soil: Total Digest - for sediments ($HNO_3/HF/HClO_4$)	Metals Soil: Tin (required for CCME soils)	Metals Soil: Selenium (low level) Req'd for CCME Residential, Parklands, Agricultural	Metals Soil: Hot Water soluble Boron (required for CCME Agricultural)	TPH MUST (BTEX, C_6-C_{32})	Soil (Potable), TPH MUST, NS Fuel Oil Spill Policy Low Level BTEX & C_6-C_{32}	NB Potable Water BTEX, VPH, Low Level TEH	TPH Fractionation	PAH's	PCB's	VOC's EPA 624,8260	Other Analysis or Comments/Hazards
SM1 DP8230	mouse		1x bag																				TEST ALL THREE:
SM2 DP8242	↓		↓																				FOR HOMOGENIZATION
SM3 DP8245																							LIPID CONTENT
																							METALS
																							PCBs
																							MERCURY

SHIPPED FROM MAXXAM-ST JOHN'S

SEP 4 2009

DUE DATE:
STANDARD: ✓
RUSH Due Date:
For extra cost rush, specify Due Date. Rush analysis must be scheduled prior to sample submission.
Client will be contacted if Rush date cannot be met.

RELINQUISHED BY: (Signature/Print)	RECEIVED BY: (Signature/Print)	DATE / TIME	PURPOSE OF CHANGE / REMARKS
M Sheppard	M Dalton	Sep 12/09 4 50	

TEMP @ Maxxam Receipt: 2 2 2
INTEGRITY Init: Yes No (circled: No)

KEENVROCOC St John's 05/05

Frozen

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Your P.O. #: NSD016300
Your Project #: 1044857/Z9100
Site: NWP
Your C.O.C. #: B 64723

Attention: Jim Slade
Jacques Whitford Limited
St. John's - Standing Offer
607 Torbay Rd
St. John's, NL
A1A 4Y6

Report Date: 2009/11/02

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A9E3307
Received: 2009/10/23, 16:00

Sample Matrix: Water
Samples Received: 48

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
TEH in Water (PIRI)	10	2009/10/28	2009/10/30	ATL SOP 00198 R2	Based on Atl. PIRI
TEH in Water (PIRI)	20	2009/10/28	2009/11/02	ATL SOP 00198 R2	Based on Atl. PIRI
TEH in Water (PIRI)	17	2009/10/29	2009/11/02	ATL SOP 00198 R2	Based on Atl. PIRI
VPH in Water (PIRI)	10	2009/10/27	2009/10/28	ATL SOP 00200 R4	Based on Atl. PIRI
VPH in Water (PIRI)	20	2009/10/28	2009/10/30	ATL SOP 00200 R4	Based on Atl. PIRI
VPH in Water (PIRI)	17	2009/10/29	2009/10/30	ATL SOP 00200 R4	Based on Atl. PIRI
Free Product ID	2	2009/11/02	2009/11/02		
ModTPH (T1) Calc. for Water	10	N/A	2009/10/30		Based on Atl. PIRI
ModTPH (T1) Calc. for Water	37	N/A	2009/11/02		Based on Atl. PIRI

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
* Results relate only to the items tested.

Encryption Key

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

ROB WHELAN, Project Manager
Email: Rob.Whelan@maxxamanalytics.com
Phone# (709) 754-0203

==========

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. SCC and CALA have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 1

This document is in electronic format, hard copy is available on request.

Maxxam Job #: A9E3307
Report Date: 2009/11/02

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016300

RESULTS OF ANALYSES OF WATER

MaxxamID		ED4300	ED4355		
SamplingDate		2009/10/22	2009/10/22		
ReceivedTemperature(°C)		3.0C	3.0C		
	Units	**09-PIPE2**	**09-Product1**	**RDL**	**QC Batch**
PetroleumHydrocarbons					
OpenCharacterizationbyFID	N/A	SEECOMMENT(1)	SEECOMMENT(2)	N/A	1997660

ATLANTIC RBCA HYDROCARBONS (WATER)

MaxxamID		ED4260	ED4261	ED4262	ED4263	ED4264	ED4265	ED4266	ED4267	ED4268	ED4269		
SamplingDate		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		
ReceivedTemperature(°C)		3.0C	3.0C	3.0C	3.0C	3.0C	3.0C	3.0C	3.0C	3.0C	3.0C		
	Units	**09-MW1**	**09-MW2S**	**09-MW2D**	**09-MW3**	**09-MW5**	**09-MW6**	**09-MW8**	**09-MW9**	**09-MW10**	**09-MW11**	**RDL**	**QC Batch**
PetroleumHydrocarbons													
Benzene	mg/L	ND	ND	0.034	ND	ND	ND	ND	ND	ND	ND	0.001	1985173
Toluene	mg/L	ND	ND	0.009	ND	ND	ND	ND	ND	ND	ND	0.001	1985173
Ethylbenzene	mg/L	ND	0.004	0.019	ND	ND	ND	ND	ND	0.002	ND	0.001	1985173
Xylene(Total)	mg/L	ND	0.019	0.065	ND	0.005	ND	ND	ND	ND	ND	0.002	1985173
C6 - C10 (less BTEX)	mg/L	0.53	2.2	0.53	0.03	0.06	ND	0.06	0.48	0.12	3.1	0.01	1985173
>C10-C21Hydrocarbons	mg/L	20	19	9.1	0.16	4.6	0.13	28	1.1	1.5	71	0.05	1991422
>C21-<C32Hydrocarbons	mg/L	1.1	1.0	0.5	0.3	0.3	ND	4.2	0.2	0.4	2.3	0.1	1991422
Modified TPH (Tier1)	mg/L	21	22	10	0.5	4.9	0.1	33	1.8	2.1	77	0.1	1984294
Surrogate Recovery (%)													
Isobutylbenzene-Extractable	%	73	87	85	85	93	95	60	86	83	96		1991422
Isobutylbenzene-Volatile	%	121	104	75	82	89	83	93	83	89	140(3)		1985173
n-Dotriacontane-Extractable	%	77(4)	99(4)	101(4)	87(5)	104(4)	97(4)	119(6)	101(5)	78(5)	103(4)		1991422

N/A = Not Applicable
ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - One product in fuel oil range resembling stove oil.
(2) - One product in fuel oil range resembling weathered diesel.
(3) - Isobutylbenzene recovery not within acceptance limits due to matrix/co-extractive interference.
(4) - Weathered fuel oil fraction. TEH sample contained sediment.
(5) - Weathered fuel oil fraction. Lube oil fraction. TEH sample contained sediment.
(6) - Weathered fuel oil fraction. Isobutylbenzene/n-Dotriacontane recovery(ies) not within acceptance limits due to matrix/co-extractive interference. TEH sample contained sediment.

Maxxam Analytics International Corporation o/a Maxxam Analytics 49-55 Elizabeth Ave, Suite 101A, St.John's, NL, Canada A1A 1W9 Tel: 709-754-0203 Toll Free: 888-492-7227 Fax:709-754-8612 www.maxxam.ca

Maxxam Job #: A9E3307
Report Date: 2009/11/02

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016300

ATLANTIC RBCA HYDROCARBONS (WATER)

MaxxamID		ED4270	ED4270	ED4271	ED4272	ED4273	ED4274	ED4275	ED4276	ED4277	ED4278		
SamplingDate		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		
ReceivedTemperature(°C)		3.0C	3.0C	3.0C	3.0C	3.0C	3.0C	3.0C	3.0C	3.0C	3.0C		
	Units	**09-MW12**	**09-MW12 Lab-Dup**	**09-MW13S**	**09-MW15**	**09-MW17**	**09-MW18**	**09-MW19**	**09-MW21**	**09-MW22**	**09-MW23**	**RDL**	**QC Batch**
PetroleumHydrocarbons													
Benzene	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	1992229
Toluene	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	1992229
Ethylbenzene	mg/L	ND	ND	0.002	ND	ND	ND	ND	ND	ND	ND	0.001	1992229
Xylene(Total)	mg/L	ND	ND	0.023	ND	ND	ND	ND	ND	ND	ND	0.002	1992229
C6 - C10 (less BTEX)	mg/L	ND	ND	0.91	0.50	1.3	1.4	0.07	ND	ND	ND	0.01	1992229
>C10-C21Hydrocarbons	mg/L	0.29		49	51	120	ND	1.0	ND	0.07	0.15	0.05	1992233
>C21-<C32Hydrocarbons	mg/L	0.1		5.4	1.2	2.4	ND	0.2	0.1	ND	0.2	0.1	1992233
Modified TPH (Tier1)	mg/L	0.4		55	53	120	1.4	1.3	0.1	ND	0.3	0.1	1984294
Surrogate Recovery (%)													
Isobutylbenzene-Extractable	%	83		95	101	105	90	98	95	96	93		1992233
Isobutylbenzene-Volatile	%	95	90	132(1)	99	126	92	102	104	97	94		1992229
n-Dotriacontane-Extractable	%	82(2)		100(3)	56(4)	128(5)	84(6)	91(5)	91(7)	99(5)	93(8)		1992233

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Isobutylbenzene recovery not within acceptance limits due to matrix/co-extractive interference.
(2) - Weathered fuel oil fraction. No resemblance to petroleum products in lube oil range.
(3) - Fuel oil fraction.
(4) - Weathered fuel oil fraction. Isobutylbenzene/n-Dotriacontane recovery(ies) not within acceptance limits due to sediment interference.
(5) - Weathered fuel oil fraction. TEH sample contained sediment.
(6) - TEH sample contained sediment.
(7) - No resemblance to petroleum products in lube oil range. TEH sample contained sediment.
(8) - Weathered fuel oil fraction. Lube oil range. TEH sample contained sediment.

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Maxxam Job #: A9E3307
Report Date: 2009/11/02

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016300

ATLANTIC RBCA HYDROCARBONS (WATER)

MaxxamID		ED4279	ED4280	ED4281	ED4282	ED4283	ED4284	ED4285	ED4286	ED4287	ED4287		
SamplingDate		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		
ReceivedTemperature(°C)		3.0C	3.0C	3.0C	3.0C	3.0C	3.0C	3.0C	3.0C	3.0C	3.0C		
	Units	**09-MW25**	**09-MW27S**	**09-MW27D**	**09-MW28**	**09-MW29**	**09-MW30**	**09-MW31**	**09-MW32**	**09-MW33S**	**09-MW33S Lab-Dup**	**RDL**	**QC Batch**
PetroleumHydrocarbons													
Benzene	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND		0.001	1992229
Toluene	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND		0.001	1992229
Ethylbenzene	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND		0.001	1992229
Xylene(Total)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND		0.002	1992229
C6 - C10 (less BTEX)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND		0.01	1992229
>C10-C21Hydrocarbons	mg/L	ND	0.14	0.07	ND	0.05	0.74	36	0.08	0.08	0.10	0.05	1992233
>C21-<C32Hydrocarbons	mg/L	ND	0.1	ND	ND	ND	0.2	2.9	ND	0.2	0.2	0.1	1992233
Modified TPH (Tier1)	mg/L	ND	0.2	ND	ND	ND	0.9	39	ND	0.2		0.1	1984294
Surrogate Recovery (%)													
Isobutylbenzene-Extractable	%	94	88	76	94	91	99	103	93	94	95		1992233
Isobutylbenzene-Volatile	%	86	91	86	73	98	93	89	89	97			1992229
n-Dotriacontane-Extractable	%	90(1)	70(2)	33(3)	97(1)	85(4)	94(5)	102(5)	72(5)	91(6)	90		1992233

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - TEH sample contained sediment.
(2) - No resemblance to petroleum products in fuel oil /lube oil range. Isobutylbenzene/n-Dotriacontane recovery(ies) not within acceptance limits due to sediment interference.
(3) - No resemblance to petroleum products in fuel oil range. Isobutylbenzene/n-Dotriacontane recovery(ies) not within acceptance limits due to sediment interference.
(4) - No resemblance to petroleum products in fuel oil range. TEH sample contained sediment.
(5) - Weathered fuel oil fraction. TEH sample contained sediment.
(6) - Weathered fuel oil fraction. Lube oil fraction. TEH sample contained sediment.

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Maxxam Job #: A9E3307
Report Date: 2009/11/02

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016300

ATLANTIC RBCA HYDROCARBONS (WATER)

MaxxamID		ED4288	ED4289		ED4290	ED4290	ED4291	ED4292	ED4293	ED4294		
SamplingDate		2009/10/20	2009/10/20		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		
ReceivedTemperature(°C)		3.0C	3.0C		3.0C	3.0C	3.0C	3.0C	3.0C	3.0C		
	Units	**09-MW33D**	**09-MW34S**	**QC Batch**	**09-MW34D**	**09-MW34D Lab-Dup**	**09-MW35D**	**09-MW36**	**09-MW37**	**09-MW38**	**RDL**	**QC Batch**
PetroleumHydrocarbons												
Benzene	mg/L	ND	ND	1992229	ND	ND	ND	ND	ND	0.001	0.001	1993998
Toluene	mg/L	ND	0.005	1992229	ND	ND	ND	ND	ND	ND	0.001	1993998
Ethylbenzene	mg/L	ND	ND	1992229	ND	ND	ND	0.002	ND	0.006	0.001	1993998
Xylene(Total)	mg/L	ND	ND	1992229	ND	ND	ND	ND	ND	0.023	0.002	1993998
C6 - C10 (less BTEX)	mg/L	ND	ND	1992229	ND	ND	ND	0.11	ND	0.14	0.01	1993998
>C10-C21Hydrocarbons	mg/L	0.20	2.6	1992233	1.4	1.8	0.11	1.2	0.06	19	0.05	1994102
>C21-<C32Hydrocarbons	mg/L	0.2	0.9	1992233	0.9	0.4	0.7	0.5	ND	1.0	0.1	1994102
Modified TPH (Tier1)	mg/L	0.4	3.5	1984294	2.2		0.8	1.8	ND	20	0.1	1984294
Surrogate Recovery (%)												
Isobutylbenzene-Extractable	%	96	90	1992233	100	83	104	93	92	93		1994102
Isobutylbenzene-Volatile	%	72	106	1992229	84	89	105	90	93	95		1993998
n-Dotriacontane-Extractable	%	99(1)	101(1)	1992233	82(1)	101	105(2)	89(1)	71(3)	102(3)		1994102

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Weathered fuel oil fraction. Lube oil fraction. TEH sample contained sediment.
(2) - Lube oil fraction. TEH sample contained sediment.
(3) - Weathered fuel oil fraction. TEH sample contained sediment.

Maxxam Analytics International Corporation o/a Maxxam Analytics 49-55 Elizabeth Ave, Suite 101A, St.John's, NL, Canada A1A 1W9 Tel: 709-754-0203 Toll Free: 888-492-7227 Fax:709-754-8612 www.maxxam.ca

Maxxam Job #: A9E3307
Report Date: 2009/11/02

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016300

ATLANTIC RBCA HYDROCARBONS (WATER)

MaxxamID		ED4295	ED4296	ED4297	ED4298	ED4299		ED4300		
SamplingDate		2009/10/20	2009/10/21	2009/10/21	2009/10/22	2009/10/22		2009/10/22		
ReceivedTemperature(°C)		3.0C	3.0C	3.0C	3.0C	3.0C		3.0C		
	Units	**09-MW39**	**AMEC 2**	**AMEC 4**	**09-SW1**	**09-PIPE1**	**QC Batch**	**09-PIPE2**	**RDL**	**QC Batch**
PetroleumHydrocarbons										
Benzene	mg/L	ND	ND	ND	ND	0.002	1993998	0.007	0.001	1993998
Toluene	mg/L	ND	ND	ND	ND	0.005	1993998	0.008	0.001	1993998
Ethylbenzene	mg/L	ND	ND	ND	ND	0.015	1993998	ND	0.001	1993998
Xylene(Total)	mg/L	ND	ND	ND	ND	0.19	1993998	0.007	0.002	1993998
C6 - C10 (less BTEX)	mg/L	ND	ND	ND	ND	0.64	1993998	5.5	0.01	1993998
>C10-C21Hydrocarbons	mg/L	43	0.06	0.07	0.30	16	1994102	1100	0.05	1994102
>C21-<C32Hydrocarbons	mg/L	3.6	ND	ND	0.1	0.5	1994102	3.7	0.1	1994102
Modified TPH (Tier1)	mg/L	47	ND	ND	0.4	17	1984294	1100	0.1	1984296
Surrogate Recovery (%)										
Isobutylbenzene - Extractable	%	95	100	90	79	94	1994102	96		1994102
Isobutylbenzene-Volatile	%	94	98	95	94	100	1993998	164(1)		1993998
n-Dotriacontane-Extractable	%	96(2)	91(2)	76(2)	37(3)	71(2)	1994102	48(4)		1994102

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Isobutylbenzene recovery not within acceptance limits due to matrix/co-extractive interference.
(2) - Weathered fuel oil fraction. TEH sample contained sediment.
(3) - Weathered fuel oil fraction. Lube oil range. Isobutylbenzene/n-Dotriacontane recovery(ies) not within acceptance limits due to sediment interference.
(4) - Weathered fuel oil fraction. Isobutylbenzene/n-Dotriacontane recovery(ies) not within acceptance limits due to sediment interference.

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Maxxam Job #: A9E3307
Report Date: 2009/11/02

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016300

ATLANTIC RBCA HYDROCARBONS (WATER)

MaxxamID		ED4301	ED4302	ED4303	ED4304	ED4305	ED4306		
SamplingDate		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
ReceivedTemperature(°C)		3.0C	3.0C	3.0C	3.0C	3.0C	3.0C		
	Units	**09-SW5**	**09-SW6**	**09-SW7**	**09-SW8**	**09-SW9**	**09-SW10**	**RDL**	**QC Batch**
PetroleumHydrocarbons									
Benzene	mg/L	ND	ND	ND	ND	ND	ND	0.001	1993998
Toluene	mg/L	0.005	ND	ND	ND	ND	0.002	0.001	1993998
Ethylbenzene	mg/L	0.003	ND	ND	ND	ND	ND	0.001	1993998
Xylene(Total)	mg/L	ND	ND	ND	ND	ND	ND	0.002	1993998
C6 - C10 (less BTEX)	mg/L	ND	ND	ND	ND	0.11	ND	0.01	1993998
>C10-C21Hydrocarbons	mg/L	ND	0.05	ND	0.06	12	ND	0.05	1994102
>C21-<C32Hydrocarbons	mg/L	ND	ND	ND	ND	0.3	ND	0.1	1994102
Modified TPH (Tier1)	mg/L	ND	ND	ND	ND	13	ND	0.1	1984296
Surrogate Recovery (%)									
Isobutylbenzene - Extractable	%	71	78	76	90	70	87		1994102
Isobutylbenzene-Volatile	%	113	79	87	81	90	103		1993998
n-Dotriacontane-Extractable	%	16(1)	38(2)	38(3)	78(4)	8.9(5)	79(6)		1994102

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Isobutylbenzene/n-Dotriacontane recovery(ies) not within acceptance limits due to sediment interference.
(2) - No resemblance to petroleum products in fuel oil range. Isobutylbenzene/n-Dotriacontane recovery(ies) not within acceptance limits due to sediment interference.
(3) - Isobutylbenzene/n-Dotriacontane recovery(ies) not within acceptance limits due to matrix/co-extractive interference.
(4) - No resemblance to petroleum products in fuel oil range. TEH sample contained sediment.
(5) - Weathered fuel oil fraction. Isobutylbenzene/n-Dotriacontane recovery(ies) not within acceptance limits due to matrix/co-extractive interference.
(6) - TEH sample contained sediment.

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Maxxam Job #: A9E3307
Report Date: 2009/11/02

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016300

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
1985173	Isobutylbenzene - Volatile	2009/10/28	93	70 - 130	98	70 - 130	100	%		
1985173	Benzene	2009/10/28	80	70 - 130	80	70 - 130	ND, RDL=0.001	mg/L	NC	40
1985173	Toluene	2009/10/28	75	70 - 130	75	70 - 130	ND, RDL=0.001	mg/L	NC	40
1985173	Ethylbenzene	2009/10/28	90	70 - 130	75	70 - 130	ND, RDL=0.001	mg/L	28.6	40
1985173	Xylene (Total)	2009/10/28	108	70 - 130	78	70 - 130	ND, RDL=0.002	mg/L	27.6	40
1985173	C6 - C10 (less BTEX)	2009/10/28	52	N/A	60	N/A	ND, RDL=0.01	mg/L	NC	40
1991422	Isobutylbenzene - Extractable	2009/10/30	61	30 - 130	95	30 - 130	100	%		
1991422	n-Dotriacontane - Extractable	2009/10/30	51	30 - 130	109	30 - 130	97	%		
1991422	>C10-C21 Hydrocarbons	2009/10/30	24(1)	30 - 130	100	30 - 130	ND, RDL=0.05	mg/L	NC	40
1991422	>C21-<C32 Hydrocarbons	2009/10/30	28(1)	30 - 130	106	30 - 130	ND, RDL=0.1	mg/L	NC	40
1992229	Isobutylbenzene - Volatile	2009/10/30	139(1)	70 - 130	106	70 - 130	100	%		
1992229	Benzene	2009/10/30	70	70 - 130	85	70 - 130	ND, RDL=0.001	mg/L	NC	40
1992229	Toluene	2009/10/30	65(1)	70 - 130	80	70 - 130	ND, RDL=0.001	mg/L	NC	40
1992229	Ethylbenzene	2009/10/30	45(1)	70 - 130	85	70 - 130	ND, RDL=0.001	mg/L	NC	40
1992229	Xylene (Total)	2009/10/30	58(1)	70 - 130	85	70 - 130	ND, RDL=0.002	mg/L	NC	40
1992229	C6 - C10 (less BTEX)	2009/10/30	194	N/A	70	N/A	ND, RDL=0.01	mg/L	NC	40
1992233	Isobutylbenzene - Extractable	2009/11/02	94	30 - 130	93	30 - 130	100	%		
1992233	n-Dotriacontane - Extractable	2009/11/02	106	30 - 130	105	30 - 130	95	%		
1992233	>C10-C21 Hydrocarbons	2009/11/02	84	30 - 130	93	30 - 130	ND, RDL=0.05	mg/L	NC	40
1992233	>C21-<C32 Hydrocarbons	2009/11/02	79	30 - 130	89	30 - 130	ND, RDL=0.1	mg/L	NC	40
1993998	Isobutylbenzene - Volatile	2009/10/30	87	70 - 130	94	70 - 130	100(2)	%		
1993998	Benzene	2009/10/30	70	70 - 130	75	70 - 130	ND, RDL=0.001	mg/L	NC	40
1993998	Toluene	2009/10/30	65(1)	70 - 130	70	70 - 130	ND, RDL=0.001	mg/L	NC	40
1993998	Ethylbenzene	2009/10/30	65(1)	70 - 130	75	70 - 130	ND, RDL=0.001	mg/L	NC	40
1993998	Xylene (Total)	2009/10/30	68(1)	70 - 130	72	70 - 130	ND, RDL=0.002	mg/L	NC	40
1993998	C6 - C10 (less BTEX)	2009/10/30	49	N/A	66	N/A	ND, RDL=0.01	mg/L	NC	40
1994102	Isobutylbenzene - Extractable	2009/11/02	99	30 - 130	99	30 - 130	97	%		
1994102	n-Dotriacontane - Extractable	2009/11/02	109	30 - 130	135(1)	30 - 130	96	%		

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Maxxam Job #: A9E3307
Report Date: 2009/11/02

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016300

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
1994102	>C10-C21 Hydrocarbons	2009/11/02	95	30 - 130	120	30 - 130	ND, RDL=0.05	mg/L	24.5	40
1994102	>C21-<C32 Hydrocarbons	2009/11/02	91	30 - 130	130	30 - 130	ND, RDL=0.1	mg/L	NC	40

N/A = Not Applicable
RDL = Reportable Detection Limit
RPD = Relative Percent Difference
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
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.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.
(1) - Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.
(2) - Isobutylbenzene recovery not within acceptance limits due to matrix/co-extractive interference.

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Validation Signature Page

Maxxam Job #: A9E3307

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

Paula Chaplin

PAULA CHAPLIN, Project Manager

==========

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. SCC and CALA have approved this reporting process and electronic report format.

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MAXXAM Chain of Custody Record

COC #: B 64723 Page 1 of 7

This column for lab use only:

Client Code: 10951

Maxxam Job #: A9E3307

Cooler ID | Seal Present | Seal Intact | Temp 1 | Temp 2 | Temp 3 | Average Temp

Integrity: YES (NO) | Integrity / Checklist by: PMC

Labelled by | Location / Bin #

INVOICE INFORMATION:

Company Name: STANTEC

Contact Name:

Address:

Postal Code

Email:

Ph: Fax:

REPORT INFORMATION (if differs from invoice):

Company Name: STANTEC

Contact Name: Jim Slade.

Address: 607 Torbay Rd

St. John's Postal Code A1A 4W6

Email: Michelle Sheppard

Ph: Fax:

PO #

Project # / Phase # 1044857 / Z9100

Project Name / Site Location NWP.

Quote

Site #

Task Order #

Sampled by RAP

TURNAROUND TIME

Standard ☑

10 day ☐

If RUSH Specify Date:

Pre-schedule rush work

Charge for # Jars used but not submitted

Guideline Requirements / Detection Limits / Special Instructions

*Specify Matrix: Surface/Salt/Ground/Tapwater/Sewage/Effluent/Potable/NonPotable/Tissue/Soil/Sludge/Metal/Seawater

Field Sample Identification	Matrix*	Date/Time Sampled	# & type of bottles	Field Filtered & Preserved	Lab Filtration Required	RCAP-30 (Choose Total or Diss Metals)	RCAP-MS (Choose Total or Diss Metals)	Metals Water: Total Digest (Default Method) for low level water, surface water	Metals Water: Dissolved for ground water	Metals Water: Mercury	Metals Soil: Metals & Mercury Default Available Digest Method	Metals Soil: Metals Total Digest - for Ocean sediments (HNO3/HF/HCL04)	Metals Soil: Mercury Low level by Cold Vapour AA	Metals Soil: Selenium (low level) Req'd for CCME Residential, Parklands, Agricultural	Metals Soil: Hot Water soluble Boron required for CCME Agricultural	Hydrocarbons: RBCA Hydrocarbons (BTEX, C6-C32)	Hydrocarbons: Hydrocarbons Soil Potable, NS Fuel, Oil Soil Poorly Low Level BTEX, C6-C32	Hydrocarbons: NB Potable Water BTEX, VPH, Low level TEH	Hydrocarbons: TPH Fractionation	Hydrocarbons: PAH's	Hydrocarbons: PAH's with Acridine, Quinoline	
1 09-MW1	GW	Oct 20		X			X			X						X					
2 09-MW2S				X			X			X						X					
3 09-MW2D				X			X			X						X					
4 09-MW3				X			X			X						X					
5 09-MW4				X			X			X									X	X	X
6 09-MW5				X			X			X						X					
7 09-MW6				X			X			X						X					
8 09-MW7				X			X			X									X	X	
9 09-MW8				X			X			X						X					
10 09-MW9				X			X			X						X					

+Glycol MD

MD

RELINQUISHED BY: (Signature/Print) MM RA Date: Oct 23/09 Time:

RECEIVED BY: (Signature/Print) Date: 2009/10/23 Time: 4:00 pm

3C

White: Maxxam Yellow: Mail Pink: Client

ATL FCD 00149 / Revision 6 11/08

Maxxam Analytics
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MAXXAM Chain of Custody Record COC #: B 64724

This column for lab use only:

Client Code: 10951

Maxxam Job #: A9E3307

Cooler ID | Seal Present | Seal Intact | Temp 1 | Temp 2 | Temp 3 | Average Temp

Integrity: YES (NO) | Integrity / Checklist by: PMC

Labelled by | Location / Bin #

INVOICE INFORMATION:

Company Name: STANTEC
Contact Name:
Address:
Postal Code
Email:
Ph: Fax:

REPORT INFORMATION (if differs from invoice):

Company Name: STANTEC
Contact Name: Jim Slade
Address: 607 Torbay Rd
Postal Code
Email: Michelle Sheppard
Ph: Fax:

PO #
Project # / Phase #: 1044857 / Z9100
Project Name / Site Location
Quote
Site #: NWP.
Task Order #
Sampled by: RBP.

TURNAROUND TIME
Standard ☑
10 day ☐
If RUSH Specify Date:
Pre-schedule rush work
Charge for # Jars used but not submitted

Guideline Requirements / Detection Limits / Special Instructions

*Specify Matrix: Surface/Salt/Ground/Tapwater/Sewage/Effluent/Potable/NonPotable/Tissue/Soil/Sludge/Metal/Seawater

Field Sample Identification	Matrix*	Date/Time Sampled	# & type of bottles	Field Filtered & Preserved	Lab Filtration Required	RCAP-30 Choose Total or Diss Metals	RCAP-MS Choose Total or Diss Metals	Metals Water: Total Digest (Default Method) for wat water, surface water	Metals Water: Dissolved for ground water	Metals Water: Mercury	Metals Soil: Metals & Mercury Default Available Digest Method	Metals Soil: Metals Total Digest - for Ocean sediments (HNO3/HF/HClO4)	Metals Soil: Mercury Low level by Cold Vapour AA	Metals Soil: Selenium (low level) Req'd for CCME Residential, Parklands, Agricultural	Metals Soil: Hot Water soluble Boron required for CCME Agricultural	Hydrocarbons: RBCA Hydrocarbons (BTEX, C6-C32)	Hydrocarbons: Hydrocarbons Soil Potabel, NS Fuel Oil Soil Policy Low Level BTEX, C6-C32	Hydrocarbons: NB Potable Water BTEX, VPH, Low level T.E.H.	Hydrocarbons: TPH Fractionation	Hydrocarbons: PAH's	Hydrocarbons: PAH's with Acridine, Quinoline
1 09-MW10	GW	Oct 20		X			X			X						X					
2 09-MW11				X			X			X						X					
3 09-MW12				X			X			X						X					
4 09-MW13S				X			X			X						X					
5 09-MW15				X			X			X						X					
6 ~~09-MW16~~				X			X			X									X		M
7 09-MW17				X			X			X						X					
8 09-MW18				X			X			X						X					
9 09-MW19				X			X			X						X					
10 ~~09-MW20~~				X			X			X									X	X	

RELINQUISHED BY: (Signature/Print) MM Date: Oct 23/09 Time:
RECEIVED BY: (Signature/Print) Date: 2009/10/23 Time: 4:00pm SC

White: Maxxam Yellow: Mail Pink: Client ATL FCD 00149 / Revision 8 11/08

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MAXXAM Chain of Custody Record

COC #: B 64726 Page 3 of 7

This column for lab use only:							
Cooler ID	Seal Present	Seal Intact	Temp 1	Temp 2	Temp 3	Average Temp	

Client Code: 10951

Maxxam Job #: A9E3307

Integrity: YES NO

Integrity / Checklist by: PMC

Labelled by:

Location / Bin #:

INVOICE INFORMATION:

Company Name: STANTEC

Contact Name:

Address:

Postal Code

Email:

Ph: Fax:

REPORT INFORMATION (if differs from invoice):

Company Name: STANTEC

Contact Name: Jim Slade

Address: 607 Torbay Rd.

Postal Code

Email: Michelle Sheppard

Ph: Fax:

PO #

Project # / Phase #: 1044857 / Z9100

Project Name / Site Location

Quote

Site #: NWP.

Task Order #

Sampled by

TURNAROUND TIME

Standard ☒

10 day ☐

If RUSH Specify Date:

Pre-schedule rush work

Charge for # Jars used but not submitted

Guideline Requirements / Detection Limits / Special Instructions

*Specify Matrix: Surface/Salt/Ground/Tapwater/Sewage/Effluent/Potable/NonPotable/Tissue/Soil/Sludge/Metal/Seawater

Field Sample Identification	Matrix*	Date/Time Sampled	# & type of bottles	Field Filtered & Preserved	Lab Filtration Required	Metals Water: Choose Total or Diss Metals RCAP-30	Metals Water: Choose Total or Diss Metals RCAP-MS	Metals Water: Total Digest (Default Method) for well water, surface water	Metals Water: Dissolved for ground water	Metals Water: Mercury	Metals Soil: Metals & Mercury Default Available Digest Method	Metals Soil: Metals Total Digest - for Ocean sediments (HNO3/HF/HClO4)	Metals Soil: Mercury Low level by Cold Vapour AA	Metals Soil: Selenium (low level) Req'd for CCME Residential, Parklands, Agricultural	Metals Soil: Hot Water soluble Boron Required for CCME Agricultural	Hydrocarbons: F&CA Hydrocarbons (BTEX, C6-C32)	Hydrocarbons: Hydrocarbons Soil (Potable), NS Fuel Oil Spill Policy Low Level BTEX, C6-C32	Hydrocarbons: NB Potable Water BTEX, VPH, Low level T.E.H.	Hydrocarbons: TPH Fractionation	Hydrocarbons: PAH's	Hydrocarbons: PAH's with Acridine, Quinoline
1 09-MW14	GW	Oct 20		X			X			X						X			X		MD
2 09-MW21				X			X			X						X					
3 09-MW22				X			X			X						X					
4 09-MW23				X			X			X						X					X
5 09-MW25				X			X			X						X					
6 09-MW27S				X			X			X						X					
7 09-MW27D				X			X			X						X					
8 09-MW28				X			X			X						X					
9 09-MW29				X			X			X						X					
10 09-MW30				X			X			X						X					

RELINQUISHED BY: (Signature/Print) Date Time

MM MA Oct 23/09

RECEIVED BY: (Signature/Print) Date Time

2009/10/23 4:51p

White: Maxxam Yellow: Mail Pink: Client

ATL FCD 00149 / Revision 8.11/08

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MAXXAM Chain of Custody Record

COC #: B 64727 Page 4 of 7

This column for lab use only:							
Client Code: 10951							
Maxxam Job #: A9E3307							
Cooler ID	Seal Present	Seal Intact	Temp 1	Temp 2	Temp 3	Average Temp	

Integrity: YES (NO) Integrity / Checklist by: PMC

Labelled by: Location / Bin #:

INVOICE INFORMATION:

Company Name: STANTEC

Contact Name:

Address:

Postal Code:

Email:

Ph: Fax:

REPORT INFORMATION (if differs from invoice):

Company Name: STANTEC

Contact Name: Jim Slade

Address: 607 Torbay Rd.

Postal Code:

Email: Michelle Sheppard

Ph: Fax:

PO #:

Project # / Phase #: 104857 / Z9100

Project Name / Site Location:

Quote:

Site #: NWP

Task Order #:

Sampled by:

TURNAROUND TIME

Standard ☒

10 day ☐

If RUSH Specify Date:

Pre-schedule rush work

Charge for # Jars used but not submitted

Guideline Requirements / Detection Limits / Special Instructions

*Specify Matrix: Surface/Salt/Ground/Tapwater/Sewage/Effluent/Potable/NonPotable/Tissue/Soil/Sludge/Metal/Seawater

Field Sample Identification	Matrix*	Date/Time Sampled	# & type of bottles	Field Filtered & Preserved	Lab Filtration Required	RCAP-30 Choose Total or Diss Metals	RCAP-MS Choose Total or Diss Metals	Metals Water: Total Digest (Default Method) for well water, surface water	Metals Water: Dissolved for ground water	Metals Water: Mercury	Metals Soil: Metals & Mercury Default Available Digest Method	Metals Soil: Metals Total Digest - for Ocean sediments (HNO3/HF/HCLO4)	Metals Soil: Mercury Low level by Cold Vapour AA	Metals Soil: Selenium (low level) Req'd for CCME Residential, Parklands, Agricultural	Metals Soil: Hot Water soluble Boron (required for CCME Agricultural)	Hydrocarbons: RBCA Hydrocarbons (BTEX, C6-C32)	Hydrocarbons: Hydrocarbons Soil (Potable) NS Fuel Oil Spill Policy Low Level BTEX, C6-C32	Hydrocarbons: NB Potable Water BTEX, VPH, Low level T.E.H.	Hydrocarbons: TPH Fractionation	Hydrocarbons: PAH's	Hydrocarbons: PAH's with Acridine, Quinoline
1 09-MW31	GW	Oct 20		X			X			X						X					
2 09-MW32				X			X			X						X					
3 09-MW33S				X			X			X						X					
4 09-MW33D				X			X			X						X					
5 09-MW34S				X			X			X						X					
6 09-MW34D				X			X			X						X					
7 09-MW35D				X			X			X						X					
8 09-MW36				X			X			X						X					
9 09-MW37				X			X			X						X					
10 09-MW38				X			X			X						X					

RELINQUISHED BY: (Signature/Print) Date: Oct 23/09 Time:

RECEIVED BY: (Signature/Print) Date: 2009/10/23 Time: 4:00p 3c

White: Maxxam Yellow: Mail Pink: Client ATL FCD 00149 / Revision 6 11/06

Maxxam Analytics International Corporation
200 Bluewater Road, Suite 105, Bedford, Nova Scotia B4B 1G9 Tel: 902-420-0203 Fax: 902-420-8612 Toll Free: 1-800-565-7227
90 Esplanade Sydney, NS B1P 1A1 Tel: 902-567-1255 Fax: 902-539-6504 Toll Free: 888-535-7770
www.maxxamanalytics.com E-mail: Clientservicesbedford@maxxamanalytics.com

MAXXAM Chain of Custody Record COC #: B 64728 Page 5 of 7

This column for lab use only:	INVOICE INFORMATION:	REPORT INFORMATION (if differs from invoice):		TURNAROUND TIME
Client Code: 10951	Company Name: STANTEC	Company Name: STANTEC	PO #	Standard ☒
Maxxam Job #: A9E3307	Contact Name:	Contact Name: Jim Slade	Project # / Phase #: 104957 / Z9100	10 day ☐
Cooler ID / Seal Present / Seal Intact / Temp 1 / Temp 2 / Temp 3 / Average Temp	Address: Postal Code	Address: 607 Torbay Rd Postal Code	Project Name / Site Location	If RUSH Specify Date:
	Email:	Email: Michelle Sheppard	Quote	Pre-schedule rush work
	Ph: Fax:	Ph: Fax:	Site #: NWP.	Charge for # Jars used but not submitted
			Task Order #	
			Sampled by: MBP	

Integrity: YES (NO) Integrity / Checklist by: MC

Labelled by: Location / Bin #:

Guideline Requirements / Detection Limits / Special Instructions

*Specify Matrix: Surface/Salt/Ground/Tapwater/Sewage/Effluent/Potable/NonPotable/Tissue/Soil/Sludge/Metal/Seawater

	Field Sample Identification	Matrix*	Date/Time Sampled	# & type of bottles	Field Filtered & Preserved	Lab Filtration Required	RCAP-30 (Choose Total or Diss Metals)	RCAP-MS (Choose Total or Diss Metals)	Metals Water: Total Digest (Default Method) for well water, surface water	Metals Water: Dissolved for ground water	Metals Water: Mercury	Metals Soil: Metals & Mercury Default Available Digest Method	Metals Soil: Metals Total Digest - for Ocean sediments (HNO3/HF/HCLO4)	Metals Soil: Mercury Low level by Cold Vapour AA	Metals Soil: Selenium (low level) Req'd for CCME Residential, Parklands, Agricultural	Metals Soil: Hot Water soluble Boron required for CCME Agricultural	Hydrocarbons: RBCA Hydrocarbons (BTEX, C6-C32)	Hydrocarbons: Petroleum Hydrocarbons Soil (Potable), NS Fuel Oil Spill Policy Low Level (BTEX, C6-C32)	Hydrocarbons: NB Potable Water BTEX, VPH, Low level T.E.H.	Hydrocarbons: TPH Fractionation	Hydrocarbons: PAH's	Hydrocarbons: PAH's with Acridine, Quinoline	
1	09 - MW 39	GW	Oct20		X			X			X						X						
2	AMEC 2	GW	Oct21		X			X			X						X						
3	AMEC 4	GW	Oct21		X			X			X						X						
4	09 - SW1	SW	Oct22			X		X			X						X						
5	~~09 - SED1~~	~~SED~~	~~Oct22~~									X					X						MD
6	09 - PIPE1	SW	Oct22														X						
7	~~09 - SED2~~	~~SED~~	~~Oct22~~									X					X						MD
8	~~09 - SED3~~	~~SED~~	~~Oct22~~									X					X						MD
9	09 - Pipe 2	GW	Oct22														X						Product I.D.
10	~~09 - SED4~~	~~SED~~	~~Oct22~~									X					X						

RELINQUISHED BY: (Signature/Print)	Date	Time	RECEIVED BY: (Signature/Print)	Date	Time
MM [illegible]	Oct-23/09		R Hall	2009/10/23	4:00p 3C

White: Maxxam Yellow: Mail Pink: Client ATL FCD 00149 / Revision 8 11/08

Maxxam Analytics Inc

49-55 Elizabeth Avenue, Suite 101A, St. John's, NL A1A 1W9 Tel: 709-754-0203 Fax: 709-754-8612 Toll Free: 1-888-492-7227
www.maxxamanalytics.com

CHAIN OF CUSTODY RECORD

22303
Page 6/7

INVOICE INFORMATION:	REPORT INFORMATION (if differs from invoice):		MAXXAM JOB NUMBER:
Company Name: STANTEC	Company Name: STANTEC	PO #:	A9E3307
Contact Name:	Contact Name: Jim Slade.	Project #: 1044857/Z9100	ENTERED BY, Init: PMC
Address:	Address: 607 Torbay Rd. ST. John's, NL.	Proj. Name:	
Email:	Email:	Location: NWP.	
Ph: Fax:	Ph: Fax:	Quotation#:	
		Submitted By: MP.	Client Code: 10951
		Site Task #:	

Specify Guideline Requirements:

*Specify Matrix: Surface/Salt/Ground/Tapwater/Sewage/Effluent/Seawater Potable/NonPotable/Tissue/Soil/Sludge/Metal

DUE DATE:

STANDARD: ☒

RUSH Due Date:

For extra cost rush, specify Due Date. Rush analysis must be scheduled prior to sample submission.

Client will be contacted if Rush date cannot be met.

Sample Identification	Matrix*	Date/Time Sampled	# & type of bottles	Field Filtered & Preserved	Lab Filtration Required	RCAp-30 Choose Total or Diss Metals	RCAp-MS Choose Total or Diss Metals	Metals Water: Total Digest (Default Method)	Metals Water: Dissolved	Mercury is not included in soil or water metals scan	Metals Soil: Available Metals Digest Default Method (HNO_3/H_2O)	Metals Soil: Total Digest - for sediments ($HNO_3/HF/HClO_4$)	Metals Soil: Tin (required for CCME soils)	Metals Soil: Selenium (low level) Req'd for CCME Residential, Parklands, Agricultural	Metals Soil: Hot Water soluble Boron (required for CCME Agricultural)	TPH MUST (BTEX, C_6-C_{50})	Soil (Potable), TPH MUST, NS Fuel Oil Spill Policy Low Level BTEX & C_6-C_{50}	NB Potable Water BTEX, VPH, Low Level TEH	TPH Fractionation	PAH's	PCB's	VOC's EPA 624,8260	Other Analysis or Comments/Hazards
09 - SW5	SW	Oct22			X		X			X						X						
~~09 - SED5~~	~~SED.~~									X	⊗	M				X	MD						Availble metals
09 - SW6	SW				X		X			X						X						
~~09 - SED6~~	~~SED.~~									X	⊗	⊗				X	MD						Available metals
09 - SW7	SW				X		X			X						X						
~~09 - SED7~~	~~SED.~~									X	⊗	⊗				X	MD						Availble Metals
09 - SW8	SW				X		X			X						X						
~~09 - SED8~~	~~SED~~									X	⊗	X				X	MD						Available Metals
09 - SW9	SW				X		X			X						X						
09 - Product																							Product ID

RELINQUISHED BY: (Signature/Print)	RECEIVED BY: (Signature/Print)	DATE / TIME	PURPOSE OF CHANGE / REMARKS	TEMP @ Maxxam Receipt
MP		Oct23/09	RT 4°C	3
				INTEGRITY Init: Yes No

REENVFOCOC St. John's 05/05

Maxxam Analytics Inc

49-55 Elizabeth Avenue, Suite 101A, St. John's, NL A1A 1W9 Tel: 709-754-0203 Fax: 709-754-8612 Toll Free: 1-888-492-7227
www.maxxamanalytics.com

CHAIN OF CUSTODY RECORD

22304
Page 7 of 7

INVOICE INFORMATION:
Company Name: STANTEC
Contact Name:
Address:
Email:
Ph: Fax:

REPORT INFORMATION (if differs from invoice):
Company Name: STANTEC
Contact Name: Jim Slade
Address: 607 Torbay Rd. St. John's, NL.
Email:
Ph: Fax:

PO #:
Project #: 104857/2900
Proj. Name:
Location: NWP.
Quotation#:
Submitted By: RBP.
Site Task #:

MAXXAM JOB NUMBER: A9E3307
ENTERED BY, Init: PMC
Client Code: 10951

Specify Guideline Requirements:

*Specify Matrix: Surface/Salt/Ground/Tapwater/Sewage/Effluent/Seawater Potable/NonPotable/Tissue/Soil/Sludge/Metal

DUE DATE:
STANDARD: X
RUSH Due Date:
For extra cost rush, specify Due Date. Rush analysis must be scheduled prior to sample submission.
Client will be contacted if Rush date cannot be met.

Sample Identification	Matrix*	Date/Time Sampled	# & type of bottles	Field Filtered & Preserved	Lab Filtration Required	RCAp-30 Choose Total or Diss Metals	RCAp-MS Choose Total or Diss Metals	Metals Water: Total Digest (Default Method)	Metals Water: Dissolved	Mercury: Mercury is not included in soil or water metals scan	Metals Soil: Available Metals Digest Default Method (HNO_3/H_2O_2)	Metals Soil: Total Digest - for sediments ($HNO_3/HF/HClO_4$)	Metals Soil: Tin (required for CCME soils)	Metals Soil: Selenium (low level) Req'd for CCME Residential, Parklands, Agricultural	Metals Soil: Hot Water soluble Boron (required for CCME Agricultural)	TPH MUST (BTEX, C_6-C_{50})	Soil (Potable), TPH MUST, NS Fuel Oil Spill Policy Low Level BTEX & C_6-C_{50}	NB Potable Water BTEX, VPH, Low Level TEH	TPH Fractionation	PAH's	PCB's	VOC's EPA 624,8260	Other Analysis or Comments/Hazards
09-SW10	SW	Oct 22			X		X			X						X						
~~09-SED10~~	~~SED.~~	~~Oct 22~~								X	X	X				X MD						Available metals
09-SS1	SS	Oct 22									X											
09-SS2																			X			
09-SS3											X											
09-SS4											X								X			
09-SS5											X											
09-SS6											X								X	X		
09-SS7											X											
09-SS8											X									X		

RELINQUISHED BY: (Signature/Print)	RECEIVED BY: (Signature/Print)	DATE / TIME	PURPOSE OF CHANGE / REMARKS	TEMP @ Maxxam Receipt
[signature]	[signature]	Oct 23/09	4:00pm	3C
				INTEGRITY Init: Yes No

KEEN\PROCOC St John's 05/09

Your P.O. #: NSD016400
Your Project #: 1044857/Z9100
Site: NWP
Your C.O.C. #: B 64723

Attention: JIM SLADE
Jacques Whitford Limited
607 Torbay Rd
St. John's, NL
A1A 4Y6

Report Date: 2009/11/05

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A9E4696
Received: 2009/10/27, 9:16

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Glycol in Water (1)	1	2009/10/30	2009/11/05		

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
* Results relate only to the items tested.

(1) This test was performed by Bedford to Calgary Subcontract

Encryption Key

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

MICHELLE HILL, Project Manager
Email: Michelle.Hill.Reports@maxxamanalytics.com
Phone# (902) 420-0203

==========

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. SCC and CALA have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 1

This document is in electronic format, hard copy is available on request.

Maxxam Job #: A9E4696
Report Date: 2009/11/05

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

RESULTS OF ANALYSES OF WATER

Maxxam ID		EE0395		
Sampling Date		2009/10/20		
	Units	**09-MW4**	**RDL**	**QC Batch**
Subcontracted Analysis				
Subcontract Parameter	N/A	ATTACHED	N/A	1995815

N/A = Not Applicable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Analytics International Corporation o/a Maxxam Analytics 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel:902-420-0203 Toll-free:800-565-7227 Fax:902-420-8612 www.maxxamanalytics.com

Maxxam Job #: A9E4696
Report Date: 2009/11/05

Jacques Whitford Limited
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

GENERAL COMMENTS

Sample EE0395-01: Poor RCAp Ion Balance due to sample matrix. Possible presence of fine particulate and/or iron precipitate.

Maxxam Analytics International Corporation o/a Maxxam Analytics 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel:902-420-0203 Toll-free:800-565-7227 Fax:902-420-8612 www.maxxamanalytics.com

Validation Signature Page

Maxxam Job #: A9E4696

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

ERIC DEARMAN, Scientific Specialist

==========

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. SCC and CALA have approved this reporting process and electronic report format.

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Your P.O. #: NSD016400
Your Project #: 1044857/Z9100
Site: NWP
Your C.O.C. #: B 64723

Attention: JIM SLADE
Stantec Consulting Ltd
607 Torbay Rd
St. John's, NL
A1A 4Y6

Report Date: 2009/11/10

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A9E4696
Received: 2009/10/27, 9:16

Sample Matrix: Soil
Samples Received: 65

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
TEH in Soil (PIRI)	12	2009/10/29	2009/10/30	ATL SOP 00111 R3	Based on Atl. PIRI
Metals Solid Avail. Unified MS Low N-per	41	N/A	2009/10/30	ATL SOP 00024 R4	Based on EPA6020A
Metals Solid Avail. Unified MS Low N-per	19	N/A	2009/11/02	ATL SOP 00024 R4	Based on EPA6020A
Moisture	41	N/A	2009/10/29	ATL SOP 00001 R3	MOE Handbook 1983
PAH in sediment by GC/MS (Low Level)	8	2009/10/29	2009/11/06	ATL SOP 00102 R3	based on EPA8270C
PAH in sediment by GC/MS (Low Level)	8	2009/10/29	2009/11/07	ATL SOP 00102 R3	based on EPA8270C
PAH in sediment by GC/MS (Low Level)	4	2009/10/29	2009/11/09	ATL SOP 00102 R3	based on EPA8270C
PAH in sediment by GC/MS (Low Level)	5	2009/11/02	2009/11/06	ATL SOP 00102 R3	based on EPA8270C
PCBs in soil by GC/ECD	16	2009/10/29	2009/11/02	ATL SOP 00106 R3	Based on EPA8082
VPH in Soil (PIRI)	12	2009/10/29	2009/10/29	ATL SOP 00117 R4/00119 R6	Based on Atl. PIRI
ModTPH (T1) Calc. for Soil	12	2009/10/28	2009/11/02		Based on Atl. PIRI

Sample Matrix: Water
Samples Received: 50

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Carbonate, Bicarbonate and Hydroxide	50	N/A	2009/11/02		
Alkalinity	40	N/A	2009/11/02	ATL SOP 00013 R4	Based on EPA310.2
Alkalinity	10	N/A	2009/11/03	ATL SOP 00013 R4	Based on EPA310.2
Chloride	50	N/A	2009/11/03	ATL SOP 00014 R6	Based on SM4500-Cl-
Colour	50	N/A	2009/11/02	ATL SOP 00020 R3.	Based on SM2120C
Conductance - water	26	N/A	2009/10/30	ATL SOP 00004 R4/00006 R4	Based on SM2510B
Conductance - water	24	N/A	2009/11/02	ATL SOP 00004 R4/00006 R4	Based on SM2510B
Hardness (calculated as CaCO3)	50	N/A	2009/11/03	ATL SOP 00048	Based on SM2340B
Mercury - Total (CVAA,LL)	50	N/A	2009/10/29	ATL SOP 00026 R5	Based on EPA245.1
Metals Water Diss. OES	50	N/A	2009/11/02	ATL SOP 00025 R4	Based on EPA200.7
Metals Water Diss. MS - Low Level	50	N/A	2009/10/30	ATL SOP 00024 R4	Based on EPA6020A
Ion Balance (% Difference)	50	N/A	2009/11/03		
Anion and Cation Sum	50	N/A	2009/11/03		
Nitrogen Ammonia - water	50	N/A	2009/11/02	ATL SOP 00015 R5	Based on USEPA 350.1
Nitrogen - Nitrate + Nitrite	50	N/A	2009/11/03	ATL SOP 00016 R4	Based on USGS - Enz.
Nitrogen - Nitrite	50	N/A	2009/11/03	ATL SOP 00017 R4	Based on USEPA 354.1
Nitrogen - Nitrate (as N)	50	N/A	2009/11/03	ATL SOP 00018 R3	Based on ASTMD3867
pH	26	N/A	2009/10/30	ATL SOP 00003 R5/00005 R6	Based on EPA150.1
pH	24	N/A	2009/11/02	ATL SOP 00003 R5/00005 R6	Based on EPA150.1

../2

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Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

Sample Matrix: Water
Samples Received: 50

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Phosphorus - ortho	50	N/A	2009/11/03	ATL SOP 00021 R3	Based on USEPA 365.1
Sat. pH and Langelier Index (@ 20C)	50	N/A	2009/11/03		
Sat. pH and Langelier Index (@ 4C)	50	N/A	2009/11/03		
Reactive Silica	10	N/A	2009/11/02	ATL SOP 00022 R3	Based on EPA 366.0
Reactive Silica	40	N/A	2009/11/03	ATL SOP 00022 R3	Based on EPA 366.0
Sulphate	50	N/A	2009/11/03	ATL SOP 00023 R3	Based on EPA 375.4
Total Dissolved Solids (TDS calc)	50	N/A	2009/11/03		
Organic carbon - Total (TOC)	32	N/A	2009/10/30	ATL SOP 00037 R3	Based on SM5310C
Organic carbon - Total (TOC)	18	N/A	2009/11/03	ATL SOP 00037 R3	Based on SM5310C
Turbidity	50	N/A	2009/11/03	ATL SOP 00011 R4	based on EPA 180.1

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
* Results relate only to the items tested.

Encryption Key

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

MICHELLE HILL, Project Manager
Email: Michelle.Hill.Reports@maxxamanalytics.com
Phone# (902) 420-0203

==========

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. SCC and CALA have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 2

Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

RESULTS OF ANALYSES OF SOIL

Maxxam ID		EE0436	EE0437	EE0438	EE0440	EE0442	EE0444	EE0446	EE0451	EE0478	EE0480		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SED-2**	**09-SED-3**	**09-SED-4**	**09-SED5**	**09-SED6**	**09-SED7**	**09-SED8**	**09-SED10**	**09-SS2**	**09-SS4**	**RDL**	**QC Batch**
Inorganics													
Moisture	%	29	54	11	88	56	61	36	92	12	10	1	1994028

Maxxam ID		EE0482	EE0484	EE0485	EE0486	EE0487	EE0492	EE0493	EE0494	EE0495	EE0496		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SS6**	**09-SS8**	**09-SS9**	**09-SS10**	**09-SS11**	**09-SS16**	**09-SS17**	**09-SS18**	**09-SS19**	**09-SS20**	**RDL**	**QC Batch**
Inorganics													
Moisture	%	8	5	8	9	4	5	9	16	21	10	1	1994028

Maxxam ID		EE0497	EE0498		EE0499	EE0500	EE0503	EE0505	EE0506	EE0507	EE0508		
Sampling Date		2009/10/22	2009/10/22		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SS21**	**09-SS22**	**QC Batch**	**09-SS23**	**09-SS24**	**09-SS27**	**09-SS29**	**09-SS30**	**09-SS31**	**09-SS32**	**RDL**	**QC Batch**
Inorganics													
Moisture	%	12	21	1994028	8	15	53	14	36	40	18	1	1994020

Maxxam ID		EE0509	EE0510	EE0511	EE0515	EE0516	EE0518		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SS33**	**09-SS34**	**09-SS35**	**09-SS39**	**09-SS40**	**09-SS42**	**RDL**	**QC Batch**
Inorganics									
Moisture	%	16	8	25	9	24	15	1	1994020

Maxxam ID		EE0522	EE0523	EE0526	EE0527	EE0528	EE0529		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SS46**	**09-SS47**	**09-SS50**	**09-SS51**	**09-SS52**	**09-SS53**	**RDL**	**QC Batch**
Inorganics									
Moisture	%	7	12	8	13	13	22	1	1994020

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Analytics International Corporation o/a Maxxam Analytics 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel:902-420-0203 Toll-free:800-565-7227 Fax:902-420-8612 www.maxxamanalytics.com

Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		EE0436	EE0437	EE0438	EE0440	EE0442	EE0444	EE0446	EE0451	EE0477	EE0477		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SED-2**	**09-SED-3**	**09-SED-4**	**09-SED5**	**09-SED6**	**09-SED7**	**09-SED8**	**09-SED10**	**09-SS1**	**09-SS1 Lab-Dup**	**RDL**	**QC Batch**
Metals													
Available Aluminum (Al)	mg/kg	1400	3000	1900	4000	4900	4800	4600	2400	7000	7500	10	1995672
Available Antimony (Sb)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1995672
Available Arsenic (As)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1995672
Available Barium (Ba)	mg/kg	8	28	17	200	38	51	40	130	53	59	5	1995672
Available Beryllium (Be)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1995672
Available Bismuth (Bi)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1995672
Available Boron (B)	mg/kg	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5	1995672
Available Cadmium (Cd)	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.9	<0.3	<0.3	0.3	1995672
Available Chromium (Cr)	mg/kg	3	7	5	4	12	9	12	5	16	15	2	1995672
Available Cobalt (Co)	mg/kg	<1	2	1	11	4	3	4	5	4	4	1	1995672
Available Copper (Cu)	mg/kg	<2	6	3	20	14	8	5	27	8	9	2	1995672
Available Iron (Fe)	mg/kg	1600	4300	3600	3500	14000	13000	8500	7000	10000	11000	50	1995672
Available Lead (Pb)	mg/kg	1.2	3.9	3.4	300	430	5.7	5.8	8.3	3.1	3.3	0.5	1995672
Available Lithium (Li)	mg/kg	<2	2	<2	<2	5	2	3	<2	5	5	2	1995672
Available Manganese (Mn)	mg/kg	18	54	33	260	99	94	140	140	140	160	2	1995672
Available Mercury (Hg)	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	0.1	1995672
Available Molybdenum (Mo)	mg/kg	<2	<2	<2	<2	2	<2	<2	<2	<2	<2	2	1995672
Available Nickel (Ni)	mg/kg	<2	3	3	9	9	6	6	10	8	8	2	1995672
Available Rubidium (Rb)	mg/kg	<2	5	3	5	8	5	7	4	11	13	2	1995672
Available Selenium (Se)	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	1995672
Available Silver (Ag)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	1995672
Available Strontium (Sr)	mg/kg	<5	10	6	65	11	22	15	120	13	14	5	1995672
Available Thallium (Tl)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1995672
Available Tin (Sn)	mg/kg	<2	<2	<2	<2	33	<2	<2	<2	<2	<2	2	1995672
Available Uranium (U)	mg/kg	<0.1	0.2	0.1	0.2	0.3	0.2	0.3	0.2	0.4	0.5	0.1	1995672
Available Vanadium (V)	mg/kg	5	11	9	9	13	24	17	14	27	27	2	1995672
Available Zinc (Zn)	mg/kg	7	12	9	15	55	16	18	910	21	23	5	1995672

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		EE0479	EE0480	EE0481	EE0482	EE0483	EE0484	EE0485	EE0486	EE0487	EE0488		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SS3**	**09-SS4**	**09-SS5**	**09-SS6**	**09-SS7**	**09-SS8**	**09-SS9**	**09-SS10**	**09-SS11**	**09-SS12**	**RDL**	**QC Batch**
Metals													
Available Aluminum (Al)	mg/kg	14000	1700	3800	3100	2600	2700	3200	2800	2400	1800	10	1995672
Available Antimony (Sb)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1995672
Available Arsenic (As)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1995672
Available Barium (Ba)	mg/kg	110	5	12	9	17	9	29	38	20	17	5	1995672
Available Beryllium (Be)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1995672
Available Bismuth (Bi)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1995672
Available Boron (B)	mg/kg	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5	1995672
Available Cadmium (Cd)	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.3	<0.3	<0.3	0.3	1995672
Available Chromium (Cr)	mg/kg	21	5	5	6	6	6	7	7	5	4	2	1995672
Available Cobalt (Co)	mg/kg	5	<1	2	1	3	1	2	2	2	2	1	1995672
Available Copper (Cu)	mg/kg	32	<2	<2	<2	<2	<2	6	22	5	5	2	1995672
Available Iron (Fe)	mg/kg	13000	3900	3700	4000	3800	4400	5700	8000	4000	3700	50	1995672
Available Lead (Pb)	mg/kg	17	1.2	1.1	1.7	1.1	2.6	1.7	150	1.5	0.9	0.5	1995672
Available Lithium (Li)	mg/kg	6	<2	<2	<2	2	<2	3	<2	<2	<2	2	1995672
Available Manganese (Mn)	mg/kg	140	22	79	60	95	46	67	99	54	45	2	1995672
Available Mercury (Hg)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	0.1	1995672
Available Molybdenum (Mo)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1995672
Available Nickel (Ni)	mg/kg	14	<2	2	2	3	2	5	6	3	3	2	1995672
Available Rubidium (Rb)	mg/kg	15	<2	3	<2	2	<2	6	5	3	3	2	1995672
Available Selenium (Se)	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	1995672
Available Silver (Ag)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	1995672
Available Strontium (Sr)	mg/kg	24	<5	<5	<5	<5	<5	6	7	<5	<5	5	1995672
Available Thallium (Tl)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1995672
Available Tin (Sn)	mg/kg	<2	<2	<2	<2	<2	<2	<2	20	<2	<2	2	1995672
Available Uranium (U)	mg/kg	1.0	0.1	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.1	1995672
Available Vanadium (V)	mg/kg	34	9	7	10	9	11	14	11	8	7	2	1995672
Available Zinc (Zn)	mg/kg	38	<5	8	7	8	10	14	72	11	10	5	1995672

RDL = Reportable Detection Limit
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Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		EE0489			EE0490		EE0491	EE0492	EE0493	EE0494	EE0495	EE0496		
Sampling Date		2009/10/22			2009/10/22		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SS13**	**RDL**	**QC Batch**	**09-SS14**	**RDL**	**09-SS15**	**09-SS16**	**09-SS17**	**09-SS18**	**09-SS19**	**09-SS20**	**RDL**	**QC Batch**
Metals														
Available Aluminum (Al)	mg/kg	2200	10	1995672	3400	100	2100	2000	2600	1800	2100	1700	10	1995798
Available Antimony (Sb)	mg/kg	<2	2	1995672	<20	20	<2	<2	<2	<2	<2	<2	2	1995798
Available Arsenic (As)	mg/kg	<2	2	1995672	<20	20	<2	<2	<2	<2	<2	<2	2	1995798
Available Barium (Ba)	mg/kg	17	5	1995672	60	50	15	15	17	8	15	7	5	1995798
Available Beryllium (Be)	mg/kg	<2	2	1995672	<20	20	<2	<2	<2	<2	<2	<2	2	1995798
Available Bismuth (Bi)	mg/kg	<2	2	1995672	<20	20	<2	<2	<2	<2	<2	<2	2	1995798
Available Boron (B)	mg/kg	<5	5	1995672	<50	50	<5	<5	<5	<5	<5	<5	5	1995798
Available Cadmium (Cd)	mg/kg	<0.3	0.3	1995672	<3	3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.3	1995798
Available Chromium (Cr)	mg/kg	3	2	1995672	5600	20	5	6	8	4	8	9	2	1995798
Available Cobalt (Co)	mg/kg	2	1	1995672	<10	10	1	1	1	<1	<1	<1	1	1995798
Available Copper (Cu)	mg/kg	5	2	1995672	690	20	3	3	3	<2	2	<2	2	1995798
Available Iron (Fe)	mg/kg	3500	50	1995672	20000	500	3300	3000	5200	2000	3800	6700	50	1995798
Available Lead (Pb)	mg/kg	1.3	0.5	1995672	33000	50	15	2.3	16	1.3	10	15	0.5	1995798
Available Lithium (Li)	mg/kg	<2	2	1995672	<20	20	2	3	2	<2	2	<2	2	1995798
Available Manganese (Mn)	mg/kg	45	2	1995672	180	20	34	29	41	20	37	31	2	1995798
Available Mercury (Hg)	mg/kg	<0.1	0.1	1995672	1	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1995798
Available Molybdenum (Mo)	mg/kg	<2	2	1995672	58	20	<2	<2	<2	<2	<2	<2	2	1995798
Available Nickel (Ni)	mg/kg	3	2	1995672	<20	20	2	2	3	<2	<2	<2	2	1995798
Available Rubidium (Rb)	mg/kg	3	2	1995672	<20	20	3	2	3	<2	3	<2	2	1995798
Available Selenium (Se)	mg/kg	<1	1	1995672	<10	10	<1	<1	<1	<1	<1	<1	1	1995798
Available Silver (Ag)	mg/kg	<0.5	0.5	1995672	<5	5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	1995798
Available Strontium (Sr)	mg/kg	6	5	1995672	<50	50	<5	<5	<5	<5	<5	<5	5	1995798
Available Thallium (Tl)	mg/kg	<0.1	0.1	1995672	<1	1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1995798
Available Tin (Sn)	mg/kg	<2	2	1995672	49	20	<2	<2	<2	<2	<2	<2	2	1995798
Available Uranium (U)	mg/kg	0.1	0.1	1995672	<1	1	0.1	0.1	0.2	0.1	0.2	0.2	0.1	1995798
Available Vanadium (V)	mg/kg	7	2	1995672	<20	20	11	9	13	6	17	17	2	1995798
Available Zinc (Zn)	mg/kg	10	5	1995672	390	50	9	7	8	6	8	7	5	1995798

RDL = Reportable Detection Limit
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Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		EE0497	EE0498	EE0501	EE0501	EE0502	EE0503	EE0504	EE0505	EE0506	EE0507		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SS21**	**09-SS22**	**09-SS25**	**09-SS25 Lab-Dup**	**09-SS26**	**09-SS27**	**09-SS28**	**09-SS29**	**09-SS30**	**09-SS31**	**RDL**	**QC Batch**
Metals													
Available Aluminum (Al)	mg/kg	1800	4200	5000	5100	5600	3100	3100	4800	1400	1800	10	1995798
Available Antimony (Sb)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1995798
Available Arsenic (As)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1995798
Available Barium (Ba)	mg/kg	7	37	44	45	45	41	38	70	22	17	5	1995798
Available Beryllium (Be)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1995798
Available Bismuth (Bi)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1995798
Available Boron (B)	mg/kg	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5	1995798
Available Cadmium (Cd)	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3	0.4	<0.3	<0.3	<0.3	<0.3	0.3	1995798
Available Chromium (Cr)	mg/kg	9	12	13	13	9	8	7	23	3	5	2	1995798
Available Cobalt (Co)	mg/kg	<1	3	4	4	2	1	2	3	<1	<1	1	1995798
Available Copper (Cu)	mg/kg	<2	8	14	14	8	28	4	14	4	6	2	1995798
Available Iron (Fe)	mg/kg	5800	9400	8300	8600	6500	5300	5800	7600	2500	3800	50	1995798
Available Lead (Pb)	mg/kg	2.3	5.5	1.5	1.5	7.2	93	22	30	8.5	3.0	0.5	1995798
Available Lithium (Li)	mg/kg	<2	4	5	5	<2	<2	<2	4	<2	<2	2	1995798
Available Manganese (Mn)	mg/kg	30	110	120	120	69	23	76	79	260	19	2	1995798
Available Mercury (Hg)	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1	0.2	0.1	<0.1	<0.1	<0.1	0.1	1995798
Available Molybdenum (Mo)	mg/kg	<2	<2	<2	<2	<2	<2	6	<2	<2	<2	2	1995798
Available Nickel (Ni)	mg/kg	2	6	7	8	5	3	4	6	<2	<2	2	1995798
Available Rubidium (Rb)	mg/kg	<2	7	9	10	3	<2	4	6	2	<2	2	1995798
Available Selenium (Se)	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	1995798
Available Silver (Ag)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	1995798
Available Strontium (Sr)	mg/kg	6	12	9	10	17	14	18	7	9	10	5	1995798
Available Thallium (Tl)	mg/kg	<0.1	<0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1995798
Available Tin (Sn)	mg/kg	<2	3	<2	<2	<2	<2	<2	<2	<2	<2	2	1995798
Available Uranium (U)	mg/kg	0.2	0.3	0.3	0.3	0.2	0.1	0.1	0.2	<0.1	0.1	0.1	1995798
Available Vanadium (V)	mg/kg	18	20	19	19	12	12	13	17	5	9	2	1995798
Available Zinc (Zn)	mg/kg	10	18	18	19	53	52	25	25	17	17	5	1995798

RDL = Reportable Detection Limit
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Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		EE0508		EE0509		EE0510	EE0511	EE0512		EE0513	EE0514	EE0515		
Sampling Date		2009/10/22		2009/10/22		2009/10/22	2009/10/22	2009/10/22		2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SS32**	**RDL**	**09-SS33**	**RDL**	**09-SS34**	**09-SS35**	**09-SS36**	**QC Batch**	**09-SS37**	**09-SS38**	**09-SS39**	**RDL**	**QC Batch**
Metals														
Available Aluminum (Al)	mg/kg	1600	10	1700	10	1700	1800	1800	1995798	2000	4500	2400	10	1997301
Available Antimony (Sb)	mg/kg	<2	2	<2	2	<2	<2	<2	1995798	<2	<2	<2	2	1997301
Available Arsenic (As)	mg/kg	<2	2	<2	2	<2	<2	<2	1995798	<2	<2	<2	2	1997301
Available Barium (Ba)	mg/kg	12	5	21	5	27	13	15	1995798	14	90	15	5	1997301
Available Beryllium (Be)	mg/kg	<2	2	<2	2	<2	<2	<2	1995798	<2	<2	<2	2	1997301
Available Bismuth (Bi)	mg/kg	<2	2	<2	2	<2	<2	<2	1995798	<2	<2	<2	2	1997301
Available Boron (B)	mg/kg	<5	5	<5	5	<5	<5	<5	1995798	<5	<5	<5	5	1997301
Available Cadmium (Cd)	mg/kg	<0.3	0.3	0.4	0.3	<0.3	<0.3	<0.3	1995798	<0.3	<0.3	<0.3	0.3	1997301
Available Chromium (Cr)	mg/kg	6	2	7	2	5	6	3	1995798	4	9	3	2	1997301
Available Cobalt (Co)	mg/kg	1	1	2	1	2	2	1	1995798	1	6	1	1	1997301
Available Copper (Cu)	mg/kg	2	2	20	2	3	4	<2	1995798	2	29	3	2	1997301
Available Iron (Fe)	mg/kg	4900	50	10000	50	4500	4900	2600	1995798	3000	15000	2800	50	1997301
Available Lead (Pb)	mg/kg	3.8	0.5	19	0.5	1.7	2.4	0.8	1995798	1.3	15	1.0	0.5	1997301
Available Lithium (Li)	mg/kg	<2	2	2	2	3	3	3	1995798	<2	2	2	2	1997301
Available Manganese (Mn)	mg/kg	48	2	90	2	53	55	35	1995798	38	410	37	2	1997301
Available Mercury (Hg)	mg/kg	0.1	0.1	<0.2 (1)	0.2	<0.1	<0.1	<0.1	1995798	<0.1	0.1	<0.1	0.1	1997301
Available Molybdenum (Mo)	mg/kg	<2	2	<2	2	<2	<2	<2	1995798	<2	<2	<2	2	1997301
Available Nickel (Ni)	mg/kg	3	2	5	2	4	4	3	1995798	2	8	2	2	1997301
Available Rubidium (Rb)	mg/kg	3	2	2	2	3	3	3	1995798	3	4	2	2	1997301
Available Selenium (Se)	mg/kg	<1	1	<1	1	<1	<1	<1	1995798	<1	<1	<1	1	1997301
Available Silver (Ag)	mg/kg	<0.5	0.5	<0.5	0.5	<0.5	<0.5	<0.5	1995798	<0.5	<0.5	<0.5	0.5	1997301
Available Strontium (Sr)	mg/kg	<5	5	7	5	5	9	<5	1995798	<5	74	10	5	1997301
Available Thallium (Tl)	mg/kg	<0.1	0.1	<0.1	0.1	<0.1	<0.1	<0.1	1995798	<0.1	<0.1	<0.1	0.1	1997301
Available Tin (Sn)	mg/kg	<2	2	20	2	<2	<2	<2	1995798	<2	3	<2	2	1997301
Available Uranium (U)	mg/kg	0.2	0.1	0.1	0.1	0.2	0.2	0.1	1995798	0.1	0.7	0.1	0.1	1997301
Available Vanadium (V)	mg/kg	12	2	10	2	8	10	6	1995798	8	16	7	2	1997301
Available Zinc (Zn)	mg/kg	26	5	50	5	12	13	8	1995798	10	99	9	5	1997301

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Elevated reporting limit due to sample matrix.

Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		EE0517	EE0518	EE0518	EE0519	EE0520	EE0521	EE0522	EE0523	EE0524	EE0525		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SS41**	**09-SS42**	**09-SS42 Lab-Dup**	**09-SS43**	**09-SS44**	**09-SS45**	**09-SS46**	**09-SS47**	**09-SS48**	**09-SS49**	**RDL**	**QC Batch**
Metals													
Available Aluminum (Al)	mg/kg	2200	3700	3700	4700	3500	3700	4000	4800	3100	2700	10	1997301
Available Antimony (Sb)	mg/kg	<2	<2	<2	<2	2	<2	<2	<2	<2	<2	2	1997301
Available Arsenic (As)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1997301
Available Barium (Ba)	mg/kg	14	37	35	49	45	37	44	50	32	25	5	1997301
Available Beryllium (Be)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1997301
Available Bismuth (Bi)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1997301
Available Boron (B)	mg/kg	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5	1997301
Available Cadmium (Cd)	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.3	1997301
Available Chromium (Cr)	mg/kg	5	13	9(1)	13	12	9	11	11	8	6	2	1997301
Available Cobalt (Co)	mg/kg	1	2	2	3	3	2	3	4	3	2	1	1997301
Available Copper (Cu)	mg/kg	3	5	5	8	17	16	17	14	7	5	2	1997301
Available Iron (Fe)	mg/kg	3300	5700	5900	7600	6200	6100	6500	7600	6000	5100	50	1997301
Available Lead (Pb)	mg/kg	5.9	170	31(1)	17	69	66	48	8.6	6.4	3.2	0.5	1997301
Available Lithium (Li)	mg/kg	<2	3	3	4	3	3	3	4	3	3	2	1997301
Available Manganese (Mn)	mg/kg	34	71	67	110	75	64	76	120	74	61	2	1997301
Available Mercury (Hg)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1997301
Available Molybdenum (Mo)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1997301
Available Nickel (Ni)	mg/kg	3	5	5	7	6	5	6	7	5	5	2	1997301
Available Rubidium (Rb)	mg/kg	3	7	7	10	6	5	7	10	6	6	2	1997301
Available Selenium (Se)	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	1997301
Available Silver (Ag)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	1997301
Available Strontium (Sr)	mg/kg	<5	7	7	10	7	6	7	21	7	6	5	1997301
Available Thallium (Tl)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1997301
Available Tin (Sn)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1997301
Available Uranium (U)	mg/kg	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.4	0.2	0.2	0.1	1997301
Available Vanadium (V)	mg/kg	8	13	14	19	15	15	16	17	15	11	2	1997301
Available Zinc (Zn)	mg/kg	8	98	90	38	36	27	29	31	20	23	5	1997301

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Poor RPD due to sample inhomogeneity.

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Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		EE0526	EE0527	EE0529	EE0530	EE0531	EE0532	EE0533		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SS50**	**09-SS51**	**09-SS53**	**09-SS54**	**09-SS55**	**09-SS56**	**09-SS57**	**RDL**	**QC Batch**
Metals										
Available Aluminum (Al)	mg/kg	5900	5400	2500	3700	4000	4200	3300	10	1997301
Available Antimony (Sb)	mg/kg	<2	<2	<2	<2	<2	<2	<2	2	1997301
Available Arsenic (As)	mg/kg	<2	<2	<2	<2	<2	<2	<2	2	1997301
Available Barium (Ba)	mg/kg	57	64	25	45	51	35	37	5	1997301
Available Beryllium (Be)	mg/kg	<2	<2	<2	<2	<2	<2	<2	2	1997301
Available Bismuth (Bi)	mg/kg	<2	<2	<2	<2	<2	<2	<2	2	1997301
Available Boron (B)	mg/kg	<5	<5	<5	<5	<5	<5	<5	5	1997301
Available Cadmium (Cd)	mg/kg	<0.3	<0.3	<0.3	0.3	1.8	<0.3	<0.3	0.3	1997301
Available Chromium (Cr)	mg/kg	13	13	5	11	14	11	9	2	1997301
Available Cobalt (Co)	mg/kg	4	5	2	3	3	3	3	1	1997301
Available Copper (Cu)	mg/kg	13	10	4	7	49	10	9	2	1997301
Available Iron (Fe)	mg/kg	8400	8400	4400	6500	6800	7600	6500	50	1997301
Available Lead (Pb)	mg/kg	14	5.7	32	23	210	6.4	9.5	0.5	1997301
Available Lithium (Li)	mg/kg	5	5	3	4	4	4	4	2	1997301
Available Manganese (Mn)	mg/kg	120	130	46	150	94	78	75	2	1997301
Available Mercury (Hg)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1997301
Available Molybdenum (Mo)	mg/kg	<2	<2	<2	<2	<2	<2	<2	2	1997301
Available Nickel (Ni)	mg/kg	8	8	4	6	7	6	6	2	1997301
Available Rubidium (Rb)	mg/kg	11	11	5	8	6	8	8	2	1997301
Available Selenium (Se)	mg/kg	<1	<1	<1	<1	<1	<1	<1	1	1997301
Available Silver (Ag)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	1997301
Available Strontium (Sr)	mg/kg	13	14	7	24	8	7	8	5	1997301
Available Thallium (Tl)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1997301
Available Tin (Sn)	mg/kg	<2	<2	<2	<2	5	<2	<2	2	1997301
Available Uranium (U)	mg/kg	0.3	0.3	0.2	0.2	1.9	0.3	0.3	0.1	1997301
Available Vanadium (V)	mg/kg	19	20	9	14	15	18	16	2	1997301
Available Zinc (Zn)	mg/kg	31	40	100	90	88	31	33	5	1997301

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Maxxam ID		EE0478	EE0480	EE0482	EE0486		EE0492			EE0493		EE0494		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22		2009/10/22			2009/10/22		2009/10/22		
	Units	**09-SS2**	**09-SS4**	**09-SS6**	**09-SS10**	**RDL**	**09-SS16**	**RDL**	**QC Batch**	**09-SS17**	**RDL**	**09-SS18**	**RDL**	**QC Batch**
Polyaromatic Hydrocarbons														
1-Methylnaphthalene	mg/kg	<0.005	<0.005	<0.005	0.006	0.005	<0.005	0.005	1996914	<0.2(1)	0.2	<0.005	0.005	1994358
2-Methylnaphthalene	mg/kg	<0.005	<0.005	<0.005	0.011	0.005	<0.02(1)	0.02	1996914	<0.06(1)	0.06	<0.005	0.005	1994358
Acenaphthene	mg/kg	<0.005	<0.005	<0.005	0.052	0.005	0.10	0.005	1996914	<0.2(1)	0.2	<0.03(1)	0.03	1994358
Acenaphthylene	mg/kg	<0.005	<0.005	<0.005	<0.005	0.005	0.18	0.005	1996914	0.070	0.005	0.046	0.005	1994358
Anthracene	mg/kg	<0.005	<0.005	<0.005	0.091	0.005	<0.03(1)	0.03	1996914	<0.07(1)	0.07	<0.005	0.005	1994358
Benzo(a)anthracene	mg/kg	<0.005	<0.005	<0.005	0.20	0.005	<0.005	0.005	1996914	<0.005	0.005	<0.005	0.005	1994358
Benzo(a)pyrene	mg/kg	<0.005	<0.005	<0.005	0.17	0.005	<0.005	0.005	1996914	<0.005	0.005	<0.005	0.005	1994358
Benzo(b)fluoranthene	mg/kg	<0.005	<0.005	<0.005	0.16	0.005	<0.005	0.005	1996914	0.019	0.005	<0.005	0.005	1994358
Benzo(g,h,i)perylene	mg/kg	<0.005	<0.005	<0.005	0.12	0.005	<0.005	0.005	1996914	0.019	0.005	<0.005	0.005	1994358
Benzo(k)fluoranthene	mg/kg	<0.005	<0.005	<0.005	0.16	0.005	<0.005	0.005	1996914	0.019	0.005	<0.005	0.005	1994358
Chrysene	mg/kg	<0.005	<0.005	<0.005	0.25	0.005	<0.005	0.005	1996914	0.029	0.005	0.007	0.005	1994358
Dibenz(a,h)anthracene	mg/kg	<0.005	<0.005	<0.005	0.030	0.005	<0.005	0.005	1996914	<0.005	0.005	<0.005	0.005	1994358
Fluoranthene	mg/kg	0.007	0.009	<0.005	0.50	0.005	<0.005	0.005	1996914	0.019	0.005	<0.005	0.005	1994358
Fluorene	mg/kg	<0.005	<0.005	<0.005	0.034	0.005	<0.02(1)	0.02	1996914	<0.2(1)	0.2	<0.005	0.005	1994358
Indeno(1,2,3-cd)pyrene	mg/kg	<0.005	<0.005	<0.005	0.12	0.005	<0.005	0.005	1996914	0.019	0.005	<0.005	0.005	1994358
Naphthalene	mg/kg	<0.005	<0.005	<0.005	0.039	0.005	<0.005	0.005	1996914	0.021	0.005	<0.005	0.005	1994358
Perylene	mg/kg	<0.005	<0.005	<0.005	0.042	0.005	<0.005	0.005	1996914	<0.005	0.005	<0.005	0.005	1994358
Phenanthrene	mg/kg	<0.005	0.006	<0.005	0.37	0.005	0.007	0.005	1996914	0.11	0.005	<0.005	0.005	1994358
Pyrene	mg/kg	<0.005	0.008	<0.005	0.39	0.005	0.026	0.005	1996914	0.074	0.005	0.013	0.005	1994358
Surrogate Recovery (%)														
D10-Anthracene	%	86	86	82	97		91		1996914	105		70		1994358
D14-Terphenyl	%	90	89	87	82		86		1996914	91		77		1994358
D8-Acenaphthylene	%	79	82	74	72		240(2)		1996914	879(3)		85		1994358

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Elevated PAH RDL(s) due to matrix interference.
(2) - PAH surrogate(s) not within acceptance limits. Sample past recommended hold time for repeat analysis.
(3) - PAH surrogate(s) not within acceptance limits due to sample dilution / product interference.

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Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Maxxam ID		EE0496	EE0499	EE0500	EE0505	EE0506	EE0507		EE0508		EE0509		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		2009/10/22		2009/10/22		
	Units	**09-SS20**	**09-SS23**	**09-SS24**	**09-SS29**	**09-SS30**	**09-SS31**	**RDL**	**09-SS32**	**RDL**	**09-SS33**	**RDL**	**QC Batch**
Polyaromatic Hydrocarbons													
1-Methylnaphthalene	mg/kg	0.13	<0.005	<0.005	<0.005	<0.005	0.019	0.005	0.39	0.005	0.027	0.005	1994358
2-Methylnaphthalene	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	0.019	0.005	0.51	0.005	0.036	0.005	1994358
Acenaphthene	mg/kg	0.031	<0.005	<0.005	0.007	<0.005	0.21	0.005	2.9	0.005	0.26	0.005	1994358
Acenaphthylene	mg/kg	0.21	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	0.13	0.005	0.012	0.005	1994358
Anthracene	mg/kg	0.011	<0.005	0.006	0.017	<0.005	0.38	0.005	9.4(1)	0.05	0.44	0.005	1994358
Benzo(a)anthracene	mg/kg	0.25	0.015	0.022	0.081	0.008	0.73	0.005	14(1)	0.05	1.1	0.005	1994358
Benzo(a)pyrene	mg/kg	0.13	0.017	0.019	0.075	0.007	0.42	0.005	12(1)	0.05	0.91	0.005	1994358
Benzo(b)fluoranthene	mg/kg	0.17	0.014	0.020	0.077	0.009	0.39	0.005	11(1)	0.05	0.76	0.005	1994358
Benzo(g,h,i)perylene	mg/kg	0.094	0.010	0.011	0.049	<0.005	0.12	0.005	4.9	0.005	0.49	0.005	1994358
Benzo(k)fluoranthene	mg/kg	0.17	0.014	0.020	0.077	0.009	0.39	0.005	11(1)	0.05	0.76	0.005	1994358
Chrysene	mg/kg	0.30	0.021	0.030	0.11	0.016	0.74	0.005	13(1)	0.05	1.2	0.005	1994358
Dibenz(a,h)anthracene	mg/kg	0.022	<0.005	<0.005	0.011	<0.005	0.042	0.005	1.3	0.005	0.11	0.005	1994358
Fluoranthene	mg/kg	0.16	0.029	0.063	0.15	0.020	1.8	0.005	36(1)	0.05	2.6	0.005	1994358
Fluorene	mg/kg	0.055	<0.005	<0.005	<0.005	<0.005	0.16	0.005	3.3	0.005	0.18	0.005	1994358
Indeno(1,2,3-cd)pyrene	mg/kg	0.10	0.012	0.012	0.056	<0.005	0.20	0.005	6.9(1)	0.05	0.57	0.005	1994358
Naphthalene	mg/kg	0.038	<0.005	<0.005	<0.005	<0.005	0.030	0.005	0.87	0.005	0.12	0.005	1994358
Perylene	mg/kg	0.024	<0.005	0.006	0.017	<0.005	0.080	0.005	2.4	0.005	0.26	0.005	1994358
Phenanthrene	mg/kg	0.071	0.008	0.030	0.056	0.010	1.3	0.005	31(1)	0.05	1.5	0.005	1994358
Pyrene	mg/kg	0.57	0.026	0.047	0.13	0.015	1.4	0.005	27(1)	0.05	2.1	0.005	1994358
Surrogate Recovery (%)													
D10-Anthracene	%	97	76	73	78	79	69(2)		85		73		1994358
D14-Terphenyl	%	80	89	82	78	81	73		83		78		1994358
D8-Acenaphthylene	%	719(3)	72	73	73	70	66(2)		76		61(2)		1994358

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Elevated PAH RDL(s) due to sample dilution.
(2) - PAH surrogate(s) not within acceptance limits. Sample past recommended hold time for repeat analysis.
(3) - PAH surrogate(s) not within acceptance limits due to sample dilution / product interference.

Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Maxxam ID		EE0510	EE0511	EE0516	EE0518	EE0522		EE0523		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		2009/10/22		
	Units	**09-SS34**	**09-SS35**	**09-SS40**	**09-SS42**	**09-SS46**	**RDL**	**09-SS47**	**RDL**	**QC Batch**
Polyaromatic Hydrocarbons										
1-Methylnaphthalene	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	0.097	0.005	1994358
2-Methylnaphthalene	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	0.13	0.005	1994358
Acenaphthene	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	1.0	0.005	1994358
Acenaphthylene	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	0.035	0.005	1994358
Anthracene	mg/kg	<0.005	0.010	<0.005	<0.005	<0.005	0.005	2.5	0.005	1994358
Benzo(a)anthracene	mg/kg	0.011	0.033	<0.005	<0.005	0.014	0.005	5.1	0.005	1994358
Benzo(a)pyrene	mg/kg	0.008	0.033	<0.005	<0.005	0.015	0.005	3.7	0.005	1994358
Benzo(b)fluoranthene	mg/kg	0.013	0.084	<0.005	<0.005	0.017	0.005	3.0	0.005	1994358
Benzo(g,h,i)perylene	mg/kg	<0.005	0.034	0.009	<0.005	0.015	0.005	2.0	0.005	1994358
Benzo(k)fluoranthene	mg/kg	0.013	0.084	<0.005	<0.005	0.016	0.005	3.0	0.005	1994358
Chrysene	mg/kg	0.019	0.15	0.007	<0.005	0.038	0.005	4.7	0.005	1994358
Dibenz(a,h)anthracene	mg/kg	<0.005	0.007	<0.005	<0.005	<0.005	0.005	0.51	0.005	1994358
Fluoranthene	mg/kg	0.011	0.12	0.007	<0.005	0.027	0.005	12(1)	0.03	1994358
Fluorene	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	0.99	0.005	1994358
Indeno(1,2,3-cd)pyrene	mg/kg	0.006	0.036	0.009	<0.005	0.015	0.005	2.5	0.005	1994358
Naphthalene	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	0.37	0.005	1994358
Perylene	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	0.87	0.005	1994358
Phenanthrene	mg/kg	<0.005	0.025	0.007	<0.005	0.019	0.005	8.9(1)	0.03	1994358
Pyrene	mg/kg	0.009	0.11	0.007	<0.005	0.024	0.005	8.9(1)	0.03	1994358
Surrogate Recovery (%)										
D10-Anthracene	%	77	70	80	72	80		84		1994358
D14-Terphenyl	%	83	81	79	82	67		71		1994358
D8-Acenaphthylene	%	76	66(2)	71	62(2)	64(2)		68(2)		1994358

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Elevated PAH RDL(s) due to sample dilution.
(2) - PAH surrogate(s) not within acceptance limits. Sample past recommended hold time for repeat analysis.

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Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Maxxam ID		EE0526		EE0527		EE0528	EE0529	EE0529		
Sampling Date		2009/10/22		2009/10/22		2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SS50**	**RDL**	**09-SS51**	**RDL**	**09-SS52**	**09-SS53**	**09-SS53 Lab-Dup**	**RDL**	**QC Batch**
Polyaromatic Hydrocarbons										
1-Methylnaphthalene	mg/kg	0.26	0.005	0.48	0.005	<0.005	<0.005	<0.005	0.005	1994358
2-Methylnaphthalene	mg/kg	0.40	0.005	0.89	0.005	<0.005	0.007	0.009	0.005	1994358
Acenaphthene	mg/kg	2.7	0.005	2.5	0.005	0.019	0.060	0.058	0.005	1994358
Acenaphthylene	mg/kg	0.066	0.005	0.13	0.005	<0.005	<0.005	<0.005	0.005	1994358
Anthracene	mg/kg	7.6(1)	0.05	6.3(1)	0.03	0.033	0.12	0.14	0.005	1994358
Benzo(a)anthracene	mg/kg	12(1)	0.05	10(1)	0.03	0.099	0.26	0.26	0.005	1994358
Benzo(a)pyrene	mg/kg	10(1)	0.05	7.6(1)	0.03	0.084	0.18	0.18	0.005	1994358
Benzo(b)fluoranthene	mg/kg	9.2(1)	0.05	7.1(1)	0.03	0.077	0.17	0.16	0.005	1994358
Benzo(g,h,i)perylene	mg/kg	5.5(1)	0.05	3.9	0.005	0.079	0.19	0.18	0.005	1994358
Benzo(k)fluoranthene	mg/kg	9.2(1)	0.05	7.1(1)	0.03	0.077	0.17	0.16	0.005	1994358
Chrysene	mg/kg	13(1)	0.05	10(1)	0.03	0.11	0.26	0.25	0.005	1994358
Dibenz(a,h)anthracene	mg/kg	1.6	0.005	1.3	0.005	0.016	0.030	0.029	0.005	1994358
Fluoranthene	mg/kg	32(1)	0.05	26(1)	0.03	0.18	0.56	0.58	0.005	1994358
Fluorene	mg/kg	3.2	0.005	3.1	0.005	0.014	0.054	0.063	0.005	1994358
Indeno(1,2,3-cd)pyrene	mg/kg	6.4(1)	0.05	5.0	0.005	0.081	0.16	0.15	0.005	1994358
Naphthalene	mg/kg	0.88	0.005	2.8	0.005	<0.005	0.018	0.025	0.005	1994358
Perylene	mg/kg	2.4	0.005	1.6	0.005	0.023	0.045	0.057	0.005	1994358
Phenanthrene	mg/kg	25(1)	0.05	22(1)	0.03	0.14	0.44	0.50	0.005	1994358
Pyrene	mg/kg	24(1)	0.05	19(1)	0.03	0.15	0.44	0.45	0.005	1994358
Surrogate Recovery (%)										
D10-Anthracene	%	85		80		79	90	102		1994358
D14-Terphenyl	%	72		71		69(2)	81	92		1994358
D8-Acenaphthylene	%	74		66(2)		65(2)	70(2)	85		1994358

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Elevated PAH RDL(s) due to sample dilution.
(2) - PAH surrogate(s) not within acceptance limits. Sample past recommended hold time for repeat analysis.

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Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ATLANTIC RBCA HYDROCARBONS (SOIL)

Maxxam ID		EE0436	EE0437	EE0438	EE0440	EE0442	EE0444	EE0446		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SED-2**	**09-SED-3**	**09-SED-4**	**09-SED5**	**09-SED6**	**09-SED7**	**09-SED8**	**RDL**	**QC Batch**
Petroleum Hydrocarbons										
Benzene	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	1993958
Toluene	mg/kg	<0.03	<0.03	<0.03	0.70	<0.03	<0.03	<0.03	0.03	1993958
Ethylbenzene	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	1993958
Xylene (Total)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	1993958
C6 - C10 (less BTEX)	mg/kg	<3	<3	<3	<3	<3	<3	<3	3	1993958
>C10-C21 Hydrocarbons	mg/kg	<15	470	19	380	62	410	170	15	1994391
>C21-<C32 Hydrocarbons	mg/kg	<15	<15	71	1300	630	190	100	15	1994391
Modified TPH (Tier1)	mg/kg	<20	470	90	1600	690	610	280	20	1991470
Surrogate Recovery (%)										
Isobutylbenzene - Extractable	%	101	96	101	107	99	103	96		1994391
Isobutylbenzene - Volatile	%	127	116	101	87	128	102	129		1993958
n-Dotriacontane - Extractable	%	109	102(1)	104(2)	111(3)	101(4)	107(5)	111(5)		1994391

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Weathered fuel oil fraction.
(2) - No resemblance to petroleum products.
(3) - One product in fuel / lube range. Unidentified compound(s) in fuel / lube range.
(4) - Lube oil fraction.
(5) - Weathered fuel oil fraction. No resemblance to petroleum products in lube oil range.

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ATLANTIC RBCA HYDROCARBONS (SOIL)

Maxxam ID		EE0451	EE0494	EE0495	EE0498	EE0515	EE0515		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SED10**	**09-SS18**	**09-SS19**	**09-SS22**	**09-SS39**	**09-SS39 Lab-Dup**	**RDL**	**QC Batch**
Petroleum Hydrocarbons									
Benzene	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	1993958
Toluene	mg/kg	0.62	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	1993958
Ethylbenzene	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	1993958
Xylene (Total)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	1993958
C6 - C10 (less BTEX)	mg/kg	<3	<3	170	<3	<3	<3	3	1993958
>C10-C21 Hydrocarbons	mg/kg	670	2300	18000	63	<15		15	1994391
>C21-<C32 Hydrocarbons	mg/kg	2600	72	160	140	18		15	1994391
Modified TPH (Tier1)	mg/kg	3200	2300	19000	210	<20		20	1991470
Surrogate Recovery (%)									
Isobutylbenzene - Extractable	%	97	104	82	99	93			1994391
Isobutylbenzene - Volatile	%	96	116	100	111	112	108		1993958
n-Dotriacontane - Extractable	%	104(1)	102(2)	114(3)	110(4)	100(5)			1994391

POLYCHLORINATED BIPHENYLS BY GC-ECD (SOIL)

Maxxam ID		EE0482	EE0484	EE0484	EE0485	EE0487	EE0496	EE0497	EE0499	EE0500	EE0503		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SS6**	**09-SS8**	**09-SS8 Lab-Dup**	**09-SS9**	**09-SS11**	**09-SS20**	**09-SS21**	**09-SS23**	**09-SS24**	**09-SS27**	**RDL**	**QC Batch**
PCBs													
Total PCB	ug/g	<0.05	<0.05	<0.05	<0.05	<0.05	0.16	<0.05	<0.05	<0.05	<0.05	0.05	1994277
Surrogate Recovery (%)													
Decachlorobiphenyl	%	95	95	93	95	96	81(6)	86	94	88	97(7)		1994277

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - One product in fuel / lube range. Unidentified compound(s) in fuel / lube range.
(2) - Weathered fuel oil fraction.
(3) - Fuel oil fraction.
(4) - Weathered fuel oil fraction. Possible lube oil fraction.
(5) - No resemblance to petroleum products.
(6) - Aroclor 1260.
(7) - PCB:Unidentified (possibly halogenated) compounds detected.

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Stantec Consulting Ltd
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Project name: NWP
Your P.O. #: NSD016400

POLYCHLORINATED BIPHENYLS BY GC-ECD (SOIL)

Maxxam ID		EE0505	EE0506	EE0509	EE0515	EE0522	EE0523	EE0527		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SS29**	**09-SS30**	**09-SS33**	**09-SS39**	**09-SS46**	**09-SS47**	**09-SS51**	**RDL**	**QC Batch**
PCBs										
Total PCB	ug/g	<0.05	<0.05	3.1	<0.05	<0.05	<0.05	<0.05	0.05	1994277
Surrogate Recovery (%)										
Decachlorobiphenyl	%	92	97	93(1)	92	97	92(2)	93(2)		1994277

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Aroclor 1254.
(2) - PCB:Unidentified (possibly halogenated) compounds detected.

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RESULTS OF ANALYSES OF WATER

Maxxam ID		EE0391	EE0392		EE0393		EE0394		EE0395		EE0396		
Sampling Date		2009/10/20	2009/10/20		2009/10/20		2009/10/20		2009/10/20		2009/10/20		
	Units	**09-MW1**	**09-MW2S**	**RDL**	**09-MW2D**	**RDL**	**09-MW3**	**RDL**	**09-MW4**	**RDL**	**09-MW5**	**RDL**	**QC Batch**
Calculated Parameters													
Anion Sum	me/L	0.810	0.560	N/A	5.40	N/A	0.540	N/A	1.35	N/A	0.940	N/A	1991488
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	37	25	1	243	1	20	1	65	1	42	1	1991484
Calculated TDS	mg/L	66	144	1	220	1	50	1	126	1	67	1	1991491
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	<1	1	2	1	<1	1	<1	1	<1	1	1991484
Cation Sum	me/L	1.47	5.86	N/A	1.71	N/A	0.910	N/A	2.73	N/A	1.03	N/A	1991488
Hardness (CaCO3)	mg/L	54	220	1	47	1	25	1	78	1	39	1	1991486
Ion Balance (% Difference)	%	29.0	82.6	N/A	51.9	N/A	25.5	N/A	33.8	N/A	4.57	N/A	1991487
Langelier Index (@ 20C)	N/A	-1.80	-2.06		0.148		-3.12		-1.71		-1.22		1991489
Langelier Index (@ 4C)	N/A	-2.05	-2.31		-0.102		-3.37		-1.96		-1.47		1991490
Nitrate (N)	mg/L	<0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	1991517
Saturation pH (@ 20C)	N/A	8.51	8.30		7.88		9.19		8.12		8.67		1991489
Saturation pH (@ 4C)	N/A	8.76	8.55		8.13		9.44		8.37		8.92		1991490
Inorganics													
Total Alkalinity (Total as CaCO3)	mg/L	37	25	5	250	30	20	5	65	5	42	5	1996934
Dissolved Chloride (Cl)	mg/L	2	2	1	7	1	2	1	2	1	3	1	1996937
Colour	TCU	49	37	5	44	5	26	5	240	30	10	5	1996940
Nitrate + Nitrite	mg/L	<0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	1996943
Nitrite (N)	mg/L	<0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	1996944
Nitrogen (Ammonia Nitrogen)	mg/L	0.62	<0.05	0.05	0.09	0.05	0.14	0.05	<0.05	0.05	<0.05	0.05	1997489
Total Organic Carbon (C)	mg/L	16	19	5	12	5	30	5	21	5	<5(1)	5	1996012
Orthophosphate (P)	mg/L	<0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	1996942
pH	pH	6.71	6.24	N/A	8.03	N/A	6.07	N/A	6.41	N/A	7.45	N/A	1995985
Reactive Silica (SiO2)	mg/L	10	13	0.5	14	0.5	11	0.5	22	0.5	18	0.5	1996939
Dissolved Sulphate (SO4)	mg/L	<2	<2	2	14	2	4	2	<2	2	<2	2	1996938
Turbidity	NTU	670	830	10	89	1	>1000	10	>1000	10	240	1	1998639
Conductivity	uS/cm	83	65	1	460	1	62	1	130	1	94	1	1995996

N/A = Not Applicable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Detection limit increased due to sample matrix.

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RESULTS OF ANALYSES OF WATER

Maxxam ID		EE0397			EE0398	EE0398			EE0399		EE0400		
Sampling Date		2009/10/20			2009/10/20	2009/10/20			2009/10/20		2009/10/20		
	Units	**09-MW6**	**RDL**	**QC Batch**	**09-MW7**	**09-MW7 Lab-Dup**	**RDL**	**QC Batch**	**09-MW8**	**RDL**	**09-MW9**	**RDL**	**QC Batch**
Calculated Parameters													
Anion Sum	me/L	0.900	N/A	1991488	3.91		N/A	1991488	1.10	N/A	2.87	N/A	1991488
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	31	1	1991484	191		1	1991484	50	1	132	1	1991484
Calculated TDS	mg/L	84	1	1991491	210		1	1991491	84	1	171	1	1991491
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	1	1991484	<1		1	1991484	<1	1	<1	1	1991484
Cation Sum	me/L	1.92	N/A	1991488	3.55		N/A	1991488	1.77	N/A	3.17	N/A	1991488
Hardness (CaCO3)	mg/L	70	1	1991486	150		1	1991486	72	1	130	1	1991486
Ion Balance (% Difference)	%	36.2	N/A	1991487	4.83		N/A	1991487	23.3	N/A	4.97	N/A	1991487
Langelier Index (@ 20C)	N/A	-1.78		1991489	0.0370			1991489	-1.43		-0.207		1991489
Langelier Index (@ 4C)	N/A	-2.04		1991490	-0.213			1991490	-1.69		-0.457		1991490
Nitrate (N)	mg/L	3.1	0.05	1991517	<0.05		0.05	1991517	<0.05	0.05	<0.05	0.05	1991517
Saturation pH (@ 20C)	N/A	8.56		1991489	7.37			1991489	8.27		7.87		1991489
Saturation pH (@ 4C)	N/A	8.82		1991490	7.62			1991490	8.53		8.12		1991490
Inorganics													
Total Alkalinity (Total as CaCO3)	mg/L	31	5	1996934	190		30	1996934	50	5	130	30	1996934
Dissolved Chloride (Cl)	mg/L	2	1	1996937	3		1	1996937	3	1	2	1	1996937
Colour	TCU	9	5	1996940	76		30	1996940	110	30	<5	5	1996940
Nitrate + Nitrite	mg/L	3.1	0.05	1996943	<0.05		0.05	1996943	<0.05	0.05	<0.05	0.05	1996943
Nitrite (N)	mg/L	<0.01	0.01	1996944	<0.01		0.01	1996944	<0.01	0.01	<0.01	0.01	1996944
Nitrogen (Ammonia Nitrogen)	mg/L	<0.05	0.05	1997489	<0.05		0.05	1997489	<0.05	0.05	<0.05	0.05	1997489
Total Organic Carbon (C)	mg/L	<50(1)	50	1996012	44		30	1996012	41	10	<10(1)	10	1996012
Orthophosphate (P)	mg/L	<0.01	0.01	1996942	<0.01		0.01	1996942	<0.01	0.01	<0.01	0.01	1996942
pH	pH	6.78	N/A	1995999	7.41	7.46	N/A	1995985	6.84	N/A	7.66	N/A	1995999
Reactive Silica (SiO2)	mg/L	11	0.5	1996939	19		0.5	1996939	15	0.5	24	0.5	1996939
Dissolved Sulphate (SO4)	mg/L	<2	2	1996938	<2		2	1996938	<2	2	8	2	1996938
Turbidity	NTU	>1000	10	1998639	880		10	1998639	350	1	330	1	1998639
Conductivity	uS/cm	92	1	1996007	350	360	1	1995996	110	1	270	1	1996007

N/A = Not Applicable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Detection limit increased due to sample matrix.

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RESULTS OF ANALYSES OF WATER

Maxxam ID		EE0401		EE0402			EE0403	EE0404	EE0404		EE0405		
Sampling Date		2009/10/20		2009/10/20			2009/10/20	2009/10/20	2009/10/20		2009/10/20		
	Units	**09-MW10**	**RDL**	**09-MW11**	**RDL**	**QC Batch**	**09-MW12**	**09-MW13S**	**09-MW13S Lab-Dup**	**RDL**	**09-MW15**	**RDL**	**QC Batch**
Calculated Parameters													
Anion Sum	me/L	3.57	N/A	2.40	N/A	1991488	1.21	0.830		N/A	0.220	N/A	1991488
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	163	1	117	1	1991484	57	34		1	9	1	1991484
Calculated TDS	mg/L	219	1	134	1	1991491	90	68		1	23	1	1991491
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	1	<1	1	1991484	<1	<1		1	<1	1	1991484
Cation Sum	me/L	3.55	N/A	2.49	N/A	1991488	1.62	1.23		N/A	0.300	N/A	1991488
Hardness (CaCO3)	mg/L	73	1	110	1	1991486	64	21		1	8	1	1991486
Ion Balance (% Difference)	%	0.280	N/A	1.84	N/A	1991487	14.5	19.4		N/A	15.4	N/A	1991487
Langelier Index (@ 20C)	N/A	0.0590		-0.361		1991489	-1.80	-2.41			-4.00		1991489
Langelier Index (@ 4C)	N/A	-0.191		-0.612		1991490	-2.05	-2.66			-4.26		1991490
Nitrate (N)	mg/L	2.9	0.05	<0.05	0.05	1991517	<0.05	<0.05		0.05	<0.05	0.05	1991517
Saturation pH (@ 20C)	N/A	7.73		7.69		1991489	8.27	9.07			9.95		1991489
Saturation pH (@ 4C)	N/A	7.98		7.94		1991490	8.52	9.32			10.2		1991490
Inorganics													
Total Alkalinity (Total as CaCO3)	mg/L	160	30	120	30	1996934	57	34		5	9	5	1996934
Dissolved Chloride (Cl)	mg/L	2	1	2	1	1996937	2	3		1	2	1	1996937
Colour	TCU	28	5	30	5	1996940	84	82		30	25	5	1996940
Nitrate + Nitrite	mg/L	3.1	0.05	<0.05	0.05	1996943	<0.05	<0.05		0.05	<0.05	0.05	1996943
Nitrite (N)	mg/L	0.18	0.01	<0.01	0.01	1996944	<0.01	<0.01		0.01	<0.01	0.01	1996944
Nitrogen (Ammonia Nitrogen)	mg/L	<0.05	0.05	<0.05	0.05	1997489	<0.05	<0.05		0.05	0.07	0.05	1997489
Total Organic Carbon (C)	mg/L	20	10	10	0.5	1996012	<50(1)	<50(1)	<50(1)	50	16	5	1996016
Orthophosphate (P)	mg/L	<0.01	0.01	<0.01	0.01	1996942	<0.01	<0.01		0.01	<0.01	0.01	1996942
pH	pH	7.79	N/A	7.33	N/A	1995999	6.47	6.66		N/A	5.95	N/A	1995999
Reactive Silica (SiO2)	mg/L	16	0.5	12	0.5	1996939	20	14		0.5	9.7	0.5	1996939
Dissolved Sulphate (SO4)	mg/L	<2	2	<2	2	1996938	<2	4		2	<2	2	1996938
Turbidity	NTU	540	10	>1000	10	1998639	>1000	>1000		10	91	1	1998639
Conductivity	uS/cm	350	1	240	1	1996007	100	100		1	26	1	1996007

N/A = Not Applicable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Detection limit increased due to sample matrix.

Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

RESULTS OF ANALYSES OF WATER

Maxxam ID		EE0406		EE0407			EE0408	EE0408		EE0409		EE0410		
Sampling Date		2009/10/20		2009/10/20			2009/10/20	2009/10/20		2009/10/20		2009/10/20		
	Units	**09-MW16**	**RDL**	**09-MW17**	**RDL**	**QC Batch**	**09-MW18**	**09-MW18 Lab-Dup**	**QC Batch**	**09-MW19**	**RDL**	**09-MW20**	**RDL**	**QC Batch**
Calculated Parameters														
Anion Sum	me/L	0.290	N/A	0.270	N/A	1991488	0.240		1991488	0.260	N/A	0.190	N/A	1991488
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	13	1	13	1	1991484	10		1991484	13	1	8	1	1991484
Calculated TDS	mg/L	31	1	31	1	1991491	26		1991491	25	1	31	1	1991491
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	1	<1	1	1991484	<1		1991484	<1	1	<1	1	1991484
Cation Sum	me/L	0.480	N/A	0.500	N/A	1991488	0.400		1991488	0.410	N/A	0.680	N/A	1991488
Hardness (CaCO3)	mg/L	10	1	11	1	1991486	15		1991486	13	1	8	1	1991486
Ion Balance (% Difference)	%	24.7	N/A	29.9	N/A	1991487	25.0		1991487	22.4	N/A	56.3	N/A	1991487
Langelier Index (@ 20C)	N/A	-3.69		-3.54		1991489	-3.32		1991489	-3.36		-4.24		1991489
Langelier Index (@ 4C)	N/A	-3.94		-3.79		1991490	-3.57		1991490	-3.61		-4.49		1991490
Nitrate (N)	mg/L	<0.05	0.05	<0.05	0.05	1991517	0.37		1991517	<0.05	0.05	<0.05	0.05	1991517
Saturation pH (@ 20C)	N/A	9.72		9.64		1991489	9.57		1991489	9.56		9.97		1991489
Saturation pH (@ 4C)	N/A	9.97		9.89		1991490	9.82		1991490	9.81		10.2		1991490
Inorganics														
Total Alkalinity (Total as CaCO3)	mg/L	13	5	14	5	1996934	10	11	1996983	13	5	8	5	1996983
Dissolved Chloride (Cl)	mg/L	1	1	<1	1	1996937	<1	<1	1996984	<1	1	1	1	1996984
Colour	TCU	16	5	8	5	1996940	10	11	1996987	23	5	14	5	1996987
Nitrate + Nitrite	mg/L	<0.05	0.05	<0.05	0.05	1996943	0.37	0.36	1996989	<0.05	0.05	<0.05	0.05	1996989
Nitrite (N)	mg/L	<0.01	0.01	<0.01	0.01	1996944	<0.01	<0.01	1996990	<0.01	0.01	<0.01	0.01	1996990
Nitrogen (Ammonia Nitrogen)	mg/L	<0.05	0.05	<0.05	0.05	1997489	<0.05	<0.05	1997489	<0.05	0.05	<0.05	0.05	1997502
Total Organic Carbon (C)	mg/L	<50(1)	50	<50(1)	50	1996016	<5(1)		1996016	14	5	59	50	1996016
Orthophosphate (P)	mg/L	<0.01	0.01	<0.01	0.01	1996942	<0.01	<0.01	1996988	<0.01	0.01	<0.01	0.01	1996988
pH	pH	6.03	N/A	6.10	N/A	1995999	6.25		1995999	6.20	N/A	5.73	N/A	1995999
Reactive Silica (SiO2)	mg/L	11	0.5	11	0.5	1996939	9.9	9.9	1996986	7.9	0.5	7.9	0.5	1996986
Dissolved Sulphate (SO4)	mg/L	<2	2	<2	2	1996938	<2	<2	1996985	<2	2	<2	2	1996985
Turbidity	NTU	360	1	410	10	1998639	130		1998639	200	1	>1000	10	1998639
Conductivity	uS/cm	32	1	31	1	1996007	31		1996007	28	1	18	1	1996007

N/A = Not Applicable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Detection limit increased due to sample matrix.

Maxxam Analytics International Corporation o/a Maxxam Analytics 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel:902-420-0203 Toll-free:800-565-7227 Fax:902-420-8612 www.maxxamanalytics.com

Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

RESULTS OF ANALYSES OF WATER

Maxxam ID		EE0410			EE0411		EE0412		EE0413		EE0414	EE0414		
Sampling Date		2009/10/20			2009/10/20		2009/10/20		2009/10/20		2009/10/20	2009/10/20		
	Units	**09-MW20 Lab-Dup**	**RDL**	**QC Batch**	**09-MW14**	**RDL**	**09-MW21**	**RDL**	**09-MW22**	**RDL**	**09-MW23**	**09-MW23 Lab-Dup**	**RDL**	**QC Batch**
Calculated Parameters														
Anion Sum	me/L		N/A	1991488	3.69	N/A	0.550	N/A	0.830	N/A	1.60		N/A	1991488
Bicarb. Alkalinity (calc. as CaCO3)	mg/L		1	1991484	177	1	24	1	36	1	65		1	1991484
Calculated TDS	mg/L		1	1991491	272	1	47	1	61	1	99		1	1991491
Carb. Alkalinity (calc. as CaCO3)	mg/L		1	1991484	<1	1	<1	1	<1	1	<1		1	1991484
Cation Sum	me/L		N/A	1991488	6.03	N/A	0.510	N/A	0.980	N/A	1.62		N/A	1991488
Hardness (CaCO3)	mg/L		1	1991486	220	1	18	1	24	1	65		1	1991486
Ion Balance (% Difference)	%		N/A	1991487	24.1	N/A	3.77	N/A	8.29	N/A	0.620		N/A	1991487
Langelier Index (@ 20C)	N/A			1991489	-0.756		-2.68		-2.35		-1.25			1991489
Langelier Index (@ 4C)	N/A			1991490	-1.01		-2.93		-2.60		-1.50			1991490
Nitrate (N)	mg/L		0.05	1991517	<0.05	0.05	0.23	0.05	1.4	0.05	1.4		0.05	1992945
Saturation pH (@ 20C)	N/A			1991489	7.31		9.21		8.88		8.29			1991489
Saturation pH (@ 4C)	N/A			1991490	7.56		9.46		9.13		8.54			1991490
Inorganics														
Total Alkalinity (Total as CaCO3)	mg/L		5	1996983	180	30	25	5	36	5	65		5	1996983
Dissolved Chloride (Cl)	mg/L		1	1996984	5	1	<1	1	<1	1	1		1	1996984
Colour	TCU		5	1996987	790	100	10	5	25	5	13		5	1996987
Nitrate + Nitrite	mg/L		0.05	1996989	<0.05	0.05	0.23	0.05	1.4	0.05	1.4		0.05	1996989
Nitrite (N)	mg/L		0.01	1996990	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01		0.01	1996990
Nitrogen (Ammonia Nitrogen)	mg/L		0.05	1997502	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05		0.05	1997502
Total Organic Carbon (C)	mg/L		50	1996016	64	50	<50(1)	50	10	5	<50(1)		50	1996016
Orthophosphate (P)	mg/L		0.01	1996988	0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01		0.01	1996988
pH	pH		N/A	1995999	6.55	N/A	6.53	N/A	6.53	N/A	7.04	7.10	N/A	1995999
Reactive Silica (SiO2)	mg/L		0.5	1996986	27	1	18	0.5	12	0.5	13		0.5	1996986
Dissolved Sulphate (SO4)	mg/L		2	1996985	<2	2	2	2	<2	2	8		2	1996985
Turbidity	NTU	>1000	10	1998639	360	1	470	10	490	10	>1000		10	1998656
Conductivity	uS/cm		1	1996007	350	1	54	1	81	1	150	150	1	1996007

N/A = Not Applicable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Detection limit increased due to sample matrix.

Maxxam Analytics International Corporation o/a Maxxam Analytics 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel:902-420-0203 Toll-free:800-565-7227 Fax:902-420-8612 www.maxxamanalytics.com

Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

RESULTS OF ANALYSES OF WATER

Maxxam ID		EE0415			EE0416			EE0417		EE0418		
Sampling Date		2009/10/20			2009/10/20			2009/10/20		2009/10/20		
	Units	**09-MW25**	**RDL**	**QC Batch**	**09-MW27S**	**RDL**	**QC Batch**	**09-MW27D**	**RDL**	**09-MW28**	**RDL**	**QC Batch**
Calculated Parameters												
Anion Sum	me/L	0.640	N/A	1991488	1.41	N/A	1991488	8.07	N/A	0.690	N/A	1991488
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	28	1	1991484	64	1	1991484	368	1	31	1	1991484
Calculated TDS	mg/L	58	1	1991491	107	1	1991491	507	1	64	1	1991491
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	1	1991484	<1	1	1991484	4	1	<1	1	1991484
Cation Sum	me/L	0.840	N/A	1991488	1.96	N/A	1991488	9.08	N/A	0.750	N/A	1991488
Hardness (CaCO3)	mg/L	31	1	1991486	55	1	1992942	26	1	26	1	1992942
Ion Balance (% Difference)	%	13.5	N/A	1991487	16.3	N/A	1991487	5.89	N/A	4.17	N/A	1991487
Langelier Index (@ 20C)	N/A	-2.36		1991489	-1.80		1991489	-0.152		-2.62		1991489
Langelier Index (@ 4C)	N/A	-2.61		1991490	-2.05		1991490	-0.400		-2.87		1991490
Nitrate (N)	mg/L	0.52	0.05	1992945	0.26	0.05	1992945	<0.05	0.05	0.18	0.05	1992945
Saturation pH (@ 20C)	N/A	9.06		1991489	8.47		1991489	8.21		9.13		1991489
Saturation pH (@ 4C)	N/A	9.31		1991490	8.72		1991490	8.46		9.38		1991490
Inorganics												
Total Alkalinity (Total as CaCO3)	mg/L	28	5	1996983	64	5	1996983	370	30	31	5	1996983
Dissolved Chloride (Cl)	mg/L	2	1	1996984	4	1	1996984	23	1	2	1	1996984
Colour	TCU	15	5	1996987	320	50	1996987	940	200	14	5	1996987
Nitrate + Nitrite	mg/L	0.53	0.05	1996989	0.26	0.05	1996989	<0.05	0.05	0.18	0.05	1996989
Nitrite (N)	mg/L	0.01	0.01	1996990	<0.01	0.01	1996990	<0.01	0.01	<0.01	0.01	1996990
Nitrogen (Ammonia Nitrogen)	mg/L	<0.05	0.05	1997502	0.13	0.05	1997502	0.62	0.05	<0.05	0.05	1997502
Total Organic Carbon (C)	mg/L	<500(1)	500	1996016	<50(1)	50	1996016	<50(1)	50	<50(1)	50	1996016
Orthophosphate (P)	mg/L	0.01	0.01	1996988	0.02	0.01	1996988	9.8	0.3	0.01	0.01	1996988
pH	pH	6.70	N/A	1995999	6.67	N/A	1995999	8.06	N/A	6.51	N/A	1997462
Reactive Silica (SiO2)	mg/L	21	0.5	1996986	23	0.5	1996986	22	0.5	28	1	1996986
Dissolved Sulphate (SO4)	mg/L	<2	2	1996985	<2	2	1996985	<2	2	<2	2	1996985
Turbidity	NTU	>1000	10	1998656	250	1	1998656	940	10	>1000	10	1998656
Conductivity	uS/cm	65	1	1996007	140	1	1996007	740	1	72	1	1997465

N/A = Not Applicable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Detection limit increased due to sample matrix.

Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

RESULTS OF ANALYSES OF WATER

Maxxam ID		EE0419		EE0420		EE0421	EE0422			EE0423		EE0424		
Sampling Date		2009/10/20		2009/10/20		2009/10/20	2009/10/20			2009/10/20		2009/10/20		
	Units	**09-MW29**	**RDL**	**09-MW30**	**RDL**	**09-MW31**	**09-MW32**	**RDL**	**QC Batch**	**09-MW33S**	**RDL**	**09-MW33D**	**RDL**	**QC Batch**
Calculated Parameters														
Anion Sum	me/L	4.81	N/A	0.580	N/A	0.560	1.59	N/A	1992944	0.630	N/A	1.13	N/A	1992944
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	204	1	26	1	25	74	1	1992939	29	1	48	1	1992939
Calculated TDS	mg/L	313	1	51	1	47	149	1	1992948	53	1	76	1	1992948
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	1	<1	1	<1	<1	1	1992939	<1	1	<1	1	1992939
Cation Sum	me/L	6.31	N/A	0.870	N/A	0.830	3.74	N/A	1992944	0.660	N/A	1.18	N/A	1992944
Hardness (CaCO3)	mg/L	130	1	30	1	30	49	1	1992942	24	1	26	1	1992942
Ion Balance (% Difference)	%	13.5	N/A	20.0	N/A	19.4	40.3	N/A	1992943	2.33	N/A	2.16	N/A	1992943
Langelier Index (@ 20C)	N/A	-0.171		-2.31		-2.24	-1.16		1992946	-1.79		-1.30		1992946
Langelier Index (@ 4C)	N/A	-0.420		-2.56		-2.49	-1.41		1992947	-2.04		-1.55		1992947
Nitrate (N)	mg/L	0.37	0.05	<0.05	0.05	<0.05	0.12	0.05	1992945	0.11	0.05	<0.05	0.05	1992945
Saturation pH (@ 20C)	N/A	7.63		8.93		8.99	8.47		1992946	8.96		9.02		1992946
Saturation pH (@ 4C)	N/A	7.88		9.18		9.24	8.72		1992947	9.21		9.27		1992947
Inorganics														
Total Alkalinity (Total as CaCO3)	mg/L	200	30	26	5	25	74	5	1996983	29	5	48	5	1996983
Dissolved Chloride (Cl)	mg/L	4	1	2	1	2	3	1	1996984	2	1	3	1	1996984
Colour	TCU	70	30	45	5	65	190	30	1996987	19	5	9	5	1996987
Nitrate + Nitrite	mg/L	0.38	0.05	<0.05	0.05	<0.05	0.14	0.05	1996989	0.11	0.05	<0.05	0.05	1996989
Nitrite (N)	mg/L	0.01	0.01	<0.01	0.01	<0.01	0.02	0.01	1996990	<0.01	0.01	<0.01	0.01	1996990
Nitrogen (Ammonia Nitrogen)	mg/L	0.85	0.05	<0.05	0.05	<0.05	0.14	0.05	1997502	<0.05	0.05	<0.05	0.05	1997502
Total Organic Carbon (C)	mg/L	9	5	<50(1)	50	90(2)	<50(1)	50	1996016	9(3)	5	69(3)	50	1998426
Orthophosphate (P)	mg/L	0.01	0.01	<0.01	0.01	<0.01	0.15	0.01	1996988	<0.01	0.01	0.01	0.01	1996988
pH	pH	7.46	N/A	6.62	N/A	6.75	7.31	N/A	1997462	7.17	N/A	7.72	N/A	1997462
Reactive Silica (SiO2)	mg/L	23	0.5	15	0.5	13	17	0.5	1996986	19	0.5	14	0.5	1996986
Dissolved Sulphate (SO4)	mg/L	27	2	<2	2	<2	<2	2	1996985	<2	2	4	2	1996985
Turbidity	NTU	46	10	310	1	730	840	10	1998656	340	1	780	10	1998656
Conductivity	uS/cm	430	1	64	1	66	130	1	1997465	63	1	110	1	1997465

N/A = Not Applicable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Detection limit increased due to sample matrix.
(2) - Detection limit increased due to sample matrix (turbidity)
(3) - Elevated detection limit due to matrix interference.

Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

RESULTS OF ANALYSES OF WATER

Maxxam ID		EE0425		EE0426	EE0426			EE0427			EE0428	EE0428		
Sampling Date		2009/10/20		2009/10/20	2009/10/20			2009/10/20			2009/10/20	2009/10/20		
	Units	**09-MW34S**	**RDL**	**09-MW34D**	**09-MW34D Lab-Dup**	**RDL**	**QC Batch**	**09-MW35D**	**RDL**	**QC Batch**	**09-MW36**	**09-MW36 Lab-Dup**	**RDL**	**QC Batch**
Calculated Parameters														
Anion Sum	me/L	0.470	N/A	2.58		N/A	1992944	3.25	N/A	1992944	3.54		N/A	1992944
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	20	1	125		1	1992939	129	1	1992939	162		1	1992939
Calculated TDS	mg/L	57	1	163		1	1992948	190	1	1992948	216		1	1992948
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	1	<1		1	1992939	1	1	1992939	<1		1	1992939
Cation Sum	me/L	1.17	N/A	2.75		N/A	1992944	3.58	N/A	1992944	3.45		N/A	1992944
Hardness (CaCO3)	mg/L	27	1	110		1	1992942	100	1	1992942	59		1	1992942
Ion Balance (% Difference)	%	42.7	N/A	3.19		N/A	1992943	4.83	N/A	1992943	1.29		N/A	1992943
Langelier Index (@ 20C)	N/A	-3.12		-0.277			1992946	0.00100		1992946	-0.0760			1992946
Langelier Index (@ 4C)	N/A	-3.37		-0.527			1992947	-0.249		1992947	-0.326			1992947
Nitrate (N)	mg/L	<0.05	0.05	<0.05		0.05	1992945	<0.05	0.05	1992945	2.8		0.05	1992945
Saturation pH (@ 20C)	N/A	9.12		7.92			1992946	7.95		1992946	7.83			1992946
Saturation pH (@ 4C)	N/A	9.37		8.17			1992947	8.20		1992947	8.08			1992947
Inorganics														
Total Alkalinity (Total as CaCO3)	mg/L	20	5	130		30	1996983	130	30	1996983	160		30	1996991
Dissolved Chloride (Cl)	mg/L	3	1	3		1	1996984	9	1	1996984	2		1	1996993
Colour	TCU	150	30	78		30	1996987	11	5	1996987	30		5	1996996
Nitrate + Nitrite	mg/L	<0.05	0.05	<0.05		0.05	1996989	<0.05	0.05	1996989	3.1		0.05	1996998
Nitrite (N)	mg/L	<0.01	0.01	<0.01		0.01	1996990	<0.01	0.01	1996990	0.27		0.01	1996999
Nitrogen (Ammonia Nitrogen)	mg/L	0.10	0.05	<0.05		0.05	1997502	<0.05	0.05	1997502	<0.05	<0.05	0.05	1997502
Total Organic Carbon (C)	mg/L	27	1	27(1)		5	1998426	<5(1)	5	1998426	6.2		0.5	1998426
Orthophosphate (P)	mg/L	<0.01	0.01	0.01		0.01	1996988	<0.01	0.01	1996988	<0.01		0.01	1996997
pH	pH	6.00	N/A	7.64	7.68	N/A	1997462	7.95	N/A	1997467	7.75		N/A	1997467
Reactive Silica (SiO2)	mg/L	15	0.5	32		1	1996986	9.5	0.5	1996986	15		0.5	1996995
Dissolved Sulphate (SO4)	mg/L	<2	2	<2		2	1996985	19	2	1996985	<2		2	1996994
Turbidity	NTU	>1000	10	120		1	1998656	95	1	1998656	>1000		10	1998656
Conductivity	uS/cm	59	1	250	260	1	1997465	310	1	1997476	330		1	1997476

N/A = Not Applicable
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Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

RESULTS OF ANALYSES OF WATER

Maxxam ID		EE0429		EE0430	EE0430			EE0431	EE0431		EE0432		
Sampling Date		2009/10/20		2009/10/20	2009/10/20			2009/10/20	2009/10/20		2009/10/21		
	Units	**09-MW37**	**RDL**	**09-MW38**	**09-MW38 Lab-Dup**	**RDL**	**QC Batch**	**09-MW39**	**09-MW39 Lab-Dup**	**RDL**	**AMEC2**	**RDL**	**QC Batch**
Calculated Parameters													
Anion Sum	me/L	4.86	N/A	1.02		N/A	1992944	0.550		N/A	0.550	N/A	1992944
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	206	1	44		1	1992939	24		1	25	1	1992939
Calculated TDS	mg/L	316	1	158		1	1992948	45		1	42	1	1992948
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	1	<1		1	1992939	<1		1	<1	1	1992939
Cation Sum	me/L	6.39	N/A	5.86		N/A	1992944	0.760		N/A	0.590	N/A	1992944
Hardness (CaCO3)	mg/L	130	1	220		1	1992942	28		1	19	1	1992942
Ion Balance (% Difference)	%	13.6	N/A	70.4		N/A	1992943	16.0		N/A	3.51	N/A	1992943
Langelier Index (@ 20C)	N/A	-0.180		-1.61			1992946	-2.25			-2.41		1992946
Langelier Index (@ 4C)	N/A	-0.429		-1.86			1992947	-2.51			-2.66		1992947
Nitrate (N)	mg/L	0.43	0.05	<0.05		0.05	1992945	<0.05		0.05	<0.05	0.05	1992945
Saturation pH (@ 20C)	N/A	7.62		8.06			1992946	8.99			9.14		1992946
Saturation pH (@ 4C)	N/A	7.87		8.31			1992947	9.25			9.39		1992947
Inorganics													
Total Alkalinity (Total as CaCO3)	mg/L	210	30	44		5	1996991	24	23	5	25	5	1996991
Dissolved Chloride (Cl)	mg/L	4	1	2		1	1996993	2	2	1	2	1	1996993
Colour	TCU	65	30	34		5	1996996	77	66	10	11	5	1996996
Nitrate + Nitrite	mg/L	0.44	0.05	<0.05		0.05	1996998	<0.05	<0.05	0.05	<0.05	0.05	1996998
Nitrite (N)	mg/L	0.01	0.01	<0.01		0.01	1996999	<0.01	<0.01	0.01	<0.01	0.01	1996999
Nitrogen (Ammonia Nitrogen)	mg/L	0.78	0.05	<0.05		0.05	1997510	<0.05		0.05	<0.05	0.05	1997510
Total Organic Carbon (C)	mg/L	19(1)	5	23		1	1998426	25		1	<5(1)	5	1998426
Orthophosphate (P)	mg/L	0.01	0.01	<0.01		0.01	1996997	0.01	<0.01	0.01	<0.01	0.01	1996997
pH	pH	7.44	N/A	6.45		N/A	1997467	6.74		N/A	6.73	N/A	1997467
Reactive Silica (SiO2)	mg/L	22	0.5	13		0.5	1996995	12	12	0.5	13	0.5	1996995
Dissolved Sulphate (SO4)	mg/L	27	2	4		2	1996994	<2	<2	2	<2	2	1996994
Turbidity	NTU	120	1	700	670	10	1998656	>1000		10	120	1	1998661
Conductivity	uS/cm	370	1	100		1	1997476	65		1	54	1	1997476

N/A = Not Applicable
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(1) - Elevated detection limit due to matrix interference.

Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

RESULTS OF ANALYSES OF WATER

Maxxam ID		EE0433			EE0434	EE0434		EE0439		EE0441		
Sampling Date		2009/10/21			2009/10/22	2009/10/22		2009/10/22		2009/10/22		
	Units	**AMEC4**	**RDL**	**QC Batch**	**09-SW1**	**09-SW1 Lab-Dup**	**RDL**	**09-SW5**	**RDL**	**09-SW6**	**RDL**	**QC Batch**
Calculated Parameters												
Anion Sum	me/L	0.200	N/A	1992944	0.420		N/A	0.400	N/A	0.590	N/A	1992944
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	6	1	1992939	9		1	10	1	20	1	1992939
Calculated TDS	mg/L	52	1	1992948	47		1	39	1	56	1	1992948
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	1	1992939	<1		1	<1	1	<1	1	1992939
Cation Sum	me/L	1.28	N/A	1992944	0.930		N/A	0.800	N/A	0.980	N/A	1992944
Hardness (CaCO3)	mg/L	22	1	1992942	24		1	22	1	27	1	1992942
Ion Balance (% Difference)	%	73.0	N/A	1992943	37.8		N/A	33.3	N/A	24.8	N/A	1992943
Langelier Index (@ 20C)	N/A	-3.18		1992946	-3.60			-3.90		-2.55		1992946
Langelier Index (@ 4C)	N/A	-3.43		1992947	-3.85			-4.15		-2.80		1992947
Nitrate (N)	mg/L	0.09	0.05	1992945	<0.05		0.05	<0.05	0.05	<0.05	0.05	1992945
Saturation pH (@ 20C)	N/A	9.75		1992946	9.59			9.59		9.18		1992946
Saturation pH (@ 4C)	N/A	10.0		1992947	9.84			9.84		9.43		1992947
Inorganics												
Total Alkalinity (Total as CaCO3)	mg/L	6	5	1996991	9		5	10	5	20	5	1996991
Dissolved Chloride (Cl)	mg/L	2	1	1996993	8		1	7	1	7	1	1996993
Colour	TCU	26	5	1996996	470		80	520	80	290	50	1996996
Nitrate + Nitrite	mg/L	0.09	0.05	1996998	<0.05		0.05	<0.05	0.05	<0.05	0.05	1996998
Nitrite (N)	mg/L	<0.01	0.01	1996999	<0.01		0.01	<0.01	0.01	<0.01	0.01	1996999
Nitrogen (Ammonia Nitrogen)	mg/L	0.08	0.05	1997510	<0.05		0.05	<0.05	0.05	<0.05	0.05	1997510
Total Organic Carbon (C)	mg/L	14(1)	5	1998426	73(1)	76(1)	50	55	5	27	3	1998458
Orthophosphate (P)	mg/L	<0.01	0.01	1996997	<0.01		0.01	<0.01	0.01	<0.01	0.01	1996997
pH	pH	6.57	N/A	1997467	5.99		N/A	5.69	N/A	6.63	N/A	1997467
Reactive Silica (SiO2)	mg/L	17	0.5	1996995	10		0.5	6.0	0.5	16	0.5	1996995
Dissolved Sulphate (SO4)	mg/L	<2	2	1996994	<2		2	<2	2	<2	2	1996994
Turbidity	NTU	280	1	1998661	270		1	4.5	0.1	7.0	0.1	1998661
Conductivity	uS/cm	25	1	1997476	60		1	69	1	76	1	1997476

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RESULTS OF ANALYSES OF WATER

Maxxam ID		EE0443		EE0445		EE0447		EE0448		
Sampling Date		2009/10/22		2009/10/22		2009/10/22		2009/10/22		
	Units	**09-SW7**	**RDL**	**09-SW8**	**RDL**	**09-SW9**	**RDL**	**09-SW10**	**RDL**	**QC Batch**
Calculated Parameters										
Anion Sum	me/L	0.0800	N/A	0.460	N/A	1.84	N/A	1.09	N/A	1992944
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	<1	1	19	1	80	1	50	1	1992939
Calculated TDS	mg/L	23	1	38	1	110	1	77	1	1992948
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	1	<1	1	<1	1	<1	1	1992939
Cation Sum	me/L	0.300	N/A	0.630	N/A	1.75	N/A	1.31	N/A	1992944
Hardness (CaCO3)	mg/L	8	1	22	1	75	1	47	1	1992942
Ion Balance (% Difference)	%	57.9	N/A	15.6	N/A	2.51	N/A	9.17	N/A	1992943
Langelier Index (@ 20C)	N/A	NC		-2.76		-1.43		-1.90		1992946
Langelier Index (@ 4C)	N/A	NC		-3.02		-1.68		-2.16		1992947
Nitrate (N)	mg/L	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	1992945
Saturation pH (@ 20C)	N/A	NC		9.18		8.03		8.56		1992946
Saturation pH (@ 4C)	N/A	NC		9.44		8.28		8.82		1992947
Inorganics										
Total Alkalinity (Total as CaCO3)	mg/L	<5	5	19	5	80	5	50	5	1996991
Dissolved Chloride (Cl)	mg/L	3	1	3	1	2	1	4	1	1996993
Colour	TCU	100	30	44	5	59	30	330	50	1996996
Nitrate + Nitrite	mg/L	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	1996998
Nitrite (N)	mg/L	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	1996999
Nitrogen (Ammonia Nitrogen)	mg/L	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	1997510
Total Organic Carbon (C)	mg/L	14	1	250(1)	50	210	30	23(1)	5	1998458
Orthophosphate (P)	mg/L	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	1996997
pH	pH	6.03	N/A	6.42	N/A	6.60	N/A	6.66	N/A	1997467
Reactive Silica (SiO2)	mg/L	14	0.5	11	0.5	16	0.5	17	0.5	1996995
Dissolved Sulphate (SO4)	mg/L	<2	2	<2	2	9	2	<2	2	1996994
Turbidity	NTU	2.3	0.1	>1000	10	>1000	10	34	0.1	1998661
Conductivity	uS/cm	27	1	55	1	150	1	96	1	1997476

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Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

MERCURY BY COLD VAPOUR AA (WATER)

Maxxam ID		EE0391	EE0392	EE0393	EE0394	EE0395	EE0396	EE0397	EE0398	EE0399	EE0400		
Sampling Date		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		
	Units	**09-MW1**	**09-MW2S**	**09-MW2D**	**09-MW3**	**09-MW4**	**09-MW5**	**09-MW6**	**09-MW7**	**09-MW8**	**09-MW9**	**RDL**	**QC Batch**
Metals													
Total Mercury (Hg)	ug/L	0.043	0.030	<0.013	0.045	0.043	0.027	<0.013	0.027	0.022	<0.013	0.013	1995109

Maxxam ID		EE0401		EE0402	EE0402	EE0403	EE0404	EE0405	EE0406	EE0407	EE0408		
Sampling Date		2009/10/20		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		
	Units	**09-MW10**	**QC Batch**	**09-MW11**	**09-MW11 Lab-Dup**	**09-MW12**	**09-MW13S**	**09-MW15**	**09-MW16**	**09-MW17**	**09-MW18**	**RDL**	**QC Batch**
Metals													
Total Mercury (Hg)	ug/L	0.027	1995109	0.028	0.027	0.24	0.052	<0.013	0.018	0.015	<0.013	0.013	1995110

Maxxam ID		EE0409	EE0410	EE0411	EE0412	EE0413	EE0414	EE0415	EE0416	EE0417	EE0418		
Sampling Date		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		
	Units	**09-MW19**	**09-MW20**	**09-MW14**	**09-MW21**	**09-MW22**	**09-MW23**	**09-MW25**	**09-MW27S**	**09-MW27D**	**09-MW28**	**RDL**	**QC Batch**
Metals													
Total Mercury (Hg)	ug/L	<0.013	0.068	0.038	0.13	0.033	0.80	0.083	0.23	0.12	1.1	0.013	1995110

Maxxam ID		EE0419	EE0420	EE0421		EE0422	EE0422	EE0423	EE0424	EE0425	EE0426		
Sampling Date		2009/10/20	2009/10/20	2009/10/20		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		
	Units	**09-MW29**	**09-MW30**	**09-MW31**	**QC Batch**	**09-MW32**	**09-MW32 Lab-Dup**	**09-MW33S**	**09-MW33D**	**09-MW34S**	**09-MW34D**	**RDL**	**QC Batch**
Metals													
Total Mercury (Hg)	ug/L	0.17	0.013	0.18	1995110	0.13	0.13	0.015	<0.013	0.025	0.080	0.013	1995111

Maxxam ID		EE0427	EE0428	EE0429	EE0430	EE0431	EE0432	EE0433	EE0434		
Sampling Date		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/21	2009/10/21	2009/10/22		
	Units	**09-MW35D**	**09-MW36**	**09-MW37**	**09-MW38**	**09-MW39**	**AMEC2**	**AMEC4**	**09-SW1**	**RDL**	**QC Batch**
Metals											
Total Mercury (Hg)	ug/L	<0.013	0.037	0.035	0.017	0.24	0.022	0.022	0.065	0.013	1995111

RDL = Reportable Detection Limit
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Maxxam Job #: A9E4696
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MERCURY BY COLD VAPOUR AA (WATER)

Maxxam ID		EE0439	EE0441	EE0443	EE0445	EE0447	EE0448		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SW5**	**09-SW6**	**09-SW7**	**09-SW8**	**09-SW9**	**09-SW10**	**RDL**	**QC Batch**
Metals									
Total Mercury (Hg)	ug/L	<0.013	0.022	<0.013	0.075	0.38	0.020	0.013	1995111

ELEMENTS BY ICP-AES (WATER)

Maxxam ID		EE0391	EE0392	EE0393	EE0394	EE0395	EE0396	EE0397	EE0398	EE0399	EE0400		
Sampling Date		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		
	Units	**09-MW1**	**09-MW2S**	**09-MW2D**	**09-MW3**	**09-MW4**	**09-MW5**	**09-MW6**	**09-MW7**	**09-MW8**	**09-MW9**	**RDL**	**QC Batch**
Metals													
Dissolved Calcium (Ca)	mg/L	18	45	13	6.5	26	11	19	55	23	24	0.1	1998048
Dissolved Magnesium (Mg)	mg/L	2.3	26	3.3	2.1	3.0	2.9	5.5	4.4	3.7	18	0.1	1998048
Dissolved Phosphorus (P)	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.0	<0.1	<0.1	<0.1	0.1	1998048
Dissolved Potassium (K)	mg/L	2.2	19	2.5	1.9	3.3	3.1	3.9	2.9	3.4	7.8	0.1	1998048
Dissolved Sodium (Na)	mg/L	3.7	23	5.8	3.3	2.5	3.9	6.3	3.0	3.6	6.9	0.1	1998048

Maxxam ID		EE0401	EE0401	EE0402	EE0403	EE0404	EE0405	EE0406	EE0407	EE0408	EE0409		
Sampling Date		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		
	Units	**09-MW10**	**09-MW10 Lab-Dup**	**09-MW11**	**09-MW12**	**09-MW13S**	**09-MW15**	**09-MW16**	**09-MW17**	**09-MW18**	**09-MW19**	**RDL**	**QC Batch**
Metals													
Dissolved Calcium (Ca)	mg/L	28	28	40	21	5.4	2.4	3.0	3.3	5.0	4.1	0.1	1998049
Dissolved Magnesium (Mg)	mg/L	0.7	0.7	3.1	3.0	1.7	0.5	0.7	0.6	0.5	0.6	0.1	1998049
Dissolved Phosphorus (P)	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1998049
Dissolved Potassium (K)	mg/L	26	26	3.2	1.7	1.1	1.0	0.7	1.4	0.7	0.9	0.1	1998049
Dissolved Sodium (Na)	mg/L	33	33	3.8	2.5	16	2.0	2.3	2.1	1.9	1.9	0.1	1998049

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ELEMENTS BY ICP-AES (WATER)

Maxxam ID		EE0410	EE0411	EE0412	EE0413	EE0414	EE0415	EE0416	EE0417	EE0418	EE0419		
Sampling Date		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		
	Units	**09-MW20**	**09-MW14**	**09-MW21**	**09-MW22**	**09-MW23**	**09-MW25**	**09-MW27S**	**09-MW27D**	**09-MW28**	**09-MW29**	**RDL**	**QC Batch**
Metals													
Dissolved Calcium (Ca)	mg/L	2.7	72	5.1	7.5	17	6.5	12	4.9	5.0	30	0.1	1998049
Dissolved Magnesium (Mg)	mg/L	0.4	9.2	1.2	1.2	5.4	3.6	6.1	3.4	3.4	13	0.1	1998049
Dissolved Phosphorus (P)	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	9.2	<0.1	0.2	0.1	1998049
Dissolved Potassium (K)	mg/L	0.7	4.1	1.3	1.6	3.6	2.5	5.3	9.5	2.5	13	0.1	1998049
Dissolved Sodium (Na)	mg/L	1.9	6.2	2.4	11	5.3	3.5	16	190	3.8	77	0.1	1998049

Maxxam ID		EE0420	EE0421		EE0422	EE0423	EE0423	EE0424	EE0425	EE0426	EE0427		
Sampling Date		2009/10/20	2009/10/20		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		
	Units	**09-MW30**	**09-MW31**	**QC Batch**	**09-MW32**	**09-MW33S**	**09-MW33S Lab-Dup**	**09-MW33D**	**09-MW34S**	**09-MW34D**	**09-MW35D**	**RDL**	**QC Batch**
Metals													
Dissolved Calcium (Ca)	mg/L	9.2	8.4	1998049	11	7.8	7.8	4.2	8.0	23	21	0.1	1998050
Dissolved Magnesium (Mg)	mg/L	1.6	2.1	1998049	5.5	1.1	1.1	3.6	1.6	12	12	0.1	1998050
Dissolved Phosphorus (P)	mg/L	<0.1	<0.1	1998049	1.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1998050
Dissolved Potassium (K)	mg/L	1.3	2.6	1998049	8.2	1.7	1.7	7.8	1.2	8.2	14	0.1	1998050
Dissolved Sodium (Na)	mg/L	2.6	3.7	1998049	57	3.2	3.2	11	5.5	9.2	26	0.1	1998050

Maxxam ID		EE0428	EE0429	EE0430	EE0431	EE0432	EE0433	EE0434		
Sampling Date		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/21	2009/10/21	2009/10/22		
	Units	**09-MW36**	**09-MW37**	**09-MW38**	**09-MW39**	**AMEC2**	**AMEC4**	**09-SW1**	**RDL**	**QC Batch**
Metals										
Dissolved Calcium (Ca)	mg/L	23	31	46	8.5	5.9	5.8	5.6	0.1	1998050
Dissolved Magnesium (Mg)	mg/L	0.5	13	26	1.7	1.0	1.7	2.4	0.1	1998050
Dissolved Phosphorus (P)	mg/L	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1998050
Dissolved Potassium (K)	mg/L	29	13	17	1.9	0.9	1.6	6.5	0.1	1998050
Dissolved Sodium (Na)	mg/L	35	78	23	3.1	4.2	16	2.8	0.1	1998050

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ELEMENTS BY ICP-AES (WATER)

Maxxam ID		EE0439	EE0441	EE0443	EE0445	EE0447	EE0448		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SW5**	**09-SW6**	**09-SW7**	**09-SW8**	**09-SW9**	**09-SW10**	**RDL**	**QC Batch**
Metals									
Dissolved Calcium (Ca)	mg/L	5.1	6.9	2.1	6.8	26	12	0.1	1998050
Dissolved Magnesium (Mg)	mg/L	2.2	2.4	0.6	1.3	2.5	4.2	0.1	1998050
Dissolved Phosphorus (P)	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1998050
Dissolved Potassium (K)	mg/L	8.5	2.2	0.4	2.1	2.8	4.5	0.1	1998050
Dissolved Sodium (Na)	mg/L	2.6	6.2	2.2	2.6	3.6	5.4	0.1	1998050

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Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		EE0391	EE0392	EE0393	EE0394	EE0395	EE0396	EE0397	EE0398	EE0399	EE0400		
Sampling Date		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		
	Units	**09-MW1**	**09-MW2S**	**09-MW2D**	**09-MW3**	**09-MW4**	**09-MW5**	**09-MW6**	**09-MW7**	**09-MW8**	**09-MW9**	**RDL**	**QC Batch**
Metals													
Dissolved Aluminum (Al)	ug/L	229	48.0	284	324	75.4	31.7	6200	126	248	<5.0	5.0	1995244
Dissolved Antimony (Sb)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995244
Dissolved Arsenic (As)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995244
Dissolved Barium (Ba)	ug/L	52.6	164	51.1	36.0	31.3	10.1	140	52.4	25.3	56.6	5.0	1995244
Dissolved Beryllium (Be)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995244
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995244
Dissolved Boron (B)	ug/L	<5.0	34.6	<5.0	14.1	8.0	<5.0	9.4	16.1	13.8	17.0	5.0	1995244
Dissolved Cadmium (Cd)	ug/L	<0.017	0.064	0.031	0.038	<0.017	<0.017	0.050	<0.017	<0.017	0.029	0.017	1995244
Dissolved Chromium (Cr)	ug/L	1.8	<1.0	2.5	2.1	2.3	<1.0	7.7	<1.0	1.6	<1.0	1.0	1995244
Dissolved Cobalt (Co)	ug/L	1.81	<0.40	2.53	1.83	6.77	<0.40	4.96	10.7	0.64	1.36	0.40	1995244
Dissolved Copper (Cu)	ug/L	<2.0	<2.0	<2.0	2.4	<2.0	2.8	23.5	<2.0	<2.0	<2.0	2.0	1995244
Dissolved Iron (Fe)	ug/L	3780	1170	12500	5980	27500	<50	4440	7030	2410	122	50	1995244
Dissolved Lead (Pb)	ug/L	0.77	<0.50	0.53	<0.50	<0.50	<0.50	2.62	<0.50	<0.50	<0.50	0.50	1995244
Dissolved Manganese (Mn)	ug/L	639	665	466	265	809	24.2	251	771	201	556	2.0	1995244
Dissolved Molybdenum (Mo)	ug/L	<2.0	17.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995244
Dissolved Nickel (Ni)	ug/L	2.5	<2.0	3.3	3.3	<2.0	2.2	4.6	6.3	<2.0	2.5	2.0	1995244
Dissolved Selenium (Se)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	1995244
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	1995244
Dissolved Strontium (Sr)	ug/L	63.1	465	96.6	68.1	166	87.6	124	279	130	202	5.0	1995244
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	1995244
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995244
Dissolved Titanium (Ti)	ug/L	5.2	3.4	4.0	4.9	3.3	<2.0	68.9	5.1	6.0	<2.0	2.0	1995244
Dissolved Uranium (U)	ug/L	0.13	0.89	0.17	<0.10	0.10	<0.10	0.80	<0.10	0.13	0.81	0.10	1995244
Dissolved Vanadium (V)	ug/L	5.0	2.5	4.2	3.9	6.0	<2.0	9.3	2.8	5.4	<2.0	2.0	1995244
Dissolved Zinc (Zn)	ug/L	13.4	9.5	11.8	10.6	11.6	21.0	37.8	22.8	<5.0	5.2	5.0	1995244

RDL = Reportable Detection Limit
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Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		EE0400	EE0401	EE0402	EE0403	EE0404	EE0405	EE0406	EE0407	EE0408	EE0409		
Sampling Date		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		
	Units	**09-MW9 Lab-Dup**	**09-MW10**	**09-MW11**	**09-MW12**	**09-MW13S**	**09-MW15**	**09-MW16**	**09-MW17**	**09-MW18**	**09-MW19**	**RDL**	**QC Batch**
Metals													
Dissolved Aluminum (Al)	ug/L	<5.0	154	68.2	574	533	305	417	160	122	206	5.0	1995244
Dissolved Antimony (Sb)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995244
Dissolved Arsenic (As)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995244
Dissolved Barium (Ba)	ug/L	57.5	22.5	31.2	21.2	14.2	28.0	25.9	23.7	15.7	21.1	5.0	1995244
Dissolved Beryllium (Be)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995244
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995244
Dissolved Boron (B)	ug/L	16.6	13.8	15.9	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	1995244
Dissolved Cadmium (Cd)	ug/L	0.021	<0.017	0.029	<0.017	0.051	0.037	<0.017	0.023	0.017	0.031	0.017	1995244
Dissolved Chromium (Cr)	ug/L	<1.0	2.8	1.0	3.3	1.3	1.3	2.3	<1.0	<1.0	1.1	1.0	1995244
Dissolved Cobalt (Co)	ug/L	1.37	<0.40	0.68	7.45	4.89	0.64	1.05	1.29	<0.40	1.32	0.40	1995244
Dissolved Copper (Cu)	ug/L	<2.0	6.8	3.8	12.6	2.7	3.2	<2.0	2.5	2.4	4.1	2.0	1995244
Dissolved Iron (Fe)	ug/L	119	<50	253	5360	3020	634	4520	4280	<50	1540	50	1995244
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	1995244
Dissolved Manganese (Mn)	ug/L	552	10.1	252	525	404	57.3	69.8	68.7	16.5	45.7	2.0	1995244
Dissolved Molybdenum (Mo)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995244
Dissolved Nickel (Ni)	ug/L	2.5	<2.0	<2.0	7.7	<2.0	<2.0	<2.0	3.6	<2.0	2.5	2.0	1995244
Dissolved Selenium (Se)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	1995244
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	1995244
Dissolved Strontium (Sr)	ug/L	206	198	192	118	49.1	31.1	33.8	32.3	36.1	35.8	5.0	1995244
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	1995244
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995244
Dissolved Titanium (Ti)	ug/L	<2.0	<2.0	<2.0	4.7	5.7	2.3	6.1	<2.0	<2.0	2.3	2.0	1995244
Dissolved Uranium (U)	ug/L	0.78	0.65	0.23	0.14	0.34	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	1995244
Dissolved Vanadium (V)	ug/L	<2.0	4.8	<2.0	5.2	3.8	2.7	9.7	<2.0	<2.0	<2.0	2.0	1995244
Dissolved Zinc (Zn)	ug/L	5.2	5.4	<5.0	18.7	19.0	13.8	7.7	26.2	12.9	22.7	5.0	1995244

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		EE0410		EE0411	EE0412	EE0412	EE0413	EE0414	EE0415	EE0416		
Sampling Date		2009/10/20		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		
	Units	**09-MW20**	**QC Batch**	**09-MW14**	**09-MW21**	**09-MW21 Lab-Dup**	**09-MW22**	**09-MW23**	**09-MW25**	**09-MW27S**	**RDL**	**QC Batch**
Metals												
Dissolved Aluminum (Al)	ug/L	400	1995244	545	541	533	236	32.8	75.6	598	5.0	1995759
Dissolved Antimony (Sb)	ug/L	<2.0	1995244	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995759
Dissolved Arsenic (As)	ug/L	<2.0	1995244	5.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995759
Dissolved Barium (Ba)	ug/L	11.7	1995244	127	34.7	35.8	33.3	29.9	11.5	15.7	5.0	1995759
Dissolved Beryllium (Be)	ug/L	<2.0	1995244	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995759
Dissolved Bismuth (Bi)	ug/L	<2.0	1995244	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995759
Dissolved Boron (B)	ug/L	<5.0	1995244	7.8	<5.0	<5.0	40.2	61.9	12.3	491	5.0	1995759
Dissolved Cadmium (Cd)	ug/L	<0.017	1995244	0.093	0.019	<0.017	<0.017	0.064	<0.017	0.560	0.017	1995759
Dissolved Chromium (Cr)	ug/L	1.2	1995244	9.6	1.1	1.0	1.1	<1.0	1.4	<1.0	1.0	1995759
Dissolved Cobalt (Co)	ug/L	0.95	1995244	24.2	2.89	2.90	2.04	3.00	<0.40	1.81	0.40	1995759
Dissolved Copper (Cu)	ug/L	<2.0	1995244	<2.0	7.9	7.6	7.4	7.2	2.4	17.9	2.0	1995759
Dissolved Iron (Fe)	ug/L	11200	1995244	36800	554	545	106	<50	<50	1110	50	1995759
Dissolved Lead (Pb)	ug/L	<0.50	1995244	0.85	5.15	5.05	<0.50	<0.50	2.79	1.43	0.50	1995759
Dissolved Manganese (Mn)	ug/L	42.1	1995244	5420	30.0	29.6	11.0	116	16.8	378	2.0	1995759
Dissolved Molybdenum (Mo)	ug/L	<2.0	1995244	5.1	<2.0	<2.0	<2.0	6.0	<2.0	3.7	2.0	1995759
Dissolved Nickel (Ni)	ug/L	<2.0	1995244	9.1	2.4	2.4	<2.0	3.3	<2.0	4.2	2.0	1995759
Dissolved Selenium (Se)	ug/L	<1.0	1995244	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	1995759
Dissolved Silver (Ag)	ug/L	<0.10	1995244	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	1995759
Dissolved Strontium (Sr)	ug/L	23.9	1995244	258	47.7	47.8	65.1	149	52.3	66.1	5.0	1995759
Dissolved Thallium (Tl)	ug/L	<0.10	1995244	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	1995759
Dissolved Tin (Sn)	ug/L	<2.0	1995244	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995759
Dissolved Titanium (Ti)	ug/L	7.4	1995244	18.8	16.3	15.6	2.4	<2.0	<2.0	15.1	2.0	1995759
Dissolved Uranium (U)	ug/L	<0.10	1995244	1.73	0.13	0.13	0.11	0.12	<0.10	0.12	0.10	1995759
Dissolved Vanadium (V)	ug/L	3.5	1995244	23.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995759
Dissolved Zinc (Zn)	ug/L	12.8	1995244	58.1	9.5	9.8	5.8	9.6	5.8	76.7	5.0	1995759

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Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		EE0417		EE0418	EE0419	EE0420	EE0421	EE0422	EE0423	EE0424	EE0425		
Sampling Date		2009/10/20		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		
	Units	**09-MW27D**	**RDL**	**09-MW28**	**09-MW29**	**09-MW30**	**09-MW31**	**09-MW32**	**09-MW33S**	**09-MW33D**	**09-MW34S**	**RDL**	**QC Batch**
Metals													
Dissolved Aluminum (Al)	ug/L	908	50	77.9	43.4	320	196	425	59.4	33.0	772	5.0	1995759
Dissolved Antimony (Sb)	ug/L	<20	20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995759
Dissolved Arsenic (As)	ug/L	<20	20	<2.0	7.3	<2.0	<2.0	12.5	<2.0	<2.0	3.8	2.0	1995759
Dissolved Barium (Ba)	ug/L	<50	50	6.2	9.4	29.6	10.6	18.6	11.6	12.9	22.0	5.0	1995759
Dissolved Beryllium (Be)	ug/L	<20	20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995759
Dissolved Bismuth (Bi)	ug/L	<20	20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995759
Dissolved Boron (B)	ug/L	950	50	<5.0	323	7.8	11.8	268	<5.0	23.0	<5.0	5.0	1995759
Dissolved Cadmium (Cd)	ug/L	<0.17	0.17	0.111	0.047	<0.017	<0.017	<0.017	<0.017	0.038	0.019	0.017	1995759
Dissolved Chromium (Cr)	ug/L	<10	10	<1.0	1.1	1.4	1.2	2.7	<1.0	<1.0	2.5	1.0	1995759
Dissolved Cobalt (Co)	ug/L	<4.0	4.0	<0.40	0.55	1.43	0.78	0.40	0.46	<0.40	1.33	0.40	1995759
Dissolved Copper (Cu)	ug/L	<20	20	15.1	<2.0	<2.0	<2.0	4.2	<2.0	7.1	<2.0	2.0	1995759
Dissolved Iron (Fe)	ug/L	895	500	<50	124	3500	404	2160	65	<50	10200	50	1995759
Dissolved Lead (Pb)	ug/L	<5.0	5.0	<0.50	<0.50	<0.50	<0.50	0.90	<0.50	<0.50	<0.50	0.50	1995759
Dissolved Manganese (Mn)	ug/L	124	20	31.5	277	87.5	193	327	239	73.7	233	2.0	1995759
Dissolved Molybdenum (Mo)	ug/L	32	20	<2.0	12.0	<2.0	<2.0	3.5	<2.0	13.1	<2.0	2.0	1995759
Dissolved Nickel (Ni)	ug/L	<20	20	5.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995759
Dissolved Selenium (Se)	ug/L	<10	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	1995759
Dissolved Silver (Ag)	ug/L	<1.0	1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	1995759
Dissolved Strontium (Sr)	ug/L	62	50	48.7	162	64.4	58.0	79.2	38.0	38.6	37.5	5.0	1995759
Dissolved Thallium (Tl)	ug/L	<1.0	1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	1995759
Dissolved Tin (Sn)	ug/L	<20	20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995759
Dissolved Titanium (Ti)	ug/L	61	20	2.1	<2.0	4.2	5.0	53.1	3.3	<2.0	15.4	2.0	1995759
Dissolved Uranium (U)	ug/L	3.8	1.0	<0.10	0.68	<0.10	<0.10	0.97	<0.10	0.32	0.15	0.10	1995759
Dissolved Vanadium (V)	ug/L	20	20	<2.0	2.2	3.6	<2.0	11.3	<2.0	<2.0	7.7	2.0	1995759
Dissolved Zinc (Zn)	ug/L	<50	50	7.1	5.9	7.8	7.0	7.9	8.7	<5.0	8.1	5.0	1995759

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Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		EE0426	EE0427	EE0428	EE0429	EE0430		EE0431	EE0431	EE0432	EE0433		
Sampling Date		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		2009/10/20	2009/10/20	2009/10/21	2009/10/21		
	Units	**09-MW34D**	**09-MW35D**	**09-MW36**	**09-MW37**	**09-MW38**	**QC Batch**	**09-MW39**	**09-MW39 Lab-Dup**	**AMEC2**	**AMEC4**	**RDL**	**QC Batch**
Metals													
Dissolved Aluminum (Al)	ug/L	32.8	162	166	40.9	32.5	1995759	241	246	50.5	602	5.0	1995766
Dissolved Antimony (Sb)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	1995759	<2.0	<2.0	<2.0	<2.0	2.0	1995766
Dissolved Arsenic (As)	ug/L	<2.0	<2.0	<2.0	7.6	<2.0	1995759	<2.0	<2.0	<2.0	<2.0	2.0	1995766
Dissolved Barium (Ba)	ug/L	20.3	35.9	17.4	9.8	127	1995759	11.6	11.2	<5.0	14.9	5.0	1995766
Dissolved Beryllium (Be)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	1995759	<2.0	<2.0	<2.0	<2.0	2.0	1995766
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	1995759	<2.0	<2.0	<2.0	<2.0	2.0	1995766
Dissolved Boron (B)	ug/L	25.1	34.3	12.7	290	33.1	1995759	7.2	8.2	<5.0	<5.0	5.0	1995766
Dissolved Cadmium (Cd)	ug/L	0.020	0.108	<0.017	0.042	0.056	1995759	0.019	<0.017	<0.017	0.035	0.017	1995766
Dissolved Chromium (Cr)	ug/L	1.5	<1.0	3.0	1.0	<1.0	1995759	<1.0	1.1	<1.0	2.5	1.0	1995766
Dissolved Cobalt (Co)	ug/L	<0.40	<0.40	<0.40	0.53	<0.40	1995759	0.61	0.61	0.67	6.27	0.40	1995766
Dissolved Copper (Cu)	ug/L	<2.0	2.8	6.9	<2.0	<2.0	1995759	2.2	2.3	<2.0	6.5	2.0	1995766
Dissolved Iron (Fe)	ug/L	535	174	<50	140	1140	1995759	304	305	153	2750	50	1995766
Dissolved Lead (Pb)	ug/L	<0.50	0.90	<0.50	<0.50	<0.50	1995759	<0.50	<0.50	<0.50	1.00	0.50	1995766
Dissolved Manganese (Mn)	ug/L	428	93.8	12.4	295	711	1995759	131	135	185	542	2.0	1995766
Dissolved Molybdenum (Mo)	ug/L	<2.0	30.8	<2.0	12.2	13.7	1995759	<2.0	<2.0	<2.0	<2.0	2.0	1995766
Dissolved Nickel (Ni)	ug/L	<2.0	<2.0	2.4	<2.0	<2.0	1995759	<2.0	<2.0	<2.0	2.4	2.0	1995766
Dissolved Selenium (Se)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1995759	<1.0	<1.0	<1.0	<1.0	1.0	1995766
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	1995759	<0.10	<0.10	<0.10	<0.10	0.10	1995766
Dissolved Strontium (Sr)	ug/L	192	91.3	153	164	449	1995759	59.9	59.3	27.7	43.0	5.0	1995766
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	1995759	<0.10	<0.10	<0.10	<0.10	0.10	1995766
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	1995759	<2.0	<2.0	<2.0	<2.0	2.0	1995766
Dissolved Titanium (Ti)	ug/L	4.1	13.5	<2.0	<2.0	<2.0	1995759	6.8	6.5	<2.0	14.8	2.0	1995766
Dissolved Uranium (U)	ug/L	0.32	2.48	0.55	0.68	0.55	1995759	<0.10	<0.10	0.15	0.27	0.10	1995766
Dissolved Vanadium (V)	ug/L	3.1	<2.0	5.3	2.3	<2.0	1995759	<2.0	<2.0	<2.0	3.9	2.0	1995766
Dissolved Zinc (Zn)	ug/L	10.0	7.9	8.2	6.5	5.4	1995759	10.1	9.8	<5.0	20.2	5.0	1995766

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Maxxam Job #: A9E4696
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Stantec Consulting Ltd
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ELEMENTS BY ICP/MS (WATER)

Maxxam ID		EE0434	EE0439	EE0441	EE0443	EE0445	EE0447	EE0448		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SW1**	**09-SW5**	**09-SW6**	**09-SW7**	**09-SW8**	**09-SW9**	**09-SW10**	**RDL**	**QC Batch**
Metals										
Dissolved Aluminum (Al)	ug/L	725	612	398	529	117	103	151	5.0	1995766
Dissolved Antimony (Sb)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995766
Dissolved Arsenic (As)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995766
Dissolved Barium (Ba)	ug/L	33.8	27.2	36.8	9.7	16.7	23.6	26.5	5.0	1995766
Dissolved Beryllium (Be)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995766
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995766
Dissolved Boron (B)	ug/L	<5.0	<5.0	492	<5.0	<5.0	20.2	<5.0	5.0	1995766
Dissolved Cadmium (Cd)	ug/L	0.041	0.086	0.071	<0.017	<0.017	0.024	0.027	0.017	1995766
Dissolved Chromium (Cr)	ug/L	10.0	6.3	10.2	1.4	1.3	1.3	<1.0	1.0	1995766
Dissolved Cobalt (Co)	ug/L	4.18	5.27	0.94	0.90	<0.40	1.29	1.51	0.40	1995766
Dissolved Copper (Cu)	ug/L	9.5	6.3	4.8	<2.0	<2.0	2.6	2.2	2.0	1995766
Dissolved Iron (Fe)	ug/L	4610	1020	3090	1120	484	830	1000	50	1995766
Dissolved Lead (Pb)	ug/L	1.02	66.3	2.97	<0.50	<0.50	<0.50	0.60	0.50	1995766
Dissolved Manganese (Mn)	ug/L	585	853	97.7	48.4	7.2	171	127	2.0	1995766
Dissolved Molybdenum (Mo)	ug/L	<2.0	<2.0	6.7	<2.0	<2.0	<2.0	<2.0	2.0	1995766
Dissolved Nickel (Ni)	ug/L	3.1	3.5	2.6	<2.0	<2.0	<2.0	<2.0	2.0	1995766
Dissolved Selenium (Se)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	1995766
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	1995766
Dissolved Strontium (Sr)	ug/L	49.7	38.6	51.7	21.4	49.5	152	86.3	5.0	1995766
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	1995766
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995766
Dissolved Titanium (Ti)	ug/L	12.2	3.9	5.7	5.3	<2.0	2.1	3.2	2.0	1995766
Dissolved Uranium (U)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	1995766
Dissolved Vanadium (V)	ug/L	2.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995766
Dissolved Zinc (Zn)	ug/L	22.4	32.7	26.7	<5.0	<5.0	17.2	117	5.0	1995766

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GENERAL COMMENTS

Sample EE0391-01: Poor RCAp Ion Balance due to sample matrix. Possibly due to fine particulate matter.

Sample EE0392-01: Poor RCAp Ion Balance due to probable sampling error. Dissolved Metals tube for EE0392 and EE0393 may have been reversed in field. Sample labels verified in lab. Dissolved metals values verified in lab.

Sample EE0393-01: Poor RCAp Ion Balance due to probable sampling error. Dissolved Metals tube for EE0392 and EE0393 may have been reversed in field. Sample labels verified in lab. Dissolved metals values verified in lab.

Sample EE0394-01: Poor RCAp Ion Balance due to sample matrix. Possible presence of fine particulate and/or iron precipitate.

Sample EE0395-01: Poor RCAp Ion Balance due to sample matrix. Possible presence of fine particulate and/or iron precipitate.

Sample EE0397-01: Poor RCAp Ion Balance due to sample matrix. Possible presence of fine particulate and/or iron precipitate.

Sample EE0399-01: Poor RCAp Ion Balance due to sample matrix. Possible presence of fine particulate and/or iron precipitate.

Sample EE0403-01: Poor RCAp Ion Balance due to sample matrix. Possibly due to fine particulate matter.

Sample EE0404-01: Poor RCAp Ion Balance due to sample matrix. Possibly due to fine particulate matter.

Sample EE0405-01: RCAp Ion Balance acceptable. Low ionic strength sample.

Sample EE0406-01: RCAp Ion Balance acceptable. Low ionic strength sample.

Sample EE0407-01: RCAp Ion Balance acceptable. Low ionic strength sample.

Sample EE0408-01: RCAp Ion Balance acceptable. Low ionic strength sample.

Sample EE0409-01: RCAp Ion Balance acceptable. Low ionic strength sample.

Sample EE0410-01: RCAp Ion Balance acceptable. Low ionic strength sample.

Sample EE0411-01: Poor RCAp Ion Balance due to sample matrix. Possible presence of fine particulate and/or iron precipitate.

Sample EE0413-01: RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample EE0415-01: RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample EE0416-01: Poor RCAp Ion Balance due to sample matrix. Possibly due to fine particulate matter.

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Sample EE0417-01: Elevated reporting limits for trace metals due to a high boron content.

Poor RCAp Ion Balance due to sample matrix. Possibly due to fine particulate matter.

Sample EE0419-01: Poor RCAp Ion Balance due to sample matrix. Excess cations due to possible presence of fine particulate.

Sample EE0420-01: RCAp Ion Balance acceptable. Low ionic strength sample.

Sample EE0421-01: RCAp Ion Balance acceptable. Low ionic strength sample.

Sample EE0422-01: Poor RCAp Ion Balance due to sample matrix. Excess cations due to possible presence of fine particulate.

Sample EE0425-01: RCAp Ion Balance acceptable. Low ionic strength sample.

Sample EE0429-01: Poor RCAp Ion Balance due to sample matrix. Excess cations due to possible presence of fine particulate.

Sample EE0430-01: Poor RCAp Ion Balance due to sample matrix. Excess cations due to possible presence of fine particulate.

Sample EE0431-01: RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample EE0433-01: RCAp Ion Balance acceptable. Low ionic strength sample.

Sample EE0434-01: RCAp Ion Balance acceptable. Low ionic strength sample.

Sample EE0439-01: RCAp Ion Balance acceptable. Low ionic strength sample.

Sample EE0441-01: RCAp Ion Balance acceptable. Low ionic strength sample.

Sample EE0443-01: RCAp Ion Balance acceptable. Low ionic strength sample.

Sample EE0445-01: RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample EE0448-01: RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample EE0490-01: Elevated reporting limits for trace metals due to matrix interferences.

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QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
1993958	Isobutylbenzene - Volatile	2009/10/29	95	60 - 140	102	60 - 140	102	%				
1993958	Benzene	2009/10/29	100	60 - 140	97	60 - 140	<0.03	mg/kg	NC	50		
1993958	Toluene	2009/10/29	127	60 - 140	101	60 - 140	<0.03	mg/kg	NC	50		
1993958	Ethylbenzene	2009/10/29	118	60 - 140	96	60 - 140	<0.03	mg/kg	NC	50		
1993958	Xylene (Total)	2009/10/29	125	60 - 140	97	60 - 140	<0.05	mg/kg	NC	50		
1993958	C6 - C10 (less BTEX)	2009/10/29					<3	mg/kg	NC	50		
1994277	Decachlorobiphenyl	2009/11/02	96	30 - 130	92	30 - 130	92	%				
1994277	Total PCB	2009/11/02	100	70 - 130	100	70 - 130	<0.05	ug/g	NC	50		
1994358	D10-Anthracene	2009/11/06	85	30 - 130	107	30 - 130	78	%				
1994358	D14-Terphenyl	2009/11/06	81	30 - 130	116	30 - 130	81	%				
1994358	D8-Acenaphthylene	2009/11/06	75	30 - 130	87	30 - 130	70	%				
1994358	1-Methylnaphthalene	2009/11/06	64(1)	30 - 130	77	30 - 130	<0.005	mg/kg	NC	50		
1994358	2-Methylnaphthalene	2009/11/06	66(1)	30 - 130	78	30 - 130	<0.005	mg/kg	NC	50		
1994358	Acenaphthene	2009/11/06	45(1)	30 - 130	79	30 - 130	<0.005	mg/kg	3.7	50		
1994358	Acenaphthylene	2009/11/06	69(1)	30 - 130	72	30 - 130	<0.005	mg/kg	NC	50		
1994358	Anthracene	2009/11/06	NC	30 - 130	83	30 - 130	<0.005	mg/kg	18.2	50		
1994358	Benzo(a)anthracene	2009/11/06	NC	30 - 130	86	30 - 130	<0.005	mg/kg	2.9	50		
1994358	Benzo(a)pyrene	2009/11/06	NC	30 - 130	90	30 - 130	<0.005	mg/kg	0.4	50		
1994358	Benzo(b)fluoranthene	2009/11/06	NC	30 - 130	97	30 - 130	<0.005	mg/kg	2.7	50		
1994358	Benzo(g,h,i)perylene	2009/11/06	NC	30 - 130	88	30 - 130	<0.005	mg/kg	0.7	50		
1994358	Benzo(k)fluoranthene	2009/11/06	NC	30 - 130	97	30 - 130	<0.005	mg/kg	4.5	50		
1994358	Chrysene	2009/11/06	NC	30 - 130	100	30 - 130	<0.005	mg/kg	2.1	50		
1994358	Dibenz(a,h)anthracene	2009/11/06	56(1)	30 - 130	81	30 - 130	<0.005	mg/kg	4.3	50		
1994358	Fluoranthene	2009/11/06	NC	30 - 130	101	30 - 130	<0.005	mg/kg	3.0	50		
1994358	Fluorene	2009/11/06	53(1)	30 - 130	77	30 - 130	<0.005	mg/kg	16.4	50		
1994358	Indeno(1,2,3-cd)pyrene	2009/11/06	NC	30 - 130	74	30 - 130	<0.005	mg/kg	1.6	50		
1994358	Naphthalene	2009/11/06	55(1)	30 - 130	77	30 - 130	<0.005	mg/kg	NC	50		
1994358	Perylene	2009/11/06	49(1)	30 - 130	86	30 - 130	<0.005	mg/kg	23.3	50		
1994358	Phenanthrene	2009/11/06	NC	30 - 130	93	30 - 130	<0.005	mg/kg	11.3	50		
1994358	Pyrene	2009/11/06	NC	30 - 130	101	30 - 130	<0.005	mg/kg	3.1	50		
1994391	Isobutylbenzene - Extractable	2009/10/30	108	30 - 130	98	30 - 130	99	%				
1994391	n-Dotriacontane - Extractable	2009/10/30	114	30 - 130	98	30 - 130	97	%				
1994391	>C10-C21 Hydrocarbons	2009/10/30	91	30 - 130	102	30 - 130	<15	mg/kg	NC	50		
1994391	>C21-<C32 Hydrocarbons	2009/10/30	99	30 - 130	112	30 - 130	<15	mg/kg	13.4	50		
1995109	Total Mercury (Hg)	2009/10/29	102	80 - 120	94	80 - 120	<0.013	ug/L	NC	25	99	80 - 120
1995110	Total Mercury (Hg)	2009/10/29	100	80 - 120	104	80 - 120	<0.013	ug/L	NC	25	101	80 - 120
1995111	Total Mercury (Hg)	2009/10/29	NC	80 - 120	104	80 - 120	<0.013	ug/L	3.9	25	102	80 - 120
1995244	Dissolved Aluminum (Al)	2009/10/30	NC	80 - 120	105	80 - 120	<5.0	ug/L	NC	35	104	80 - 120
1995244	Dissolved Antimony (Sb)	2009/10/30	101	80 - 120	102	80 - 120	<2.0	ug/L	NC	25	107	80 - 120

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Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
1995244	Dissolved Arsenic (As)	2009/10/30	116	80 - 120	104	80 - 120	<2.0	ug/L	NC	25	89	80 - 120
1995244	Dissolved Barium (Ba)	2009/10/30	NC	80 - 120	106	80 - 120	<5.0	ug/L	1.5	25	101	80 - 120
1995244	Dissolved Beryllium (Be)	2009/10/30	123(2, 3)	80 - 120	104	80 - 120	<2.0	ug/L	NC	25	82	80 - 120
1995244	Dissolved Bismuth (Bi)	2009/10/30	85	80 - 120	101	80 - 120	<2.0	ug/L	NC	25	90	80 - 120
1995244	Dissolved Boron (B)	2009/10/30	117	80 - 120	99	80 - 120	<5.0	ug/L	NC	25	91	80 - 120
1995244	Dissolved Cadmium (Cd)	2009/10/30	110	80 - 120	103	80 - 120	<0.017	ug/L	NC	25	95	80 - 120
1995244	Dissolved Chromium (Cr)	2009/10/30	103	80 - 120	107	80 - 120	<1.0	ug/L	NC	25	100	80 - 120
1995244	Dissolved Cobalt (Co)	2009/10/30	101	80 - 120	107	80 - 120	<0.40	ug/L	NC	25	95	80 - 120
1995244	Dissolved Copper (Cu)	2009/10/30	104	80 - 120	106	80 - 120	<2.0	ug/L	NC	25	87	80 - 120
1995244	Dissolved Lead (Pb)	2009/10/30	108	80 - 120	101	80 - 120	<0.50	ug/L	NC	25	91	80 - 120
1995244	Dissolved Manganese (Mn)	2009/10/30	NC	80 - 120	103	80 - 120	<2.0	ug/L	0.7	25	95	80 - 120
1995244	Dissolved Molybdenum (Mo)	2009/10/30	99	80 - 120	107	80 - 120	<2.0	ug/L	NC	25	104	80 - 120
1995244	Dissolved Nickel (Ni)	2009/10/30	104	80 - 120	109	80 - 120	<2.0	ug/L	NC	25	90	80 - 120
1995244	Dissolved Selenium (Se)	2009/10/30	118	80 - 120	99	80 - 120	<1.0	ug/L	NC	25	83	80 - 120
1995244	Dissolved Silver (Ag)	2009/10/30	94	80 - 120	91	80 - 120	<0.10	ug/L	NC	25	82	80 - 120
1995244	Dissolved Strontium (Sr)	2009/10/30	NC	80 - 120	109	80 - 120	<5.0	ug/L	2.0	25	99	80 - 120
1995244	Dissolved Thallium (Tl)	2009/10/30	106	80 - 120	104	80 - 120	<0.10	ug/L	NC	25	88	80 - 120
1995244	Dissolved Tin (Sn)	2009/10/30	96	80 - 120	108	80 - 120	<2.0	ug/L	NC	25		
1995244	Dissolved Titanium (Ti)	2009/10/30	103	80 - 120	103	80 - 120	<2.0	ug/L	NC	25		
1995244	Dissolved Uranium (U)	2009/10/30	105	80 - 120	103	80 - 120	<0.10	ug/L	4.0	25		
1995244	Dissolved Vanadium (V)	2009/10/30	104	80 - 120	107	80 - 120	<2.0	ug/L	NC	25	98	80 - 120
1995244	Dissolved Zinc (Zn)	2009/10/30	125(2, 3)	80 - 120	111	80 - 120	<5.0	ug/L	NC	25	95	80 - 120
1995244	Dissolved Iron (Fe)	2009/10/30					<50	ug/L	NC	25	97	80 - 120
1995672	Available Aluminum (Al)	2009/10/30	NC	75 - 125	100	75 - 125	<10	mg/kg	7.0	35	89	75 - 125
1995672	Available Antimony (Sb)	2009/10/30	100	75 - 125	107	75 - 125	<2	mg/kg	NC	35		
1995672	Available Arsenic (As)	2009/10/30	100	75 - 125	91	75 - 125	<2	mg/kg	NC	35	114	75 - 125
1995672	Available Barium (Ba)	2009/10/30	NC	75 - 125	96	75 - 125	<5	mg/kg	10.8	35	108	75 - 125
1995672	Available Beryllium (Be)	2009/10/30	94	75 - 125	94	75 - 125	<2	mg/kg	NC	35		
1995672	Available Bismuth (Bi)	2009/10/30	99	75 - 125	98	75 - 125	<2	mg/kg	NC	N/A		
1995672	Available Boron (B)	2009/10/30	94	75 - 125	91	75 - 125	<5	mg/kg	NC	35		
1995672	Available Cadmium (Cd)	2009/10/30	100	75 - 125	93	75 - 125	<0.3	mg/kg	NC	35		
1995672	Available Chromium (Cr)	2009/10/30	NC	75 - 125	98	75 - 125	<2	mg/kg	3.4	35	91	75 - 125
1995672	Available Cobalt (Co)	2009/10/30	100	75 - 125	98	75 - 125	<1	mg/kg	NC	35	98	75 - 125
1995672	Available Copper (Cu)	2009/10/30	92	75 - 125	98	75 - 125	<2	mg/kg	NC	35	97	75 - 125
1995672	Available Iron (Fe)	2009/10/30	NC	75 - 125	94	75 - 125	<50	mg/kg	9.8	35	98	75 - 125
1995672	Available Lead (Pb)	2009/10/30	98	75 - 125	96	75 - 125	<0.5	mg/kg	7.5	35	101	75 - 125
1995672	Available Lithium (Li)	2009/10/30	90	75 - 125	93	75 - 125	<2	mg/kg	NC	N/A		
1995672	Available Manganese (Mn)	2009/10/30	NC	75 - 125	97	75 - 125	<2	mg/kg	8.4	35	107	75 - 125
1995672	Available Mercury (Hg)	2009/10/30	102	75 - 125	110	75 - 125	<0.1	mg/kg	NC	N/A		

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Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
1995672	Available Molybdenum (Mo)	2009/10/30	102	75 - 125	100	75 - 125	<2	mg/kg	NC	35		
1995672	Available Nickel (Ni)	2009/10/30	93	75 - 125	99	75 - 125	<2	mg/kg	NC	35	104	75 - 125
1995672	Available Rubidium (Rb)	2009/10/30	NC	75 - 125	96	75 - 125	<2	mg/kg	11.9	N/A		
1995672	Available Selenium (Se)	2009/10/30	92	75 - 125	85	75 - 125	<1	mg/kg	NC	35		
1995672	Available Silver (Ag)	2009/10/30	105	75 - 125	99	75 - 125	<0.5	mg/kg	NC	35		
1995672	Available Strontium (Sr)	2009/10/30	NC	75 - 125	94	75 - 125	<5	mg/kg	NC	35	94	75 - 125
1995672	Available Thallium (Tl)	2009/10/30	89	75 - 125	91	75 - 125	<0.1	mg/kg	NC	35		
1995672	Available Tin (Sn)	2009/10/30	108	75 - 125	106	75 - 125	<2	mg/kg	NC	N/A		
1995672	Available Uranium (U)	2009/10/30	96	75 - 125	93	75 - 125	<0.1	mg/kg	NC	35		
1995672	Available Vanadium (V)	2009/10/30	NC	75 - 125	104	75 - 125	<2	mg/kg	1.9	35	111	75 - 125
1995672	Available Zinc (Zn)	2009/10/30	93	75 - 125	89	75 - 125	<5	mg/kg	NC	35	103	75 - 125
1995759	Dissolved Aluminum (Al)	2009/10/30	NC	80 - 120	104	80 - 120	<5.0	ug/L	1.5	35	102	80 - 120
1995759	Dissolved Antimony (Sb)	2009/10/30	98	80 - 120	100	80 - 120	<2.0	ug/L	NC	25	109	80 - 120
1995759	Dissolved Arsenic (As)	2009/10/30	117	80 - 120	108	80 - 120	<2.0	ug/L	NC	25	91	80 - 120
1995759	Dissolved Barium (Ba)	2009/10/30	NC	80 - 120	111	80 - 120	<5.0	ug/L	3.0	25	99	80 - 120
1995759	Dissolved Beryllium (Be)	2009/10/30	110	80 - 120	108	80 - 120	<2.0	ug/L	NC	25	83	80 - 120
1995759	Dissolved Bismuth (Bi)	2009/10/30	92	80 - 120	109	80 - 120	<2.0	ug/L	NC	25	94	80 - 120
1995759	Dissolved Boron (B)	2009/10/30	NC	80 - 120	111	80 - 120	<5.0	ug/L	NC	25	86	80 - 120
1995759	Dissolved Cadmium (Cd)	2009/10/30	109	80 - 120	106	80 - 120	<0.017	ug/L	NC	25	99	80 - 120
1995759	Dissolved Chromium (Cr)	2009/10/30	106	80 - 120	105	80 - 120	<1.0	ug/L	NC	25	100	80 - 120
1995759	Dissolved Cobalt (Co)	2009/10/30	109	80 - 120	108	80 - 120	<0.40	ug/L	0.2	25	97	80 - 120
1995759	Dissolved Copper (Cu)	2009/10/30	105	80 - 120	107	80 - 120	<2.0	ug/L	NC	25	89	80 - 120
1995759	Dissolved Lead (Pb)	2009/10/30	109	80 - 120	105	80 - 120	<0.50	ug/L	1.9	25	94	80 - 120
1995759	Dissolved Manganese (Mn)	2009/10/30	95	80 - 120	104	80 - 120	<2.0	ug/L	1.3	25	93	80 - 120
1995759	Dissolved Molybdenum (Mo)	2009/10/30	102	80 - 120	107	80 - 120	<2.0	ug/L	NC	25	106	80 - 120
1995759	Dissolved Nickel (Ni)	2009/10/30	109	80 - 120	105	80 - 120	<2.0	ug/L	NC	25	91	80 - 120
1995759	Dissolved Selenium (Se)	2009/10/30	116	80 - 120	105	80 - 120	<1.0	ug/L	NC	25	80	80 - 120
1995759	Dissolved Silver (Ag)	2009/10/30	91	80 - 120	97	80 - 120	<0.10	ug/L	NC	25	85	80 - 120
1995759	Dissolved Strontium (Sr)	2009/10/30	NC	80 - 120	108	80 - 120	<5.0	ug/L	0.02	25	100	80 - 120
1995759	Dissolved Thallium (Tl)	2009/10/30	110	80 - 120	99	80 - 120	<0.10	ug/L	NC	25	94	80 - 120
1995759	Dissolved Tin (Sn)	2009/10/30	97	80 - 120	105	80 - 120	<2.0	ug/L	NC	25		
1995759	Dissolved Titanium (Ti)	2009/10/30	104	80 - 120	103	80 - 120	<2.0	ug/L	4.8	25		
1995759	Dissolved Uranium (U)	2009/10/30	115	80 - 120	106	80 - 120	<0.10	ug/L	NC	25		
1995759	Dissolved Vanadium (V)	2009/10/30	107	80 - 120	103	80 - 120	<2.0	ug/L	NC	25	101	80 - 120
1995759	Dissolved Zinc (Zn)	2009/10/30	123 (2, 3)	80 - 120	115	80 - 120	<5.0	ug/L	NC	25	80	80 - 120
1995759	Dissolved Iron (Fe)	2009/10/30					<50	ug/L	1.6	25	107	80 - 120
1995766	Dissolved Aluminum (Al)	2009/10/30	NC	80 - 120	110	80 - 120	<5.0	ug/L	2.1	35	105	80 - 120
1995766	Dissolved Antimony (Sb)	2009/10/30	102	80 - 120	102	80 - 120	<2.0	ug/L	NC	25	110	80 - 120
1995766	Dissolved Arsenic (As)	2009/10/30	124 (2, 3)	80 - 120	113	80 - 120	<2.0	ug/L	NC	25	91	80 - 120

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QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
1995766	Dissolved Barium (Ba)	2009/10/30	110	80 - 120	105	80 - 120	<5.0	ug/L	NC	25	101	80 - 120
1995766	Dissolved Beryllium (Be)	2009/10/30	106	80 - 120	103	80 - 120	<2.0	ug/L	NC	25	78(2, 4)	80 - 120
1995766	Dissolved Bismuth (Bi)	2009/10/30	78(2, 3)	80 - 120	110	80 - 120	<2.0	ug/L	NC	25	95	80 - 120
1995766	Dissolved Boron (B)	2009/10/30	88	80 - 120	91	80 - 120	<5.0	ug/L	NC	25	87	80 - 120
1995766	Dissolved Cadmium (Cd)	2009/10/30	120	80 - 120	111	80 - 120	<0.017	ug/L	NC	25	102	80 - 120
1995766	Dissolved Chromium (Cr)	2009/10/30	100	80 - 120	97	80 - 120	<1.0	ug/L	NC	25	102	80 - 120
1995766	Dissolved Cobalt (Co)	2009/10/30	108	80 - 120	106	80 - 120	<0.40	ug/L	NC	25	100	80 - 120
1995766	Dissolved Copper (Cu)	2009/10/30	100	80 - 120	101	80 - 120	<2.0	ug/L	NC	25	90	80 - 120
1995766	Dissolved Lead (Pb)	2009/10/30	106	80 - 120	105	80 - 120	<0.50	ug/L	NC	25	92	80 - 120
1995766	Dissolved Manganese (Mn)	2009/10/30	NC	80 - 120	105	80 - 120	<2.0	ug/L	2.5	25	96	80 - 120
1995766	Dissolved Molybdenum (Mo)	2009/10/30	111	80 - 120	114	80 - 120	<2.0	ug/L	NC	25	110	80 - 120
1995766	Dissolved Nickel (Ni)	2009/10/30	105	80 - 120	105	80 - 120	<2.0	ug/L	NC	25	97	80 - 120
1995766	Dissolved Selenium (Se)	2009/10/30	121(2, 3)	80 - 120	109	80 - 120	<1.0	ug/L	NC	25	83	80 - 120
1995766	Dissolved Silver (Ag)	2009/10/30	94	80 - 120	92	80 - 120	<0.10	ug/L	NC	25	87	80 - 120
1995766	Dissolved Strontium (Sr)	2009/10/30	NC	80 - 120	108	80 - 120	<5.0	ug/L	0.9	25	96	80 - 120
1995766	Dissolved Thallium (Tl)	2009/10/30	103	80 - 120	102	80 - 120	<0.10	ug/L	NC	25	91	80 - 120
1995766	Dissolved Tin (Sn)	2009/10/30	110	80 - 120	119	80 - 120	<2.0	ug/L	NC	25		
1995766	Dissolved Titanium (Ti)	2009/10/30	108	80 - 120	105	80 - 120	<2.0	ug/L	NC	25		
1995766	Dissolved Uranium (U)	2009/10/30	111	80 - 120	108	80 - 120	<0.10	ug/L	NC	25		
1995766	Dissolved Vanadium (V)	2009/10/30	105	80 - 120	105	80 - 120	<2.0	ug/L	NC	25	103	80 - 120
1995766	Dissolved Zinc (Zn)	2009/10/30	132(2, 5)	80 - 120	118	80 - 120	<5.0	ug/L	NC	25	95	80 - 120
1995766	Dissolved Iron (Fe)	2009/10/30					<50	ug/L	0.2	25	94	80 - 120
1995798	Available Aluminum (Al)	2009/10/30	NC	75 - 125	102	75 - 125	<10	mg/kg	2.0	35	87	75 - 125
1995798	Available Antimony (Sb)	2009/10/30	88	75 - 125	104	75 - 125	<2	mg/kg	NC	35		
1995798	Available Arsenic (As)	2009/10/30	101	75 - 125	93	75 - 125	<2	mg/kg	NC	35	123	75 - 125
1995798	Available Barium (Ba)	2009/10/30	NC	75 - 125	95	75 - 125	<5	mg/kg	1.2	35	106	75 - 125
1995798	Available Beryllium (Be)	2009/10/30	98	75 - 125	107	75 - 125	<2	mg/kg	NC	35		
1995798	Available Bismuth (Bi)	2009/10/30	96	75 - 125	99	75 - 125	<2	mg/kg	NC	N/A		
1995798	Available Boron (B)	2009/10/30	99	75 - 125	92	75 - 125	<5	mg/kg	NC	35		
1995798	Available Cadmium (Cd)	2009/10/30	95	75 - 125	94	75 - 125	<0.3	mg/kg	NC	35		
1995798	Available Chromium (Cr)	2009/10/30	NC	75 - 125	99	75 - 125	<2	mg/kg	1.3	35	85	75 - 125
1995798	Available Cobalt (Co)	2009/10/30	99	75 - 125	95	75 - 125	<1	mg/kg	NC	35	93	75 - 125
1995798	Available Copper (Cu)	2009/10/30	NC	75 - 125	95	75 - 125	<2	mg/kg	3.9	35	87	75 - 125
1995798	Available Iron (Fe)	2009/10/30	NC	75 - 125	105	75 - 125	<50	mg/kg	2.9	35	93	75 - 125
1995798	Available Lead (Pb)	2009/10/30	94	75 - 125	96	75 - 125	<0.5	mg/kg	NC	35	100	75 - 125
1995798	Available Lithium (Li)	2009/10/30	101	75 - 125	96	75 - 125	<2	mg/kg	NC	N/A		
1995798	Available Manganese (Mn)	2009/10/30	NC	75 - 125	98	75 - 125	<2	mg/kg	1.0	35	98	75 - 125
1995798	Available Mercury (Hg)	2009/10/30	99	75 - 125	102	75 - 125	<0.1	mg/kg	NC	N/A		
1995798	Available Molybdenum (Mo)	2009/10/30	100	75 - 125	95	75 - 125	<2	mg/kg	NC	35		

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QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
1995798	Available Nickel (Ni)	2009/10/30	97	75 - 125	94	75 - 125	<2	mg/kg	NC	35	93	75 - 125
1995798	Available Rubidium (Rb)	2009/10/30	104	75 - 125	97	75 - 125	<2	mg/kg	NC	N/A		
1995798	Available Selenium (Se)	2009/10/30	98	75 - 125	88	75 - 125	<1	mg/kg	NC	35		
1995798	Available Silver (Ag)	2009/10/30	95	75 - 125	96	75 - 125	<0.5	mg/kg	NC	35		
1995798	Available Strontium (Sr)	2009/10/30	95	75 - 125	99	75 - 125	<5	mg/kg	NC	35	91	75 - 125
1995798	Available Thallium (Tl)	2009/10/30	90	75 - 125	85	75 - 125	<0.1	mg/kg	NC	35		
1995798	Available Tin (Sn)	2009/10/30	104	75 - 125	102	75 - 125	<2	mg/kg	NC	N/A		
1995798	Available Uranium (U)	2009/10/30	92	75 - 125	86	75 - 125	<0.1	mg/kg	NC	35		
1995798	Available Vanadium (V)	2009/10/30	NC	75 - 125	105	75 - 125	2, RDL=2	mg/kg	3.7	35	102	75 - 125
1995798	Available Zinc (Zn)	2009/10/30	92	75 - 125	90	75 - 125	<5	mg/kg	NC	35	102	75 - 125
1995985	pH	2009/10/30					6.22, RDL=0	pH	0.7	25	102	80 - 120
1995996	Conductivity	2009/10/30					<1	uS/cm	0.8	25	104	80 - 120
1995999	pH	2009/10/30					6.11, RDL=0	pH	0.8	25	102	80 - 120
1996007	Conductivity	2009/10/30					<1	uS/cm	0.07	25	105	80 - 120
1996012	Total Organic Carbon (C)	2009/10/30	130(2, 6)	75 - 125	110	75 - 125	<0.5	mg/L	NC	25	95	80 - 120
1996016	Total Organic Carbon (C)	2009/10/30	NC	75 - 125	88	75 - 125	<0.5	mg/L	NC(7)	25	76(2, 8)	80 - 120
1996914	D10-Anthracene	2009/11/06	103	30 - 130	106	30 - 130	116	%				
1996914	D14-Terphenyl	2009/11/06	103	30 - 130	102	30 - 130	105	%				
1996914	D8-Acenaphthylene	2009/11/06	89	30 - 130	97	30 - 130	99	%				
1996914	1-Methylnaphthalene	2009/11/05	72	30 - 130	73	30 - 130	<0.005	mg/kg	NC	50		
1996914	2-Methylnaphthalene	2009/11/05	78	30 - 130	76	30 - 130	<0.005	mg/kg	NC	50		
1996914	Acenaphthene	2009/11/05	79	30 - 130	78	30 - 130	<0.005	mg/kg	NC	50		
1996914	Acenaphthylene	2009/11/05	64(9)	30 - 130	74	30 - 130	<0.005	mg/kg	NC	50		
1996914	Anthracene	2009/11/05	80	30 - 130	79	30 - 130	<0.005	mg/kg	NC	50		
1996914	Benzo(a)anthracene	2009/11/05	90	30 - 130	90	30 - 130	<0.005	mg/kg	NC	50		
1996914	Benzo(a)pyrene	2009/11/05	73	30 - 130	87	30 - 130	<0.005	mg/kg	NC	50		
1996914	Benzo(b)fluoranthene	2009/11/05	78	30 - 130	84	30 - 130	<0.005	mg/kg	NC	50		
1996914	Benzo(g,h,i)perylene	2009/11/05	67(9)	30 - 130	82	30 - 130	<0.005	mg/kg	NC	50		
1996914	Benzo(k)fluoranthene	2009/11/05	78	30 - 130	84	30 - 130	<0.005	mg/kg	NC	50		
1996914	Chrysene	2009/11/05	98	30 - 130	103	30 - 130	<0.005	mg/kg	NC	50		
1996914	Dibenz(a,h)anthracene	2009/11/05	67(9)	30 - 130	76	30 - 130	<0.005	mg/kg	NC	50		
1996914	Fluoranthene	2009/11/05	95	30 - 130	93	30 - 130	<0.005	mg/kg	NC(10)	50		
1996914	Fluorene	2009/11/05	75	30 - 130	75	30 - 130	<0.005	mg/kg	NC	50		
1996914	Indeno(1,2,3-cd)pyrene	2009/11/05	66(9)	30 - 130	80	30 - 130	<0.005	mg/kg	NC	50		
1996914	Naphthalene	2009/11/05	75	30 - 130	74	30 - 130	<0.005	mg/kg	NC	50		
1996914	Perylene	2009/11/05	68(9)	30 - 130	80	30 - 130	<0.005	mg/kg	NC	50		
1996914	Phenanthrene	2009/11/05	85	30 - 130	84	30 - 130	<0.005	mg/kg	NC(10)	50		
1996914	Pyrene	2009/11/05	94	30 - 130	94	30 - 130	<0.005	mg/kg	NC(10)	50		
1996934	Total Alkalinity (Total as CaCO3)	2009/11/02	NC	80 - 120	104	80 - 120	<5	mg/L	2.1	25	99	80 - 120

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QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
1996937	Dissolved Chloride (Cl)	2009/11/03	NC	80 - 120	103	80 - 120	<1	mg/L	0.5	25	97	80 - 120
1996938	Dissolved Sulphate (SO4)	2009/11/03	99	80 - 120	101	80 - 120	<2	mg/L	NC	25	94	80 - 120
1996939	Reactive Silica (SiO2)	2009/11/03	99	80 - 120	102	80 - 120	<0.5	mg/L	1.3	25	100	75 - 125
1996940	Colour	2009/11/02					<5	TCU	NC	25	106	80 - 120
1996942	Orthophosphate (P)	2009/11/03	102	80 - 120	106	80 - 120	<0.01	mg/L	NC	25	102	80 - 120
1996943	Nitrate + Nitrite	2009/11/03	102	80 - 120	101	80 - 120	<0.05	mg/L	NC	25	103	80 - 120
1996944	Nitrite (N)	2009/11/03	102	80 - 120	106	80 - 120	<0.01	mg/L	NC	25	107	80 - 120
1996983	Total Alkalinity (Total as CaCO3)	2009/11/02	103	80 - 120	98	80 - 120	<5	mg/L	NC	25	97	80 - 120
1996984	Dissolved Chloride (Cl)	2009/11/03	104	80 - 120	102	80 - 120	<1	mg/L	NC	25	97	80 - 120
1996985	Dissolved Sulphate (SO4)	2009/11/03	102	80 - 120	100	80 - 120	<2	mg/L	NC	25	93	80 - 120
1996986	Reactive Silica (SiO2)	2009/11/03	NC	80 - 120	102	80 - 120	<0.5	mg/L	0.1	25	100	75 - 125
1996987	Colour	2009/11/02					<5	TCU	NC	25	109	80 - 120
1996988	Orthophosphate (P)	2009/11/03	101	80 - 120	106	80 - 120	<0.01	mg/L	NC	25	105	80 - 120
1996989	Nitrate + Nitrite	2009/11/03	103	80 - 120	102	80 - 120	<0.05	mg/L	2.2	25	103	80 - 120
1996990	Nitrite (N)	2009/11/03	102	80 - 120	105	N/A	<0.01	mg/L	NC	25	104	80 - 120
1996991	Total Alkalinity (Total as CaCO3)	2009/11/03	NC	80 - 120	102	80 - 120	<5	mg/L	NC	25	98	80 - 120
1996993	Dissolved Chloride (Cl)	2009/11/03	105	80 - 120	103	80 - 120	<1	mg/L	NC	25	99	80 - 120
1996994	Dissolved Sulphate (SO4)	2009/11/03	112	80 - 120	100	80 - 120	<2	mg/L	NC	25	94	80 - 120
1996995	Reactive Silica (SiO2)	2009/11/02	NC	80 - 120	102	80 - 120	<0.5	mg/L	1.1	25	101	75 - 125
1996996	Colour	2009/11/02					<5	TCU	16.3	25	112	80 - 120
1996997	Orthophosphate (P)	2009/11/03	94	80 - 120	107	80 - 120	<0.01	mg/L	NC	25	103	80 - 120
1996998	Nitrate + Nitrite	2009/11/03	103	N/A	101	80 - 120	<0.05	mg/L	NC	25	101	80 - 120
1996999	Nitrite (N)	2009/11/03	97	80 - 120	110	80 - 120	<0.01	mg/L	NC	25	110	80 - 120
1997301	Available Aluminum (Al)	2009/11/02	NC	75 - 125	94	75 - 125	<10	mg/kg	0.7	35	81	75 - 125
1997301	Available Antimony (Sb)	2009/11/02	99	75 - 125	105	75 - 125	<2	mg/kg	NC	35		
1997301	Available Arsenic (As)	2009/11/02	106	75 - 125	97	75 - 125	<2	mg/kg	NC	35	125	75 - 125
1997301	Available Barium (Ba)	2009/11/02	NC	75 - 125	99	75 - 125	<5	mg/kg	6.0	35	112	75 - 125
1997301	Available Beryllium (Be)	2009/11/02	80	75 - 125	89	75 - 125	<2	mg/kg	NC	35		
1997301	Available Bismuth (Bi)	2009/11/02	102	75 - 125	99	75 - 125	<2	mg/kg	NC	N/A		
1997301	Available Boron (B)	2009/11/02	80	75 - 125	87	75 - 125	<5	mg/kg	NC	35		
1997301	Available Cadmium (Cd)	2009/11/02	100	75 - 125	93	75 - 125	<0.3	mg/kg	NC	35		
1997301	Available Chromium (Cr)	2009/11/02	NC	75 - 125	99	75 - 125	<2	mg/kg	NC(11)	35	87	75 - 125
1997301	Available Cobalt (Co)	2009/11/02	103	75 - 125	95	75 - 125	<1	mg/kg	NC	35	97	75 - 125
1997301	Available Copper (Cu)	2009/11/02	96	75 - 125	96	75 - 125	<2	mg/kg	NC	35	90	75 - 125
1997301	Available Iron (Fe)	2009/11/02	NC	75 - 125	89	75 - 125	<50	mg/kg	3.4	35	88	75 - 125
1997301	Available Lead (Pb)	2009/11/02	NC	75 - 125	98	75 - 125	<0.5	mg/kg	137(2, 11)	35	98	75 - 125
1997301	Available Lithium (Li)	2009/11/02	86	75 - 125	95	75 - 125	<2	mg/kg	NC	N/A		
1997301	Available Manganese (Mn)	2009/11/02	NC	75 - 125	93	75 - 125	<2	mg/kg	4.6	35	95	75 - 125
1997301	Available Mercury (Hg)	2009/11/02	100	75 - 125	103	75 - 125	<0.1	mg/kg	NC	N/A		

Maxxam Analytics International Corporation o/a Maxxam Analytics 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel:902-420-0203 Toll-free:800-565-7227 Fax:902-420-8612 www.maxxamanalytics.com

Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
1997301	Available Molybdenum (Mo)	2009/11/02	99	75 - 125	95	75 - 125	<2	mg/kg	NC	35		
1997301	Available Nickel (Ni)	2009/11/02	103	75 - 125	94	75 - 125	<2	mg/kg	NC	35	95	75 - 125
1997301	Available Rubidium (Rb)	2009/11/02	103	75 - 125	100	75 - 125	<2	mg/kg	NC	N/A		
1997301	Available Selenium (Se)	2009/11/02	107	75 - 125	82	75 - 125	<1	mg/kg	NC	35		
1997301	Available Silver (Ag)	2009/11/02	94	75 - 125	92	75 - 125	<0.5	mg/kg	NC	35		
1997301	Available Strontium (Sr)	2009/11/02	97	75 - 125	100	75 - 125	<5	mg/kg	NC	35	90	75 - 125
1997301	Available Thallium (Tl)	2009/11/02	90	75 - 125	97	75 - 125	<0.1	mg/kg	NC	35		
1997301	Available Tin (Sn)	2009/11/02	103	75 - 125	98	75 - 125	<2	mg/kg	NC	N/A		
1997301	Available Uranium (U)	2009/11/02	101	75 - 125	94	75 - 125	<0.1	mg/kg	NC	35		
1997301	Available Vanadium (V)	2009/11/02	NC	75 - 125	99	75 - 125	<2	mg/kg	5.9	35	107	75 - 125
1997301	Available Zinc (Zn)	2009/11/02	97	75 - 125	94	75 - 125	<5	mg/kg	8.0	35	104	75 - 125
1997462	pH	2009/11/02					6.08, RDL=0	pH	0.5	25	101	80 - 120
1997465	Conductivity	2009/11/02					<1	uS/cm	1.6	25	101	80 - 120
1997467	pH	2009/11/02					5.94, RDL=0	pH	0.3	25	101	80 - 120
1997476	Conductivity	2009/11/02					<1	uS/cm	1.1	25	102	80 - 120
1997489	Nitrogen (Ammonia Nitrogen)	2009/11/02	101	80 - 120	102	80 - 120	<0.05	mg/L	NC	25	104	80 - 120
1997502	Nitrogen (Ammonia Nitrogen)	2009/11/02	101	80 - 120	102	80 - 120	<0.05	mg/L	NC	25	110	80 - 120
1997510	Nitrogen (Ammonia Nitrogen)	2009/11/03	97	80 - 120	101	80 - 120	<0.05	mg/L	NC	25	105	80 - 120
1998048	Dissolved Calcium (Ca)	2009/11/02	96	80 - 120	99	80 - 120	<0.1	mg/L	0.2	25	98	80 - 120
1998048	Dissolved Magnesium (Mg)	2009/11/02	93	80 - 120	96	80 - 120	<0.1	mg/L	0.9	25	98	80 - 120
1998048	Dissolved Phosphorus (P)	2009/11/02	100	80 - 120	100	80 - 120	<0.1	mg/L	NC	25	81	80 - 120
1998048	Dissolved Potassium (K)	2009/11/02	97	80 - 120	98	80 - 120	<0.1	mg/L	0.8	25	100	80 - 120
1998048	Dissolved Sodium (Na)	2009/11/02	99	80 - 120	101	80 - 120	<0.1	mg/L	0.8	25	101	80 - 120
1998049	Dissolved Calcium (Ca)	2009/11/02	99	80 - 120	101	80 - 120	<0.1	mg/L	0.1	25	98	80 - 120
1998049	Dissolved Magnesium (Mg)	2009/11/02	97	80 - 120	97	80 - 120	<0.1	mg/L	1.0	25	98	80 - 120
1998049	Dissolved Phosphorus (P)	2009/11/02	102	80 - 120	100	80 - 120	<0.1	mg/L	NC	25	95	80 - 120
1998049	Dissolved Potassium (K)	2009/11/02	98	80 - 120	98	80 - 120	<0.1	mg/L	0.1	25	99	80 - 120
1998049	Dissolved Sodium (Na)	2009/11/02	102	80 - 120	102	80 - 120	<0.1	mg/L	0.2	25	102	80 - 120
1998050	Dissolved Calcium (Ca)	2009/11/02	101	80 - 120	99	80 - 120	<0.1	mg/L	0.4	25	99	80 - 120
1998050	Dissolved Magnesium (Mg)	2009/11/02	97	80 - 120	96	80 - 120	<0.1	mg/L	0.6	25	98	80 - 120
1998050	Dissolved Phosphorus (P)	2009/11/02	99	80 - 120	99	80 - 120	<0.1	mg/L	NC	25	88	80 - 120
1998050	Dissolved Potassium (K)	2009/11/02	98	80 - 120	98	80 - 120	<0.1	mg/L	1.8	25	101	80 - 120
1998050	Dissolved Sodium (Na)	2009/11/02	102	80 - 120	101	80 - 120	<0.1	mg/L	0.3	25	102	80 - 120
1998426	Total Organic Carbon (C)	2009/11/03	96	75 - 125	89	75 - 125	<0.5	mg/L	5.8	25	87	80 - 120
1998458	Total Organic Carbon (C)	2009/11/03	NC	75 - 125	107	75 - 125	<0.5	mg/L	NC(12)	25	107	80 - 120
1998639	Turbidity	2009/11/03					<0.1	NTU	NC	25	100	80 - 120

Maxxam Job #: A9E4696
Report Date: 2009/11/10

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
1998656	Turbidity	2009/11/03					<0.1	NTU	3.4	25	100	80 - 120
1998661	Turbidity	2009/11/03					<0.1	NTU	17.6	25	100	80 - 120

N/A = Not Applicable
RDL = Reportable Detection Limit
RPD = Relative Percent Difference
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
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.
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.
(1) - Matrix Spike: results are outside acceptance limit. Analysis was not repeated, sample was past recommended hold time for repeat analysis.
(10) - Duplicate: results are outside acceptance limit. Sample was past recommended hold time for repeat analysis.
(11) - Poor RPD due to sample inhomogeneity.
(12) - Elevated detection limit due to matrix interference.
(2) - Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.
(3) - Recovery within acceptance limits.
(4) - Recovery within 3 SD limits.
(5) - Elevated recovery due to possible low level lab contamination. Minimal impact on data quality.
(6) - High matrix spike recovery due to sample matrix interferences.
(7) - Detection limit increased due to sample matrix.
(8) - Poor recovery due to possible preparation error, other batch QC samples acceptable.
(9) - Matrix Spike: results are outside acceptance limit. Analysis was repeated with similar results.

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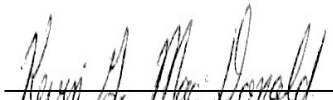
Validation Signature Page

Maxxam Job #: A9E4696

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

JERRY ARENOVICH, Inorganics Manager



KEVIN MACDONALD, Inorganics Supervisor

ROSS MACDONALD, [illegible]

ALAN STEWART, Scientific Specialist (Organics)

==========

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Your P.O. #: NSD016400
Your Project #: 1044857/Z9100
Site: NWP
Your C.O.C. #: B 64723

Attention: JIM SLADE
Stantec Consulting Ltd
607 Torbay Rd
St. John's, NL
A1A 4Y6

Report Date: 2009/11/16

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A9E4696
Received: 2009/10/27, 9:16

Sample Matrix: Water
Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
TEH in Water (AA PIRI)	4	2009/11/03	2009/11/07	ATL SOP 00116 R3	Based on Atl. PIRI
Acridine and Quinoline in Water	2	2009/10/27	2009/11/07	ATL SOP 00103 R3	
Acridine and Quinoline in Water	1	2009/10/27	2009/11/10	ATL SOP 00103 R3	
PAH in Water by GC/MS (SIM)	2	2009/10/27	2009/11/07	ATL SOP 00103 R3	Based on EPA 8270C
PAH in Water by GC/MS (SIM)	1	2009/10/27	2009/11/10	ATL SOP 00103 R3	Based on EPA 8270C
VPH in Water (PIRI2)	4	2009/10/30	2009/10/31	ATL SOP 00120 R4	Based on Atl. PIRI
ModTPH (T2) Calc. for Water	4	N/A	2009/11/13		Based on Atl. PIRI

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
* Results relate only to the items tested.

Encryption Key

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

MICHELLE HILL, Project Manager
Email: Michelle.Hill.Reports@maxxamanalytics.com
Phone# (902) 420-0203

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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. SCC and CALA have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 1

This document is in electronic format, hard copy is available on request.

Maxxam Job #: A9E4696
Report Date: 2009/11/16

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		EE0398		EE0410		EE0414	EE0414		
Sampling Date		2009/10/20		2009/10/20		2009/10/20	2009/10/20		
	Units	**09-MW7**	**RDL**	**09-MW20**	**RDL**	**09-MW23**	**09-MW23 Lab-Dup**	**RDL**	**QC Batch**
Polyaromatic Hydrocarbons									
1-Methylnaphthalene	ug/L	150(1)	0.5	2000	10	0.10	0.14	0.05	1997461
2-Methylnaphthalene	ug/L	200(1)	0.5	2600	10	0.15	0.24	0.05	1997461
Acenaphthene	ug/L	49(1)	0.1	97	2	0.76	1.1	0.01	1997461
Acenaphthylene	ug/L	2.1(1)	0.1	42	2	0.11	0.10	0.01	1997461
Acridine	ug/L	5.1	0.5	140	10	<0.05	0.05	0.05	1997448
Anthracene	ug/L	39	0.01	18	2	1.7	2.3	0.01	1997461
Benzo(a)anthracene	ug/L	51(1)	0.1	5.9	0.2	3.9	4.8	0.01	1997461
Benzo(a)pyrene	ug/L	42(1)	0.1	2.7	0.2	3.0	3.8	0.01	1997461
Benzo(b)fluoranthene	ug/L	35	0.01	2.5	0.2	2.4	3.2	0.01	1997461
Benzo(g,h,i)perylene	ug/L	25	0.01	1.3	0.2	1.7	2.3	0.01	1997461
Benzo(k)fluoranthene	ug/L	35	0.01	2.5	0.2	2.4	3.1	0.01	1997461
Chrysene	ug/L	53(1)	0.1	5.4	0.2	3.5	4.5	0.01	1997461
Dibenz(a,h)anthracene	ug/L	6.5	0.01	0.3	0.2	0.40	0.57	0.01	1997461
Fluoranthene	ug/L	160(1)	0.1	20	0.2	8.3	10	0.01	1997461
Fluorene	ug/L	49(1)	0.1	410	2	0.70	0.90	0.01	1997461
Indeno(1,2,3-cd)pyrene	ug/L	30	0.01	1.5	0.2	1.9	2.8	0.01	1997461
Naphthalene	ug/L	200(1)	2	570	40	0.3	0.7	0.2	1997461
Perylene	ug/L	11	0.01	1.1	0.2	0.96	1.2	0.01	1997461
Phenanthrene	ug/L	130(1)	0.1	250	2	5.6	7.1	0.01	1997461
Pyrene	ug/L	130(1)	0.1	16	0.2	6.6	7.9	0.01	1997461
Quinoline	ug/L	<0.5	0.5	34	10	<0.05	<0.05	0.05	1997448
Surrogate Recovery (%)									
D10-Anthracene	%	125		COMMENT(2)		69	68		1997461
D14-Terphenyl	%	82(3)		109(1)		54(4)	51(4)		1997461
D8-Acenaphthylene	%	188(5)		COMMENT(2)		82	76		1997461

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Elevated PAH RDL(s) due to sample dilution.
(2) - PAH surrogate(s) unavailable due to sample dilution / product interference.
(3) - PAH sample contained sediment.
(4) - PAH sample contained sediment. PAH surrogate(s) not within acceptance limits. Analysis was repeated with similar results.
(5) - PAH surrogate(s) not within acceptance limits due to sample dilution / product interference.

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Maxxam Job #: A9E4696
Report Date: 2009/11/16

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ATLANTIC RBCA HYDROCARBONS (WATER)

Maxxam ID		EE0395		EE0398		EE0406		EE0410		
Sampling Date		2009/10/20		2009/10/20		2009/10/20		2009/10/20		
	Units	**09-MW4**	**RDL**	**09-MW7**	**RDL**	**09-MW16**	**RDL**	**09-MW20**	**RDL**	**QC Batch**
Petroleum Hydrocarbons										
Benzene	mg/L	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	1995646
Toluene	mg/L	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	1995646
Ethylbenzene	mg/L	0.07	0.01	0.02	0.01	<0.01	0.01	0.02	0.01	1995646
Xylene (Total)	mg/L	0.58	0.02	0.05	0.02	<0.01	0.01	0.09	0.02	1995646
Aliphatic >C6-C8	mg/L	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	1995646
Aliphatic >C8-C10	mg/L	0.3	0.1	0.2	0.1	<0.1	0.1	0.2	0.1	1995646
>C8-C10 Aromatics (-EX)	mg/L	0.9	0.1	0.2	0.1	0.2	0.1	0.3	0.1	1995646
Aliphatic >C10-C12	mg/L	160	1	5.2	0.01	37	0.5	110	1	1998237
Aliphatic >C12-C16	mg/L	260	6	13	0.05	100	3	320	5	1998237
Aliphatic >C16-C21	mg/L	26	6	2.9	0.05	30	3	100	5	1998237
Aliphatic >C21-<C32	mg/L	1.3	0.1	0.2	0.1	1.4	0.1	6.0	0.1	1998237
Aromatic >C10-C12	mg/L	25	1	1.2	0.01	8.1	0.01	34	1	1998237
Aromatic >C12-C16	mg/L	54	6	3.9	0.05	38	3	130	5	1998237
Aromatic >C16-C21	mg/L	11	6	1.7	0.05	15	3	51	5	1998237
Aromatic >C21-<C32	mg/L	0.9	0.1	0.2	0.1	1.2	0.1	4.4	0.1	1998237
Modified TPH (Tier 2)	mg/L	540	6	29	0.1	230	3	760	5	1993262
Surrogate Recovery (%)										
Isobutylbenzene - Extractable	%	6050(1)		54		208(1)		508(1)		1998237
Isobutylbenzene - Volatile	%	114(2)		119(2)		118(2)		102(2)		1995646
n-Dotriacontane - Extractable	%	224(3)		82(4)		82(5)		196(6)		1998237

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - TEH surrogate(s) not within acceptance limits due to sample dilution / product interference.
(2) - Elevated VPH RDL(s) due to sample dilution.
(3) - Fuel oil fraction. Elevated TEH RDL(s) due to insufficient sample. Elevated TEH RDL(s) due to sample dilution. TEH sample contained sediment. TEH surrogate(s) not within acceptance limits due to sample dilution / product interference.
(4) - Fuel oil fraction. TEH sample decanted due to sediment.
(5) - Fuel oil fraction. TEH sample contained sediment. Elevated TEH RDL(s) due to sample dilution.
(6) - Fuel oil fraction. Elevated TEH RDL(s) due to sample dilution. TEH sample decanted due to sediment. TEH surrogate(s) not within acceptance limits due to sample dilution / product interference.

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Maxxam Job #: A9E4696
Report Date: 2009/11/16

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

GENERAL COMMENTS

Sample EE0395-01: Poor RCAp Ion Balance due to sample matrix. Possible presence of fine particulate and/or iron precipitate.

Sample EE0406-01: RCAp Ion Balance acceptable. Low ionic strength sample.

Sample EE0410-01: RCAp Ion Balance acceptable. Low ionic strength sample.

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Your P.O. #: NSD016400

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
1995646	Isobutylbenzene - Volatile	2009/10/31			104	70 - 130	120	%		
1995646	Benzene	2009/10/31			96	70 - 130	<0.001	mg/L		
1995646	Toluene	2009/10/31			104	70 - 130	<0.001	mg/L		
1995646	Ethylbenzene	2009/10/31			104	70 - 130	<0.001	mg/L		
1995646	Xylene (Total)	2009/10/31			109	70 - 130	<0.002	mg/L		
1995646	Aliphatic >C6-C8	2009/10/31					<0.01	mg/L		
1995646	Aliphatic >C8-C10	2009/10/31					<0.01	mg/L		
1995646	>C8-C10 Aromatics (-EX)	2009/10/31					<0.01	mg/L		
1997448	Acridine	2009/11/07	NC	30 - 130	82	30 - 130	<0.05	ug/L	NC	40
1997448	Quinoline	2009/11/07	113	30 - 130	76	30 - 130	<0.05	ug/L	NC	40
1997461	D10-Anthracene	2009/11/07	92	30 - 130	65	30 - 130	68	%		
1997461	D14-Terphenyl	2009/11/07	69(1)	30 - 130	65	30 - 130	71	%		
1997461	D8-Acenaphthylene	2009/11/07	118	30 - 130	64	30 - 130	68	%		
1997461	1-Methylnaphthalene	2009/11/07	NC	30 - 130	83	30 - 130	<0.05	ug/L	NC	40
1997461	2-Methylnaphthalene	2009/11/07	NC	30 - 130	88	30 - 130	<0.05	ug/L	NC	40
1997461	Acenaphthene	2009/11/07	NC	30 - 130	88	30 - 130	<0.01	ug/L	38.2	40
1997461	Acenaphthylene	2009/11/07	NC	30 - 130	83	30 - 130	<0.01	ug/L	3.9	40
1997461	Anthracene	2009/11/07	NC	30 - 130	99	30 - 130	<0.01	ug/L	25.7	40
1997461	Benzo(a)anthracene	2009/11/07	NC	30 - 130	99	30 - 130	<0.01	ug/L	22.3	40
1997461	Benzo(a)pyrene	2009/11/07	NC	30 - 130	87	30 - 130	<0.01	ug/L	22.8	40
1997461	Benzo(b)fluoranthene	2009/11/07	NC	30 - 130	89	30 - 130	<0.01	ug/L	28.2	40
1997461	Benzo(g,h,i)perylene	2009/11/07	NC	30 - 130	94	30 - 130	<0.01	ug/L	30.2	40
1997461	Benzo(k)fluoranthene	2009/11/07	NC	30 - 130	89	30 - 130	<0.01	ug/L	27.9	40
1997461	Chrysene	2009/11/07	NC	30 - 130	101	30 - 130	<0.01	ug/L	24.3	40
1997461	Dibenz(a,h)anthracene	2009/11/07	NC	30 - 130	95	30 - 130	<0.01	ug/L	34.3	40
1997461	Fluoranthene	2009/11/07	NC	30 - 130	93	30 - 130	<0.01	ug/L	18.3	40
1997461	Fluorene	2009/11/07	NC	30 - 130	86	30 - 130	<0.01	ug/L	25.3	40
1997461	Indeno(1,2,3-cd)pyrene	2009/11/07	NC	30 - 130	91	30 - 130	<0.01	ug/L	37.5	40
1997461	Naphthalene	2009/11/07	NC	30 - 130	85	30 - 130	<0.2	ug/L	NC	40
1997461	Perylene	2009/11/07	NC	30 - 130	86	30 - 130	<0.01	ug/L	22.8	40
1997461	Phenanthrene	2009/11/07	NC	30 - 130	104	30 - 130	<0.01	ug/L	23.1	40
1997461	Pyrene	2009/11/07	NC	30 - 130	92	30 - 130	<0.01	ug/L	18.9	40
1998237	Aliphatic >C10-C12	2009/11/07			81	30 - 130	0.03, RDL=0.01	mg/L		
1998237	Aliphatic >C12-C16	2009/11/07			84	30 - 130	<0.06	mg/L		
1998237	Aliphatic >C16-C21	2009/11/07			91	30 - 130	<0.06	mg/L		
1998237	Aliphatic >C21-<C32	2009/11/07			87	30 - 130	<0.1	mg/L		
1998237	Aromatic >C10-C12	2009/11/07			96	30 - 130	0.01, RDL=0.01	mg/L		
1998237	Aromatic >C12-C16	2009/11/07			86	30 - 130	<0.06	mg/L		
1998237	Aromatic >C16-C21	2009/11/07			81	30 - 130	<0.06	mg/L		

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Maxxam Job #: A9E4696
Report Date: 2009/11/16

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
1998237	Aromatic >C21-<C32	2009/11/07			76	30 - 130	<0.1	mg/L		
1998237	Isobutylbenzene - Extractable	2009/11/07					71	%		
1998237	n-Dotriacontane - Extractable	2009/11/07					96	%		

N/A = Not Applicable
RDL = Reportable Detection Limit
RPD = Relative Percent Difference
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
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.
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.
(1) - PAH sample contained sediment.

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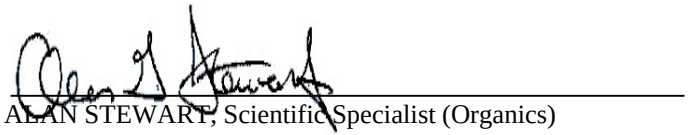
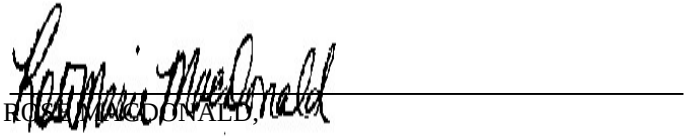
Validation Signature Page

Maxxam Job #: A9E4696

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



ALAN STEWART, Scientific Specialist (Organics)



ROSE MACDONALD, B.Sc.

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Your P.O. #: NSD016400
Your Project #: 1044857/Z9100
Site: NWP
Your C.O.C. #: B 64723

Attention: JIM SLADE
Stantec Consulting Ltd
607 Torbay Rd
St. John's, NL
A1A 4Y6

Report Date: 2009/11/24

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A9E4696
Received: 2009/10/27, 9:16

Sample Matrix: Soil
Samples Received: 66

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
TEH in Soil (AA PIRI)	1	2009/11/16	2009/11/14	ATL SOP 00116 R3	Based on Atl. PIRI
TEH in Soil (PIRI)	12	2009/10/29	2009/10/30	ATL SOP 00111 R3	Based on Atl. PIRI
Metals Solid Avail. Unified MS Low N-per	41	N/A	2009/10/30	ATL SOP 00024 R5	Based on EPA6020A
Metals Solid Avail. Unified MS Low N-per	19	N/A	2009/11/02	ATL SOP 00024 R5	Based on EPA6020A
Moisture	41	N/A	2009/10/29	ATL SOP 00001 R3	MOE Handbook 1983
Moisture	1	N/A	2009/11/18	ATL SOP 00001 R3	MOE Handbook 1983
PAH in sediment by GC/MS (Low Level)	8	2009/10/29	2009/11/06	ATL SOP 00102 R4	based on EPA8270C
PAH in sediment by GC/MS (Low Level)	8	2009/10/29	2009/11/07	ATL SOP 00102 R4	based on EPA8270C
PAH in sediment by GC/MS (Low Level)	4	2009/10/29	2009/11/09	ATL SOP 00102 R4	based on EPA8270C
PAH in sediment by GC/MS (Low Level)	5	2009/11/02	2009/11/06	ATL SOP 00102 R4	based on EPA8270C
PCBs in soil by GC/ECD	16	2009/10/29	2009/11/02	ATL SOP 00106 R3	Based on EPA8082
VPH in Soil (PIRI2)	1	2009/11/17	2009/11/23	ATL SOP 00120 R4	Based on Atl. PIRI
VPH in Soil (PIRI)	12	2009/10/29	2009/10/29	ATL SOP 00117 R4/00119 R6	Based on Atl. PIRI
ModTPH (T1) Calc. for Soil	12	2009/10/28	2009/11/02		Based on Atl. PIRI
ModTPH (T2) Calc. for Soil	1	N/A	2009/11/24	n/a	Based on Atl. PIRI

Sample Matrix: TISSUE
Samples Received: 33

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Lipids (Crude Fat)	19	N/A	2009/11/16		AOAC 948.16
Mercury in biota	12	N/A	2009/11/18	ATL SOP-00026 R6	Based on EPA245.6
PCBs in tissue by GC/ECD	20	2009/11/09	2009/11/16	ATL SOP 00110 R3	Based on EPA8082
PCBs in tissue by GC/ECD	13	2009/11/10	2009/11/18	ATL SOP 00110 R3	Based on EPA8082

Sample Matrix: Water
Samples Received: 50

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Carbonate, Bicarbonate and Hydroxide	50	N/A	2009/11/02		
Alkalinity	40	N/A	2009/11/02	ATL SOP 00013 R4	Based on EPA310.2
Alkalinity	10	N/A	2009/11/03	ATL SOP 00013 R4	Based on EPA310.2
Chloride	50	N/A	2009/11/03	ATL SOP 00014 R6	Based on SM4500-Cl-
Colour	50	N/A	2009/11/02	ATL SOP 00020 R3.	Based on SM2120C
Conductance - water	26	N/A	2009/10/30	ATL SOP 00004 R5/00006 R4	Based on SM2510B
Conductance - water	24	N/A	2009/11/02	ATL SOP 00004 R5/00006 R4	Based on SM2510B

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Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

Sample Matrix: Water
Samples Received: 50

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
TEH in Water (AA PIRI)	4	2009/11/03	2009/11/07	ATL SOP 00116 R3	Based on Atl. PIRI
Glycol in Water (1)	1	2009/10/30	2009/11/05		
Hardness (calculated as CaCO3)	50	N/A	2009/11/03	ATL SOP 00048	Based on SM2340B
Mercury - Total (CVAA,LL)	50	N/A	2009/10/29	ATL SOP 00026 R6	Based on EPA245.1
Metals Water Diss. OES	50	N/A	2009/11/02	ATL SOP 00025 R5	Based on EPA200.7
Metals Water Diss. MS - Low Level	50	N/A	2009/10/30	ATL SOP 00024 R5	Based on EPA6020A
Ion Balance (% Difference)	50	N/A	2009/11/03		
Anion and Cation Sum	50	N/A	2009/11/03		
Nitrogen Ammonia - water	50	N/A	2009/11/02	ATL SOP 00015 R5	Based on USEPA 350.1
Nitrogen - Nitrate + Nitrite	50	N/A	2009/11/03	ATL SOP 00016 R4	Based on USGS - Enz.
Nitrogen - Nitrite	50	N/A	2009/11/03	ATL SOP 00017 R4	Based on USEPA 354.1
Nitrogen - Nitrate (as N)	50	N/A	2009/11/03	ATL SOP 00018 R3	Based on ASTMD3867
Acridine and Quinoline in Water	2	2009/10/27	2009/11/07	ATL SOP 00103 R3	
Acridine and Quinoline in Water	1	2009/10/27	2009/11/10	ATL SOP 00103 R3	
PAH in Water by GC/MS (SIM)	2	2009/10/27	2009/11/07	ATL SOP 00103 R3	Based on EPA 8270C
PAH in Water by GC/MS (SIM)	1	2009/10/27	2009/11/10	ATL SOP 00103 R3	Based on EPA 8270C
pH	26	N/A	2009/10/30	ATL SOP 00003 R5/00005 R7	Based on EPA150.1
pH	24	N/A	2009/11/02	ATL SOP 00003 R5/00005 R7	Based on EPA150.1
Phosphorus - ortho	50	N/A	2009/11/03	ATL SOP 00021 R3	Based on USEPA 365.1
VPH in Water (PIRI2)	4	2009/10/30	2009/10/31	ATL SOP 00120 R4	Based on Atl. PIRI
Sat. pH and Langelier Index (@ 20C)	50	N/A	2009/11/03		
Sat. pH and Langelier Index (@ 4C)	50	N/A	2009/11/03		
Reactive Silica	10	N/A	2009/11/02	ATL SOP 00022 R3	Based on EPA 366.0
Reactive Silica	40	N/A	2009/11/03	ATL SOP 00022 R3	Based on EPA 366.0
Sulphate	50	N/A	2009/11/03	ATL SOP 00023 R3	Based on EPA 375.4
Total Dissolved Solids (TDS calc)	50	N/A	2009/11/03		
Organic carbon - Total (TOC)	32	N/A	2009/10/30	ATL SOP 00037 R3	Based on SM5310C
Organic carbon - Total (TOC)	18	N/A	2009/11/03	ATL SOP 00037 R3	Based on SM5310C
ModTPH (T2) Calc. for Water	4	N/A	2009/11/13		Based on Atl. PIRI
Turbidity	50	N/A	2009/11/03	ATL SOP 00011 R4	based on EPA 180.1

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
* Results relate only to the items tested.

(1) This test was performed by Bedford to Calgary Subcontract

Encryption Key

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

MICHELLE HILL, Project Manager
Email: Michelle.Hill.Reports@maxxamanalytics.com
Phone# (902) 420-0203

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Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CALA have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 3

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Project name: NWP
Your P.O. #: NSD016400

RESULTS OF ANALYSES OF SOIL

Maxxam ID		EE0411		EE0436	EE0437	EE0438	EE0440	EE0442	EE0444	EE0446	EE0451		
Sampling Date		2009/10/20		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-MW14**	**QC Batch**	**09-SED-2**	**09-SED-3**	**09-SED-4**	**09-SED5**	**09-SED6**	**09-SED7**	**09-SED8**	**09-SED10**	**RDL**	**QC Batch**
Inorganics													
Moisture	%	<1	2010783	29	54	11	88	56	61	36	92	1	1994028

Maxxam ID		EE0478	EE0480	EE0482	EE0484	EE0485	EE0486	EE0487	EE0492	EE0493	EE0494		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SS2**	**09-SS4**	**09-SS6**	**09-SS8**	**09-SS9**	**09-SS10**	**09-SS11**	**09-SS16**	**09-SS17**	**09-SS18**	**RDL**	**QC Batch**
Inorganics													
Moisture	%	12	10	8	5	8	9	4	5	9	16	1	1994028

Maxxam ID		EE0495	EE0496	EE0497	EE0498		EE0499	EE0500	EE0503	EE0505	EE0506		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SS19**	**09-SS20**	**09-SS21**	**09-SS22**	**QC Batch**	**09-SS23**	**09-SS24**	**09-SS27**	**09-SS29**	**09-SS30**	**RDL**	**QC Batch**
Inorganics													
Moisture	%	21	10	12	21	1994028	8	15	53	14	36	1	1994020

Maxxam ID		EE0507	EE0508	EE0509	EE0510	EE0511	EE0515	EE0516	EE0518		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SS31**	**09-SS32**	**09-SS33**	**09-SS34**	**09-SS35**	**09-SS39**	**09-SS40**	**09-SS42**	**RDL**	**QC Batch**
Inorganics											
Moisture	%	40	18	16	8	25	9	24	15	1	1994020

Maxxam ID		EE0522	EE0523	EE0526	EE0527	EE0528	EE0529		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SS46**	**09-SS47**	**09-SS50**	**09-SS51**	**09-SS52**	**09-SS53**	**RDL**	**QC Batch**
Inorganics									
Moisture	%	7	12	8	13	13	22	1	1994020

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		EE0436	EE0437	EE0438	EE0440	EE0442	EE0444	EE0446	EE0451	EE0477	EE0477		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SED-2**	**09-SED-3**	**09-SED-4**	**09-SED5**	**09-SED6**	**09-SED7**	**09-SED8**	**09-SED10**	**09-SS1**	**09-SS1 Lab-Dup**	**RDL**	**QC Batch**
Metals													
Available Aluminum (Al)	mg/kg	1400	3000	1900	4000	4900	4800	4600	2400	7000	7500	10	1995672
Available Antimony (Sb)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1995672
Available Arsenic (As)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1995672
Available Barium (Ba)	mg/kg	8	28	17	200	38	51	40	130	53	59	5	1995672
Available Beryllium (Be)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1995672
Available Bismuth (Bi)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1995672
Available Boron (B)	mg/kg	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5	1995672
Available Cadmium (Cd)	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.9	<0.3	<0.3	0.3	1995672
Available Chromium (Cr)	mg/kg	3	7	5	4	12	9	12	5	16	15	2	1995672
Available Cobalt (Co)	mg/kg	<1	2	1	11	4	3	4	5	4	4	1	1995672
Available Copper (Cu)	mg/kg	<2	6	3	20	14	8	5	27	8	9	2	1995672
Available Iron (Fe)	mg/kg	1600	4300	3600	3500	14000	13000	8500	7000	10000	11000	50	1995672
Available Lead (Pb)	mg/kg	1.2	3.9	3.4	300	430	5.7	5.8	8.3	3.1	3.3	0.5	1995672
Available Lithium (Li)	mg/kg	<2	2	<2	<2	5	2	3	<2	5	5	2	1995672
Available Manganese (Mn)	mg/kg	18	54	33	260	99	94	140	140	140	160	2	1995672
Available Mercury (Hg)	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	0.1	1995672
Available Molybdenum (Mo)	mg/kg	<2	<2	<2	<2	2	<2	<2	<2	<2	<2	2	1995672
Available Nickel (Ni)	mg/kg	<2	3	3	9	9	6	6	10	8	8	2	1995672
Available Rubidium (Rb)	mg/kg	<2	5	3	5	8	5	7	4	11	13	2	1995672
Available Selenium (Se)	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	1995672
Available Silver (Ag)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	1995672
Available Strontium (Sr)	mg/kg	<5	10	6	65	11	22	15	120	13	14	5	1995672
Available Thallium (Tl)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1995672
Available Tin (Sn)	mg/kg	<2	<2	<2	<2	33	<2	<2	<2	<2	<2	2	1995672
Available Uranium (U)	mg/kg	<0.1	0.2	0.1	0.2	0.3	0.2	0.3	0.2	0.4	0.5	0.1	1995672
Available Vanadium (V)	mg/kg	5	11	9	9	13	24	17	14	27	27	2	1995672
Available Zinc (Zn)	mg/kg	7	12	9	15	55	16	18	910	21	23	5	1995672

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		EE0479	EE0480	EE0481	EE0482	EE0483	EE0484	EE0485	EE0486	EE0487	EE0488		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SS3**	**09-SS4**	**09-SS5**	**09-SS6**	**09-SS7**	**09-SS8**	**09-SS9**	**09-SS10**	**09-SS11**	**09-SS12**	**RDL**	**QC Batch**
Metals													
Available Aluminum (Al)	mg/kg	14000	1700	3800	3100	2600	2700	3200	2800	2400	1800	10	1995672
Available Antimony (Sb)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1995672
Available Arsenic (As)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1995672
Available Barium (Ba)	mg/kg	110	5	12	9	17	9	29	38	20	17	5	1995672
Available Beryllium (Be)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1995672
Available Bismuth (Bi)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1995672
Available Boron (B)	mg/kg	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5	1995672
Available Cadmium (Cd)	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.3	<0.3	<0.3	0.3	1995672
Available Chromium (Cr)	mg/kg	21	5	5	6	6	6	7	7	5	4	2	1995672
Available Cobalt (Co)	mg/kg	5	<1	2	1	3	1	2	2	2	2	1	1995672
Available Copper (Cu)	mg/kg	32	<2	<2	<2	<2	<2	6	22	5	5	2	1995672
Available Iron (Fe)	mg/kg	13000	3900	3700	4000	3800	4400	5700	8000	4000	3700	50	1995672
Available Lead (Pb)	mg/kg	17	1.2	1.1	1.7	1.1	2.6	1.7	150	1.5	0.9	0.5	1995672
Available Lithium (Li)	mg/kg	6	<2	<2	<2	2	<2	3	<2	<2	<2	2	1995672
Available Manganese (Mn)	mg/kg	140	22	79	60	95	46	67	99	54	45	2	1995672
Available Mercury (Hg)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	0.1	1995672
Available Molybdenum (Mo)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1995672
Available Nickel (Ni)	mg/kg	14	<2	2	2	3	2	5	6	3	3	2	1995672
Available Rubidium (Rb)	mg/kg	15	<2	3	<2	2	<2	6	5	3	3	2	1995672
Available Selenium (Se)	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	1995672
Available Silver (Ag)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	1995672
Available Strontium (Sr)	mg/kg	24	<5	<5	<5	<5	<5	6	7	<5	<5	5	1995672
Available Thallium (Tl)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1995672
Available Tin (Sn)	mg/kg	<2	<2	<2	<2	<2	<2	<2	20	<2	<2	2	1995672
Available Uranium (U)	mg/kg	1.0	0.1	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.1	1995672
Available Vanadium (V)	mg/kg	34	9	7	10	9	11	14	11	8	7	2	1995672
Available Zinc (Zn)	mg/kg	38	<5	8	7	8	10	14	72	11	10	5	1995672

RDL = Reportable Detection Limit
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Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		EE0489			EE0490		EE0491	EE0492	EE0493	EE0494	EE0495	EE0496		
Sampling Date		2009/10/22			2009/10/22		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SS13**	**RDL**	**QC Batch**	**09-SS14**	**RDL**	**09-SS15**	**09-SS16**	**09-SS17**	**09-SS18**	**09-SS19**	**09-SS20**	**RDL**	**QC Batch**
Metals														
Available Aluminum (Al)	mg/kg	2200	10	1995672	3400	100	2100	2000	2600	1800	2100	1700	10	1995798
Available Antimony (Sb)	mg/kg	<2	2	1995672	<20	20	<2	<2	<2	<2	<2	<2	2	1995798
Available Arsenic (As)	mg/kg	<2	2	1995672	<20	20	<2	<2	<2	<2	<2	<2	2	1995798
Available Barium (Ba)	mg/kg	17	5	1995672	60	50	15	15	17	8	15	7	5	1995798
Available Beryllium (Be)	mg/kg	<2	2	1995672	<20	20	<2	<2	<2	<2	<2	<2	2	1995798
Available Bismuth (Bi)	mg/kg	<2	2	1995672	<20	20	<2	<2	<2	<2	<2	<2	2	1995798
Available Boron (B)	mg/kg	<5	5	1995672	<50	50	<5	<5	<5	<5	<5	<5	5	1995798
Available Cadmium (Cd)	mg/kg	<0.3	0.3	1995672	<3	3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.3	1995798
Available Chromium (Cr)	mg/kg	3	2	1995672	5600	20	5	6	8	4	8	9	2	1995798
Available Cobalt (Co)	mg/kg	2	1	1995672	<10	10	1	1	1	<1	<1	<1	1	1995798
Available Copper (Cu)	mg/kg	5	2	1995672	690	20	3	3	3	<2	2	<2	2	1995798
Available Iron (Fe)	mg/kg	3500	50	1995672	20000	500	3300	3000	5200	2000	3800	6700	50	1995798
Available Lead (Pb)	mg/kg	1.3	0.5	1995672	33000	50	15	2.3	16	1.3	10	15	0.5	1995798
Available Lithium (Li)	mg/kg	<2	2	1995672	<20	20	2	3	2	<2	2	<2	2	1995798
Available Manganese (Mn)	mg/kg	45	2	1995672	180	20	34	29	41	20	37	31	2	1995798
Available Mercury (Hg)	mg/kg	<0.1	0.1	1995672	1	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1995798
Available Molybdenum (Mo)	mg/kg	<2	2	1995672	58	20	<2	<2	<2	<2	<2	<2	2	1995798
Available Nickel (Ni)	mg/kg	3	2	1995672	<20	20	2	2	3	<2	<2	<2	2	1995798
Available Rubidium (Rb)	mg/kg	3	2	1995672	<20	20	3	2	3	<2	3	<2	2	1995798
Available Selenium (Se)	mg/kg	<1	1	1995672	<10	10	<1	<1	<1	<1	<1	<1	1	1995798
Available Silver (Ag)	mg/kg	<0.5	0.5	1995672	<5	5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	1995798
Available Strontium (Sr)	mg/kg	6	5	1995672	<50	50	<5	<5	<5	<5	<5	<5	5	1995798
Available Thallium (Tl)	mg/kg	<0.1	0.1	1995672	<1	1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1995798
Available Tin (Sn)	mg/kg	<2	2	1995672	49	20	<2	<2	<2	<2	<2	<2	2	1995798
Available Uranium (U)	mg/kg	0.1	0.1	1995672	<1	1	0.1	0.1	0.2	0.1	0.2	0.2	0.1	1995798
Available Vanadium (V)	mg/kg	7	2	1995672	<20	20	11	9	13	6	17	17	2	1995798
Available Zinc (Zn)	mg/kg	10	5	1995672	390	50	9	7	8	6	8	7	5	1995798

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		EE0497	EE0498	EE0501	EE0501	EE0502	EE0503	EE0504	EE0505	EE0506	EE0507		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SS21**	**09-SS22**	**09-SS25**	**09-SS25 Lab-Dup**	**09-SS26**	**09-SS27**	**09-SS28**	**09-SS29**	**09-SS30**	**09-SS31**	**RDL**	**QC Batch**
Metals													
Available Aluminum (Al)	mg/kg	1800	4200	5000	5100	5600	3100	3100	4800	1400	1800	10	1995798
Available Antimony (Sb)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1995798
Available Arsenic (As)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1995798
Available Barium (Ba)	mg/kg	7	37	44	45	45	41	38	70	22	17	5	1995798
Available Beryllium (Be)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1995798
Available Bismuth (Bi)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1995798
Available Boron (B)	mg/kg	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5	1995798
Available Cadmium (Cd)	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3	0.4	<0.3	<0.3	<0.3	<0.3	0.3	1995798
Available Chromium (Cr)	mg/kg	9	12	13	13	9	8	7	23	3	5	2	1995798
Available Cobalt (Co)	mg/kg	<1	3	4	4	2	1	2	3	<1	<1	1	1995798
Available Copper (Cu)	mg/kg	<2	8	14	14	8	28	4	14	4	6	2	1995798
Available Iron (Fe)	mg/kg	5800	9400	8300	8600	6500	5300	5800	7600	2500	3800	50	1995798
Available Lead (Pb)	mg/kg	2.3	5.5	1.5	1.5	7.2	93	22	30	8.5	3.0	0.5	1995798
Available Lithium (Li)	mg/kg	<2	4	5	5	<2	<2	<2	4	<2	<2	2	1995798
Available Manganese (Mn)	mg/kg	30	110	120	120	69	23	76	79	260	19	2	1995798
Available Mercury (Hg)	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1	0.2	0.1	<0.1	<0.1	<0.1	0.1	1995798
Available Molybdenum (Mo)	mg/kg	<2	<2	<2	<2	<2	<2	6	<2	<2	<2	2	1995798
Available Nickel (Ni)	mg/kg	2	6	7	8	5	3	4	6	<2	<2	2	1995798
Available Rubidium (Rb)	mg/kg	<2	7	9	10	3	<2	4	6	2	<2	2	1995798
Available Selenium (Se)	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	1995798
Available Silver (Ag)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	1995798
Available Strontium (Sr)	mg/kg	6	12	9	10	17	14	18	7	9	10	5	1995798
Available Thallium (Tl)	mg/kg	<0.1	<0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1995798
Available Tin (Sn)	mg/kg	<2	3	<2	<2	<2	<2	<2	<2	<2	<2	2	1995798
Available Uranium (U)	mg/kg	0.2	0.3	0.3	0.3	0.2	0.1	0.1	0.2	<0.1	0.1	0.1	1995798
Available Vanadium (V)	mg/kg	18	20	19	19	12	12	13	17	5	9	2	1995798
Available Zinc (Zn)	mg/kg	10	18	18	19	53	52	25	25	17	17	5	1995798

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		EE0508		EE0509		EE0510	EE0511	EE0512		EE0513	EE0514	EE0515		
Sampling Date		2009/10/22		2009/10/22		2009/10/22	2009/10/22	2009/10/22		2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SS32**	**RDL**	**09-SS33**	**RDL**	**09-SS34**	**09-SS35**	**09-SS36**	**QC Batch**	**09-SS37**	**09-SS38**	**09-SS39**	**RDL**	**QC Batch**
Metals														
Available Aluminum (Al)	mg/kg	1600	10	1700	10	1700	1800	1800	1995798	2000	4500	2400	10	1997301
Available Antimony (Sb)	mg/kg	<2	2	<2	2	<2	<2	<2	1995798	<2	<2	<2	2	1997301
Available Arsenic (As)	mg/kg	<2	2	<2	2	<2	<2	<2	1995798	<2	<2	<2	2	1997301
Available Barium (Ba)	mg/kg	12	5	21	5	27	13	15	1995798	14	90	15	5	1997301
Available Beryllium (Be)	mg/kg	<2	2	<2	2	<2	<2	<2	1995798	<2	<2	<2	2	1997301
Available Bismuth (Bi)	mg/kg	<2	2	<2	2	<2	<2	<2	1995798	<2	<2	<2	2	1997301
Available Boron (B)	mg/kg	<5	5	<5	5	<5	<5	<5	1995798	<5	<5	<5	5	1997301
Available Cadmium (Cd)	mg/kg	<0.3	0.3	0.4	0.3	<0.3	<0.3	<0.3	1995798	<0.3	<0.3	<0.3	0.3	1997301
Available Chromium (Cr)	mg/kg	6	2	7	2	5	6	3	1995798	4	9	3	2	1997301
Available Cobalt (Co)	mg/kg	1	1	2	1	2	2	1	1995798	1	6	1	1	1997301
Available Copper (Cu)	mg/kg	2	2	20	2	3	4	<2	1995798	2	29	3	2	1997301
Available Iron (Fe)	mg/kg	4900	50	10000	50	4500	4900	2600	1995798	3000	15000	2800	50	1997301
Available Lead (Pb)	mg/kg	3.8	0.5	19	0.5	1.7	2.4	0.8	1995798	1.3	15	1.0	0.5	1997301
Available Lithium (Li)	mg/kg	<2	2	2	2	3	3	3	1995798	<2	2	2	2	1997301
Available Manganese (Mn)	mg/kg	48	2	90	2	53	55	35	1995798	38	410	37	2	1997301
Available Mercury (Hg)	mg/kg	0.1	0.1	<0.2 (1)	0.2	<0.1	<0.1	<0.1	1995798	<0.1	0.1	<0.1	0.1	1997301
Available Molybdenum (Mo)	mg/kg	<2	2	<2	2	<2	<2	<2	1995798	<2	<2	<2	2	1997301
Available Nickel (Ni)	mg/kg	3	2	5	2	4	4	3	1995798	2	8	2	2	1997301
Available Rubidium (Rb)	mg/kg	3	2	2	2	3	3	3	1995798	3	4	2	2	1997301
Available Selenium (Se)	mg/kg	<1	1	<1	1	<1	<1	<1	1995798	<1	<1	<1	1	1997301
Available Silver (Ag)	mg/kg	<0.5	0.5	<0.5	0.5	<0.5	<0.5	<0.5	1995798	<0.5	<0.5	<0.5	0.5	1997301
Available Strontium (Sr)	mg/kg	<5	5	7	5	5	9	<5	1995798	<5	74	10	5	1997301
Available Thallium (Tl)	mg/kg	<0.1	0.1	<0.1	0.1	<0.1	<0.1	<0.1	1995798	<0.1	<0.1	<0.1	0.1	1997301
Available Tin (Sn)	mg/kg	<2	2	20	2	<2	<2	<2	1995798	<2	3	<2	2	1997301
Available Uranium (U)	mg/kg	0.2	0.1	0.1	0.1	0.2	0.2	0.1	1995798	0.1	0.7	0.1	0.1	1997301
Available Vanadium (V)	mg/kg	12	2	10	2	8	10	6	1995798	8	16	7	2	1997301
Available Zinc (Zn)	mg/kg	26	5	50	5	12	13	8	1995798	10	99	9	5	1997301

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Elevated reporting limit due to sample matrix.

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Maxxam Job #: A9E4696
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Stantec Consulting Ltd
Client Project #: 1044857/Z9100
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ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		EE0517	EE0518	EE0518	EE0519	EE0520	EE0521	EE0522	EE0523	EE0524	EE0525		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SS41**	**09-SS42**	**09-SS42 Lab-Dup**	**09-SS43**	**09-SS44**	**09-SS45**	**09-SS46**	**09-SS47**	**09-SS48**	**09-SS49**	**RDL**	**QC Batch**
Metals													
Available Aluminum (Al)	mg/kg	2200	3700	3700	4700	3500	3700	4000	4800	3100	2700	10	1997301
Available Antimony (Sb)	mg/kg	<2	<2	<2	<2	2	<2	<2	<2	<2	<2	2	1997301
Available Arsenic (As)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1997301
Available Barium (Ba)	mg/kg	14	37	35	49	45	37	44	50	32	25	5	1997301
Available Beryllium (Be)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1997301
Available Bismuth (Bi)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1997301
Available Boron (B)	mg/kg	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5	1997301
Available Cadmium (Cd)	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.3	1997301
Available Chromium (Cr)	mg/kg	5	13	9(1)	13	12	9	11	11	8	6	2	1997301
Available Cobalt (Co)	mg/kg	1	2	2	3	3	2	3	4	3	2	1	1997301
Available Copper (Cu)	mg/kg	3	5	5	8	17	16	17	14	7	5	2	1997301
Available Iron (Fe)	mg/kg	3300	5700	5900	7600	6200	6100	6500	7600	6000	5100	50	1997301
Available Lead (Pb)	mg/kg	5.9	170	31(1)	17	69	66	48	8.6	6.4	3.2	0.5	1997301
Available Lithium (Li)	mg/kg	<2	3	3	4	3	3	3	4	3	3	2	1997301
Available Manganese (Mn)	mg/kg	34	71	67	110	75	64	76	120	74	61	2	1997301
Available Mercury (Hg)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1997301
Available Molybdenum (Mo)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1997301
Available Nickel (Ni)	mg/kg	3	5	5	7	6	5	6	7	5	5	2	1997301
Available Rubidium (Rb)	mg/kg	3	7	7	10	6	5	7	10	6	6	2	1997301
Available Selenium (Se)	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	1997301
Available Silver (Ag)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	1997301
Available Strontium (Sr)	mg/kg	<5	7	7	10	7	6	7	21	7	6	5	1997301
Available Thallium (Tl)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1997301
Available Tin (Sn)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	1997301
Available Uranium (U)	mg/kg	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.4	0.2	0.2	0.1	1997301
Available Vanadium (V)	mg/kg	8	13	14	19	15	15	16	17	15	11	2	1997301
Available Zinc (Zn)	mg/kg	8	98	90	38	36	27	29	31	20	23	5	1997301

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Poor RPD due to sample inhomogeneity.

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Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		EE0526	EE0527	EE0529	EE0530	EE0531	EE0532	EE0533		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SS50**	**09-SS51**	**09-SS53**	**09-SS54**	**09-SS55**	**09-SS56**	**09-SS57**	**RDL**	**QC Batch**
Metals										
Available Aluminum (Al)	mg/kg	5900	5400	2500	3700	4000	4200	3300	10	1997301
Available Antimony (Sb)	mg/kg	<2	<2	<2	<2	<2	<2	<2	2	1997301
Available Arsenic (As)	mg/kg	<2	<2	<2	<2	<2	<2	<2	2	1997301
Available Barium (Ba)	mg/kg	57	64	25	45	51	35	37	5	1997301
Available Beryllium (Be)	mg/kg	<2	<2	<2	<2	<2	<2	<2	2	1997301
Available Bismuth (Bi)	mg/kg	<2	<2	<2	<2	<2	<2	<2	2	1997301
Available Boron (B)	mg/kg	<5	<5	<5	<5	<5	<5	<5	5	1997301
Available Cadmium (Cd)	mg/kg	<0.3	<0.3	<0.3	0.3	1.8	<0.3	<0.3	0.3	1997301
Available Chromium (Cr)	mg/kg	13	13	5	11	14	11	9	2	1997301
Available Cobalt (Co)	mg/kg	4	5	2	3	3	3	3	1	1997301
Available Copper (Cu)	mg/kg	13	10	4	7	49	10	9	2	1997301
Available Iron (Fe)	mg/kg	8400	8400	4400	6500	6800	7600	6500	50	1997301
Available Lead (Pb)	mg/kg	14	5.7	32	23	210	6.4	9.5	0.5	1997301
Available Lithium (Li)	mg/kg	5	5	3	4	4	4	4	2	1997301
Available Manganese (Mn)	mg/kg	120	130	46	150	94	78	75	2	1997301
Available Mercury (Hg)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1997301
Available Molybdenum (Mo)	mg/kg	<2	<2	<2	<2	<2	<2	<2	2	1997301
Available Nickel (Ni)	mg/kg	8	8	4	6	7	6	6	2	1997301
Available Rubidium (Rb)	mg/kg	11	11	5	8	6	8	8	2	1997301
Available Selenium (Se)	mg/kg	<1	<1	<1	<1	<1	<1	<1	1	1997301
Available Silver (Ag)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	1997301
Available Strontium (Sr)	mg/kg	13	14	7	24	8	7	8	5	1997301
Available Thallium (Tl)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1997301
Available Tin (Sn)	mg/kg	<2	<2	<2	<2	5	<2	<2	2	1997301
Available Uranium (U)	mg/kg	0.3	0.3	0.2	0.2	1.9	0.3	0.3	0.1	1997301
Available Vanadium (V)	mg/kg	19	20	9	14	15	18	16	2	1997301
Available Zinc (Zn)	mg/kg	31	40	100	90	88	31	33	5	1997301

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Maxxam ID		EE0478	EE0480	EE0482	EE0486		EE0492			EE0493		EE0494		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22		2009/10/22			2009/10/22		2009/10/22		
	Units	**09-SS2**	**09-SS4**	**09-SS6**	**09-SS10**	**RDL**	**09-SS16**	**RDL**	**QC Batch**	**09-SS17**	**RDL**	**09-SS18**	**RDL**	**QC Batch**
Polyaromatic Hydrocarbons														
1-Methylnaphthalene	mg/kg	<0.005	<0.005	<0.005	0.006	0.005	<0.005	0.005	1996914	<0.2(1)	0.2	<0.005	0.005	1994358
2-Methylnaphthalene	mg/kg	<0.005	<0.005	<0.005	0.011	0.005	<0.02(1)	0.02	1996914	<0.06(1)	0.06	<0.005	0.005	1994358
Acenaphthene	mg/kg	<0.005	<0.005	<0.005	0.052	0.005	0.10	0.005	1996914	<0.2(1)	0.2	<0.03(1)	0.03	1994358
Acenaphthylene	mg/kg	<0.005	<0.005	<0.005	<0.005	0.005	0.18	0.005	1996914	0.070	0.005	0.046	0.005	1994358
Anthracene	mg/kg	<0.005	<0.005	<0.005	0.091	0.005	<0.03(1)	0.03	1996914	<0.07(1)	0.07	<0.005	0.005	1994358
Benzo(a)anthracene	mg/kg	<0.005	<0.005	<0.005	0.20	0.005	<0.005	0.005	1996914	<0.005	0.005	<0.005	0.005	1994358
Benzo(a)pyrene	mg/kg	<0.005	<0.005	<0.005	0.17	0.005	<0.005	0.005	1996914	<0.005	0.005	<0.005	0.005	1994358
Benzo(b)fluoranthene	mg/kg	<0.005	<0.005	<0.005	0.16	0.005	<0.005	0.005	1996914	0.019	0.005	<0.005	0.005	1994358
Benzo(g,h,i)perylene	mg/kg	<0.005	<0.005	<0.005	0.12	0.005	<0.005	0.005	1996914	0.019	0.005	<0.005	0.005	1994358
Benzo(k)fluoranthene	mg/kg	<0.005	<0.005	<0.005	0.16	0.005	<0.005	0.005	1996914	0.019	0.005	<0.005	0.005	1994358
Chrysene	mg/kg	<0.005	<0.005	<0.005	0.25	0.005	<0.005	0.005	1996914	0.029	0.005	0.007	0.005	1994358
Dibenz(a,h)anthracene	mg/kg	<0.005	<0.005	<0.005	0.030	0.005	<0.005	0.005	1996914	<0.005	0.005	<0.005	0.005	1994358
Fluoranthene	mg/kg	0.007	0.009	<0.005	0.50	0.005	<0.005	0.005	1996914	0.019	0.005	<0.005	0.005	1994358
Fluorene	mg/kg	<0.005	<0.005	<0.005	0.034	0.005	<0.02(1)	0.02	1996914	<0.2(1)	0.2	<0.005	0.005	1994358
Indeno(1,2,3-cd)pyrene	mg/kg	<0.005	<0.005	<0.005	0.12	0.005	<0.005	0.005	1996914	0.019	0.005	<0.005	0.005	1994358
Naphthalene	mg/kg	<0.005	<0.005	<0.005	0.039	0.005	<0.005	0.005	1996914	0.021	0.005	<0.005	0.005	1994358
Perylene	mg/kg	<0.005	<0.005	<0.005	0.042	0.005	<0.005	0.005	1996914	<0.005	0.005	<0.005	0.005	1994358
Phenanthrene	mg/kg	<0.005	0.006	<0.005	0.37	0.005	0.007	0.005	1996914	0.11	0.005	<0.005	0.005	1994358
Pyrene	mg/kg	<0.005	0.008	<0.005	0.39	0.005	0.026	0.005	1996914	0.074	0.005	0.013	0.005	1994358
Surrogate Recovery (%)														
D10-Anthracene	%	86	86	82	97		91		1996914	105		70		1994358
D14-Terphenyl	%	90	89	87	82		86		1996914	91		77		1994358
D8-Acenaphthylene	%	79	82	74	72		240(2)		1996914	879(3)		85		1994358

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Elevated PAH RDL(s) due to matrix interference.
(2) - PAH surrogate(s) not within acceptance limits. Sample past recommended hold time for repeat analysis.
(3) - PAH surrogate(s) not within acceptance limits due to sample dilution / product interference.

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Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Maxxam ID		EE0496	EE0499	EE0500	EE0505	EE0506	EE0507		EE0508		EE0509		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		2009/10/22		2009/10/22		
	Units	**09-SS20**	**09-SS23**	**09-SS24**	**09-SS29**	**09-SS30**	**09-SS31**	**RDL**	**09-SS32**	**RDL**	**09-SS33**	**RDL**	**QC Batch**
Polyaromatic Hydrocarbons													
1-Methylnaphthalene	mg/kg	0.13	<0.005	<0.005	<0.005	<0.005	0.019	0.005	0.39	0.005	0.027	0.005	1994358
2-Methylnaphthalene	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	0.019	0.005	0.51	0.005	0.036	0.005	1994358
Acenaphthene	mg/kg	0.031	<0.005	<0.005	0.007	<0.005	0.21	0.005	2.9	0.005	0.26	0.005	1994358
Acenaphthylene	mg/kg	0.21	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	0.13	0.005	0.012	0.005	1994358
Anthracene	mg/kg	0.011	<0.005	0.006	0.017	<0.005	0.38	0.005	9.4(1)	0.05	0.44	0.005	1994358
Benzo(a)anthracene	mg/kg	0.25	0.015	0.022	0.081	0.008	0.73	0.005	14(1)	0.05	1.1	0.005	1994358
Benzo(a)pyrene	mg/kg	0.13	0.017	0.019	0.075	0.007	0.42	0.005	12(1)	0.05	0.91	0.005	1994358
Benzo(b)fluoranthene	mg/kg	0.17	0.014	0.020	0.077	0.009	0.39	0.005	11(1)	0.05	0.76	0.005	1994358
Benzo(g,h,i)perylene	mg/kg	0.094	0.010	0.011	0.049	<0.005	0.12	0.005	4.9	0.005	0.49	0.005	1994358
Benzo(k)fluoranthene	mg/kg	0.17	0.014	0.020	0.077	0.009	0.39	0.005	11(1)	0.05	0.76	0.005	1994358
Chrysene	mg/kg	0.30	0.021	0.030	0.11	0.016	0.74	0.005	13(1)	0.05	1.2	0.005	1994358
Dibenz(a,h)anthracene	mg/kg	0.022	<0.005	<0.005	0.011	<0.005	0.042	0.005	1.3	0.005	0.11	0.005	1994358
Fluoranthene	mg/kg	0.16	0.029	0.063	0.15	0.020	1.8	0.005	36(1)	0.05	2.6	0.005	1994358
Fluorene	mg/kg	0.055	<0.005	<0.005	<0.005	<0.005	0.16	0.005	3.3	0.005	0.18	0.005	1994358
Indeno(1,2,3-cd)pyrene	mg/kg	0.10	0.012	0.012	0.056	<0.005	0.20	0.005	6.9(1)	0.05	0.57	0.005	1994358
Naphthalene	mg/kg	0.038	<0.005	<0.005	<0.005	<0.005	0.030	0.005	0.87	0.005	0.12	0.005	1994358
Perylene	mg/kg	0.024	<0.005	0.006	0.017	<0.005	0.080	0.005	2.4	0.005	0.26	0.005	1994358
Phenanthrene	mg/kg	0.071	0.008	0.030	0.056	0.010	1.3	0.005	31(1)	0.05	1.5	0.005	1994358
Pyrene	mg/kg	0.57	0.026	0.047	0.13	0.015	1.4	0.005	27(1)	0.05	2.1	0.005	1994358
Surrogate Recovery (%)													
D10-Anthracene	%	97	76	73	78	79	69(2)		85		73		1994358
D14-Terphenyl	%	80	89	82	78	81	73		83		78		1994358
D8-Acenaphthylene	%	719(3)	72	73	73	70	66(2)		76		61(2)		1994358

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Elevated PAH RDL(s) due to sample dilution.
(2) - PAH surrogate(s) not within acceptance limits. Sample past recommended hold time for repeat analysis.
(3) - PAH surrogate(s) not within acceptance limits due to sample dilution / product interference.

Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Maxxam ID		EE0510	EE0511	EE0516	EE0518	EE0522		EE0523		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		2009/10/22		
	Units	**09-SS34**	**09-SS35**	**09-SS40**	**09-SS42**	**09-SS46**	**RDL**	**09-SS47**	**RDL**	**QC Batch**
Polyaromatic Hydrocarbons										
1-Methylnaphthalene	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	0.097	0.005	1994358
2-Methylnaphthalene	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	0.13	0.005	1994358
Acenaphthene	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	1.0	0.005	1994358
Acenaphthylene	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	0.035	0.005	1994358
Anthracene	mg/kg	<0.005	0.010	<0.005	<0.005	<0.005	0.005	2.5	0.005	1994358
Benzo(a)anthracene	mg/kg	0.011	0.033	<0.005	<0.005	0.014	0.005	5.1	0.005	1994358
Benzo(a)pyrene	mg/kg	0.008	0.033	<0.005	<0.005	0.015	0.005	3.7	0.005	1994358
Benzo(b)fluoranthene	mg/kg	0.013	0.084	<0.005	<0.005	0.017	0.005	3.0	0.005	1994358
Benzo(g,h,i)perylene	mg/kg	<0.005	0.034	0.009	<0.005	0.015	0.005	2.0	0.005	1994358
Benzo(k)fluoranthene	mg/kg	0.013	0.084	<0.005	<0.005	0.016	0.005	3.0	0.005	1994358
Chrysene	mg/kg	0.019	0.15	0.007	<0.005	0.038	0.005	4.7	0.005	1994358
Dibenz(a,h)anthracene	mg/kg	<0.005	0.007	<0.005	<0.005	<0.005	0.005	0.51	0.005	1994358
Fluoranthene	mg/kg	0.011	0.12	0.007	<0.005	0.027	0.005	12(1)	0.03	1994358
Fluorene	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	0.99	0.005	1994358
Indeno(1,2,3-cd)pyrene	mg/kg	0.006	0.036	0.009	<0.005	0.015	0.005	2.5	0.005	1994358
Naphthalene	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	0.37	0.005	1994358
Perylene	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	0.87	0.005	1994358
Phenanthrene	mg/kg	<0.005	0.025	0.007	<0.005	0.019	0.005	8.9(1)	0.03	1994358
Pyrene	mg/kg	0.009	0.11	0.007	<0.005	0.024	0.005	8.9(1)	0.03	1994358
Surrogate Recovery (%)										
D10-Anthracene	%	77	70	80	72	80		84		1994358
D14-Terphenyl	%	83	81	79	82	67		71		1994358
D8-Acenaphthylene	%	76	66(2)	71	62(2)	64(2)		68(2)		1994358

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Elevated PAH RDL(s) due to sample dilution.
(2) - PAH surrogate(s) not within acceptance limits. Sample past recommended hold time for repeat analysis.

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Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Maxxam ID		EE0526		EE0527		EE0528	EE0529	EE0529		
Sampling Date		2009/10/22		2009/10/22		2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SS50**	**RDL**	**09-SS51**	**RDL**	**09-SS52**	**09-SS53**	**09-SS53 Lab-Dup**	**RDL**	**QC Batch**
Polyaromatic Hydrocarbons										
1-Methylnaphthalene	mg/kg	0.26	0.005	0.48	0.005	<0.005	<0.005	<0.005	0.005	1994358
2-Methylnaphthalene	mg/kg	0.40	0.005	0.89	0.005	<0.005	0.007	0.009	0.005	1994358
Acenaphthene	mg/kg	2.7	0.005	2.5	0.005	0.019	0.060	0.058	0.005	1994358
Acenaphthylene	mg/kg	0.066	0.005	0.13	0.005	<0.005	<0.005	<0.005	0.005	1994358
Anthracene	mg/kg	7.6(1)	0.05	6.3(1)	0.03	0.033	0.12	0.14	0.005	1994358
Benzo(a)anthracene	mg/kg	12(1)	0.05	10(1)	0.03	0.099	0.26	0.26	0.005	1994358
Benzo(a)pyrene	mg/kg	10(1)	0.05	7.6(1)	0.03	0.084	0.18	0.18	0.005	1994358
Benzo(b)fluoranthene	mg/kg	9.2(1)	0.05	7.1(1)	0.03	0.077	0.17	0.16	0.005	1994358
Benzo(g,h,i)perylene	mg/kg	5.5(1)	0.05	3.9	0.005	0.079	0.19	0.18	0.005	1994358
Benzo(k)fluoranthene	mg/kg	9.2(1)	0.05	7.1(1)	0.03	0.077	0.17	0.16	0.005	1994358
Chrysene	mg/kg	13(1)	0.05	10(1)	0.03	0.11	0.26	0.25	0.005	1994358
Dibenz(a,h)anthracene	mg/kg	1.6	0.005	1.3	0.005	0.016	0.030	0.029	0.005	1994358
Fluoranthene	mg/kg	32(1)	0.05	26(1)	0.03	0.18	0.56	0.58	0.005	1994358
Fluorene	mg/kg	3.2	0.005	3.1	0.005	0.014	0.054	0.063	0.005	1994358
Indeno(1,2,3-cd)pyrene	mg/kg	6.4(1)	0.05	5.0	0.005	0.081	0.16	0.15	0.005	1994358
Naphthalene	mg/kg	0.88	0.005	2.8	0.005	<0.005	0.018	0.025	0.005	1994358
Perylene	mg/kg	2.4	0.005	1.6	0.005	0.023	0.045	0.057	0.005	1994358
Phenanthrene	mg/kg	25(1)	0.05	22(1)	0.03	0.14	0.44	0.50	0.005	1994358
Pyrene	mg/kg	24(1)	0.05	19(1)	0.03	0.15	0.44	0.45	0.005	1994358
Surrogate Recovery (%)										
D10-Anthracene	%	85		80		79	90	102		1994358
D14-Terphenyl	%	72		71		69(2)	81	92		1994358
D8-Acenaphthylene	%	74		66(2)		65(2)	70(2)	85		1994358

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Elevated PAH RDL(s) due to sample dilution.
(2) - PAH surrogate(s) not within acceptance limits. Sample past recommended hold time for repeat analysis.

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Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ATLANTIC RBCA HYDROCARBONS (SOIL)

Maxxam ID		EE0411			EE0436	EE0437	EE0438	EE0440	EE0442	EE0444	EE0446		
Sampling Date		2009/10/20			2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-MW14**	**RDL**	**QC Batch**	**09-SED-2**	**09-SED-3**	**09-SED-4**	**09-SED5**	**09-SED6**	**09-SED7**	**09-SED8**	**RDL**	**QC Batch**
Petroleum Hydrocarbons													
Benzene	mg/kg	<30	30	2010953	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	1993958
Toluene	mg/kg	<30	30	2010953	<0.03	<0.03	<0.03	0.70	<0.03	<0.03	<0.03	0.03	1993958
Ethylbenzene	mg/kg	560	30	2010953	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	1993958
Xylene (Total)	mg/kg	2500	50	2010953	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	1993958
Aliphatic >C6-C8	mg/kg	16000	100	2010953									
Aliphatic >C8-C10	mg/kg	170000	400	2010953									
C6 - C10 (less BTEX)	mg/kg				<3	<3	<3	<3	<3	<3	<3	3	1993958
>C8-C10 Aromatics (-EX)	mg/kg	15000	100	2010953									
>C10-C21 Hydrocarbons	mg/kg				<15	470	19	380	62	410	170	15	1994391
Aliphatic >C10-C12	mg/kg	170000	730	2008938									
>C21-<C32 Hydrocarbons	mg/kg				<15	<15	71	1300	630	190	100	15	1994391
Aliphatic >C12-C16	mg/kg	370000	1400	2008938									
Modified TPH (Tier1)	mg/kg				<20	470	90	1600	690	610	280	20	1991470
Aliphatic >C16-C21	mg/kg	63000	1400	2008938									
Aliphatic >C21-<C32	mg/kg	5500	1400	2008938									
Aromatic >C10-C12	mg/kg	36000	370	2008938									
Aromatic >C12-C16	mg/kg	93000	1400	2008938									
Aromatic >C16-C21	mg/kg	28000	1400	2008938									
Aromatic >C21-<C32	mg/kg	3800	1400	2008938									
Modified TPH (Tier 2)	mg/kg	970000	1000	2009698									
Surrogate Recovery (%)													
Isobutylbenzene - Extractable	%	117		2008938	101	96	101	107	99	103	96		1994391
Isobutylbenzene - Volatile	%	197(1)		2010953	127	116	101	87	128	102	129		1993958
n-Dotriacontane - Extractable	%	90(2)		2008938	109	102(3)	104(4)	111(5)	101(6)	107(7)	111(7)		1994391

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - VPH surrogate not within acceptance limits due to sample dilution / product interference. Elevated VPH RDL(s) due to sample dilution.
(2) - Fuel oil fraction. Elevated TEH RDL(s) due to sample dilution. An aliquot of sample was dissolved in solvent (Hexane), fractionated, and analysed by GC-FID.
(3) - Weathered fuel oil fraction.
(4) - No resemblance to petroleum products.
(5) - One product in fuel / lube range. Unidentified compound(s) in fuel / lube range.
(6) - Lube oil fraction.
(7) - Weathered fuel oil fraction. No resemblance to petroleum products in lube oil range.

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ATLANTIC RBCA HYDROCARBONS (SOIL)

Maxxam ID		EE0451	EE0494	EE0495	EE0498	EE0515	EE0515		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SED10**	**09-SS18**	**09-SS19**	**09-SS22**	**09-SS39**	**09-SS39 Lab-Dup**	**RDL**	**QC Batch**
Petroleum Hydrocarbons									
Benzene	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	1993958
Toluene	mg/kg	0.62	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	1993958
Ethylbenzene	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	1993958
Xylene (Total)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	1993958
C6 - C10 (less BTEX)	mg/kg	<3	<3	170	<3	<3	<3	3	1993958
>C10-C21 Hydrocarbons	mg/kg	670	2300	18000	63	<15		15	1994391
>C21-<C32 Hydrocarbons	mg/kg	2600	72	160	140	18		15	1994391
Modified TPH (Tier1)	mg/kg	3200	2300	19000	210	<20		20	1991470
Surrogate Recovery (%)									
Isobutylbenzene - Extractable	%	97	104	82	99	93			1994391
Isobutylbenzene - Volatile	%	96	116	100	111	112	108		1993958
n-Dotriacontane - Extractable	%	104(1)	102(2)	114(3)	110(4)	100(5)			1994391

POLYCHLORINATED BIPHENYLS BY GC-ECD (SOIL)

Maxxam ID		EE0482	EE0484	EE0484	EE0485	EE0487	EE0496	EE0497	EE0499	EE0500	EE0503		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SS6**	**09-SS8**	**09-SS8 Lab-Dup**	**09-SS9**	**09-SS11**	**09-SS20**	**09-SS21**	**09-SS23**	**09-SS24**	**09-SS27**	**RDL**	**QC Batch**
PCBs													
Total PCB	ug/g	<0.05	<0.05	<0.05	<0.05	<0.05	0.16	<0.05	<0.05	<0.05	<0.05	0.05	1994277
Surrogate Recovery (%)													
Decachlorobiphenyl	%	95	95	93	95	96	81(6)	86	94	88	97(7)		1994277

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - One product in fuel / lube range. Unidentified compound(s) in fuel / lube range.
(2) - Weathered fuel oil fraction.
(3) - Fuel oil fraction.
(4) - Weathered fuel oil fraction. Possible lube oil fraction.
(5) - No resemblance to petroleum products.
(6) - Aroclor 1260.
(7) - PCB:Unidentified (possibly halogenated) compounds detected.

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Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

POLYCHLORINATED BIPHENYLS BY GC-ECD (SOIL)

Maxxam ID		EE0505	EE0506	EE0509	EE0515	EE0522	EE0523	EE0527		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SS29**	**09-SS30**	**09-SS33**	**09-SS39**	**09-SS46**	**09-SS47**	**09-SS51**	**RDL**	**QC Batch**
PCBs										
Total PCB	ug/g	<0.05	<0.05	3.1	<0.05	<0.05	<0.05	<0.05	0.05	1994277
Surrogate Recovery (%)										
Decachlorobiphenyl	%	92	97	93(1)	92	97	92(2)	93(2)		1994277

RESULTS OF ANALYSES OF TISSUE

Maxxam ID		EE0534	EE0535	EE0537	EE0538	EE0539	EE0542	EE0545	EE0547	EE0548	EE0552		
Sampling Date		2009/10/23	2009/10/23	2009/10/23	2009/10/23	2009/10/23	2009/10/23	2009/10/23	2009/10/23	2009/10/23	2009/10/23		
	Units	**09-SM4**	**09-SM5**	**09-SM7**	**09-SM8**	**09-SM9**	**09-SM12**	**09-SM15**	**09-SM17**	**09-SM18**	**09-SM22**	**RDL**	**QC Batch**
Inorganics													
Crude Fat	%	3.5	3.1	2.3	2.7	15	2.6	11	2.8	3.5	3.4	0.5	2013211

Maxxam ID		EE0556	EE0559	EE0560	EE0561	EE0562	EE0563	EE0563	EE0564	EE0565	EE0566		
Sampling Date		2009/10/23	2009/10/23	2009/10/23	2009/10/23	2009/10/23	2009/10/23	2009/10/23	2009/10/23	2009/10/23	2009/10/23		
	Units	**09-SM26**	**09-SM29**	**09-SM30**	**09-SM31**	**09-SM32**	**09-SM33**	**09-SM33 Lab-Dup**	**09-SM34**	**09-SM35**	**09-SM36**	**RDL**	**QC Batch**
Inorganics													
Crude Fat	%	2.8	3.3	1.9	2.1	1.7	2.0	2.1	2.2	2.2	1.1	0.5	2013211

MERCURY BY COLD VAPOUR AA (TISSUE)

Maxxam ID		EE0534	EE0535	EE0536	EE0537	EE0539	EE0547		
Sampling Date		2009/10/23	2009/10/23	2009/10/23	2009/10/23	2009/10/23	2009/10/23		
	Units	**09-SM4**	**09-SM5**	**09-SM6**	**09-SM7**	**09-SM9**	**09-SM17**	**RDL**	**QC Batch**
Metals									
Mercury (Hg)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	0.1	2012352

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Aroclor 1254.
(2) - PCB:Unidentified (possibly halogenated) compounds detected.

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MERCURY BY COLD VAPOUR AA (TISSUE)

Maxxam ID		EE0552	EE0560	EE0562	EE0563	EE0564	EE0566		
Sampling Date		2009/10/23	2009/10/23	2009/10/23	2009/10/23	2009/10/23	2009/10/23		
	Units	**09-SM22**	**09-SM30**	**09-SM32**	**09-SM33**	**09-SM34**	**09-SM36**	**RDL**	**QC Batch**
Metals									
Mercury (Hg)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2012352

POLYCHLORINATED BIPHENYLS BY GC-ECD (TISSUE)

Maxxam ID		EE0534	EE0535	EE0536	EE0537	EE0537	EE0538	EE0539		EE0540	EE0541		
Sampling Date		2009/10/23	2009/10/23	2009/10/23	2009/10/23	2009/10/23	2009/10/23	2009/10/23		2009/10/23	2009/10/23		
	Units	**09-SM4**	**09-SM5**	**09-SM6**	**09-SM7**	**09-SM7 Lab-Dup**	**09-SM8**	**09-SM9**	**RDL**	**09-SM10**	**09-SM11**	**RDL**	**QC Batch**
PCBs													
Total PCB	ug/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.07	<0.07	0.07	2004164
Surrogate Recovery (%)													
Decachlorobiphenyl	%	82	73(1)	75	71	71	88	85		71(2)	71(3)		2004164

Maxxam ID		EE0542		EE0543	EE0544		EE0545		EE0546		EE0547	EE0548		
Sampling Date		2009/10/23		2009/10/23	2009/10/23		2009/10/23		2009/10/23		2009/10/23	2009/10/23		
	Units	**09-SM12**	**RDL**	**09-SM13**	**09-SM14**	**RDL**	**09-SM15**	**RDL**	**09-SM16**	**RDL**	**09-SM17**	**09-SM18**	**RDL**	**QC Batch**
PCBs														
Total PCB	ug/g	<0.05	0.05	<0.07	<0.07	0.07	<0.05	0.05	<0.07	0.07	<0.05	<0.05	0.05	2004164
Surrogate Recovery (%)														
Decachlorobiphenyl	%	94		85(2)	77(2)		89		75(2)		87	80		2004164

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - PCB:Unidentified (possibly halogenated) compounds detected.
(2) - PCB:Unidentified (possibly halogenated) compounds detected. Elevated PCB RDL due to insufficient sample.
(3) - Elevated PCB RDL due to insufficient sample.

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POLYCHLORINATED BIPHENYLS BY GC-ECD (TISSUE)

Maxxam ID		EE0549	EE0550	EE0551		EE0552			EE0553	EE0554	EE0555		
Sampling Date		2009/10/23	2009/10/23	2009/10/23		2009/10/23			2009/10/23	2009/10/23	2009/10/23		
	Units	**09-SM19**	**09-SM20**	**09-SM21**	**RDL**	**09-SM22**	**RDL**	**QC Batch**	**09-SM23**	**09-SM24**	**09-SM25**	**RDL**	**QC Batch**
PCBs													
Total PCB	ug/g	<0.07	<0.07	<0.07	0.07	<0.05	0.05	2004164	<0.07	<0.07	<0.07	0.07	2005034
Surrogate Recovery (%)													
Decachlorobiphenyl	%	89(1)	75(1)	72(1)		84		2004164	75(1)	72(2)	79(1)		2005034

Maxxam ID		EE0556		EE0557	EE0558			EE0559		EE0560	EE0560		
Sampling Date		2009/10/23		2009/10/23	2009/10/23			2009/10/23		2009/10/23	2009/10/23		
	Units	**09-SM26**	**RDL**	**09-SM27**	**09-SM28**	**RDL**	**QC Batch**	**09-SM29**	**QC Batch**	**09-SM30**	**09-SM30 Lab-Dup**	**RDL**	**QC Batch**
PCBs													
Total PCB	ug/g	<0.05	0.05	<0.07	<0.07	0.07	2005034	<0.05	2004164	<0.05	<0.05	0.05	2005034
Surrogate Recovery (%)													
Decachlorobiphenyl	%	83		80(2)	76(2)		2005034	81	2004164	82	73		2005034

Maxxam ID		EE0561	EE0562	EE0563	EE0564	EE0565	EE0566		
Sampling Date		2009/10/23	2009/10/23	2009/10/23	2009/10/23	2009/10/23	2009/10/23		
	Units	**09-SM31**	**09-SM32**	**09-SM33**	**09-SM34**	**09-SM35**	**09-SM36**	**RDL**	**QC Batch**
PCBs									
Total PCB	ug/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2005034
Surrogate Recovery (%)									
Decachlorobiphenyl	%	88	71	72	85	91	79		2005034

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - PCB:Unidentified (possibly halogenated) compounds detected. Elevated PCB RDL due to insufficient sample.
(2) - Elevated PCB RDL due to insufficient sample.

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Maxxam Job #: A9E4696
Report Date: 2009/11/24

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Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

RESULTS OF ANALYSES OF WATER

Maxxam ID		EE0391	EE0392		EE0393		EE0394		EE0395		EE0396		
Sampling Date		2009/10/20	2009/10/20		2009/10/20		2009/10/20		2009/10/20		2009/10/20		
	Units	**09-MW1**	**09-MW2S**	**RDL**	**09-MW2D**	**RDL**	**09-MW3**	**RDL**	**09-MW4**	**RDL**	**09-MW5**	**RDL**	**QC Batch**
Calculated Parameters													
Anion Sum	me/L	0.810	0.560	N/A	5.40	N/A	0.540	N/A	1.35	N/A	0.940	N/A	1991488
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	37	25	1	243	1	20	1	65	1	42	1	1991484
Calculated TDS	mg/L	66	144	1	220	1	50	1	126	1	67	1	1991491
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	<1	1	2	1	<1	1	<1	1	<1	1	1991484
Cation Sum	me/L	1.47	5.86	N/A	1.71	N/A	0.910	N/A	2.73	N/A	1.03	N/A	1991488
Hardness (CaCO3)	mg/L	54	220	1	47	1	25	1	78	1	39	1	1991486
Ion Balance (% Difference)	%	29.0	82.6	N/A	51.9	N/A	25.5	N/A	33.8	N/A	4.57	N/A	1991487
Langelier Index (@ 20C)	N/A	-1.80	-2.06		0.148		-3.12		-1.71		-1.22		1991489
Langelier Index (@ 4C)	N/A	-2.05	-2.31		-0.102		-3.37		-1.96		-1.47		1991490
Nitrate (N)	mg/L	<0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	1991517
Saturation pH (@ 20C)	N/A	8.51	8.30		7.88		9.19		8.12		8.67		1991489
Saturation pH (@ 4C)	N/A	8.76	8.55		8.13		9.44		8.37		8.92		1991490
Inorganics													
Total Alkalinity (Total as CaCO3)	mg/L	37	25	5	250	30	20	5	65	5	42	5	1996934
Dissolved Chloride (Cl)	mg/L	2	2	1	7	1	2	1	2	1	3	1	1996937
Colour	TCU	49	37	5	44	5	26	5	240	30	10	5	1996940
Nitrate + Nitrite	mg/L	<0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	1996943
Nitrite (N)	mg/L	<0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	1996944
Nitrogen (Ammonia Nitrogen)	mg/L	0.62	<0.05	0.05	0.09	0.05	0.14	0.05	<0.05	0.05	<0.05	0.05	1997489
Total Organic Carbon (C)	mg/L	16	19	5	12	5	30	5	21	5	<5(1)	5	1996012
Orthophosphate (P)	mg/L	<0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	1996942
pH	pH	6.71	6.24	N/A	8.03	N/A	6.07	N/A	6.41	N/A	7.45	N/A	1995985
Reactive Silica (SiO2)	mg/L	10	13	0.5	14	0.5	11	0.5	22	0.5	18	0.5	1996939
Dissolved Sulphate (SO4)	mg/L	<2	<2	2	14	2	4	2	<2	2	<2	2	1996938
Turbidity	NTU	670	830	10	89	1	>1000	10	>1000	10	240	1	1998639
Conductivity	uS/cm	83	65	1	460	1	62	1	130	1	94	1	1995996
Subcontracted Analysis													
Subcontract Parameter	N/A								ATTACHED	N/A			1995815

N/A = Not Applicable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Detection limit increased due to sample matrix.

Maxxam Analytics International Corporation o/a Maxxam Analytics 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel:902-420-0203 Toll-free:800-565-7227 Fax:902-420-8612 www.maxxamanalytics.com

Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

RESULTS OF ANALYSES OF WATER

Maxxam ID		EE0397			EE0398	EE0398			EE0399		EE0400		
Sampling Date		2009/10/20			2009/10/20	2009/10/20			2009/10/20		2009/10/20		
	Units	**09-MW6**	**RDL**	**QC Batch**	**09-MW7**	**09-MW7 Lab-Dup**	**RDL**	**QC Batch**	**09-MW8**	**RDL**	**09-MW9**	**RDL**	**QC Batch**
Calculated Parameters													
Anion Sum	me/L	0.900	N/A	1991488	3.91		N/A	1991488	1.10	N/A	2.87	N/A	1991488
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	31	1	1991484	191		1	1991484	50	1	132	1	1991484
Calculated TDS	mg/L	84	1	1991491	210		1	1991491	84	1	171	1	1991491
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	1	1991484	<1		1	1991484	<1	1	<1	1	1991484
Cation Sum	me/L	1.92	N/A	1991488	3.55		N/A	1991488	1.77	N/A	3.17	N/A	1991488
Hardness (CaCO3)	mg/L	70	1	1991486	150		1	1991486	72	1	130	1	1991486
Ion Balance (% Difference)	%	36.2	N/A	1991487	4.83		N/A	1991487	23.3	N/A	4.97	N/A	1991487
Langelier Index (@ 20C)	N/A	-1.78		1991489	0.0370			1991489	-1.43		-0.207		1991489
Langelier Index (@ 4C)	N/A	-2.04		1991490	-0.213			1991490	-1.69		-0.457		1991490
Nitrate (N)	mg/L	3.1	0.05	1991517	<0.05		0.05	1991517	<0.05	0.05	<0.05	0.05	1991517
Saturation pH (@ 20C)	N/A	8.56		1991489	7.37			1991489	8.27		7.87		1991489
Saturation pH (@ 4C)	N/A	8.82		1991490	7.62			1991490	8.53		8.12		1991490
Inorganics													
Total Alkalinity (Total as CaCO3)	mg/L	31	5	1996934	190		30	1996934	50	5	130	30	1996934
Dissolved Chloride (Cl)	mg/L	2	1	1996937	3		1	1996937	3	1	2	1	1996937
Colour	TCU	9	5	1996940	76		30	1996940	110	30	<5	5	1996940
Nitrate + Nitrite	mg/L	3.1	0.05	1996943	<0.05		0.05	1996943	<0.05	0.05	<0.05	0.05	1996943
Nitrite (N)	mg/L	<0.01	0.01	1996944	<0.01		0.01	1996944	<0.01	0.01	<0.01	0.01	1996944
Nitrogen (Ammonia Nitrogen)	mg/L	<0.05	0.05	1997489	<0.05		0.05	1997489	<0.05	0.05	<0.05	0.05	1997489
Total Organic Carbon (C)	mg/L	<50(1)	50	1996012	44		30	1996012	41	10	<10(1)	10	1996012
Orthophosphate (P)	mg/L	<0.01	0.01	1996942	<0.01		0.01	1996942	<0.01	0.01	<0.01	0.01	1996942
pH	pH	6.78	N/A	1995999	7.41	7.46	N/A	1995985	6.84	N/A	7.66	N/A	1995999
Reactive Silica (SiO2)	mg/L	11	0.5	1996939	19		0.5	1996939	15	0.5	24	0.5	1996939
Dissolved Sulphate (SO4)	mg/L	<2	2	1996938	<2		2	1996938	<2	2	8	2	1996938
Turbidity	NTU	>1000	10	1998639	880		10	1998639	350	1	330	1	1998639
Conductivity	uS/cm	92	1	1996007	350	360	1	1995996	110	1	270	1	1996007

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Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

RESULTS OF ANALYSES OF WATER

Maxxam ID		EE0401		EE0402			EE0403	EE0404	EE0404		EE0405		
Sampling Date		2009/10/20		2009/10/20			2009/10/20	2009/10/20	2009/10/20		2009/10/20		
	Units	**09-MW10**	**RDL**	**09-MW11**	**RDL**	**QC Batch**	**09-MW12**	**09-MW13S**	**09-MW13S Lab-Dup**	**RDL**	**09-MW15**	**RDL**	**QC Batch**
Calculated Parameters													
Anion Sum	me/L	3.57	N/A	2.40	N/A	1991488	1.21	0.830		N/A	0.220	N/A	1991488
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	163	1	117	1	1991484	57	34		1	9	1	1991484
Calculated TDS	mg/L	219	1	134	1	1991491	90	68		1	23	1	1991491
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	1	<1	1	1991484	<1	<1		1	<1	1	1991484
Cation Sum	me/L	3.55	N/A	2.49	N/A	1991488	1.62	1.23		N/A	0.300	N/A	1991488
Hardness (CaCO3)	mg/L	73	1	110	1	1991486	64	21		1	8	1	1991486
Ion Balance (% Difference)	%	0.280	N/A	1.84	N/A	1991487	14.5	19.4		N/A	15.4	N/A	1991487
Langelier Index (@ 20C)	N/A	0.0590		-0.361		1991489	-1.80	-2.41			-4.00		1991489
Langelier Index (@ 4C)	N/A	-0.191		-0.612		1991490	-2.05	-2.66			-4.26		1991490
Nitrate (N)	mg/L	2.9	0.05	<0.05	0.05	1991517	<0.05	<0.05		0.05	<0.05	0.05	1991517
Saturation pH (@ 20C)	N/A	7.73		7.69		1991489	8.27	9.07			9.95		1991489
Saturation pH (@ 4C)	N/A	7.98		7.94		1991490	8.52	9.32			10.2		1991490
Inorganics													
Total Alkalinity (Total as CaCO3)	mg/L	160	30	120	30	1996934	57	34		5	9	5	1996934
Dissolved Chloride (Cl)	mg/L	2	1	2	1	1996937	2	3		1	2	1	1996937
Colour	TCU	28	5	30	5	1996940	84	82		30	25	5	1996940
Nitrate + Nitrite	mg/L	3.1	0.05	<0.05	0.05	1996943	<0.05	<0.05		0.05	<0.05	0.05	1996943
Nitrite (N)	mg/L	0.18	0.01	<0.01	0.01	1996944	<0.01	<0.01		0.01	<0.01	0.01	1996944
Nitrogen (Ammonia Nitrogen)	mg/L	<0.05	0.05	<0.05	0.05	1997489	<0.05	<0.05		0.05	0.07	0.05	1997489
Total Organic Carbon (C)	mg/L	20	10	10	0.5	1996012	<50(1)	<50(1)	<50(1)	50	16	5	1996016
Orthophosphate (P)	mg/L	<0.01	0.01	<0.01	0.01	1996942	<0.01	<0.01		0.01	<0.01	0.01	1996942
pH	pH	7.79	N/A	7.33	N/A	1995999	6.47	6.66		N/A	5.95	N/A	1995999
Reactive Silica (SiO2)	mg/L	16	0.5	12	0.5	1996939	20	14		0.5	9.7	0.5	1996939
Dissolved Sulphate (SO4)	mg/L	<2	2	<2	2	1996938	<2	4		2	<2	2	1996938
Turbidity	NTU	540	10	>1000	10	1998639	>1000	>1000		10	91	1	1998639
Conductivity	uS/cm	350	1	240	1	1996007	100	100		1	26	1	1996007

N/A = Not Applicable
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(1) - Detection limit increased due to sample matrix.

Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

RESULTS OF ANALYSES OF WATER

Maxxam ID		EE0406		EE0407			EE0408	EE0408		EE0409		EE0410		
Sampling Date		2009/10/20		2009/10/20			2009/10/20	2009/10/20		2009/10/20		2009/10/20		
	Units	**09-MW16**	**RDL**	**09-MW17**	**RDL**	**QC Batch**	**09-MW18**	**09-MW18 Lab-Dup**	**QC Batch**	**09-MW19**	**RDL**	**09-MW20**	**RDL**	**QC Batch**
Calculated Parameters														
Anion Sum	me/L	0.290	N/A	0.270	N/A	1991488	0.240		1991488	0.260	N/A	0.190	N/A	1991488
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	13	1	13	1	1991484	10		1991484	13	1	8	1	1991484
Calculated TDS	mg/L	31	1	31	1	1991491	26		1991491	25	1	31	1	1991491
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	1	<1	1	1991484	<1		1991484	<1	1	<1	1	1991484
Cation Sum	me/L	0.480	N/A	0.500	N/A	1991488	0.400		1991488	0.410	N/A	0.680	N/A	1991488
Hardness (CaCO3)	mg/L	10	1	11	1	1991486	15		1991486	13	1	8	1	1991486
Ion Balance (% Difference)	%	24.7	N/A	29.9	N/A	1991487	25.0		1991487	22.4	N/A	56.3	N/A	1991487
Langelier Index (@ 20C)	N/A	-3.69		-3.54		1991489	-3.32		1991489	-3.36		-4.24		1991489
Langelier Index (@ 4C)	N/A	-3.94		-3.79		1991490	-3.57		1991490	-3.61		-4.49		1991490
Nitrate (N)	mg/L	<0.05	0.05	<0.05	0.05	1991517	0.37		1991517	<0.05	0.05	<0.05	0.05	1991517
Saturation pH (@ 20C)	N/A	9.72		9.64		1991489	9.57		1991489	9.56		9.97		1991489
Saturation pH (@ 4C)	N/A	9.97		9.89		1991490	9.82		1991490	9.81		10.2		1991490
Inorganics														
Total Alkalinity (Total as CaCO3)	mg/L	13	5	14	5	1996934	10	11	1996983	13	5	8	5	1996983
Dissolved Chloride (Cl)	mg/L	1	1	<1	1	1996937	<1	<1	1996984	<1	1	1	1	1996984
Colour	TCU	16	5	8	5	1996940	10	11	1996987	23	5	14	5	1996987
Nitrate + Nitrite	mg/L	<0.05	0.05	<0.05	0.05	1996943	0.37	0.36	1996989	<0.05	0.05	<0.05	0.05	1996989
Nitrite (N)	mg/L	<0.01	0.01	<0.01	0.01	1996944	<0.01	<0.01	1996990	<0.01	0.01	<0.01	0.01	1996990
Nitrogen (Ammonia Nitrogen)	mg/L	<0.05	0.05	<0.05	0.05	1997489	<0.05	<0.05	1997489	<0.05	0.05	<0.05	0.05	1997502
Total Organic Carbon (C)	mg/L	<50(1)	50	<50(1)	50	1996016	<5(1)		1996016	14	5	59	50	1996016
Orthophosphate (P)	mg/L	<0.01	0.01	<0.01	0.01	1996942	<0.01	<0.01	1996988	<0.01	0.01	<0.01	0.01	1996988
pH	pH	6.03	N/A	6.10	N/A	1995999	6.25		1995999	6.20	N/A	5.73	N/A	1995999
Reactive Silica (SiO2)	mg/L	11	0.5	11	0.5	1996939	9.9	9.9	1996986	7.9	0.5	7.9	0.5	1996986
Dissolved Sulphate (SO4)	mg/L	<2	2	<2	2	1996938	<2	<2	1996985	<2	2	<2	2	1996985
Turbidity	NTU	360	1	410	10	1998639	130		1998639	200	1	>1000	10	1998639
Conductivity	uS/cm	32	1	31	1	1996007	31		1996007	28	1	18	1	1996007

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Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

RESULTS OF ANALYSES OF WATER

Maxxam ID		EE0410			EE0411		EE0412		EE0413		EE0414	EE0414		
Sampling Date		2009/10/20			2009/10/20		2009/10/20		2009/10/20		2009/10/20	2009/10/20		
	Units	**09-MW20 Lab-Dup**	**RDL**	**QC Batch**	**09-MW14**	**RDL**	**09-MW21**	**RDL**	**09-MW22**	**RDL**	**09-MW23**	**09-MW23 Lab-Dup**	**RDL**	**QC Batch**
Calculated Parameters														
Anion Sum	me/L		N/A	1991488	3.69	N/A	0.550	N/A	0.830	N/A	1.60		N/A	1991488
Bicarb. Alkalinity (calc. as CaCO3)	mg/L		1	1991484	177	1	24	1	36	1	65		1	1991484
Calculated TDS	mg/L		1	1991491	272	1	47	1	61	1	99		1	1991491
Carb. Alkalinity (calc. as CaCO3)	mg/L		1	1991484	<1	1	<1	1	<1	1	<1		1	1991484
Cation Sum	me/L		N/A	1991488	6.03	N/A	0.510	N/A	0.980	N/A	1.62		N/A	1991488
Hardness (CaCO3)	mg/L		1	1991486	220	1	18	1	24	1	65		1	1991486
Ion Balance (% Difference)	%		N/A	1991487	24.1	N/A	3.77	N/A	8.29	N/A	0.620		N/A	1991487
Langelier Index (@ 20C)	N/A			1991489	-0.756		-2.68		-2.35		-1.25			1991489
Langelier Index (@ 4C)	N/A			1991490	-1.01		-2.93		-2.60		-1.50			1991490
Nitrate (N)	mg/L		0.05	1991517	<0.05	0.05	0.23	0.05	1.4	0.05	1.4		0.05	1992945
Saturation pH (@ 20C)	N/A			1991489	7.31		9.21		8.88		8.29			1991489
Saturation pH (@ 4C)	N/A			1991490	7.56		9.46		9.13		8.54			1991490
Inorganics														
Total Alkalinity (Total as CaCO3)	mg/L		5	1996983	180	30	25	5	36	5	65		5	1996983
Dissolved Chloride (Cl)	mg/L		1	1996984	5	1	<1	1	<1	1	1		1	1996984
Colour	TCU		5	1996987	790	100	10	5	25	5	13		5	1996987
Nitrate + Nitrite	mg/L		0.05	1996989	<0.05	0.05	0.23	0.05	1.4	0.05	1.4		0.05	1996989
Nitrite (N)	mg/L		0.01	1996990	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01		0.01	1996990
Nitrogen (Ammonia Nitrogen)	mg/L		0.05	1997502	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05		0.05	1997502
Total Organic Carbon (C)	mg/L		50	1996016	64	50	<50(1)	50	10	5	<50(1)		50	1996016
Orthophosphate (P)	mg/L		0.01	1996988	0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01		0.01	1996988
pH	pH		N/A	1995999	6.55	N/A	6.53	N/A	6.53	N/A	7.04	7.10	N/A	1995999
Reactive Silica (SiO2)	mg/L		0.5	1996986	27	1	18	0.5	12	0.5	13		0.5	1996986
Dissolved Sulphate (SO4)	mg/L		2	1996985	<2	2	2	2	<2	2	8		2	1996985
Turbidity	NTU	>1000	10	1998639	360	1	470	10	490	10	>1000		10	1998656
Conductivity	uS/cm		1	1996007	350	1	54	1	81	1	150	150	1	1996007

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Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

RESULTS OF ANALYSES OF WATER

Maxxam ID		EE0415			EE0416			EE0417		EE0418		
Sampling Date		2009/10/20			2009/10/20			2009/10/20		2009/10/20		
	Units	**09-MW25**	**RDL**	**QC Batch**	**09-MW27S**	**RDL**	**QC Batch**	**09-MW27D**	**RDL**	**09-MW28**	**RDL**	**QC Batch**
Calculated Parameters												
Anion Sum	me/L	0.640	N/A	1991488	1.41	N/A	1991488	8.07	N/A	0.690	N/A	1991488
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	28	1	1991484	64	1	1991484	368	1	31	1	1991484
Calculated TDS	mg/L	58	1	1991491	107	1	1991491	507	1	64	1	1991491
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	1	1991484	<1	1	1991484	4	1	<1	1	1991484
Cation Sum	me/L	0.840	N/A	1991488	1.96	N/A	1991488	9.08	N/A	0.750	N/A	1991488
Hardness (CaCO3)	mg/L	31	1	1991486	55	1	1992942	26	1	26	1	1992942
Ion Balance (% Difference)	%	13.5	N/A	1991487	16.3	N/A	1991487	5.89	N/A	4.17	N/A	1991487
Langelier Index (@ 20C)	N/A	-2.36		1991489	-1.80		1991489	-0.152		-2.62		1991489
Langelier Index (@ 4C)	N/A	-2.61		1991490	-2.05		1991490	-0.400		-2.87		1991490
Nitrate (N)	mg/L	0.52	0.05	1992945	0.26	0.05	1992945	<0.05	0.05	0.18	0.05	1992945
Saturation pH (@ 20C)	N/A	9.06		1991489	8.47		1991489	8.21		9.13		1991489
Saturation pH (@ 4C)	N/A	9.31		1991490	8.72		1991490	8.46		9.38		1991490
Inorganics												
Total Alkalinity (Total as CaCO3)	mg/L	28	5	1996983	64	5	1996983	370	30	31	5	1996983
Dissolved Chloride (Cl)	mg/L	2	1	1996984	4	1	1996984	23	1	2	1	1996984
Colour	TCU	15	5	1996987	320	50	1996987	940	200	14	5	1996987
Nitrate + Nitrite	mg/L	0.53	0.05	1996989	0.26	0.05	1996989	<0.05	0.05	0.18	0.05	1996989
Nitrite (N)	mg/L	0.01	0.01	1996990	<0.01	0.01	1996990	<0.01	0.01	<0.01	0.01	1996990
Nitrogen (Ammonia Nitrogen)	mg/L	<0.05	0.05	1997502	0.13	0.05	1997502	0.62	0.05	<0.05	0.05	1997502
Total Organic Carbon (C)	mg/L	<500(1)	500	1996016	<50(1)	50	1996016	<50(1)	50	<50(1)	50	1996016
Orthophosphate (P)	mg/L	0.01	0.01	1996988	0.02	0.01	1996988	9.8	0.3	0.01	0.01	1996988
pH	pH	6.70	N/A	1995999	6.67	N/A	1995999	8.06	N/A	6.51	N/A	1997462
Reactive Silica (SiO2)	mg/L	21	0.5	1996986	23	0.5	1996986	22	0.5	28	1	1996986
Dissolved Sulphate (SO4)	mg/L	<2	2	1996985	<2	2	1996985	<2	2	<2	2	1996985
Turbidity	NTU	>1000	10	1998656	250	1	1998656	940	10	>1000	10	1998656
Conductivity	uS/cm	65	1	1996007	140	1	1996007	740	1	72	1	1997465

N/A = Not Applicable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Detection limit increased due to sample matrix.

Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

RESULTS OF ANALYSES OF WATER

Maxxam ID		EE0419		EE0420		EE0421	EE0422			EE0423		EE0424		
Sampling Date		2009/10/20		2009/10/20		2009/10/20	2009/10/20			2009/10/20		2009/10/20		
	Units	**09-MW29**	**RDL**	**09-MW30**	**RDL**	**09-MW31**	**09-MW32**	**RDL**	**QC Batch**	**09-MW33S**	**RDL**	**09-MW33D**	**RDL**	**QC Batch**
Calculated Parameters														
Anion Sum	me/L	4.81	N/A	0.580	N/A	0.560	1.59	N/A	1992944	0.630	N/A	1.13	N/A	1992944
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	204	1	26	1	25	74	1	1992939	29	1	48	1	1992939
Calculated TDS	mg/L	313	1	51	1	47	149	1	1992948	53	1	76	1	1992948
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	1	<1	1	<1	<1	1	1992939	<1	1	<1	1	1992939
Cation Sum	me/L	6.31	N/A	0.870	N/A	0.830	3.74	N/A	1992944	0.660	N/A	1.18	N/A	1992944
Hardness (CaCO3)	mg/L	130	1	30	1	30	49	1	1992942	24	1	26	1	1992942
Ion Balance (% Difference)	%	13.5	N/A	20.0	N/A	19.4	40.3	N/A	1992943	2.33	N/A	2.16	N/A	1992943
Langelier Index (@ 20C)	N/A	-0.171		-2.31		-2.24	-1.16		1992946	-1.79		-1.30		1992946
Langelier Index (@ 4C)	N/A	-0.420		-2.56		-2.49	-1.41		1992947	-2.04		-1.55		1992947
Nitrate (N)	mg/L	0.37	0.05	<0.05	0.05	<0.05	0.12	0.05	1992945	0.11	0.05	<0.05	0.05	1992945
Saturation pH (@ 20C)	N/A	7.63		8.93		8.99	8.47		1992946	8.96		9.02		1992946
Saturation pH (@ 4C)	N/A	7.88		9.18		9.24	8.72		1992947	9.21		9.27		1992947
Inorganics														
Total Alkalinity (Total as CaCO3)	mg/L	200	30	26	5	25	74	5	1996983	29	5	48	5	1996983
Dissolved Chloride (Cl)	mg/L	4	1	2	1	2	3	1	1996984	2	1	3	1	1996984
Colour	TCU	70	30	45	5	65	190	30	1996987	19	5	9	5	1996987
Nitrate + Nitrite	mg/L	0.38	0.05	<0.05	0.05	<0.05	0.14	0.05	1996989	0.11	0.05	<0.05	0.05	1996989
Nitrite (N)	mg/L	0.01	0.01	<0.01	0.01	<0.01	0.02	0.01	1996990	<0.01	0.01	<0.01	0.01	1996990
Nitrogen (Ammonia Nitrogen)	mg/L	0.85	0.05	<0.05	0.05	<0.05	0.14	0.05	1997502	<0.05	0.05	<0.05	0.05	1997502
Total Organic Carbon (C)	mg/L	9	5	<50(1)	50	90(2)	<50(1)	50	1996016	9(3)	5	69(3)	50	1998426
Orthophosphate (P)	mg/L	0.01	0.01	<0.01	0.01	<0.01	0.15	0.01	1996988	<0.01	0.01	0.01	0.01	1996988
pH	pH	7.46	N/A	6.62	N/A	6.75	7.31	N/A	1997462	7.17	N/A	7.72	N/A	1997462
Reactive Silica (SiO2)	mg/L	23	0.5	15	0.5	13	17	0.5	1996986	19	0.5	14	0.5	1996986
Dissolved Sulphate (SO4)	mg/L	27	2	<2	2	<2	<2	2	1996985	<2	2	4	2	1996985
Turbidity	NTU	46	10	310	1	730	840	10	1998656	340	1	780	10	1998656
Conductivity	uS/cm	430	1	64	1	66	130	1	1997465	63	1	110	1	1997465

N/A = Not Applicable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Detection limit increased due to sample matrix.
(2) - Detection limit increased due to sample matrix (turbidity)
(3) - Elevated detection limit due to matrix interference.

Maxxam Analytics International Corporation o/a Maxxam Analytics 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel:902-420-0203 Toll-free:800-565-7227 Fax:902-420-8612 www.maxxamanalytics.com

Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

RESULTS OF ANALYSES OF WATER

Maxxam ID		EE0425		EE0426	EE0426			EE0427			EE0428	EE0428		
Sampling Date		2009/10/20		2009/10/20	2009/10/20			2009/10/20			2009/10/20	2009/10/20		
	Units	**09-MW34S**	**RDL**	**09-MW34D**	**09-MW34D Lab-Dup**	**RDL**	**QC Batch**	**09-MW35D**	**RDL**	**QC Batch**	**09-MW36**	**09-MW36 Lab-Dup**	**RDL**	**QC Batch**
Calculated Parameters														
Anion Sum	me/L	0.470	N/A	2.58		N/A	1992944	3.25	N/A	1992944	3.54		N/A	1992944
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	20	1	125		1	1992939	129	1	1992939	162		1	1992939
Calculated TDS	mg/L	57	1	163		1	1992948	190	1	1992948	216		1	1992948
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	1	<1		1	1992939	1	1	1992939	<1		1	1992939
Cation Sum	me/L	1.17	N/A	2.75		N/A	1992944	3.58	N/A	1992944	3.45		N/A	1992944
Hardness (CaCO3)	mg/L	27	1	110		1	1992942	100	1	1992942	59		1	1992942
Ion Balance (% Difference)	%	42.7	N/A	3.19		N/A	1992943	4.83	N/A	1992943	1.29		N/A	1992943
Langelier Index (@ 20C)	N/A	-3.12		-0.277			1992946	0.00100		1992946	-0.0760			1992946
Langelier Index (@ 4C)	N/A	-3.37		-0.527			1992947	-0.249		1992947	-0.326			1992947
Nitrate (N)	mg/L	<0.05	0.05	<0.05		0.05	1992945	<0.05	0.05	1992945	2.8		0.05	1992945
Saturation pH (@ 20C)	N/A	9.12		7.92			1992946	7.95		1992946	7.83			1992946
Saturation pH (@ 4C)	N/A	9.37		8.17			1992947	8.20		1992947	8.08			1992947
Inorganics														
Total Alkalinity (Total as CaCO3)	mg/L	20	5	130		30	1996983	130	30	1996983	160		30	1996991
Dissolved Chloride (Cl)	mg/L	3	1	3		1	1996984	9	1	1996984	2		1	1996993
Colour	TCU	150	30	78		30	1996987	11	5	1996987	30		5	1996996
Nitrate + Nitrite	mg/L	<0.05	0.05	<0.05		0.05	1996989	<0.05	0.05	1996989	3.1		0.05	1996998
Nitrite (N)	mg/L	<0.01	0.01	<0.01		0.01	1996990	<0.01	0.01	1996990	0.27		0.01	1996999
Nitrogen (Ammonia Nitrogen)	mg/L	0.10	0.05	<0.05		0.05	1997502	<0.05	0.05	1997502	<0.05	<0.05	0.05	1997502
Total Organic Carbon (C)	mg/L	27	1	27(1)		5	1998426	<5(1)	5	1998426	6.2		0.5	1998426
Orthophosphate (P)	mg/L	<0.01	0.01	0.01		0.01	1996988	<0.01	0.01	1996988	<0.01		0.01	1996997
pH	pH	6.00	N/A	7.64	7.68	N/A	1997462	7.95	N/A	1997467	7.75		N/A	1997467
Reactive Silica (SiO2)	mg/L	15	0.5	32		1	1996986	9.5	0.5	1996986	15		0.5	1996995
Dissolved Sulphate (SO4)	mg/L	<2	2	<2		2	1996985	19	2	1996985	<2		2	1996994
Turbidity	NTU	>1000	10	120		1	1998656	95	1	1998656	>1000		10	1998656
Conductivity	uS/cm	59	1	250	260	1	1997465	310	1	1997476	330		1	1997476

N/A = Not Applicable
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QC Batch = Quality Control Batch
(1) - Elevated detection limit due to matrix interference.

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Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

RESULTS OF ANALYSES OF WATER

Maxxam ID		EE0429		EE0430	EE0430			EE0431	EE0431		EE0432		
Sampling Date		2009/10/20		2009/10/20	2009/10/20			2009/10/20	2009/10/20		2009/10/21		
	Units	**09-MW37**	**RDL**	**09-MW38**	**09-MW38 Lab-Dup**	**RDL**	**QC Batch**	**09-MW39**	**09-MW39 Lab-Dup**	**RDL**	**AMEC2**	**RDL**	**QC Batch**
Calculated Parameters													
Anion Sum	me/L	4.86	N/A	1.02		N/A	1992944	0.550		N/A	0.550	N/A	1992944
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	206	1	44		1	1992939	24		1	25	1	1992939
Calculated TDS	mg/L	316	1	158		1	1992948	45		1	42	1	1992948
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	1	<1		1	1992939	<1		1	<1	1	1992939
Cation Sum	me/L	6.39	N/A	5.86		N/A	1992944	0.760		N/A	0.590	N/A	1992944
Hardness (CaCO3)	mg/L	130	1	220		1	1992942	28		1	19	1	1992942
Ion Balance (% Difference)	%	13.6	N/A	70.4		N/A	1992943	16.0		N/A	3.51	N/A	1992943
Langelier Index (@ 20C)	N/A	-0.180		-1.61			1992946	-2.25			-2.41		1992946
Langelier Index (@ 4C)	N/A	-0.429		-1.86			1992947	-2.51			-2.66		1992947
Nitrate (N)	mg/L	0.43	0.05	<0.05		0.05	1992945	<0.05		0.05	<0.05	0.05	1992945
Saturation pH (@ 20C)	N/A	7.62		8.06			1992946	8.99			9.14		1992946
Saturation pH (@ 4C)	N/A	7.87		8.31			1992947	9.25			9.39		1992947
Inorganics													
Total Alkalinity (Total as CaCO3)	mg/L	210	30	44		5	1996991	24	23	5	25	5	1996991
Dissolved Chloride (Cl)	mg/L	4	1	2		1	1996993	2	2	1	2	1	1996993
Colour	TCU	65	30	34		5	1996996	77	66	10	11	5	1996996
Nitrate + Nitrite	mg/L	0.44	0.05	<0.05		0.05	1996998	<0.05	<0.05	0.05	<0.05	0.05	1996998
Nitrite (N)	mg/L	0.01	0.01	<0.01		0.01	1996999	<0.01	<0.01	0.01	<0.01	0.01	1996999
Nitrogen (Ammonia Nitrogen)	mg/L	0.78	0.05	<0.05		0.05	1997510	<0.05		0.05	<0.05	0.05	1997510
Total Organic Carbon (C)	mg/L	19(1)	5	23		1	1998426	25		1	<5(1)	5	1998426
Orthophosphate (P)	mg/L	0.01	0.01	<0.01		0.01	1996997	0.01	<0.01	0.01	<0.01	0.01	1996997
pH	pH	7.44	N/A	6.45		N/A	1997467	6.74		N/A	6.73	N/A	1997467
Reactive Silica (SiO2)	mg/L	22	0.5	13		0.5	1996995	12	12	0.5	13	0.5	1996995
Dissolved Sulphate (SO4)	mg/L	27	2	4		2	1996994	<2	<2	2	<2	2	1996994
Turbidity	NTU	120	1	700	670	10	1998656	>1000		10	120	1	1998661
Conductivity	uS/cm	370	1	100		1	1997476	65		1	54	1	1997476

N/A = Not Applicable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Elevated detection limit due to matrix interference.

Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

RESULTS OF ANALYSES OF WATER

Maxxam ID		EE0433			EE0434	EE0434		EE0439		EE0441		
Sampling Date		2009/10/21			2009/10/22	2009/10/22		2009/10/22		2009/10/22		
	Units	**AMEC4**	**RDL**	**QC Batch**	**09-SW1**	**09-SW1 Lab-Dup**	**RDL**	**09-SW5**	**RDL**	**09-SW6**	**RDL**	**QC Batch**
Calculated Parameters												
Anion Sum	me/L	0.200	N/A	1992944	0.420		N/A	0.400	N/A	0.590	N/A	1992944
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	6	1	1992939	9		1	10	1	20	1	1992939
Calculated TDS	mg/L	52	1	1992948	47		1	39	1	56	1	1992948
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	1	1992939	<1		1	<1	1	<1	1	1992939
Cation Sum	me/L	1.28	N/A	1992944	0.930		N/A	0.800	N/A	0.980	N/A	1992944
Hardness (CaCO3)	mg/L	22	1	1992942	24		1	22	1	27	1	1992942
Ion Balance (% Difference)	%	73.0	N/A	1992943	37.8		N/A	33.3	N/A	24.8	N/A	1992943
Langelier Index (@ 20C)	N/A	-3.18		1992946	-3.60			-3.90		-2.55		1992946
Langelier Index (@ 4C)	N/A	-3.43		1992947	-3.85			-4.15		-2.80		1992947
Nitrate (N)	mg/L	0.09	0.05	1992945	<0.05		0.05	<0.05	0.05	<0.05	0.05	1992945
Saturation pH (@ 20C)	N/A	9.75		1992946	9.59			9.59		9.18		1992946
Saturation pH (@ 4C)	N/A	10.0		1992947	9.84			9.84		9.43		1992947
Inorganics												
Total Alkalinity (Total as CaCO3)	mg/L	6	5	1996991	9		5	10	5	20	5	1996991
Dissolved Chloride (Cl)	mg/L	2	1	1996993	8		1	7	1	7	1	1996993
Colour	TCU	26	5	1996996	470		80	520	80	290	50	1996996
Nitrate + Nitrite	mg/L	0.09	0.05	1996998	<0.05		0.05	<0.05	0.05	<0.05	0.05	1996998
Nitrite (N)	mg/L	<0.01	0.01	1996999	<0.01		0.01	<0.01	0.01	<0.01	0.01	1996999
Nitrogen (Ammonia Nitrogen)	mg/L	0.08	0.05	1997510	<0.05		0.05	<0.05	0.05	<0.05	0.05	1997510
Total Organic Carbon (C)	mg/L	14(1)	5	1998426	73(1)	76(1)	50	55	5	27	3	1998458
Orthophosphate (P)	mg/L	<0.01	0.01	1996997	<0.01		0.01	<0.01	0.01	<0.01	0.01	1996997
pH	pH	6.57	N/A	1997467	5.99		N/A	5.69	N/A	6.63	N/A	1997467
Reactive Silica (SiO2)	mg/L	17	0.5	1996995	10		0.5	6.0	0.5	16	0.5	1996995
Dissolved Sulphate (SO4)	mg/L	<2	2	1996994	<2		2	<2	2	<2	2	1996994
Turbidity	NTU	280	1	1998661	270		1	4.5	0.1	7.0	0.1	1998661
Conductivity	uS/cm	25	1	1997476	60		1	69	1	76	1	1997476

N/A = Not Applicable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Elevated detection limit due to matrix interference.

Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

RESULTS OF ANALYSES OF WATER

Maxxam ID		EE0443		EE0445		EE0447		EE0448		
Sampling Date		2009/10/22		2009/10/22		2009/10/22		2009/10/22		
	Units	**09-SW7**	**RDL**	**09-SW8**	**RDL**	**09-SW9**	**RDL**	**09-SW10**	**RDL**	**QC Batch**
Calculated Parameters										
Anion Sum	me/L	0.0800	N/A	0.460	N/A	1.84	N/A	1.09	N/A	1992944
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	<1	1	19	1	80	1	50	1	1992939
Calculated TDS	mg/L	23	1	38	1	110	1	77	1	1992948
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	1	<1	1	<1	1	<1	1	1992939
Cation Sum	me/L	0.300	N/A	0.630	N/A	1.75	N/A	1.31	N/A	1992944
Hardness (CaCO3)	mg/L	8	1	22	1	75	1	47	1	1992942
Ion Balance (% Difference)	%	57.9	N/A	15.6	N/A	2.51	N/A	9.17	N/A	1992943
Langelier Index (@ 20C)	N/A	NC		-2.76		-1.43		-1.90		1992946
Langelier Index (@ 4C)	N/A	NC		-3.02		-1.68		-2.16		1992947
Nitrate (N)	mg/L	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	1992945
Saturation pH (@ 20C)	N/A	NC		9.18		8.03		8.56		1992946
Saturation pH (@ 4C)	N/A	NC		9.44		8.28		8.82		1992947
Inorganics										
Total Alkalinity (Total as CaCO3)	mg/L	<5	5	19	5	80	5	50	5	1996991
Dissolved Chloride (Cl)	mg/L	3	1	3	1	2	1	4	1	1996993
Colour	TCU	100	30	44	5	59	30	330	50	1996996
Nitrate + Nitrite	mg/L	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	1996998
Nitrite (N)	mg/L	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	1996999
Nitrogen (Ammonia Nitrogen)	mg/L	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	1997510
Total Organic Carbon (C)	mg/L	14	1	250(1)	50	210	30	23(1)	5	1998458
Orthophosphate (P)	mg/L	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	1996997
pH	pH	6.03	N/A	6.42	N/A	6.60	N/A	6.66	N/A	1997467
Reactive Silica (SiO2)	mg/L	14	0.5	11	0.5	16	0.5	17	0.5	1996995
Dissolved Sulphate (SO4)	mg/L	<2	2	<2	2	9	2	<2	2	1996994
Turbidity	NTU	2.3	0.1	>1000	10	>1000	10	34	0.1	1998661
Conductivity	uS/cm	27	1	55	1	150	1	96	1	1997476

N/A = Not Applicable
NC = Non-calculable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Elevated detection limit due to matrix interference.

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Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

MERCURY BY COLD VAPOUR AA (WATER)

Maxxam ID		EE0391	EE0392	EE0393	EE0394	EE0395	EE0396	EE0397	EE0398	EE0399	EE0400		
Sampling Date		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		
	Units	**09-MW1**	**09-MW2S**	**09-MW2D**	**09-MW3**	**09-MW4**	**09-MW5**	**09-MW6**	**09-MW7**	**09-MW8**	**09-MW9**	**RDL**	**QC Batch**
Metals													
Total Mercury (Hg)	ug/L	0.043	0.030	<0.013	0.045	0.043	0.027	<0.013	0.027	0.022	<0.013	0.013	1995109

Maxxam ID		EE0401		EE0402	EE0402	EE0403	EE0404	EE0405	EE0406	EE0407	EE0408		
Sampling Date		2009/10/20		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		
	Units	**09-MW10**	**QC Batch**	**09-MW11**	**09-MW11 Lab-Dup**	**09-MW12**	**09-MW13S**	**09-MW15**	**09-MW16**	**09-MW17**	**09-MW18**	**RDL**	**QC Batch**
Metals													
Total Mercury (Hg)	ug/L	0.027	1995109	0.028	0.027	0.24	0.052	<0.013	0.018	0.015	<0.013	0.013	1995110

Maxxam ID		EE0409	EE0410	EE0411	EE0412	EE0413	EE0414	EE0415	EE0416	EE0417	EE0418		
Sampling Date		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		
	Units	**09-MW19**	**09-MW20**	**09-MW14**	**09-MW21**	**09-MW22**	**09-MW23**	**09-MW25**	**09-MW27S**	**09-MW27D**	**09-MW28**	**RDL**	**QC Batch**
Metals													
Total Mercury (Hg)	ug/L	<0.013	0.068	0.038	0.13	0.033	0.80	0.083	0.23	0.12	1.1	0.013	1995110

Maxxam ID		EE0419	EE0420	EE0421		EE0422	EE0422	EE0423	EE0424	EE0425	EE0426		
Sampling Date		2009/10/20	2009/10/20	2009/10/20		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		
	Units	**09-MW29**	**09-MW30**	**09-MW31**	**QC Batch**	**09-MW32**	**09-MW32 Lab-Dup**	**09-MW33S**	**09-MW33D**	**09-MW34S**	**09-MW34D**	**RDL**	**QC Batch**
Metals													
Total Mercury (Hg)	ug/L	0.17	0.013	0.18	1995110	0.13	0.13	0.015	<0.013	0.025	0.080	0.013	1995111

Maxxam ID		EE0427	EE0428	EE0429	EE0430	EE0431	EE0432	EE0433	EE0434		
Sampling Date		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/21	2009/10/21	2009/10/22		
	Units	**09-MW35D**	**09-MW36**	**09-MW37**	**09-MW38**	**09-MW39**	**AMEC2**	**AMEC4**	**09-SW1**	**RDL**	**QC Batch**
Metals											
Total Mercury (Hg)	ug/L	<0.013	0.037	0.035	0.017	0.24	0.022	0.022	0.065	0.013	1995111

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

MERCURY BY COLD VAPOUR AA (WATER)

Maxxam ID		EE0439	EE0441	EE0443	EE0445	EE0447	EE0448		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SW5**	**09-SW6**	**09-SW7**	**09-SW8**	**09-SW9**	**09-SW10**	**RDL**	**QC Batch**
Metals									
Total Mercury (Hg)	ug/L	<0.013	0.022	<0.013	0.075	0.38	0.020	0.013	1995111

ELEMENTS BY ICP-AES (WATER)

Maxxam ID		EE0391	EE0392	EE0393	EE0394	EE0395	EE0396	EE0397	EE0398	EE0399	EE0400		
Sampling Date		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		
	Units	**09-MW1**	**09-MW2S**	**09-MW2D**	**09-MW3**	**09-MW4**	**09-MW5**	**09-MW6**	**09-MW7**	**09-MW8**	**09-MW9**	**RDL**	**QC Batch**
Metals													
Dissolved Calcium (Ca)	mg/L	18	45	13	6.5	26	11	19	55	23	24	0.1	1998048
Dissolved Magnesium (Mg)	mg/L	2.3	26	3.3	2.1	3.0	2.9	5.5	4.4	3.7	18	0.1	1998048
Dissolved Phosphorus (P)	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.0	<0.1	<0.1	<0.1	0.1	1998048
Dissolved Potassium (K)	mg/L	2.2	19	2.5	1.9	3.3	3.1	3.9	2.9	3.4	7.8	0.1	1998048
Dissolved Sodium (Na)	mg/L	3.7	23	5.8	3.3	2.5	3.9	6.3	3.0	3.6	6.9	0.1	1998048

Maxxam ID		EE0401	EE0401	EE0402	EE0403	EE0404	EE0405	EE0406	EE0407	EE0408	EE0409		
Sampling Date		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		
	Units	**09-MW10**	**09-MW10 Lab-Dup**	**09-MW11**	**09-MW12**	**09-MW13S**	**09-MW15**	**09-MW16**	**09-MW17**	**09-MW18**	**09-MW19**	**RDL**	**QC Batch**
Metals													
Dissolved Calcium (Ca)	mg/L	28	28	40	21	5.4	2.4	3.0	3.3	5.0	4.1	0.1	1998049
Dissolved Magnesium (Mg)	mg/L	0.7	0.7	3.1	3.0	1.7	0.5	0.7	0.6	0.5	0.6	0.1	1998049
Dissolved Phosphorus (P)	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1998049
Dissolved Potassium (K)	mg/L	26	26	3.2	1.7	1.1	1.0	0.7	1.4	0.7	0.9	0.1	1998049
Dissolved Sodium (Na)	mg/L	33	33	3.8	2.5	16	2.0	2.3	2.1	1.9	1.9	0.1	1998049

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ELEMENTS BY ICP-AES (WATER)

Maxxam ID		EE0410	EE0411	EE0412	EE0413	EE0414	EE0415	EE0416	EE0417	EE0418	EE0419		
Sampling Date		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		
	Units	**09-MW20**	**09-MW14**	**09-MW21**	**09-MW22**	**09-MW23**	**09-MW25**	**09-MW27S**	**09-MW27D**	**09-MW28**	**09-MW29**	**RDL**	**QC Batch**
Metals													
Dissolved Calcium (Ca)	mg/L	2.7	72	5.1	7.5	17	6.5	12	4.9	5.0	30	0.1	1998049
Dissolved Magnesium (Mg)	mg/L	0.4	9.2	1.2	1.2	5.4	3.6	6.1	3.4	3.4	13	0.1	1998049
Dissolved Phosphorus (P)	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	9.2	<0.1	0.2	0.1	1998049
Dissolved Potassium (K)	mg/L	0.7	4.1	1.3	1.6	3.6	2.5	5.3	9.5	2.5	13	0.1	1998049
Dissolved Sodium (Na)	mg/L	1.9	6.2	2.4	11	5.3	3.5	16	190	3.8	77	0.1	1998049

Maxxam ID		EE0420	EE0421		EE0422	EE0423	EE0423	EE0424	EE0425	EE0426	EE0427		
Sampling Date		2009/10/20	2009/10/20		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		
	Units	**09-MW30**	**09-MW31**	**QC Batch**	**09-MW32**	**09-MW33S**	**09-MW33S Lab-Dup**	**09-MW33D**	**09-MW34S**	**09-MW34D**	**09-MW35D**	**RDL**	**QC Batch**
Metals													
Dissolved Calcium (Ca)	mg/L	9.2	8.4	1998049	11	7.8	7.8	4.2	8.0	23	21	0.1	1998050
Dissolved Magnesium (Mg)	mg/L	1.6	2.1	1998049	5.5	1.1	1.1	3.6	1.6	12	12	0.1	1998050
Dissolved Phosphorus (P)	mg/L	<0.1	<0.1	1998049	1.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1998050
Dissolved Potassium (K)	mg/L	1.3	2.6	1998049	8.2	1.7	1.7	7.8	1.2	8.2	14	0.1	1998050
Dissolved Sodium (Na)	mg/L	2.6	3.7	1998049	57	3.2	3.2	11	5.5	9.2	26	0.1	1998050

Maxxam ID		EE0428	EE0429	EE0430	EE0431	EE0432	EE0433	EE0434		
Sampling Date		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/21	2009/10/21	2009/10/22		
	Units	**09-MW36**	**09-MW37**	**09-MW38**	**09-MW39**	**AMEC2**	**AMEC4**	**09-SW1**	**RDL**	**QC Batch**
Metals										
Dissolved Calcium (Ca)	mg/L	23	31	46	8.5	5.9	5.8	5.6	0.1	1998050
Dissolved Magnesium (Mg)	mg/L	0.5	13	26	1.7	1.0	1.7	2.4	0.1	1998050
Dissolved Phosphorus (P)	mg/L	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1998050
Dissolved Potassium (K)	mg/L	29	13	17	1.9	0.9	1.6	6.5	0.1	1998050
Dissolved Sodium (Na)	mg/L	35	78	23	3.1	4.2	16	2.8	0.1	1998050

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ELEMENTS BY ICP-AES (WATER)

Maxxam ID		EE0439	EE0441	EE0443	EE0445	EE0447	EE0448		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SW5**	**09-SW6**	**09-SW7**	**09-SW8**	**09-SW9**	**09-SW10**	**RDL**	**QC Batch**
Metals									
Dissolved Calcium (Ca)	mg/L	5.1	6.9	2.1	6.8	26	12	0.1	1998050
Dissolved Magnesium (Mg)	mg/L	2.2	2.4	0.6	1.3	2.5	4.2	0.1	1998050
Dissolved Phosphorus (P)	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1998050
Dissolved Potassium (K)	mg/L	8.5	2.2	0.4	2.1	2.8	4.5	0.1	1998050
Dissolved Sodium (Na)	mg/L	2.6	6.2	2.2	2.6	3.6	5.4	0.1	1998050

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Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		EE0391	EE0392	EE0393	EE0394	EE0395	EE0396	EE0397	EE0398	EE0399	EE0400		
Sampling Date		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		
	Units	**09-MW1**	**09-MW2S**	**09-MW2D**	**09-MW3**	**09-MW4**	**09-MW5**	**09-MW6**	**09-MW7**	**09-MW8**	**09-MW9**	**RDL**	**QC Batch**
Metals													
Dissolved Aluminum (Al)	ug/L	229	48.0	284	324	75.4	31.7	6200	126	248	<5.0	5.0	1995244
Dissolved Antimony (Sb)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995244
Dissolved Arsenic (As)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995244
Dissolved Barium (Ba)	ug/L	52.6	164	51.1	36.0	31.3	10.1	140	52.4	25.3	56.6	5.0	1995244
Dissolved Beryllium (Be)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995244
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995244
Dissolved Boron (B)	ug/L	<5.0	34.6	<5.0	14.1	8.0	<5.0	9.4	16.1	13.8	17.0	5.0	1995244
Dissolved Cadmium (Cd)	ug/L	<0.017	0.064	0.031	0.038	<0.017	<0.017	0.050	<0.017	<0.017	0.029	0.017	1995244
Dissolved Chromium (Cr)	ug/L	1.8	<1.0	2.5	2.1	2.3	<1.0	7.7	<1.0	1.6	<1.0	1.0	1995244
Dissolved Cobalt (Co)	ug/L	1.81	<0.40	2.53	1.83	6.77	<0.40	4.96	10.7	0.64	1.36	0.40	1995244
Dissolved Copper (Cu)	ug/L	<2.0	<2.0	<2.0	2.4	<2.0	2.8	23.5	<2.0	<2.0	<2.0	2.0	1995244
Dissolved Iron (Fe)	ug/L	3780	1170	12500	5980	27500	<50	4440	7030	2410	122	50	1995244
Dissolved Lead (Pb)	ug/L	0.77	<0.50	0.53	<0.50	<0.50	<0.50	2.62	<0.50	<0.50	<0.50	0.50	1995244
Dissolved Manganese (Mn)	ug/L	639	665	466	265	809	24.2	251	771	201	556	2.0	1995244
Dissolved Molybdenum (Mo)	ug/L	<2.0	17.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995244
Dissolved Nickel (Ni)	ug/L	2.5	<2.0	3.3	3.3	<2.0	2.2	4.6	6.3	<2.0	2.5	2.0	1995244
Dissolved Selenium (Se)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	1995244
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	1995244
Dissolved Strontium (Sr)	ug/L	63.1	465	96.6	68.1	166	87.6	124	279	130	202	5.0	1995244
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	1995244
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995244
Dissolved Titanium (Ti)	ug/L	5.2	3.4	4.0	4.9	3.3	<2.0	68.9	5.1	6.0	<2.0	2.0	1995244
Dissolved Uranium (U)	ug/L	0.13	0.89	0.17	<0.10	0.10	<0.10	0.80	<0.10	0.13	0.81	0.10	1995244
Dissolved Vanadium (V)	ug/L	5.0	2.5	4.2	3.9	6.0	<2.0	9.3	2.8	5.4	<2.0	2.0	1995244
Dissolved Zinc (Zn)	ug/L	13.4	9.5	11.8	10.6	11.6	21.0	37.8	22.8	<5.0	5.2	5.0	1995244

RDL = Reportable Detection Limit
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Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		EE0400	EE0401	EE0402	EE0403	EE0404	EE0405	EE0406	EE0407	EE0408	EE0409		
Sampling Date		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		
	Units	**09-MW9 Lab-Dup**	**09-MW10**	**09-MW11**	**09-MW12**	**09-MW13S**	**09-MW15**	**09-MW16**	**09-MW17**	**09-MW18**	**09-MW19**	**RDL**	**QC Batch**
Metals													
Dissolved Aluminum (Al)	ug/L	<5.0	154	68.2	574	533	305	417	160	122	206	5.0	1995244
Dissolved Antimony (Sb)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995244
Dissolved Arsenic (As)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995244
Dissolved Barium (Ba)	ug/L	57.5	22.5	31.2	21.2	14.2	28.0	25.9	23.7	15.7	21.1	5.0	1995244
Dissolved Beryllium (Be)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995244
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995244
Dissolved Boron (B)	ug/L	16.6	13.8	15.9	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	1995244
Dissolved Cadmium (Cd)	ug/L	0.021	<0.017	0.029	<0.017	0.051	0.037	<0.017	0.023	0.017	0.031	0.017	1995244
Dissolved Chromium (Cr)	ug/L	<1.0	2.8	1.0	3.3	1.3	1.3	2.3	<1.0	<1.0	1.1	1.0	1995244
Dissolved Cobalt (Co)	ug/L	1.37	<0.40	0.68	7.45	4.89	0.64	1.05	1.29	<0.40	1.32	0.40	1995244
Dissolved Copper (Cu)	ug/L	<2.0	6.8	3.8	12.6	2.7	3.2	<2.0	2.5	2.4	4.1	2.0	1995244
Dissolved Iron (Fe)	ug/L	119	<50	253	5360	3020	634	4520	4280	<50	1540	50	1995244
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	1995244
Dissolved Manganese (Mn)	ug/L	552	10.1	252	525	404	57.3	69.8	68.7	16.5	45.7	2.0	1995244
Dissolved Molybdenum (Mo)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995244
Dissolved Nickel (Ni)	ug/L	2.5	<2.0	<2.0	7.7	<2.0	<2.0	<2.0	3.6	<2.0	2.5	2.0	1995244
Dissolved Selenium (Se)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	1995244
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	1995244
Dissolved Strontium (Sr)	ug/L	206	198	192	118	49.1	31.1	33.8	32.3	36.1	35.8	5.0	1995244
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	1995244
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995244
Dissolved Titanium (Ti)	ug/L	<2.0	<2.0	<2.0	4.7	5.7	2.3	6.1	<2.0	<2.0	2.3	2.0	1995244
Dissolved Uranium (U)	ug/L	0.78	0.65	0.23	0.14	0.34	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	1995244
Dissolved Vanadium (V)	ug/L	<2.0	4.8	<2.0	5.2	3.8	2.7	9.7	<2.0	<2.0	<2.0	2.0	1995244
Dissolved Zinc (Zn)	ug/L	5.2	5.4	<5.0	18.7	19.0	13.8	7.7	26.2	12.9	22.7	5.0	1995244

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		EE0410		EE0411	EE0412	EE0412	EE0413	EE0414	EE0415	EE0416		
Sampling Date		2009/10/20		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		
	Units	**09-MW20**	**QC Batch**	**09-MW14**	**09-MW21**	**09-MW21 Lab-Dup**	**09-MW22**	**09-MW23**	**09-MW25**	**09-MW27S**	**RDL**	**QC Batch**
Metals												
Dissolved Aluminum (Al)	ug/L	400	1995244	545	541	533	236	32.8	75.6	598	5.0	1995759
Dissolved Antimony (Sb)	ug/L	<2.0	1995244	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995759
Dissolved Arsenic (As)	ug/L	<2.0	1995244	5.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995759
Dissolved Barium (Ba)	ug/L	11.7	1995244	127	34.7	35.8	33.3	29.9	11.5	15.7	5.0	1995759
Dissolved Beryllium (Be)	ug/L	<2.0	1995244	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995759
Dissolved Bismuth (Bi)	ug/L	<2.0	1995244	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995759
Dissolved Boron (B)	ug/L	<5.0	1995244	7.8	<5.0	<5.0	40.2	61.9	12.3	491	5.0	1995759
Dissolved Cadmium (Cd)	ug/L	<0.017	1995244	0.093	0.019	<0.017	<0.017	0.064	<0.017	0.560	0.017	1995759
Dissolved Chromium (Cr)	ug/L	1.2	1995244	9.6	1.1	1.0	1.1	<1.0	1.4	<1.0	1.0	1995759
Dissolved Cobalt (Co)	ug/L	0.95	1995244	24.2	2.89	2.90	2.04	3.00	<0.40	1.81	0.40	1995759
Dissolved Copper (Cu)	ug/L	<2.0	1995244	<2.0	7.9	7.6	7.4	7.2	2.4	17.9	2.0	1995759
Dissolved Iron (Fe)	ug/L	11200	1995244	36800	554	545	106	<50	<50	1110	50	1995759
Dissolved Lead (Pb)	ug/L	<0.50	1995244	0.85	5.15	5.05	<0.50	<0.50	2.79	1.43	0.50	1995759
Dissolved Manganese (Mn)	ug/L	42.1	1995244	5420	30.0	29.6	11.0	116	16.8	378	2.0	1995759
Dissolved Molybdenum (Mo)	ug/L	<2.0	1995244	5.1	<2.0	<2.0	<2.0	6.0	<2.0	3.7	2.0	1995759
Dissolved Nickel (Ni)	ug/L	<2.0	1995244	9.1	2.4	2.4	<2.0	3.3	<2.0	4.2	2.0	1995759
Dissolved Selenium (Se)	ug/L	<1.0	1995244	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	1995759
Dissolved Silver (Ag)	ug/L	<0.10	1995244	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	1995759
Dissolved Strontium (Sr)	ug/L	23.9	1995244	258	47.7	47.8	65.1	149	52.3	66.1	5.0	1995759
Dissolved Thallium (Tl)	ug/L	<0.10	1995244	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	1995759
Dissolved Tin (Sn)	ug/L	<2.0	1995244	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995759
Dissolved Titanium (Ti)	ug/L	7.4	1995244	18.8	16.3	15.6	2.4	<2.0	<2.0	15.1	2.0	1995759
Dissolved Uranium (U)	ug/L	<0.10	1995244	1.73	0.13	0.13	0.11	0.12	<0.10	0.12	0.10	1995759
Dissolved Vanadium (V)	ug/L	3.5	1995244	23.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995759
Dissolved Zinc (Zn)	ug/L	12.8	1995244	58.1	9.5	9.8	5.8	9.6	5.8	76.7	5.0	1995759

RDL = Reportable Detection Limit
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Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		EE0417		EE0418	EE0419	EE0420	EE0421	EE0422	EE0423	EE0424	EE0425		
Sampling Date		2009/10/20		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		
	Units	**09-MW27D**	**RDL**	**09-MW28**	**09-MW29**	**09-MW30**	**09-MW31**	**09-MW32**	**09-MW33S**	**09-MW33D**	**09-MW34S**	**RDL**	**QC Batch**
Metals													
Dissolved Aluminum (Al)	ug/L	908	50	77.9	43.4	320	196	425	59.4	33.0	772	5.0	1995759
Dissolved Antimony (Sb)	ug/L	<20	20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995759
Dissolved Arsenic (As)	ug/L	<20	20	<2.0	7.3	<2.0	<2.0	12.5	<2.0	<2.0	3.8	2.0	1995759
Dissolved Barium (Ba)	ug/L	<50	50	6.2	9.4	29.6	10.6	18.6	11.6	12.9	22.0	5.0	1995759
Dissolved Beryllium (Be)	ug/L	<20	20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995759
Dissolved Bismuth (Bi)	ug/L	<20	20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995759
Dissolved Boron (B)	ug/L	950	50	<5.0	323	7.8	11.8	268	<5.0	23.0	<5.0	5.0	1995759
Dissolved Cadmium (Cd)	ug/L	<0.17	0.17	0.111	0.047	<0.017	<0.017	<0.017	<0.017	0.038	0.019	0.017	1995759
Dissolved Chromium (Cr)	ug/L	<10	10	<1.0	1.1	1.4	1.2	2.7	<1.0	<1.0	2.5	1.0	1995759
Dissolved Cobalt (Co)	ug/L	<4.0	4.0	<0.40	0.55	1.43	0.78	0.40	0.46	<0.40	1.33	0.40	1995759
Dissolved Copper (Cu)	ug/L	<20	20	15.1	<2.0	<2.0	<2.0	4.2	<2.0	7.1	<2.0	2.0	1995759
Dissolved Iron (Fe)	ug/L	895	500	<50	124	3500	404	2160	65	<50	10200	50	1995759
Dissolved Lead (Pb)	ug/L	<5.0	5.0	<0.50	<0.50	<0.50	<0.50	0.90	<0.50	<0.50	<0.50	0.50	1995759
Dissolved Manganese (Mn)	ug/L	124	20	31.5	277	87.5	193	327	239	73.7	233	2.0	1995759
Dissolved Molybdenum (Mo)	ug/L	32	20	<2.0	12.0	<2.0	<2.0	3.5	<2.0	13.1	<2.0	2.0	1995759
Dissolved Nickel (Ni)	ug/L	<20	20	5.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995759
Dissolved Selenium (Se)	ug/L	<10	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	1995759
Dissolved Silver (Ag)	ug/L	<1.0	1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	1995759
Dissolved Strontium (Sr)	ug/L	62	50	48.7	162	64.4	58.0	79.2	38.0	38.6	37.5	5.0	1995759
Dissolved Thallium (Tl)	ug/L	<1.0	1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	1995759
Dissolved Tin (Sn)	ug/L	<20	20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995759
Dissolved Titanium (Ti)	ug/L	61	20	2.1	<2.0	4.2	5.0	53.1	3.3	<2.0	15.4	2.0	1995759
Dissolved Uranium (U)	ug/L	3.8	1.0	<0.10	0.68	<0.10	<0.10	0.97	<0.10	0.32	0.15	0.10	1995759
Dissolved Vanadium (V)	ug/L	20	20	<2.0	2.2	3.6	<2.0	11.3	<2.0	<2.0	7.7	2.0	1995759
Dissolved Zinc (Zn)	ug/L	<50	50	7.1	5.9	7.8	7.0	7.9	8.7	<5.0	8.1	5.0	1995759

RDL = Reportable Detection Limit
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Maxxam Analytics International Corporation o/a Maxxam Analytics 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel:902-420-0203 Toll-free:800-565-7227 Fax:902-420-8612 www.maxxamanalytics.com

Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		EE0426	EE0427	EE0428	EE0429	EE0430		EE0431	EE0431	EE0432	EE0433		
Sampling Date		2009/10/20	2009/10/20	2009/10/20	2009/10/20	2009/10/20		2009/10/20	2009/10/20	2009/10/21	2009/10/21		
	Units	**09-MW34D**	**09-MW35D**	**09-MW36**	**09-MW37**	**09-MW38**	**QC Batch**	**09-MW39**	**09-MW39 Lab-Dup**	**AMEC2**	**AMEC4**	**RDL**	**QC Batch**
Metals													
Dissolved Aluminum (Al)	ug/L	32.8	162	166	40.9	32.5	1995759	241	246	50.5	602	5.0	1995766
Dissolved Antimony (Sb)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	1995759	<2.0	<2.0	<2.0	<2.0	2.0	1995766
Dissolved Arsenic (As)	ug/L	<2.0	<2.0	<2.0	7.6	<2.0	1995759	<2.0	<2.0	<2.0	<2.0	2.0	1995766
Dissolved Barium (Ba)	ug/L	20.3	35.9	17.4	9.8	127	1995759	11.6	11.2	<5.0	14.9	5.0	1995766
Dissolved Beryllium (Be)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	1995759	<2.0	<2.0	<2.0	<2.0	2.0	1995766
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	1995759	<2.0	<2.0	<2.0	<2.0	2.0	1995766
Dissolved Boron (B)	ug/L	25.1	34.3	12.7	290	33.1	1995759	7.2	8.2	<5.0	<5.0	5.0	1995766
Dissolved Cadmium (Cd)	ug/L	0.020	0.108	<0.017	0.042	0.056	1995759	0.019	<0.017	<0.017	0.035	0.017	1995766
Dissolved Chromium (Cr)	ug/L	1.5	<1.0	3.0	1.0	<1.0	1995759	<1.0	1.1	<1.0	2.5	1.0	1995766
Dissolved Cobalt (Co)	ug/L	<0.40	<0.40	<0.40	0.53	<0.40	1995759	0.61	0.61	0.67	6.27	0.40	1995766
Dissolved Copper (Cu)	ug/L	<2.0	2.8	6.9	<2.0	<2.0	1995759	2.2	2.3	<2.0	6.5	2.0	1995766
Dissolved Iron (Fe)	ug/L	535	174	<50	140	1140	1995759	304	305	153	2750	50	1995766
Dissolved Lead (Pb)	ug/L	<0.50	0.90	<0.50	<0.50	<0.50	1995759	<0.50	<0.50	<0.50	1.00	0.50	1995766
Dissolved Manganese (Mn)	ug/L	428	93.8	12.4	295	711	1995759	131	135	185	542	2.0	1995766
Dissolved Molybdenum (Mo)	ug/L	<2.0	30.8	<2.0	12.2	13.7	1995759	<2.0	<2.0	<2.0	<2.0	2.0	1995766
Dissolved Nickel (Ni)	ug/L	<2.0	<2.0	2.4	<2.0	<2.0	1995759	<2.0	<2.0	<2.0	2.4	2.0	1995766
Dissolved Selenium (Se)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1995759	<1.0	<1.0	<1.0	<1.0	1.0	1995766
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	1995759	<0.10	<0.10	<0.10	<0.10	0.10	1995766
Dissolved Strontium (Sr)	ug/L	192	91.3	153	164	449	1995759	59.9	59.3	27.7	43.0	5.0	1995766
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	1995759	<0.10	<0.10	<0.10	<0.10	0.10	1995766
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	1995759	<2.0	<2.0	<2.0	<2.0	2.0	1995766
Dissolved Titanium (Ti)	ug/L	4.1	13.5	<2.0	<2.0	<2.0	1995759	6.8	6.5	<2.0	14.8	2.0	1995766
Dissolved Uranium (U)	ug/L	0.32	2.48	0.55	0.68	0.55	1995759	<0.10	<0.10	0.15	0.27	0.10	1995766
Dissolved Vanadium (V)	ug/L	3.1	<2.0	5.3	2.3	<2.0	1995759	<2.0	<2.0	<2.0	3.9	2.0	1995766
Dissolved Zinc (Zn)	ug/L	10.0	7.9	8.2	6.5	5.4	1995759	10.1	9.8	<5.0	20.2	5.0	1995766

RDL = Reportable Detection Limit
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Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		EE0434	EE0439	EE0441	EE0443	EE0445	EE0447	EE0448		
Sampling Date		2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22	2009/10/22		
	Units	**09-SW1**	**09-SW5**	**09-SW6**	**09-SW7**	**09-SW8**	**09-SW9**	**09-SW10**	**RDL**	**QC Batch**
Metals										
Dissolved Aluminum (Al)	ug/L	725	612	398	529	117	103	151	5.0	1995766
Dissolved Antimony (Sb)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995766
Dissolved Arsenic (As)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995766
Dissolved Barium (Ba)	ug/L	33.8	27.2	36.8	9.7	16.7	23.6	26.5	5.0	1995766
Dissolved Beryllium (Be)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995766
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995766
Dissolved Boron (B)	ug/L	<5.0	<5.0	492	<5.0	<5.0	20.2	<5.0	5.0	1995766
Dissolved Cadmium (Cd)	ug/L	0.041	0.086	0.071	<0.017	<0.017	0.024	0.027	0.017	1995766
Dissolved Chromium (Cr)	ug/L	10.0	6.3	10.2	1.4	1.3	1.3	<1.0	1.0	1995766
Dissolved Cobalt (Co)	ug/L	4.18	5.27	0.94	0.90	<0.40	1.29	1.51	0.40	1995766
Dissolved Copper (Cu)	ug/L	9.5	6.3	4.8	<2.0	<2.0	2.6	2.2	2.0	1995766
Dissolved Iron (Fe)	ug/L	4610	1020	3090	1120	484	830	1000	50	1995766
Dissolved Lead (Pb)	ug/L	1.02	66.3	2.97	<0.50	<0.50	<0.50	0.60	0.50	1995766
Dissolved Manganese (Mn)	ug/L	585	853	97.7	48.4	7.2	171	127	2.0	1995766
Dissolved Molybdenum (Mo)	ug/L	<2.0	<2.0	6.7	<2.0	<2.0	<2.0	<2.0	2.0	1995766
Dissolved Nickel (Ni)	ug/L	3.1	3.5	2.6	<2.0	<2.0	<2.0	<2.0	2.0	1995766
Dissolved Selenium (Se)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	1995766
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	1995766
Dissolved Strontium (Sr)	ug/L	49.7	38.6	51.7	21.4	49.5	152	86.3	5.0	1995766
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	1995766
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995766
Dissolved Titanium (Ti)	ug/L	12.2	3.9	5.7	5.3	<2.0	2.1	3.2	2.0	1995766
Dissolved Uranium (U)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	1995766
Dissolved Vanadium (V)	ug/L	2.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	1995766
Dissolved Zinc (Zn)	ug/L	22.4	32.7	26.7	<5.0	<5.0	17.2	117	5.0	1995766

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Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		EE0398		EE0410		EE0414	EE0414		
Sampling Date		2009/10/20		2009/10/20		2009/10/20	2009/10/20		
	Units	**09-MW7**	**RDL**	**09-MW20**	**RDL**	**09-MW23**	**09-MW23 Lab-Dup**	**RDL**	**QC Batch**
Polyaromatic Hydrocarbons									
1-Methylnaphthalene	ug/L	150(1)	0.5	2000	10	0.10	0.14	0.05	1997461
2-Methylnaphthalene	ug/L	200(1)	0.5	2600	10	0.15	0.24	0.05	1997461
Acenaphthene	ug/L	49(1)	0.1	97	2	0.76	1.1	0.01	1997461
Acenaphthylene	ug/L	2.1(1)	0.1	42	2	0.11	0.10	0.01	1997461
Acridine	ug/L	5.1	0.5	140	10	<0.05	0.05	0.05	1997448
Anthracene	ug/L	39	0.01	18	2	1.7	2.3	0.01	1997461
Benzo(a)anthracene	ug/L	51(1)	0.1	5.9	0.2	3.9	4.8	0.01	1997461
Benzo(a)pyrene	ug/L	42(1)	0.1	2.7	0.2	3.0	3.8	0.01	1997461
Benzo(b)fluoranthene	ug/L	35	0.01	2.5	0.2	2.4	3.2	0.01	1997461
Benzo(g,h,i)perylene	ug/L	25	0.01	1.3	0.2	1.7	2.3	0.01	1997461
Benzo(k)fluoranthene	ug/L	35	0.01	2.5	0.2	2.4	3.1	0.01	1997461
Chrysene	ug/L	53(1)	0.1	5.4	0.2	3.5	4.5	0.01	1997461
Dibenz(a,h)anthracene	ug/L	6.5	0.01	0.3	0.2	0.40	0.57	0.01	1997461
Fluoranthene	ug/L	160(1)	0.1	20	0.2	8.3	10	0.01	1997461
Fluorene	ug/L	49(1)	0.1	410	2	0.70	0.90	0.01	1997461
Indeno(1,2,3-cd)pyrene	ug/L	30	0.01	1.5	0.2	1.9	2.8	0.01	1997461
Naphthalene	ug/L	200(1)	2	570	40	0.3	0.7	0.2	1997461
Perylene	ug/L	11	0.01	1.1	0.2	0.96	1.2	0.01	1997461
Phenanthrene	ug/L	130(1)	0.1	250	2	5.6	7.1	0.01	1997461
Pyrene	ug/L	130(1)	0.1	16	0.2	6.6	7.9	0.01	1997461
Quinoline	ug/L	<0.5	0.5	34	10	<0.05	<0.05	0.05	1997448
Surrogate Recovery (%)									
D10-Anthracene	%	125		COMMENT(2)		69	68		1997461
D14-Terphenyl	%	82(3)		109(1)		54(4)	51(4)		1997461
D8-Acenaphthylene	%	188(5)		COMMENT(2)		82	76		1997461

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Elevated PAH RDL(s) due to sample dilution.
(2) - PAH surrogate(s) unavailable due to sample dilution / product interference.
(3) - PAH sample contained sediment.
(4) - PAH sample contained sediment. PAH surrogate(s) not within acceptance limits. Analysis was repeated with similar results.
(5) - PAH surrogate(s) not within acceptance limits due to sample dilution / product interference.

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Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

ATLANTIC RBCA HYDROCARBONS (WATER)

Maxxam ID		EE0395		EE0398		EE0406		EE0410		
Sampling Date		2009/10/20		2009/10/20		2009/10/20		2009/10/20		
	Units	**09-MW4**	**RDL**	**09-MW7**	**RDL**	**09-MW16**	**RDL**	**09-MW20**	**RDL**	**QC Batch**
Petroleum Hydrocarbons										
Benzene	mg/L	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	1995646
Toluene	mg/L	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	1995646
Ethylbenzene	mg/L	0.07	0.01	0.02	0.01	<0.01	0.01	0.02	0.01	1995646
Xylene (Total)	mg/L	0.58	0.02	0.05	0.02	<0.01	0.01	0.09	0.02	1995646
Aliphatic >C6-C8	mg/L	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	1995646
Aliphatic >C8-C10	mg/L	0.3	0.1	0.2	0.1	<0.1	0.1	0.2	0.1	1995646
>C8-C10 Aromatics (-EX)	mg/L	0.9	0.1	0.2	0.1	0.2	0.1	0.3	0.1	1995646
Aliphatic >C10-C12	mg/L	160	1	5.2	0.01	37	0.5	110	1	1998237
Aliphatic >C12-C16	mg/L	260	6	13	0.05	100	3	320	5	1998237
Aliphatic >C16-C21	mg/L	26	6	2.9	0.05	30	3	100	5	1998237
Aliphatic >C21-<C32	mg/L	1.3	0.1	0.2	0.1	1.4	0.1	6.0	0.1	1998237
Aromatic >C10-C12	mg/L	25	1	1.2	0.01	8.1	0.01	34	1	1998237
Aromatic >C12-C16	mg/L	54	6	3.9	0.05	38	3	130	5	1998237
Aromatic >C16-C21	mg/L	11	6	1.7	0.05	15	3	51	5	1998237
Aromatic >C21-<C32	mg/L	0.9	0.1	0.2	0.1	1.2	0.1	4.4	0.1	1998237
Modified TPH (Tier 2)	mg/L	540	6	29	0.1	230	3	760	5	1993262
Surrogate Recovery (%)										
Isobutylbenzene - Extractable	%	6050(1)		54		208(1)		508(1)		1998237
Isobutylbenzene - Volatile	%	114(2)		119(2)		118(2)		102(2)		1995646
n-Dotriacontane - Extractable	%	224(3)		82(4)		82(5)		196(6)		1998237

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - TEH surrogate(s) not within acceptance limits due to sample dilution / product interference.
(2) - Elevated VPH RDL(s) due to sample dilution.
(3) - Fuel oil fraction. Elevated TEH RDL(s) due to insufficient sample. Elevated TEH RDL(s) due to sample dilution. TEH sample contained sediment. TEH surrogate(s) not within acceptance limits due to sample dilution / product interference.
(4) - Fuel oil fraction. TEH sample decanted due to sediment.
(5) - Fuel oil fraction. TEH sample contained sediment. Elevated TEH RDL(s) due to sample dilution.
(6) - Fuel oil fraction. Elevated TEH RDL(s) due to sample dilution. TEH sample decanted due to sediment. TEH surrogate(s) not within acceptance limits due to sample dilution / product interference.

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GENERAL COMMENTS

Sample EE0391-01: Poor RCAp Ion Balance due to sample matrix. Possibly due to fine particulate matter.

Sample EE0392-01: Poor RCAp Ion Balance due to probable sampling error. Dissolved Metals tube for EE0392 and EE0393 may have been reversed in field. Sample labels verified in lab. Dissolved metals values verified in lab.

Sample EE0393-01: Poor RCAp Ion Balance due to probable sampling error. Dissolved Metals tube for EE0392 and EE0393 may have been reversed in field. Sample labels verified in lab. Dissolved metals values verified in lab.

Sample EE0394-01: Poor RCAp Ion Balance due to sample matrix. Possible presence of fine particulate and/or iron precipitate.

Sample EE0395-01: Poor RCAp Ion Balance due to sample matrix. Possible presence of fine particulate and/or iron precipitate.

Sample EE0397-01: Poor RCAp Ion Balance due to sample matrix. Possible presence of fine particulate and/or iron precipitate.

Sample EE0399-01: Poor RCAp Ion Balance due to sample matrix. Possible presence of fine particulate and/or iron precipitate.

Sample EE0403-01: Poor RCAp Ion Balance due to sample matrix. Possibly due to fine particulate matter.

Sample EE0404-01: Poor RCAp Ion Balance due to sample matrix. Possibly due to fine particulate matter.

Sample EE0405-01: RCAp Ion Balance acceptable. Low ionic strength sample.

Sample EE0406-01: RCAp Ion Balance acceptable. Low ionic strength sample.

Sample EE0407-01: RCAp Ion Balance acceptable. Low ionic strength sample.

Sample EE0408-01: RCAp Ion Balance acceptable. Low ionic strength sample.

Sample EE0409-01: RCAp Ion Balance acceptable. Low ionic strength sample.

Sample EE0410-01: RCAp Ion Balance acceptable. Low ionic strength sample.

Sample EE0411-01: Poor RCAp Ion Balance due to sample matrix. Possible presence of fine particulate and/or iron precipitate. Moisture value reported is a visual estimate for calculation purposes.

Sample EE0413-01: RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample EE0415-01: RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

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Sample EE0416-01: Poor RCAp Ion Balance due to sample matrix. Possibly due to fine particulate matter.

Sample EE0417-01: Elevated reporting limits for trace metals due to a high boron content.

Poor RCAp Ion Balance due to sample matrix. Possibly due to fine particulate matter.

Sample EE0419-01: Poor RCAp Ion Balance due to sample matrix. Excess cations due to possible presence of fine particulate.

Sample EE0420-01: RCAp Ion Balance acceptable. Low ionic strength sample.

Sample EE0421-01: RCAp Ion Balance acceptable. Low ionic strength sample.

Sample EE0422-01: Poor RCAp Ion Balance due to sample matrix. Excess cations due to possible presence of fine particulate.

Sample EE0425-01: RCAp Ion Balance acceptable. Low ionic strength sample.

Sample EE0429-01: Poor RCAp Ion Balance due to sample matrix. Excess cations due to possible presence of fine particulate.

Sample EE0430-01: Poor RCAp Ion Balance due to sample matrix. Excess cations due to possible presence of fine particulate.

Sample EE0431-01: RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample EE0433-01: RCAp Ion Balance acceptable. Low ionic strength sample.

Sample EE0434-01: RCAp Ion Balance acceptable. Low ionic strength sample.

Sample EE0439-01: RCAp Ion Balance acceptable. Low ionic strength sample.

Sample EE0441-01: RCAp Ion Balance acceptable. Low ionic strength sample.

Sample EE0443-01: RCAp Ion Balance acceptable. Low ionic strength sample.

Sample EE0445-01: RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample EE0448-01: RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample EE0490-01: Elevated reporting limits for trace metals due to matrix interferences.

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QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
1993958	Isobutylbenzene - Volatile	2009/10/29	95	60 - 140	102	60 - 140	102	%				
1993958	Benzene	2009/10/29	100	60 - 140	97	60 - 140	<0.03	mg/kg	NC	50		
1993958	Toluene	2009/10/29	127	60 - 140	101	60 - 140	<0.03	mg/kg	NC	50		
1993958	Ethylbenzene	2009/10/29	118	60 - 140	96	60 - 140	<0.03	mg/kg	NC	50		
1993958	Xylene (Total)	2009/10/29	125	60 - 140	97	60 - 140	<0.05	mg/kg	NC	50		
1993958	C6 - C10 (less BTEX)	2009/10/29					<3	mg/kg	NC	50		
1994277	Decachlorobiphenyl	2009/11/02	96	30 - 130	92	30 - 130	92	%				
1994277	Total PCB	2009/11/02	100	70 - 130	100	70 - 130	<0.05	ug/g	NC	50		
1994358	D10-Anthracene	2009/11/06	85	30 - 130	107	30 - 130	78	%				
1994358	D14-Terphenyl	2009/11/06	81	30 - 130	116	30 - 130	81	%				
1994358	D8-Acenaphthylene	2009/11/06	75	30 - 130	87	30 - 130	70	%				
1994358	1-Methylnaphthalene	2009/11/06	64(1)	30 - 130	77	30 - 130	<0.005	mg/kg	NC	50		
1994358	2-Methylnaphthalene	2009/11/06	66(1)	30 - 130	78	30 - 130	<0.005	mg/kg	NC	50		
1994358	Acenaphthene	2009/11/06	45(1)	30 - 130	79	30 - 130	<0.005	mg/kg	3.7	50		
1994358	Acenaphthylene	2009/11/06	69(1)	30 - 130	72	30 - 130	<0.005	mg/kg	NC	50		
1994358	Anthracene	2009/11/06	NC	30 - 130	83	30 - 130	<0.005	mg/kg	18.2	50		
1994358	Benzo(a)anthracene	2009/11/06	NC	30 - 130	86	30 - 130	<0.005	mg/kg	2.9	50		
1994358	Benzo(a)pyrene	2009/11/06	NC	30 - 130	90	30 - 130	<0.005	mg/kg	0.4	50		
1994358	Benzo(b)fluoranthene	2009/11/06	NC	30 - 130	97	30 - 130	<0.005	mg/kg	2.7	50		
1994358	Benzo(g,h,i)perylene	2009/11/06	NC	30 - 130	88	30 - 130	<0.005	mg/kg	0.7	50		
1994358	Benzo(k)fluoranthene	2009/11/06	NC	30 - 130	97	30 - 130	<0.005	mg/kg	4.5	50		
1994358	Chrysene	2009/11/06	NC	30 - 130	100	30 - 130	<0.005	mg/kg	2.1	50		
1994358	Dibenz(a,h)anthracene	2009/11/06	56(1)	30 - 130	81	30 - 130	<0.005	mg/kg	4.3	50		
1994358	Fluoranthene	2009/11/06	NC	30 - 130	101	30 - 130	<0.005	mg/kg	3.0	50		
1994358	Fluorene	2009/11/06	53(1)	30 - 130	77	30 - 130	<0.005	mg/kg	16.4	50		
1994358	Indeno(1,2,3-cd)pyrene	2009/11/06	NC	30 - 130	74	30 - 130	<0.005	mg/kg	1.6	50		
1994358	Naphthalene	2009/11/06	55(1)	30 - 130	77	30 - 130	<0.005	mg/kg	NC	50		
1994358	Perylene	2009/11/06	49(1)	30 - 130	86	30 - 130	<0.005	mg/kg	23.3	50		
1994358	Phenanthrene	2009/11/06	NC	30 - 130	93	30 - 130	<0.005	mg/kg	11.3	50		
1994358	Pyrene	2009/11/06	NC	30 - 130	101	30 - 130	<0.005	mg/kg	3.1	50		
1994391	Isobutylbenzene - Extractable	2009/10/30	108	30 - 130	98	30 - 130	99	%				
1994391	n-Dotriacontane - Extractable	2009/10/30	114	30 - 130	98	30 - 130	97	%				
1994391	>C10-C21 Hydrocarbons	2009/10/30	91	30 - 130	102	30 - 130	<15	mg/kg	NC	50		
1994391	>C21-<C32 Hydrocarbons	2009/10/30	99	30 - 130	112	30 - 130	<15	mg/kg	13.4	50		
1995109	Total Mercury (Hg)	2009/10/29	102	80 - 120	94	80 - 120	<0.013	ug/L	NC	25	99	80 - 120
1995110	Total Mercury (Hg)	2009/10/29	100	80 - 120	104	80 - 120	<0.013	ug/L	NC	25	101	80 - 120
1995111	Total Mercury (Hg)	2009/10/29	NC	80 - 120	104	80 - 120	<0.013	ug/L	3.9	25	102	80 - 120
1995244	Dissolved Aluminum (Al)	2009/10/30	NC	80 - 120	105	80 - 120	<5.0	ug/L	NC	35	104	80 - 120
1995244	Dissolved Antimony (Sb)	2009/10/30	101	80 - 120	102	80 - 120	<2.0	ug/L	NC	25	107	80 - 120

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Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	%Recovery	QC Limits	%Recovery	QC Limits	Value	Units	Value (%)	QC Limits	%Recovery	QC Limits
1995244	Dissolved Arsenic (As)	2009/10/30	116	80 - 120	104	80 - 120	<2.0	ug/L	NC	25	89	80 - 120
1995244	Dissolved Barium (Ba)	2009/10/30	NC	80 - 120	106	80 - 120	<5.0	ug/L	1.5	25	101	80 - 120
1995244	Dissolved Beryllium (Be)	2009/10/30	123(2, 3)	80 - 120	104	80 - 120	<2.0	ug/L	NC	25	82	80 - 120
1995244	Dissolved Bismuth (Bi)	2009/10/30	85	80 - 120	101	80 - 120	<2.0	ug/L	NC	25	90	80 - 120
1995244	Dissolved Boron (B)	2009/10/30	117	80 - 120	99	80 - 120	<5.0	ug/L	NC	25	91	80 - 120
1995244	Dissolved Cadmium (Cd)	2009/10/30	110	80 - 120	103	80 - 120	<0.017	ug/L	NC	25	95	80 - 120
1995244	Dissolved Chromium (Cr)	2009/10/30	103	80 - 120	107	80 - 120	<1.0	ug/L	NC	25	100	80 - 120
1995244	Dissolved Cobalt (Co)	2009/10/30	101	80 - 120	107	80 - 120	<0.40	ug/L	NC	25	95	80 - 120
1995244	Dissolved Copper (Cu)	2009/10/30	104	80 - 120	106	80 - 120	<2.0	ug/L	NC	25	87	80 - 120
1995244	Dissolved Lead (Pb)	2009/10/30	108	80 - 120	101	80 - 120	<0.50	ug/L	NC	25	91	80 - 120
1995244	Dissolved Manganese (Mn)	2009/10/30	NC	80 - 120	103	80 - 120	<2.0	ug/L	0.7	25	95	80 - 120
1995244	Dissolved Molybdenum (Mo)	2009/10/30	99	80 - 120	107	80 - 120	<2.0	ug/L	NC	25	104	80 - 120
1995244	Dissolved Nickel (Ni)	2009/10/30	104	80 - 120	109	80 - 120	<2.0	ug/L	NC	25	90	80 - 120
1995244	Dissolved Selenium (Se)	2009/10/30	118	80 - 120	99	80 - 120	<1.0	ug/L	NC	25	83	80 - 120
1995244	Dissolved Silver (Ag)	2009/10/30	94	80 - 120	91	80 - 120	<0.10	ug/L	NC	25	82	80 - 120
1995244	Dissolved Strontium (Sr)	2009/10/30	NC	80 - 120	109	80 - 120	<5.0	ug/L	2.0	25	99	80 - 120
1995244	Dissolved Thallium (Tl)	2009/10/30	106	80 - 120	104	80 - 120	<0.10	ug/L	NC	25	88	80 - 120
1995244	Dissolved Tin (Sn)	2009/10/30	96	80 - 120	108	80 - 120	<2.0	ug/L	NC	25		
1995244	Dissolved Titanium (Ti)	2009/10/30	103	80 - 120	103	80 - 120	<2.0	ug/L	NC	25		
1995244	Dissolved Uranium (U)	2009/10/30	105	80 - 120	103	80 - 120	<0.10	ug/L	4.0	25		
1995244	Dissolved Vanadium (V)	2009/10/30	104	80 - 120	107	80 - 120	<2.0	ug/L	NC	25	98	80 - 120
1995244	Dissolved Zinc (Zn)	2009/10/30	125(2, 3)	80 - 120	111	80 - 120	<5.0	ug/L	NC	25	95	80 - 120
1995244	Dissolved Iron (Fe)	2009/10/30					<50	ug/L	NC	25	97	80 - 120
1995646	Isobutylbenzene - Volatile	2009/10/31			104	70 - 130	120	%				
1995646	Benzene	2009/10/31			96	70 - 130	<0.001	mg/L				
1995646	Toluene	2009/10/31			104	70 - 130	<0.001	mg/L				
1995646	Ethylbenzene	2009/10/31			104	70 - 130	<0.001	mg/L				
1995646	Xylene (Total)	2009/10/31			109	70 - 130	<0.002	mg/L				
1995646	Aliphatic >C6-C8	2009/10/31					<0.01	mg/L				
1995646	Aliphatic >C8-C10	2009/10/31					<0.01	mg/L				
1995646	>C8-C10 Aromatics (-EX)	2009/10/31					<0.01	mg/L				
1995672	Available Aluminum (Al)	2009/10/30	NC	75 - 125	100	75 - 125	<10	mg/kg	7.0	35	89	75 - 125
1995672	Available Antimony (Sb)	2009/10/30	100	75 - 125	107	75 - 125	<2	mg/kg	NC	35		
1995672	Available Arsenic (As)	2009/10/30	100	75 - 125	91	75 - 125	<2	mg/kg	NC	35	114	75 - 125
1995672	Available Barium (Ba)	2009/10/30	NC	75 - 125	96	75 - 125	<5	mg/kg	10.8	35	108	75 - 125
1995672	Available Beryllium (Be)	2009/10/30	94	75 - 125	94	75 - 125	<2	mg/kg	NC	35		
1995672	Available Bismuth (Bi)	2009/10/30	99	75 - 125	98	75 - 125	<2	mg/kg	NC	N/A		
1995672	Available Boron (B)	2009/10/30	94	75 - 125	91	75 - 125	<5	mg/kg	NC	35		
1995672	Available Cadmium (Cd)	2009/10/30	100	75 - 125	93	75 - 125	<0.3	mg/kg	NC	35		

Maxxam Job #: A9E4696
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QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	%Recovery	QC Limits	%Recovery	QC Limits	Value	Units	Value (%)	QC Limits	%Recovery	QC Limits
1995672	Available Chromium (Cr)	2009/10/30	NC	75 - 125	98	75 - 125	<2	mg/kg	3.4	35	91	75 - 125
1995672	Available Cobalt (Co)	2009/10/30	100	75 - 125	98	75 - 125	<1	mg/kg	NC	35	98	75 - 125
1995672	Available Copper (Cu)	2009/10/30	92	75 - 125	98	75 - 125	<2	mg/kg	NC	35	97	75 - 125
1995672	Available Iron (Fe)	2009/10/30	NC	75 - 125	94	75 - 125	<50	mg/kg	9.8	35	98	75 - 125
1995672	Available Lead (Pb)	2009/10/30	98	75 - 125	96	75 - 125	<0.5	mg/kg	7.5	35	101	75 - 125
1995672	Available Lithium (Li)	2009/10/30	90	75 - 125	93	75 - 125	<2	mg/kg	NC	N/A		
1995672	Available Manganese (Mn)	2009/10/30	NC	75 - 125	97	75 - 125	<2	mg/kg	8.4	35	107	75 - 125
1995672	Available Mercury (Hg)	2009/10/30	102	75 - 125	110	75 - 125	<0.1	mg/kg	NC	N/A		
1995672	Available Molybdenum (Mo)	2009/10/30	102	75 - 125	100	75 - 125	<2	mg/kg	NC	35		
1995672	Available Nickel (Ni)	2009/10/30	93	75 - 125	99	75 - 125	<2	mg/kg	NC	35	104	75 - 125
1995672	Available Rubidium (Rb)	2009/10/30	NC	75 - 125	96	75 - 125	<2	mg/kg	11.9	N/A		
1995672	Available Selenium (Se)	2009/10/30	92	75 - 125	85	75 - 125	<1	mg/kg	NC	35		
1995672	Available Silver (Ag)	2009/10/30	105	75 - 125	99	75 - 125	<0.5	mg/kg	NC	35		
1995672	Available Strontium (Sr)	2009/10/30	NC	75 - 125	94	75 - 125	<5	mg/kg	NC	35	94	75 - 125
1995672	Available Thallium (Tl)	2009/10/30	89	75 - 125	91	75 - 125	<0.1	mg/kg	NC	35		
1995672	Available Tin (Sn)	2009/10/30	108	75 - 125	106	75 - 125	<2	mg/kg	NC	N/A		
1995672	Available Uranium (U)	2009/10/30	96	75 - 125	93	75 - 125	<0.1	mg/kg	NC	35		
1995672	Available Vanadium (V)	2009/10/30	NC	75 - 125	104	75 - 125	<2	mg/kg	1.9	35	111	75 - 125
1995672	Available Zinc (Zn)	2009/10/30	93	75 - 125	89	75 - 125	<5	mg/kg	NC	35	103	75 - 125
1995759	Dissolved Aluminum (Al)	2009/10/30	NC	80 - 120	104	80 - 120	<5.0	ug/L	1.5	35	102	80 - 120
1995759	Dissolved Antimony (Sb)	2009/10/30	98	80 - 120	100	80 - 120	<2.0	ug/L	NC	25	109	80 - 120
1995759	Dissolved Arsenic (As)	2009/10/30	117	80 - 120	108	80 - 120	<2.0	ug/L	NC	25	91	80 - 120
1995759	Dissolved Barium (Ba)	2009/10/30	NC	80 - 120	111	80 - 120	<5.0	ug/L	3.0	25	99	80 - 120
1995759	Dissolved Beryllium (Be)	2009/10/30	110	80 - 120	108	80 - 120	<2.0	ug/L	NC	25	83	80 - 120
1995759	Dissolved Bismuth (Bi)	2009/10/30	92	80 - 120	109	80 - 120	<2.0	ug/L	NC	25	94	80 - 120
1995759	Dissolved Boron (B)	2009/10/30	NC	80 - 120	111	80 - 120	<5.0	ug/L	NC	25	86	80 - 120
1995759	Dissolved Cadmium (Cd)	2009/10/30	109	80 - 120	106	80 - 120	<0.017	ug/L	NC	25	99	80 - 120
1995759	Dissolved Chromium (Cr)	2009/10/30	106	80 - 120	105	80 - 120	<1.0	ug/L	NC	25	100	80 - 120
1995759	Dissolved Cobalt (Co)	2009/10/30	109	80 - 120	108	80 - 120	<0.40	ug/L	0.2	25	97	80 - 120
1995759	Dissolved Copper (Cu)	2009/10/30	105	80 - 120	107	80 - 120	<2.0	ug/L	NC	25	89	80 - 120
1995759	Dissolved Lead (Pb)	2009/10/30	109	80 - 120	105	80 - 120	<0.50	ug/L	1.9	25	94	80 - 120
1995759	Dissolved Manganese (Mn)	2009/10/30	95	80 - 120	104	80 - 120	<2.0	ug/L	1.3	25	93	80 - 120
1995759	Dissolved Molybdenum (Mo)	2009/10/30	102	80 - 120	107	80 - 120	<2.0	ug/L	NC	25	106	80 - 120
1995759	Dissolved Nickel (Ni)	2009/10/30	109	80 - 120	105	80 - 120	<2.0	ug/L	NC	25	91	80 - 120
1995759	Dissolved Selenium (Se)	2009/10/30	116	80 - 120	105	80 - 120	<1.0	ug/L	NC	25	80	80 - 120
1995759	Dissolved Silver (Ag)	2009/10/30	91	80 - 120	97	80 - 120	<0.10	ug/L	NC	25	85	80 - 120
1995759	Dissolved Strontium (Sr)	2009/10/30	NC	80 - 120	108	80 - 120	<5.0	ug/L	0.02	25	100	80 - 120
1995759	Dissolved Thallium (Tl)	2009/10/30	110	80 - 120	99	80 - 120	<0.10	ug/L	NC	25	94	80 - 120
1995759	Dissolved Tin (Sn)	2009/10/30	97	80 - 120	105	80 - 120	<2.0	ug/L	NC	25		

Maxxam Analytics International Corporation o/a Maxxam Analytics 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel:902-420-0203 Toll-free:800-565-7227 Fax:902-420-8612 www.maxxamanalytics.com

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Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	%Recovery	QC Limits	%Recovery	QC Limits	Value	Units	Value (%)	QC Limits	%Recovery	QC Limits
1995759	Dissolved Titanium (Ti)	2009/10/30	104	80 - 120	103	80 - 120	<2.0	ug/L	4.8	25		
1995759	Dissolved Uranium (U)	2009/10/30	115	80 - 120	106	80 - 120	<0.10	ug/L	NC	25		
1995759	Dissolved Vanadium (V)	2009/10/30	107	80 - 120	103	80 - 120	<2.0	ug/L	NC	25	101	80 - 120
1995759	Dissolved Zinc (Zn)	2009/10/30	123(2, 3)	80 - 120	115	80 - 120	<5.0	ug/L	NC	25	80	80 - 120
1995759	Dissolved Iron (Fe)	2009/10/30					<50	ug/L	1.6	25	107	80 - 120
1995766	Dissolved Aluminum (Al)	2009/10/30	NC	80 - 120	110	80 - 120	<5.0	ug/L	2.1	35	105	80 - 120
1995766	Dissolved Antimony (Sb)	2009/10/30	102	80 - 120	102	80 - 120	<2.0	ug/L	NC	25	110	80 - 120
1995766	Dissolved Arsenic (As)	2009/10/30	124(2, 3)	80 - 120	113	80 - 120	<2.0	ug/L	NC	25	91	80 - 120
1995766	Dissolved Barium (Ba)	2009/10/30	110	80 - 120	105	80 - 120	<5.0	ug/L	NC	25	101	80 - 120
1995766	Dissolved Beryllium (Be)	2009/10/30	106	80 - 120	103	80 - 120	<2.0	ug/L	NC	25	78(2, 4)	80 - 120
1995766	Dissolved Bismuth (Bi)	2009/10/30	78(2, 3)	80 - 120	110	80 - 120	<2.0	ug/L	NC	25	95	80 - 120
1995766	Dissolved Boron (B)	2009/10/30	88	80 - 120	91	80 - 120	<5.0	ug/L	NC	25	87	80 - 120
1995766	Dissolved Cadmium (Cd)	2009/10/30	120	80 - 120	111	80 - 120	<0.017	ug/L	NC	25	102	80 - 120
1995766	Dissolved Chromium (Cr)	2009/10/30	100	80 - 120	97	80 - 120	<1.0	ug/L	NC	25	102	80 - 120
1995766	Dissolved Cobalt (Co)	2009/10/30	108	80 - 120	106	80 - 120	<0.40	ug/L	NC	25	100	80 - 120
1995766	Dissolved Copper (Cu)	2009/10/30	100	80 - 120	101	80 - 120	<2.0	ug/L	NC	25	90	80 - 120
1995766	Dissolved Lead (Pb)	2009/10/30	106	80 - 120	105	80 - 120	<0.50	ug/L	NC	25	92	80 - 120
1995766	Dissolved Manganese (Mn)	2009/10/30	NC	80 - 120	105	80 - 120	<2.0	ug/L	2.5	25	96	80 - 120
1995766	Dissolved Molybdenum (Mo)	2009/10/30	111	80 - 120	114	80 - 120	<2.0	ug/L	NC	25	110	80 - 120
1995766	Dissolved Nickel (Ni)	2009/10/30	105	80 - 120	105	80 - 120	<2.0	ug/L	NC	25	97	80 - 120
1995766	Dissolved Selenium (Se)	2009/10/30	121(2, 3)	80 - 120	109	80 - 120	<1.0	ug/L	NC	25	83	80 - 120
1995766	Dissolved Silver (Ag)	2009/10/30	94	80 - 120	92	80 - 120	<0.10	ug/L	NC	25	87	80 - 120
1995766	Dissolved Strontium (Sr)	2009/10/30	NC	80 - 120	108	80 - 120	<5.0	ug/L	0.9	25	96	80 - 120
1995766	Dissolved Thallium (Tl)	2009/10/30	103	80 - 120	102	80 - 120	<0.10	ug/L	NC	25	91	80 - 120
1995766	Dissolved Tin (Sn)	2009/10/30	110	80 - 120	119	80 - 120	<2.0	ug/L	NC	25		
1995766	Dissolved Titanium (Ti)	2009/10/30	108	80 - 120	105	80 - 120	<2.0	ug/L	NC	25		
1995766	Dissolved Uranium (U)	2009/10/30	111	80 - 120	108	80 - 120	<0.10	ug/L	NC	25		
1995766	Dissolved Vanadium (V)	2009/10/30	105	80 - 120	105	80 - 120	<2.0	ug/L	NC	25	103	80 - 120
1995766	Dissolved Zinc (Zn)	2009/10/30	132(2, 5)	80 - 120	118	80 - 120	<5.0	ug/L	NC	25	95	80 - 120
1995766	Dissolved Iron (Fe)	2009/10/30					<50	ug/L	0.2	25	94	80 - 120
1995798	Available Aluminum (Al)	2009/10/30	NC	75 - 125	102	75 - 125	<10	mg/kg	2.0	35	87	75 - 125
1995798	Available Antimony (Sb)	2009/10/30	88	75 - 125	104	75 - 125	<2	mg/kg	NC	35		
1995798	Available Arsenic (As)	2009/10/30	101	75 - 125	93	75 - 125	<2	mg/kg	NC	35	123	75 - 125
1995798	Available Barium (Ba)	2009/10/30	NC	75 - 125	95	75 - 125	<5	mg/kg	1.2	35	106	75 - 125
1995798	Available Beryllium (Be)	2009/10/30	98	75 - 125	107	75 - 125	<2	mg/kg	NC	35		
1995798	Available Bismuth (Bi)	2009/10/30	96	75 - 125	99	75 - 125	<2	mg/kg	NC	N/A		
1995798	Available Boron (B)	2009/10/30	99	75 - 125	92	75 - 125	<5	mg/kg	NC	35		
1995798	Available Cadmium (Cd)	2009/10/30	95	75 - 125	94	75 - 125	<0.3	mg/kg	NC	35		
1995798	Available Chromium (Cr)	2009/10/30	NC	75 - 125	99	75 - 125	<2	mg/kg	1.3	35	85	75 - 125

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QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	%Recovery	QC Limits	%Recovery	QC Limits	Value	Units	Value (%)	QC Limits	%Recovery	QC Limits
1995798	Available Cobalt (Co)	2009/10/30	99	75 - 125	95	75 - 125	<1	mg/kg	NC	35	93	75 - 125
1995798	Available Copper (Cu)	2009/10/30	NC	75 - 125	95	75 - 125	<2	mg/kg	3.9	35	87	75 - 125
1995798	Available Iron (Fe)	2009/10/30	NC	75 - 125	105	75 - 125	<50	mg/kg	2.9	35	93	75 - 125
1995798	Available Lead (Pb)	2009/10/30	94	75 - 125	96	75 - 125	<0.5	mg/kg	NC	35	100	75 - 125
1995798	Available Lithium (Li)	2009/10/30	101	75 - 125	96	75 - 125	<2	mg/kg	NC	N/A		
1995798	Available Manganese (Mn)	2009/10/30	NC	75 - 125	98	75 - 125	<2	mg/kg	1.0	35	98	75 - 125
1995798	Available Mercury (Hg)	2009/10/30	99	75 - 125	102	75 - 125	<0.1	mg/kg	NC	N/A		
1995798	Available Molybdenum (Mo)	2009/10/30	100	75 - 125	95	75 - 125	<2	mg/kg	NC	35		
1995798	Available Nickel (Ni)	2009/10/30	97	75 - 125	94	75 - 125	<2	mg/kg	NC	35	93	75 - 125
1995798	Available Rubidium (Rb)	2009/10/30	104	75 - 125	97	75 - 125	<2	mg/kg	NC	N/A		
1995798	Available Selenium (Se)	2009/10/30	98	75 - 125	88	75 - 125	<1	mg/kg	NC	35		
1995798	Available Silver (Ag)	2009/10/30	95	75 - 125	96	75 - 125	<0.5	mg/kg	NC	35		
1995798	Available Strontium (Sr)	2009/10/30	95	75 - 125	99	75 - 125	<5	mg/kg	NC	35	91	75 - 125
1995798	Available Thallium (Tl)	2009/10/30	90	75 - 125	85	75 - 125	<0.1	mg/kg	NC	35		
1995798	Available Tin (Sn)	2009/10/30	104	75 - 125	102	75 - 125	<2	mg/kg	NC	N/A		
1995798	Available Uranium (U)	2009/10/30	92	75 - 125	86	75 - 125	<0.1	mg/kg	NC	35		
1995798	Available Vanadium (V)	2009/10/30	NC	75 - 125	105	75 - 125	2, RDL=2	mg/kg	3.7	35	102	75 - 125
1995798	Available Zinc (Zn)	2009/10/30	92	75 - 125	90	75 - 125	<5	mg/kg	NC	35	102	75 - 125
1995985	pH	2009/10/30					6.22, RDL=0	pH	0.7	25	102	80 - 120
1995996	Conductivity	2009/10/30					<1	uS/cm	0.8	25	104	80 - 120
1995999	pH	2009/10/30					6.11, RDL=0	pH	0.8	25	102	80 - 120
1996007	Conductivity	2009/10/30					<1	uS/cm	0.07	25	105	80 - 120
1996012	Total Organic Carbon (C)	2009/10/30	130(2, 6)	75 - 125	110	75 - 125	<0.5	mg/L	NC	25	95	80 - 120
1996016	Total Organic Carbon (C)	2009/10/30	NC	75 - 125	88	75 - 125	<0.5	mg/L	NC(7)	25	76(2, 8)	80 - 120
1996914	D10-Anthracene	2009/11/06	103	30 - 130	106	30 - 130	116	%				
1996914	D14-Terphenyl	2009/11/06	103	30 - 130	102	30 - 130	105	%				
1996914	D8-Acenaphthylene	2009/11/06	89	30 - 130	97	30 - 130	99	%				
1996914	1-Methylnaphthalene	2009/11/05	72	30 - 130	73	30 - 130	<0.005	mg/kg	NC	50		
1996914	2-Methylnaphthalene	2009/11/05	78	30 - 130	76	30 - 130	<0.005	mg/kg	NC	50		
1996914	Acenaphthene	2009/11/05	79	30 - 130	78	30 - 130	<0.005	mg/kg	NC	50		
1996914	Acenaphthylene	2009/11/05	64(9)	30 - 130	74	30 - 130	<0.005	mg/kg	NC	50		
1996914	Anthracene	2009/11/05	80	30 - 130	79	30 - 130	<0.005	mg/kg	NC	50		
1996914	Benzo(a)anthracene	2009/11/05	90	30 - 130	90	30 - 130	<0.005	mg/kg	NC	50		
1996914	Benzo(a)pyrene	2009/11/05	73	30 - 130	87	30 - 130	<0.005	mg/kg	NC	50		
1996914	Benzo(b)fluoranthene	2009/11/05	78	30 - 130	84	30 - 130	<0.005	mg/kg	NC	50		
1996914	Benzo(g,h,i)perylene	2009/11/05	67(9)	30 - 130	82	30 - 130	<0.005	mg/kg	NC	50		
1996914	Benzo(k)fluoranthene	2009/11/05	78	30 - 130	84	30 - 130	<0.005	mg/kg	NC	50		
1996914	Chrysene	2009/11/05	98	30 - 130	103	30 - 130	<0.005	mg/kg	NC	50		
1996914	Dibenz(a,h)anthracene	2009/11/05	67(9)	30 - 130	76	30 - 130	<0.005	mg/kg	NC	50		

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QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	%Recovery	QC Limits	%Recovery	QC Limits	Value	Units	Value (%)	QC Limits	%Recovery	QC Limits
1996914	Fluoranthene	2009/11/05	95	30 - 130	93	30 - 130	<0.005	mg/kg	NC(10)	50		
1996914	Fluorene	2009/11/05	75	30 - 130	75	30 - 130	<0.005	mg/kg	NC	50		
1996914	Indeno(1,2,3-cd)pyrene	2009/11/05	66(9)	30 - 130	80	30 - 130	<0.005	mg/kg	NC	50		
1996914	Naphthalene	2009/11/05	75	30 - 130	74	30 - 130	<0.005	mg/kg	NC	50		
1996914	Perylene	2009/11/05	68(9)	30 - 130	80	30 - 130	<0.005	mg/kg	NC	50		
1996914	Phenanthrene	2009/11/05	85	30 - 130	84	30 - 130	<0.005	mg/kg	NC(10)	50		
1996914	Pyrene	2009/11/05	94	30 - 130	94	30 - 130	<0.005	mg/kg	NC(10)	50		
1996934	Total Alkalinity (Total as CaCO3)	2009/11/02	NC	80 - 120	104	80 - 120	<5	mg/L	2.1	25	99	80 - 120
1996937	Dissolved Chloride (Cl)	2009/11/03	NC	80 - 120	103	80 - 120	<1	mg/L	0.5	25	97	80 - 120
1996938	Dissolved Sulphate (SO4)	2009/11/03	99	80 - 120	101	80 - 120	<2	mg/L	NC	25	94	80 - 120
1996939	Reactive Silica (SiO2)	2009/11/03	99	80 - 120	102	80 - 120	<0.5	mg/L	1.3	25	100	75 - 125
1996940	Colour	2009/11/02					<5	TCU	NC	25	106	80 - 120
1996942	Orthophosphate (P)	2009/11/03	102	80 - 120	106	80 - 120	<0.01	mg/L	NC	25	102	80 - 120
1996943	Nitrate + Nitrite	2009/11/03	102	80 - 120	101	80 - 120	<0.05	mg/L	NC	25	103	80 - 120
1996944	Nitrite (N)	2009/11/03	102	80 - 120	106	80 - 120	<0.01	mg/L	NC	25	107	80 - 120
1996983	Total Alkalinity (Total as CaCO3)	2009/11/02	103	80 - 120	98	80 - 120	<5	mg/L	NC	25	97	80 - 120
1996984	Dissolved Chloride (Cl)	2009/11/03	104	80 - 120	102	80 - 120	<1	mg/L	NC	25	97	80 - 120
1996985	Dissolved Sulphate (SO4)	2009/11/03	102	80 - 120	100	80 - 120	<2	mg/L	NC	25	93	80 - 120
1996986	Reactive Silica (SiO2)	2009/11/03	NC	80 - 120	102	80 - 120	<0.5	mg/L	0.1	25	100	75 - 125
1996987	Colour	2009/11/02					<5	TCU	NC	25	109	80 - 120
1996988	Orthophosphate (P)	2009/11/03	101	80 - 120	106	80 - 120	<0.01	mg/L	NC	25	105	80 - 120
1996989	Nitrate + Nitrite	2009/11/03	103	80 - 120	102	80 - 120	<0.05	mg/L	2.2	25	103	80 - 120
1996990	Nitrite (N)	2009/11/03	102	80 - 120	105	N/A	<0.01	mg/L	NC	25	104	80 - 120
1996991	Total Alkalinity (Total as CaCO3)	2009/11/03	NC	80 - 120	102	80 - 120	<5	mg/L	NC	25	98	80 - 120
1996993	Dissolved Chloride (Cl)	2009/11/03	105	80 - 120	103	80 - 120	<1	mg/L	NC	25	99	80 - 120
1996994	Dissolved Sulphate (SO4)	2009/11/03	112	80 - 120	100	80 - 120	<2	mg/L	NC	25	94	80 - 120
1996995	Reactive Silica (SiO2)	2009/11/02	NC	80 - 120	102	80 - 120	<0.5	mg/L	1.1	25	101	75 - 125
1996996	Colour	2009/11/02					<5	TCU	16.3	25	112	80 - 120
1996997	Orthophosphate (P)	2009/11/03	94	80 - 120	107	80 - 120	<0.01	mg/L	NC	25	103	80 - 120
1996998	Nitrate + Nitrite	2009/11/03	103	N/A	101	80 - 120	<0.05	mg/L	NC	25	101	80 - 120
1996999	Nitrite (N)	2009/11/03	97	80 - 120	110	80 - 120	<0.01	mg/L	NC	25	110	80 - 120
1997301	Available Aluminum (Al)	2009/11/02	NC	75 - 125	94	75 - 125	<10	mg/kg	0.7	35	81	75 - 125
1997301	Available Antimony (Sb)	2009/11/02	99	75 - 125	105	75 - 125	<2	mg/kg	NC	35		
1997301	Available Arsenic (As)	2009/11/02	106	75 - 125	97	75 - 125	<2	mg/kg	NC	35	125	75 - 125
1997301	Available Barium (Ba)	2009/11/02	NC	75 - 125	99	75 - 125	<5	mg/kg	6.0	35	112	75 - 125
1997301	Available Beryllium (Be)	2009/11/02	80	75 - 125	89	75 - 125	<2	mg/kg	NC	35		
1997301	Available Bismuth (Bi)	2009/11/02	102	75 - 125	99	75 - 125	<2	mg/kg	NC	N/A		
1997301	Available Boron (B)	2009/11/02	80	75 - 125	87	75 - 125	<5	mg/kg	NC	35		
1997301	Available Cadmium (Cd)	2009/11/02	100	75 - 125	93	75 - 125	<0.3	mg/kg	NC	35		

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QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	%Recovery	QC Limits	%Recovery	QC Limits	Value	Units	Value (%)	QC Limits	%Recovery	QC Limits
1997301	Available Chromium (Cr)	2009/11/02	NC	75 - 125	99	75 - 125	<2	mg/kg	NC(11)	35	87	75 - 125
1997301	Available Cobalt (Co)	2009/11/02	103	75 - 125	95	75 - 125	<1	mg/kg	NC	35	97	75 - 125
1997301	Available Copper (Cu)	2009/11/02	96	75 - 125	96	75 - 125	<2	mg/kg	NC	35	90	75 - 125
1997301	Available Iron (Fe)	2009/11/02	NC	75 - 125	89	75 - 125	<50	mg/kg	3.4	35	88	75 - 125
1997301	Available Lead (Pb)	2009/11/02	NC	75 - 125	98	75 - 125	<0.5	mg/kg	137(2, 11)	35	98	75 - 125
1997301	Available Lithium (Li)	2009/11/02	86	75 - 125	95	75 - 125	<2	mg/kg	NC	N/A		
1997301	Available Manganese (Mn)	2009/11/02	NC	75 - 125	93	75 - 125	<2	mg/kg	4.6	35	95	75 - 125
1997301	Available Mercury (Hg)	2009/11/02	100	75 - 125	103	75 - 125	<0.1	mg/kg	NC	N/A		
1997301	Available Molybdenum (Mo)	2009/11/02	99	75 - 125	95	75 - 125	<2	mg/kg	NC	35		
1997301	Available Nickel (Ni)	2009/11/02	103	75 - 125	94	75 - 125	<2	mg/kg	NC	35	95	75 - 125
1997301	Available Rubidium (Rb)	2009/11/02	103	75 - 125	100	75 - 125	<2	mg/kg	NC	N/A		
1997301	Available Selenium (Se)	2009/11/02	107	75 - 125	82	75 - 125	<1	mg/kg	NC	35		
1997301	Available Silver (Ag)	2009/11/02	94	75 - 125	92	75 - 125	<0.5	mg/kg	NC	35		
1997301	Available Strontium (Sr)	2009/11/02	97	75 - 125	100	75 - 125	<5	mg/kg	NC	35	90	75 - 125
1997301	Available Thallium (Tl)	2009/11/02	90	75 - 125	97	75 - 125	<0.1	mg/kg	NC	35		
1997301	Available Tin (Sn)	2009/11/02	103	75 - 125	98	75 - 125	<2	mg/kg	NC	N/A		
1997301	Available Uranium (U)	2009/11/02	101	75 - 125	94	75 - 125	<0.1	mg/kg	NC	35		
1997301	Available Vanadium (V)	2009/11/02	NC	75 - 125	99	75 - 125	<2	mg/kg	5.9	35	107	75 - 125
1997301	Available Zinc (Zn)	2009/11/02	97	75 - 125	94	75 - 125	<5	mg/kg	8.0	35	104	75 - 125
1997448	Acridine	2009/11/07	NC	30 - 130	82	30 - 130	<0.05	ug/L	NC	40		
1997448	Quinoline	2009/11/07	113	30 - 130	76	30 - 130	<0.05	ug/L	NC	40		
1997461	D10-Anthracene	2009/11/07	92	30 - 130	65	30 - 130	68	%				
1997461	D14-Terphenyl	2009/11/07	69(12)	30 - 130	65	30 - 130	71	%				
1997461	D8-Acenaphthylene	2009/11/07	118	30 - 130	64	30 - 130	68	%				
1997461	1-Methylnaphthalene	2009/11/07	NC	30 - 130	83	30 - 130	<0.05	ug/L	NC	40		
1997461	2-Methylnaphthalene	2009/11/07	NC	30 - 130	88	30 - 130	<0.05	ug/L	NC	40		
1997461	Acenaphthene	2009/11/07	NC	30 - 130	88	30 - 130	<0.01	ug/L	38.2	40		
1997461	Acenaphthylene	2009/11/07	NC	30 - 130	83	30 - 130	<0.01	ug/L	3.9	40		
1997461	Anthracene	2009/11/07	NC	30 - 130	99	30 - 130	<0.01	ug/L	25.7	40		
1997461	Benzo(a)anthracene	2009/11/07	NC	30 - 130	99	30 - 130	<0.01	ug/L	22.3	40		
1997461	Benzo(a)pyrene	2009/11/07	NC	30 - 130	87	30 - 130	<0.01	ug/L	22.8	40		
1997461	Benzo(b)fluoranthene	2009/11/07	NC	30 - 130	89	30 - 130	<0.01	ug/L	28.2	40		
1997461	Benzo(g,h,i)perylene	2009/11/07	NC	30 - 130	94	30 - 130	<0.01	ug/L	30.2	40		
1997461	Benzo(k)fluoranthene	2009/11/07	NC	30 - 130	89	30 - 130	<0.01	ug/L	27.9	40		
1997461	Chrysene	2009/11/07	NC	30 - 130	101	30 - 130	<0.01	ug/L	24.3	40		
1997461	Dibenz(a,h)anthracene	2009/11/07	NC	30 - 130	95	30 - 130	<0.01	ug/L	34.3	40		
1997461	Fluoranthene	2009/11/07	NC	30 - 130	93	30 - 130	<0.01	ug/L	18.3	40		
1997461	Fluorene	2009/11/07	NC	30 - 130	86	30 - 130	<0.01	ug/L	25.3	40		
1997461	Indeno(1,2,3-cd)pyrene	2009/11/07	NC	30 - 130	91	30 - 130	<0.01	ug/L	37.5	40		

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Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	%Recovery	QC Limits	%Recovery	QC Limits	Value	Units	Value (%)	QC Limits	%Recovery	QC Limits
1997461	Naphthalene	2009/11/07	NC	30 - 130	85	30 - 130	<0.2	ug/L	NC	40		
1997461	Perylene	2009/11/07	NC	30 - 130	86	30 - 130	<0.01	ug/L	22.8	40		
1997461	Phenanthrene	2009/11/07	NC	30 - 130	104	30 - 130	<0.01	ug/L	23.1	40		
1997461	Pyrene	2009/11/07	NC	30 - 130	92	30 - 130	<0.01	ug/L	18.9	40		
1997462	pH	2009/11/02					6.08, RDL=0	pH	0.5	25	101	80 - 120
1997465	Conductivity	2009/11/02					<1	uS/cm	1.6	25	101	80 - 120
1997467	pH	2009/11/02					5.94, RDL=0	pH	0.3	25	101	80 - 120
1997476	Conductivity	2009/11/02					<1	uS/cm	1.1	25	102	80 - 120
1997489	Nitrogen (Ammonia Nitrogen)	2009/11/02	101	80 - 120	102	80 - 120	<0.05	mg/L	NC	25	104	80 - 120
1997502	Nitrogen (Ammonia Nitrogen)	2009/11/02	101	80 - 120	102	80 - 120	<0.05	mg/L	NC	25	110	80 - 120
1997510	Nitrogen (Ammonia Nitrogen)	2009/11/03	97	80 - 120	101	80 - 120	<0.05	mg/L	NC	25	105	80 - 120
1998048	Dissolved Calcium (Ca)	2009/11/02	96	80 - 120	99	80 - 120	<0.1	mg/L	0.2	25	98	80 - 120
1998048	Dissolved Magnesium (Mg)	2009/11/02	93	80 - 120	96	80 - 120	<0.1	mg/L	0.9	25	98	80 - 120
1998048	Dissolved Phosphorus (P)	2009/11/02	100	80 - 120	100	80 - 120	<0.1	mg/L	NC	25	81	80 - 120
1998048	Dissolved Potassium (K)	2009/11/02	97	80 - 120	98	80 - 120	<0.1	mg/L	0.8	25	100	80 - 120
1998048	Dissolved Sodium (Na)	2009/11/02	99	80 - 120	101	80 - 120	<0.1	mg/L	0.8	25	101	80 - 120
1998049	Dissolved Calcium (Ca)	2009/11/02	99	80 - 120	101	80 - 120	<0.1	mg/L	0.1	25	98	80 - 120
1998049	Dissolved Magnesium (Mg)	2009/11/02	97	80 - 120	97	80 - 120	<0.1	mg/L	1.0	25	98	80 - 120
1998049	Dissolved Phosphorus (P)	2009/11/02	102	80 - 120	100	80 - 120	<0.1	mg/L	NC	25	95	80 - 120
1998049	Dissolved Potassium (K)	2009/11/02	98	80 - 120	98	80 - 120	<0.1	mg/L	0.1	25	99	80 - 120
1998049	Dissolved Sodium (Na)	2009/11/02	102	80 - 120	102	80 - 120	<0.1	mg/L	0.2	25	102	80 - 120
1998050	Dissolved Calcium (Ca)	2009/11/02	101	80 - 120	99	80 - 120	<0.1	mg/L	0.4	25	99	80 - 120
1998050	Dissolved Magnesium (Mg)	2009/11/02	97	80 - 120	96	80 - 120	<0.1	mg/L	0.6	25	98	80 - 120
1998050	Dissolved Phosphorus (P)	2009/11/02	99	80 - 120	99	80 - 120	<0.1	mg/L	NC	25	88	80 - 120
1998050	Dissolved Potassium (K)	2009/11/02	98	80 - 120	98	80 - 120	<0.1	mg/L	1.8	25	101	80 - 120
1998050	Dissolved Sodium (Na)	2009/11/02	102	80 - 120	101	80 - 120	<0.1	mg/L	0.3	25	102	80 - 120
1998237	Aliphatic >C10-C12	2009/11/07			81	30 - 130	0.03, RDL=0.01	mg/L				
1998237	Aliphatic >C12-C16	2009/11/07			84	30 - 130	<0.06	mg/L				
1998237	Aliphatic >C16-C21	2009/11/07			91	30 - 130	<0.06	mg/L				
1998237	Aliphatic >C21-<C32	2009/11/07			87	30 - 130	<0.1	mg/L				
1998237	Aromatic >C10-C12	2009/11/07			96	30 - 130	0.01, RDL=0.01	mg/L				
1998237	Aromatic >C12-C16	2009/11/07			86	30 - 130	<0.06	mg/L				
1998237	Aromatic >C16-C21	2009/11/07			81	30 - 130	<0.06	mg/L				
1998237	Aromatic >C21-<C32	2009/11/07			76	30 - 130	<0.1	mg/L				
1998237	Isobutylbenzene - Extractable	2009/11/07					71	%				
1998237	n-Dotriacontane - Extractable	2009/11/07					96	%				
1998426	Total Organic Carbon (C)	2009/11/03	96	75 - 125	89	75 - 125	<0.5	mg/L	5.8	25	87	80 - 120
1998458	Total Organic Carbon (C)	2009/11/03	NC	75 - 125	107	75 - 125	<0.5	mg/L	NC(13)	25	107	80 - 120
1998639	Turbidity	2009/11/03					<0.1	NTU	NC	25	100	80 - 120

Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
1998656	Turbidity	2009/11/03					<0.1	NTU	3.4	25	100	80 - 120
1998661	Turbidity	2009/11/03					<0.1	NTU	17.6	25	100	80 - 120
2004164	Decachlorobiphenyl	2009/11/16	79	30 - 130	78	30 - 130	72	%				
2004164	Total PCB	2009/11/16	93	30 - 130	100	30 - 130	<0.05	ug/g	NC	50		
2005034	Decachlorobiphenyl	2009/11/18	82	30 - 130	75	30 - 130	73	%				
2005034	Total PCB	2009/11/18	99	30 - 130	92	30 - 130	<0.05	ug/g	NC	50		
2008938	Aliphatic >C10-C12	2009/11/16			83	30 - 130	<8.0	mg/kg				
2008938	Aliphatic >C12-C16	2009/11/16			83	30 - 130	<15	mg/kg				
2008938	Aliphatic >C16-C21	2009/11/16			87	30 - 130	<15	mg/kg				
2008938	Aliphatic >C21-<C32	2009/11/16			86	30 - 130	<15	mg/kg				
2008938	Aromatic >C10-C12	2009/11/16			99	30 - 130	<4.0	mg/kg				
2008938	Aromatic >C12-C16	2009/11/16			95	30 - 130	<15	mg/kg				
2008938	Aromatic >C16-C21	2009/11/16			93	30 - 130	<15	mg/kg				
2008938	Aromatic >C21-<C32	2009/11/16			91	30 - 130	<20(14)	mg/kg				
2008938	Isobutylbenzene - Extractable	2009/11/16					80	%				
2008938	n-Dotriacontane - Extractable	2009/11/16					91	%				
2010953	Isobutylbenzene - Volatile	2009/11/23			101	60 - 140	104	%				
2010953	Benzene	2009/11/23			99	60 - 140	<0.03	mg/kg				
2010953	Toluene	2009/11/23			100	60 - 140	<0.03	mg/kg				
2010953	Ethylbenzene	2009/11/23			98	60 - 140	<0.03	mg/kg				
2010953	Xylene (Total)	2009/11/23			100	60 - 140	<0.05	mg/kg				
2010953	Aliphatic >C6-C8	2009/11/23					<0.1	mg/kg				
2010953	Aliphatic >C8-C10	2009/11/23					<0.4	mg/kg				
2010953	>C8-C10 Aromatics (-EX)	2009/11/23					<0.1	mg/kg				

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Maxxam Job #: A9E4696
Report Date: 2009/11/24

Stantec Consulting Ltd
Client Project #: 1044857/Z9100
Project name: NWP
Your P.O. #: NSD016400

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
2012352	Mercury (Hg)	2009/11/18	NC	75 - 125	90	75 - 125	<0.1	mg/kg	NC	25	81	75 - 125
2013211	Crude Fat	2009/11/16					<0.5	%	NC	25	93	80 - 120

N/A = Not Applicable
RDL = Reportable Detection Limit
RPD = Relative Percent Difference
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
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.
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.
(1) - Matrix Spike: results are outside acceptance limit. Analysis was not repeated, sample was past recommended hold time for repeat analysis.
(10) - Duplicate: results are outside acceptance limit. Sample was past recommended hold time for repeat analysis.
(11) - Poor RPD due to sample inhomogeneity.
(12) - PAH sample contained sediment.
(13) - Elevated detection limit due to matrix interference.
(14) - Elevated TEH RDL(s) due to detected levels in the method blank.
(2) - Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.
(3) - Recovery within acceptance limits.
(4) - Recovery within 3 SD limits.
(5) - Elevated recovery due to possible low level lab contamination. Minimal impact on data quality.
(6) - High matrix spike recovery due to sample matrix interferences.
(7) - Detection limit increased due to sample matrix.
(8) - Poor recovery due to possible preparation error, other batch QC samples acceptable.
(9) - Matrix Spike: results are outside acceptance limit. Analysis was repeated with similar results.

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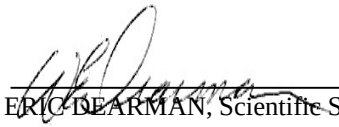
Validation Signature Page

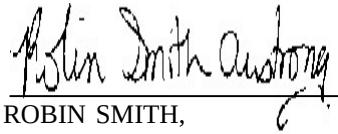
Maxxam Job #: A9E4696

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



ERIC DEARMAN, Scientific Specialist

JERRY ARENOVICH, Inorganics Manager



ROBIN SMITH,

KEVIN MACDONALD, Inorganics Supervisor

Maxxam Analytics International Corporation o/a Maxxam Analytics 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel:902-420-0203 Toll-free:800-565-7227 Fax:902-420-8612 www.maxxamanalytics.com

Validation Signature Page

Maxxam Job #: A9E4696

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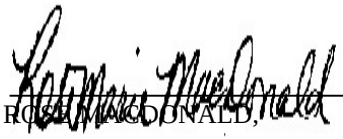
ANN BUCK, Bedford Inorg



ROSA MACDONALD, M.Sc.

ALAN STEWART, Scientific Specialist (Organics)

==========

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. SCC and CALA have approved this reporting process and electronic report format.

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Your Project #: DA9E4696
Site: 1044857 Z9100

Attention: BEDFORD CLIENT SERVICE
MAXXAM ANALYTICS INC.
200 BLUEWATER ROAD, SUITE 105
BEDFORD, NS
CANADA B4B 1G9

Report Date: 2009/11/04

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A961615
Received: 2009/10/30, 10:05

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Ethylene, Di, Tri & Tetraethylene glycol	1	N/A	2009/11/03	CAL SOP-00093	EPA 8015 D

* Results relate only to the items tested.

Encryption Key

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

LINSAY DAME, Project Manager Assistant
Email: Linsay.Dame@MaxxamAnalytics.com
Phone# (403) 291-3077

==========

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For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 1

Maxxam Job #: A961615
Report Date: 2009/11/04

MAXXAM ANALYTICS INC.
Client Project #: DA9E4696
Site Reference: 1044857 Z9100

GLYCOLS BY GC-FID (WATER)

Maxxam ID		R52365		
Sampling Date		2009/10/20		
	Units	**09-MW4 (EE0395-03R)**	**RDL**	**QC Batch**
Glycols				
Ethylene Glycol	mg/L	<10	10	3527984
Diethylene Glycol	mg/L	<10	10	3527984
Triethylene Glycol	mg/L	<10	10	3527984
Tetraethylene Glycol	mg/L	<10	10	3527984
Propylene Glycol	mg/L	<10	10	3527984
Surrogate Recovery (%)				
Methyl Sulfone (sur.)	%	89		3527984

RDL = Reportable Detection Limit

Maxxam Job #: A961615
Report Date: 2009/11/04

MAXXAM ANALYTICS INC.
Client Project #: DA9E4696
Site Reference: 1044857 Z9100

Package 1	12.0°C

Each temperature is the average of up to three cooler temperatures taken at receipt

General Comments

Maxxam Job #: A961615
Report Date: 2009/11/04

MAXXAM ANALYTICS INC.
Client Project #: DA9E4696
Site Reference: 1044857 Z9100

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
3527984	Methyl Sulfone (sur.)	2009/11/03	92	70 - 130	96	70 - 130	91	%		
3527984	Ethylene Glycol	2009/11/03	NC	70 - 130	120	70 - 130	<10	mg/L	1	20
3527984	Diethylene Glycol	2009/11/03	83	70 - 130	107	70 - 130	<10	mg/L	NC	20
3527984	Triethylene Glycol	2009/11/03	91	70 - 130	120	70 - 130	<10	mg/L	NC	20
3527984	Tetraethylene Glycol	2009/11/03	98	70 - 130	127	70 - 130	<10	mg/L	NC	20
3527984	Propylene Glycol	2009/11/03	78	70 - 130	85	70 - 130	<10	mg/L	NC	20

N/A = Not Applicable
RPD = Relative Percent Difference
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
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.
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Validation Signature Page

Maxxam Job #: A961615

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

LUBA SHYMUSHOVSKA, Senior Analyst, Organic Department

==========

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. SCC and CALA have approved this reporting process and electronic report format.

Your P.O. #: NSD016300
Your Project #: 1044857-Z9100
Site: NORTHWEST POINT
Your C.O.C. #: 26374

Attention: Jim Slade
Stantec Consulting Ltd
St. John's - Standing Offer
607 Torbay Rd
St. John's, NL
A1A 4Y6

Report Date: 2009/11/26

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A9F6193
Received: 2009/11/19, 10:25

Sample Matrix: Soil
Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
TEH in Soil (PIRI)	6	2009/11/23	2009/11/24	ATL SOP-00197 R2	Based on Atl. PIRI
Moisture	6	N/A	2009/11/23	ATL SOP-00196 R3	MOE Handbook 1983
VPH in Soil (PIRI)	6	2009/11/23	2009/11/24	ATL SOP 00199 R3	Based on Atl. PIRI
ModTPH (T1) Calc. for Soil	6	2009/11/19	2009/11/25		Based on Atl. PIRI

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
* Results relate only to the items tested.

Encryption Key

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

ROB WHELAN, Project Manager
Email: Rob.Whelan@maxxamanalytics.com
Phone# (709) 754-0203

==========

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For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 1

This document is in electronic format, hard copy is available on request.

Maxxam Job #: A9F6193
Report Date: 2009/11/26

Stantec Consulting Ltd
Client Project #: 1044857-Z9100
Project name: NORTH WEST POINT
Your P.O. #: NSD016300

RESULTS OF ANALYSES OF SOIL

MaxxamID		EJ9357	EJ9358	EJ9359	EJ9360	EJ9361	EJ9362		
ReceivedTemperature(°C)		6.9	6.9	6.9	6.9	6.9	6.9		
	Units	**SSM-1 SE**	**SSM-2 CR**	**SSM-3 DS**	**SSM-4 SEWER**	**SSM-5 WB**	**SSM-6 SCB**	**RDL**	**QC Batch**
Inorganics									
Moisture	%	18	18	13	13	13	15	1	2016118

ATLANTIC RBCA HYDROCARBONS (SOIL)

MaxxamID		EJ9357	EJ9358	EJ9359	EJ9360	EJ9361	EJ9362		
ReceivedTemperature(°C)		6.9	6.9	6.9	6.9	6.9	6.9		
	Units	**SSM-1 SE**	**SSM-2 CR**	**SSM-3 DS**	**SSM-4 SEWER**	**SSM-5 WB**	**SSM-6 SCB**	**RDL**	**QC Batch**
PetroleumHydrocarbons									
Benzene	mg/kg	ND	ND	ND	ND	ND	ND	0.03	2016458
Toluene	mg/kg	ND	ND	ND	ND	ND	ND	0.03	2016458
Ethylbenzene	mg/kg	ND	ND	ND	ND	ND	ND	0.03	2016458
Xylene(Total)	mg/kg	ND	ND	ND	ND	ND	ND	0.05	2016458
C6 - C10 (less BTEX)	mg/kg	ND	ND	ND	ND	ND	ND	3	2016458
>C10-C21Hydrocarbons	mg/kg	ND	ND	ND	ND	ND	ND	15	2016459
>C21-<C32Hydrocarbons	mg/kg	ND	ND	ND	ND	ND	ND	15	2016459
Modified TPH (Tier1)	mg/kg	ND	ND	ND	ND	ND	ND	20	2013288
Surrogate Recovery (%)									
Isobutylbenzene - Extractable	%	91	80	88	68	67	82		2016459
Isobutylbenzene-Volatile	%	93	99	107	101	111	104		2016458
n-Dotriacontane-Extractable	%	97(1)	100(1)	101(1)	100(2)	98(2)	99(1)		2016459

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Triple silica gel cleanup was used to remove organic interferences from sample extract as per client request.
(2) - Isobutylbenzene/n-Dotriacontane recovery(ies) not within acceptance limits due to silica gel cleanup. Triple silica gel cleanup was used to remove organic interferences from sample extract as per client request.

Maxxam Analytics International Corporation o/a Maxxam Analytics 49-55 Elizabeth Ave, Suite 101A, St.John's, NL, Canada A1A 1W9 Tel: 709-754-0203 Toll Free: 888-492-7227 Fax:709-754-8612 www.maxxam.ca

Maxxam Job #: A9F6193
Report Date: 2009/11/26

Stantec Consulting Ltd
Client Project #: 1044857-Z9100
Project name: NORTH WEST POINT
Your P.O. #: NSD016300

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
2016118	Moisture	2009/11/23							7.3	25
2016458	Isobutylbenzene - Volatile	2009/11/24			104	60 - 140	88	%		
2016458	Benzene	2009/11/24			91	60 - 140	ND, RDL=0.03	mg/kg	NC	50
2016458	Toluene	2009/11/24			91	60 - 140	ND, RDL=0.03	mg/kg	NC	50
2016458	Ethylbenzene	2009/11/24			92	60 - 140	ND, RDL=0.03	mg/kg	NC	50
2016458	Xylene (Total)	2009/11/24			92	60 - 140	ND, RDL=0.05	mg/kg	NC	50
2016458	C6 - C10 (less BTEX)	2009/11/24					ND, RDL=3	mg/kg	NC	50
2016459	Isobutylbenzene - Extractable	2009/11/24	100	30 - 130	94	30 - 130	95	%		
2016459	n-Dotriacontane - Extractable	2009/11/24	107	30 - 130	112	30 - 130	97	%		
2016459	>C10-C21 Hydrocarbons	2009/11/24	122	30 - 130	120	30 - 130	ND, RDL=15	mg/kg	NC	50
2016459	>C21-<C32 Hydrocarbons	2009/11/24	100	30 - 130	95	30 - 130	ND, RDL=15	mg/kg	NC	50

N/A = Not Applicable
RDL = Reportable Detection Limit
RPD = Relative Percent Difference
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
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.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

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Validation Signature Page

Maxxam Job #: A9F6193

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

Paula Chaplin

PAULA CHAPLIN, Project Manager

==========

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CHAIN OF CUSTODY RECORD

26374

Maxxam Analytics Inc
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www.maxxamanalytics.com

INVOICE INFORMATION:	REPORT INFORMATION (if differs from invoice):		MAXXAM JOB NUMBER:
Company Name:	Company Name: Stantec	PO #: 1041557-29100	A9F6193
Contact Name:	Contact Name: Jim Slade	Project #:	ENTERED BY, Init:
Address:	Address: 607 Torbay Rd	Proj. Name:	MD
Email:	Email:	Location: Mount Wash Pit	
Ph: Fax:	Ph: (709)576-1458 Fax:	Quotation#:	Client Code: 10951
		Submitted By:	
		Site Task #:	

Specify Guideline Requirements:

*Specify Matrix: Surface/Salt/Ground/Tapwater/Sewage/Effluent/Seawater Potable/NonPotable/Tissue/Soil/Sludge/Metal

DUE DATE:

STANDARD: ☑

RUSH Due Date: _____

For extra cost rush, specify Due Date. Rush analysis must be scheduled prior to sample submission.

Client will be contacted if Rush date cannot be met.

Sample Identification	Matrix*	Date/Time Sampled	# & type of bottles	Field Filtered & Preserved	Lab Filtration Required	RCAp-30 Choose Total or Diss Metals	RCAp-MS Choose Total or Diss Metals	Metals Water: Total Digest (Default Method)	Metals Water: Dissolved	Mercury: Mercury is not included in soil or water metals scan	Metals Soil: Available Metals Digest Default Method (HNO3/H2O2)	Metals Soil: Total Digest - for sediments (HNO3/HF/HCLO4)	Metals Soil: Tin (required for CCME soils)	Metals Soil: Selenium (low level) Req'd for CCME Residential, Parklands, Agricultural	Metals Soil: Hot Water soluble Boron (required for CCME Agricultural)	TPH MUST (BTEX, C6-C34)	Soil (Potable), TPH MUST, NS Fuel Oil Spill Policy Low Level BTEX & C6-C50	NB Potable Water BTEX, VPH, Low Level TEH	TPH Fractionation	PAH's	PCB's	VOC's EPA 624,8260	Other Analysis or Comments/Hazards
SSM-1 SE	Soil										X					X					X		Silica gel
SSM-2 CR	"										X					X					X		"
SSM-3 DS	"										X					X					X		"
SSM-4 Sewer	"										X					X					X		"
SSM-5 WB	"										X					X					X		"
SSM-6 SCB	"										X					X					X		"

RELINQUISHED BY: (Signature/Print)	RECEIVED BY: (Signature/Print)	DATE / TIME	PURPOSE OF CHANGE / REMARKS	TEMP @ Maxxam Receipt
Nellie Breanne	m Dalton	NOV 19/09 10:25		6.9
				INTEGRITY Init: _____ Yes No

Your P.O. #: NSD016300
Your Project #: 1044857-Z9100
Site: NORTHWEST POINT
Your C.O.C. #: 26375

Attention: Jim Slade
Stantec Consulting Ltd
St. John's - Standing Offer
607 Torbay Rd
St. John's, NL
A1A 4Y6

Report Date: 2009/11/30

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A9F6224
Received: 2009/11/19, 10:25

Sample Matrix: Water
Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
TEH in Water (PIRI)	6	2009/11/24	2009/11/25	ATL SOP 00198 R2	Based on Atl. PIRI
VPH in Water (PIRI)	6	2009/11/27	2009/11/30	ATL SOP 00200 R4	Based on Atl. PIRI
ModTPH (T1) Calc. for Water	6	N/A	2009/11/30		Based on Atl. PIRI

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
* Results relate only to the items tested.

Encryption Key

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

ROB WHELAN, Project Manager
Email: Rob.Whelan@maxxamanalytics.com
Phone# (709) 754-0203

==========

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For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 1

This document is in electronic format, hard copy is available on request.

Maxxam Job #: A9F6224
Report Date: 2009/11/30

Stantec Consulting Ltd
Client Project #: 1044857-Z9100
Project name: NORTH WEST POINT
Your P.O. #: NSD016300

ATLANTIC RBCA HYDROCARBONS (WATER)

MaxxamID		EJ9536	EJ9538	EJ9539	EJ9540	EJ9541	EJ9542		
ReceivedTemperature(°C)		4.7	4.7	4.7	4.7	4.7	4.7		
	Units	**09-SWM1**	**09-SWM2**	**09-SWM3**	**09-SWM4**	**09-SWM5**	**09-SWM6**	**RDL**	**QC Batch**
PetroleumHydrocarbons									
Benzene	mg/L	ND	ND	ND	ND	ND	ND	0.001	2021052
Toluene	mg/L	ND	ND	ND	ND	ND	ND	0.001	2021052
Ethylbenzene	mg/L	ND	ND	ND	ND	ND	ND	0.001	2021052
Xylene(Total)	mg/L	ND	ND	ND	ND	ND	ND	0.002	2021052
C6 - C10 (less BTEX)	mg/L	ND	ND	ND	ND	ND	ND	0.01	2021052
>C10-C21Hydrocarbons	mg/L	ND	ND	ND	ND	ND	ND	0.05	2017360
>C21-<C32Hydrocarbons	mg/L	ND	ND	ND	ND	ND	ND	0.1	2017360
Modified TPH (Tier1)	mg/L	ND	ND	ND	ND	ND	ND	0.1	2013317
Surrogate Recovery (%)									
Isobutylbenzene - Extractable	%	77	68	73	79	73	66		2017360
Isobutylbenzene-Volatile	%	86	92	92	95	82	90		2021052
n-Dotriacontane-Extractable	%	57(1)	20(1)	27(1)	59(1)	40(1)	4.2(1)		2017360

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Isobutylbenzene/n-Dotriacontane recovery(ies) not within acceptance limits due to matrix/co-extractive interference.

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Maxxam Job #: A9F6224
Report Date: 2009/11/30

Stantec Consulting Ltd
Client Project #: 1044857-Z9100
Project name: NORTH WEST POINT
Your P.O. #: NSD016300

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
2017360	Isobutylbenzene - Extractable	2009/11/25	65	30 - 130	96	30 - 130	98	%		
2017360	n-Dotriacontane - Extractable	2009/11/25	26(1)	30 - 130	104	30 - 130	92	%		
2017360	>C10-C21 Hydrocarbons	2009/11/25	16(1)	30 - 130	94	30 - 130	ND, RDL=0.05	mg/L	NC	40
2017360	>C21-<C32 Hydrocarbons	2009/11/25	17(1)	30 - 130	100	30 - 130	ND, RDL=0.1	mg/L	NC	40
2021052	Isobutylbenzene - Volatile	2009/11/30	TBA	70 - 130	94	70 - 130	102	%		
2021052	Benzene	1899/12/30	TBA	70 - 130	90	70 - 130	ND, RDL=0.001	mg/L	TBA	40
2021052	Toluene	1899/12/30	TBA	70 - 130	90	70 - 130	ND, RDL=0.001	mg/L	TBA	40
2021052	Ethylbenzene	1899/12/30	TBA	70 - 130	90	70 - 130	ND, RDL=0.001	mg/L	TBA	40
2021052	Xylene (Total)	1899/12/30	TBA	70 - 130	92	70 - 130	ND, RDL=0.002	mg/L	TBA	40
2021052	C6 - C10 (less BTEX)	1899/12/30	TBA	N/A	76	N/A	ND, RDL=0.01	mg/L	TBA	40

N/A = Not Applicable
RDL = Reportable Detection Limit
RPD = Relative Percent Difference
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
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.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.
(1) - Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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Validation Signature Page

Maxxam Job #: A9F6224

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

PAULA CHAPLIN, Project Manager

==========

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CHAIN OF CUSTODY RECORD

26375

INVOICE INFORMATION:	REPORT INFORMATION (if differs from invoice):		MAXXAM JOB NUMBER:
Company Name:	Company Name: Stantec	PO #: 1014857 - 29103	A9F6224
Contact Name:	Contact Name: Jim Slade	Project #:	ENTERED BY, Init: MD
Address:	Address: 607 Torbay Rd	Proj. Name:	
		Location: North West Pt	
		Quotation#:	
Email:	Email:	Submitted By:	
Ph: Fax:	Ph: (709) 576-1458 Fax:	Site Task #:	Client Code: 10951

Specify Guideline Requirements:

*Specify Matrix: Surface/Salt/Ground/Tapwater/Sewage/Effluent/Seawater Potable/NonPotable/Tissue/Soil/Sludge/Metal

DUE DATE:

STANDARD: ✓

RUSH Due Date:

For extra cost rush, specify Due Date. Rush analysis must be scheduled prior to sample submission.

Client will be contacted if Rush date cannot be met.

Sample Identification	Matrix*	Date/Time Sampled	# & type of bottles	Field Filtered & Preserved	Lab Filtration Required	RCAp-30 Choose Total or Diss Metals	RCAp-MS Choose Total or Diss Metals	Metals Water: Total Digest (Default Method)	Metals Water: Dissolved	Mercury (Mercury is not included in soil or water metals scan)	Metals Soil: Available Metals Digest Default Method (HNO₃/H₂O₂)	Metals Soil: Total Digest - for sediments (HNO₃/HF/HClO₄)	Metals Soil: Tin (required for CCME soils)	Metals Soil: Selenium (low level) Req'd for CCME Residential, Parklands, Agricultural	Metals Soil: Hot Water soluble Boron (required for CCME Agricultural)	TPH MUST (BTEX, C6-C32)	Soil (Potable), TPH MUST, NS Fuel Oil Spill Policy Low Level BTEX & C6-C32	NB Potable Water BTEX, VPH, Low Level TEH	TPH Fractionation	PAH's	PCB's	VOC's EPA 624,8260	Other Analysis or Comments/Hazards
09-SWM1							X			X						X							RCAP sample not [illegible]
09-SWM2							X			X						X							″
09-SWM3							X			X						X							″
09-SWM4							X			X						X							″
09-SWM5							X			X						X							″
09-SWM6							X			X						X							″

RELINQUISHED BY: (Signature/Print)	RECEIVED BY: (Signature/Print)	DATE / TIME	PURPOSE OF CHANGE / REMARKS	TEMP @ Maxxam Receipt
Mollie Beane	M Dalton	Nov 19/09 10:25		4 7
				INTEGRITY Init: ___ Yes No

Your Project #: 1044857
Site: NORTHWEST POINT
Your C.O.C. #: 26374

Attention: JIM SLADE
Stantec Consulting Ltd
607 Torbay Rd
St. John's, NL
A1A 4Y6

Report Date: 2009/11/27

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A9F7144
Received: 2009/11/20, 10:35

Sample Matrix: Soil
Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Metals Solid Avail. Unified MS - Nper	6	N/A	2009/11/25	ATL SOP 00024 R5	Based on EPA6020A
Moisture	6	N/A	2009/11/21	ATL SOP 00001 R3	MOE Handbook 1983
PCBs in soil by GC/ECD	6	2009/11/23	2009/11/26	ATL SOP 00106 R3	Based on EPA8082

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
* Results relate only to the items tested.

Encryption Key

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

MICHELLE HILL, Project Manager
Email: Michelle.Hill.Reports@maxxamanalytics.com
Phone# (902) 420-0203

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Total cover pages: 1

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Maxxam Job #: A9F7144
Report Date: 2009/11/27

Stantec Consulting Ltd
Client Project #: 1044857
Project name: NORTHWEST POINT

RESULTS OF ANALYSES OF SOIL

Maxxam ID		EK3865	EK3866	EK3867	EK3868	EK3869	EK3870		
Sampling Date		2009/11/19	2009/11/19	2009/11/19	2009/11/19	2009/11/19	2009/11/19		
	Units	**SSM-1 SE**	**SSM-2 CR**	**SSM-3 DS**	**SSM-4 SEWER**	**SSM-5 WB**	**SSM-6 SCB**	**RDL**	**QC Batch**
Inorganics									
Moisture	%	16	16	14	11	14	17	1	2015837

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: A9F7144
Report Date: 2009/11/27

Stantec Consulting Ltd
Client Project #: 1044857
Project name: NORTHWEST POINT

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		EK3865	EK3866	EK3866	EK3867	EK3868	EK3869	EK3870		
Sampling Date		2009/11/19	2009/11/19	2009/11/19	2009/11/19	2009/11/19	2009/11/19	2009/11/19		
	Units	**SSM-1 SE**	**SSM-2 CR**	**SSM-2 CR Lab-Dup**	**SSM-3 DS**	**SSM-4 SEWER**	**SSM-5 WB**	**SSM-6 SCB**	**RDL**	**QC Batch**
Metals										
Available Aluminum (Al)	mg/kg	12000	2100	2100	1900	9400	1300	1000	10	2019002
Available Antimony (Sb)	mg/kg	<2	<2	<2	<2	<2	<2	<2	2	2019002
Available Arsenic (As)	mg/kg	<2	<2	<2	<2	<2	<2	<2	2	2019002
Available Barium (Ba)	mg/kg	160	25	24	13	97	9	7	5	2019002
Available Beryllium (Be)	mg/kg	<2	<2	<2	<2	<2	<2	<2	2	2019002
Available Bismuth (Bi)	mg/kg	<2	<2	<2	<2	<2	<2	<2	2	2019002
Available Boron (B)	mg/kg	<5	<5	<5	<5	<5	<5	<5	5	2019002
Available Cadmium (Cd)	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.3	2019002
Available Chromium (Cr)	mg/kg	26	6	7	3	21	<2	<2	2	2019002
Available Cobalt (Co)	mg/kg	9	2	2	1	7	<1	<1	1	2019002
Available Copper (Cu)	mg/kg	18	15	6(1)	4	18	2	<2	2	2019002
Available Iron (Fe)	mg/kg	17000	4400	4600	3300	14000	2300	1500	50	2019002
Available Lead (Pb)	mg/kg	2.8	0.7	0.7	1.1	3.1	0.6	0.8	0.5	2019002
Available Lithium (Li)	mg/kg	11	<2	2	4	10	3	<2	2	2019002
Available Manganese (Mn)	mg/kg	280	50	49	45	220	30	19	2	2019002
Available Mercury (Hg)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	2019002
Available Molybdenum (Mo)	mg/kg	<2	<2	<2	<2	<2	<2	<2	2	2019002
Available Nickel (Ni)	mg/kg	17	5	5	3	14	<2	<2	2	2019002
Available Rubidium (Rb)	mg/kg	27	5	5	3	26	<2	<2	2	2019002
Available Selenium (Se)	mg/kg	<2	<2	<2	<2	<2	<2	<2	2	2019002
Available Silver (Ag)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	2019002
Available Strontium (Sr)	mg/kg	30	6	6	5	22	6	<5	5	2019002
Available Thallium (Tl)	mg/kg	0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	0.1	2019002
Available Tin (Sn)	mg/kg	<2	<2	<2	<2	<2	<2	<2	2	2019002
Available Uranium (U)	mg/kg	0.5	0.2	0.2	0.1	0.6	0.1	<0.1	0.1	2019002
Available Vanadium (V)	mg/kg	40	12	12	7	33	3	4	2	2019002
Available Zinc (Zn)	mg/kg	49	10	10	10	42	7	<5	5	2019002

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Poor RPD due to sample inhomogeneity.

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Maxxam Job #: A9F7144
Report Date: 2009/11/27

Stantec Consulting Ltd
Client Project #: 1044857
Project name: NORTHWEST POINT

POLYCHLORINATED BIPHENYLS BY GC-ECD (SOIL)

Maxxam ID		EK3865	EK3866	EK3867	EK3868	EK3869	EK3870		
Sampling Date		2009/11/19	2009/11/19	2009/11/19	2009/11/19	2009/11/19	2009/11/19		
	Units	**SSM-1 SE**	**SSM-2 CR**	**SSM-3 DS**	**SSM-4 SEWER**	**SSM-5 WB**	**SSM-6 SCB**	**RDL**	**QC Batch**
PCBs									
Total PCB	ug/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2016536
Surrogate Recovery (%)									
Decachlorobiphenyl	%	84	86	86	86	89	86		2016536

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: A9F7144
Report Date: 2009/11/27

Stantec Consulting Ltd
Client Project #: 1044857
Project name: NORTHWEST POINT

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
2016536	Decachlorobiphenyl	2009/11/26	84	30 - 130	86	30 - 130	85	%				
2016536	Total PCB	2009/11/26	116	70 - 130	96	70 - 130	<0.05	ug/g	NC	50		
2019002	Available Aluminum (Al)	2009/11/25	NC	75 - 125	106	75 - 125	27, RDL=10(1)	mg/kg	0.7	35	87	75 - 125
2019002	Available Antimony (Sb)	2009/11/25	76	75 - 125	87	75 - 125	<2	mg/kg	NC	35		
2019002	Available Arsenic (As)	2009/11/25	105	75 - 125	98	75 - 125	<2	mg/kg	NC	35	112	75 - 125
2019002	Available Barium (Ba)	2009/11/25	NC	75 - 125	96	75 - 125	<5	mg/kg	NC	35	110	75 - 125
2019002	Available Beryllium (Be)	2009/11/25	96	75 - 125	98	75 - 125	<2	mg/kg	NC	35		
2019002	Available Bismuth (Bi)	2009/11/25	102	75 - 125	100	75 - 125	<2	mg/kg	NC	35		
2019002	Available Boron (B)	2009/11/25	98	75 - 125	92	75 - 125	<5	mg/kg	NC	35		
2019002	Available Cadmium (Cd)	2009/11/25	99	75 - 125	98	75 - 125	<0.3	mg/kg	NC	35		
2019002	Available Chromium (Cr)	2009/11/25	92	75 - 125	100	75 - 125	<2	mg/kg	NC	35	84	75 - 125
2019002	Available Cobalt (Co)	2009/11/25	98	75 - 125	99	75 - 125	<1	mg/kg	NC	35	99	75 - 125
2019002	Available Copper (Cu)	2009/11/25	NC	75 - 125	99	75 - 125	<2	mg/kg	NC(2)	35	86	75 - 125
2019002	Available Iron (Fe)	2009/11/25	NC	75 - 125	96	75 - 125	<50	mg/kg	5.2	35	94	75 - 125
2019002	Available Lead (Pb)	2009/11/25	96	75 - 125	97	75 - 125	<0.5	mg/kg	NC	35	98	75 - 125
2019002	Available Lithium (Li)	2009/11/25	106	75 - 125	102	75 - 125	<2	mg/kg	NC	35		
2019002	Available Manganese (Mn)	2009/11/25	NC	75 - 125	102	75 - 125	<2	mg/kg	2.3	35	103	75 - 125
2019002	Available Mercury (Hg)	2009/11/25	97	75 - 125	106	75 - 125	<0.1	mg/kg	NC	35		
2019002	Available Molybdenum (Mo)	2009/11/25	98	75 - 125	98	75 - 125	<2	mg/kg	NC	35		
2019002	Available Nickel (Ni)	2009/11/25	92	75 - 125	98	75 - 125	<2	mg/kg	NC	35	95	75 - 125
2019002	Available Rubidium (Rb)	2009/11/25	103	75 - 125	100	75 - 125	<2	mg/kg	NC	35		
2019002	Available Selenium (Se)	2009/11/25	100	75 - 125	89	75 - 125	<2	mg/kg	NC	35		
2019002	Available Silver (Ag)	2009/11/25	101	75 - 125	98	75 - 125	<0.5	mg/kg	NC	35		
2019002	Available Strontium (Sr)	2009/11/25	102	75 - 125	99	75 - 125	<5	mg/kg	NC	35	91	75 - 125
2019002	Available Thallium (Tl)	2009/11/25	92	75 - 125	95	75 - 125	<0.1	mg/kg	NC	35		
2019002	Available Tin (Sn)	2009/11/25	106	75 - 125	99	75 - 125	<2	mg/kg	NC	35		
2019002	Available Uranium (U)	2009/11/25	98	75 - 125	99	75 - 125	<0.1	mg/kg	NC	35		

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Maxxam Job #: A9F7144
Report Date: 2009/11/27

Stantec Consulting Ltd
Client Project #: 1044857
Project name: NORTHWEST POINT

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
2019002	Available Vanadium (V)	2009/11/25	NC	75 - 125	109	75 - 125	<2	mg/kg	4.5	35	102	75 - 125
2019002	Available Zinc (Zn)	2009/11/25	98	75 - 125	94	75 - 125	<5	mg/kg	NC	35	104	75 - 125

N/A = Not Applicable
RDL = Reportable Detection Limit
RPD = Relative Percent Difference
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
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.
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.
(1) - Low level lab contamination. Minimal impact on data quality.
(2) - Poor RPD due to sample inhomogeneity.

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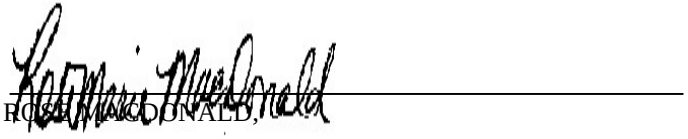
Validation Signature Page

Maxxam Job #: A9F7144

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

ERIC DEARMAN, Scientific Specialist



ROSE MACDONALD, B.Sc.

==========

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. SCC and CALA have approved this reporting process and electronic report format.

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Maxxam Analytics Inc

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CHAIN OF CUSTODY RECORD

26374

INVOICE INFORMATION:

Company Name:

Contact Name:

Address:

Email:

Ph: Fax:

REPORT INFORMATION (if differs from invoice):

Company Name: Stantec

Contact Name: Jim Stacke

Address: 607 Torbay Rd

Email:

Ph: (709) 576-1458 Fax:

PO #: [illegible]

Project #:

Proj. Name:

Location: [illegible]

Quotation#:

Submitted By:

Site Task #:

MAXXAM JOB NUMBER: A9F7144

ENTERED BY, Init: RC

Client Code: 10951

DUE DATE:

STANDARD: [illegible]

RUSH Due Date:

For extra cost rush, specify Due Date. Rush analysis must be scheduled prior to sample submission.

Client will be contacted if Rush date cannot be met.

Specify Guideline Requirements:

*Specify Matrix: Surface/Salt/Ground/Tapwater/Sewage/Effluent/Seawater Potable/NonPotable/Tissue/Soil/Sludge/Metal

Sample Identification	Matrix*	Date/Time Sampled	# & type of bottles	Field Filtered & Preserved	Lab Filtration Required	RCAp-30 Choose Total or Diss Metals	RCAp-MS Choose Total or Diss Metals	Metals Water: Total Digest (Default Method)	Metals Water: Dissolved	Mercury (Mercury is not included in soil or water metals scan)	Metals Soil: Available Metals Digest Default Method (HNO_3/H_2O_2)	Metals Soil: Total Digest - for sediments ($HNO_3/HF/HClO_4$)	Metals Soil: Tin (required for CCME soils)	Metals Soil: Selenium (low level) Req'd for CCME Residential, Parklands, Agricultural	Metals Soil: Hot Water soluble Boron (required for CCME Agricultural)	TPH MUST (BTEX, C_6-C_{32})	Soil (Potable), TPH MUST, NS Fuel Oil Spill Policy Low Level BTEX & C_6-C_{32}	NB Potable Water BTEX, VPH, Low Level TEH	TPH Fractionation	PAH's	PCB's	VOC's EPA 624,8260	Other Analysis or Comments/Hazards
SSM-1 SF	Soil										X					X					X		Silica gel (EK3865)
SSM-2 CR	"										X					X					X		" 66
SSM-3 DS	"										X					X					X		" 67
SSM-4 Sewer	"										X					X					X		" 68
SSM-5 WB	"										X					X					X		" 69
SSM-6 SCB	"										X					X					X		" 70

SHIPPED FROM
19-11-2009
MAXXAM-NL

TPH MUST
Done in Newfoundland

2009 NOV 20 AM 10:35

RELINQUISHED BY: (Signature/Print)	RECEIVED BY: (Signature/Print)	DATE / TIME	PURPOSE OF CHANGE / REMARKS
[signature]	M Dalton	Nov 19/09	
	Jordan Fleury Jordan Fleury	10:35	

TEMP @ Maxxam Receipt: 6.9 <2, <2, <2

INTEGRITY Yes No (circled) Init: JJF

Maxxam Analytics International Corporation o/a Maxxam Analytics 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel:902-420-0203 Toll-free:800-565-7227 Fax:902-420-8612 www.maxxamanalytics.com

Maxxam Analytics Internal Sample Inspection Record & Check-List

Client: Stantec Date: Nov. 20/09 Initial: JTF COC#: 26374

Upon Arrival Checks: ✓ COC Signed/Print & Time Stamp ✓ Temperature taken (3 per cooler)
✓ Custody seal condition reported (required for IOL/Legal)
✓ Invoice &Report Info Complete ___ Urgent Analysis Indicated (fill box in corner)

☐ RUSH (1, 2, or 3 Day TAT, IOL, MICRO & Chlorine) (please indicate Ok'd by analyst, specify date/time below)
☐ HOLD TIME (URGENT!) < 2 Days Remaining
Shortest hold time remaining ___ days (oldest sample)

Sample #	Coliform / Bacteria (300mL/100mL)	RCAp (200mL plastic)	Metals (50mL plastic)	Hg (100mL KCR2 &HNO3)	TKN/PHENOL/COD/TP/AOX (100mL H2SO4)	BOD / TSS (500mL plastic) *Freeze & Stamp Below	Cyanide / Cr+6 (60mL NaOH)	Chlorine (40mL vial- no headspace)	Sulphide (200mL Zinc acetate / HNO3)	MUST /RBCA -(250mL Na2SO4) *in duplicate	MUST /RBCA/ VOC- (40mL Na2SO4- no headspace) *in triplicate	TPH Fractionation/ NB MUST- (1L Na2SO4) *in duplicate	PAH / PCB (250mL glass) *in duplicate	Oil & Grease /Pesticides (1L glass) *in duplicate	Soil parameters (250mL glass)	Soil parameters (60mL glass)	Other 120mL (S)
1																	✓
2																	✓
3																	✓
4																	✓
5																	✓
6																	✓
7																	
8																	
9																	
10																	

Checked that all Bottle Types & # Listed on COC are Correct- Initial _____ (No need to fill in table above)

IOL-N/A (checklist/sticker/storage)
Task# ____
Site#: ____

Stantec –N/A
Phase #: ____
Shell Project: ___ (need checklist)

Bottle ID's & Project # match COC ✓
Analysis Indicated ✓
Flag Required (Yes / No)
Heat Treat (Yes) No) (place sticker below)
Prep Step Required (Yes / No) (place sticker below & indicate instruction in sub-sampling box)

RUSH OK'd in Lab For Date: _____
OK'd by: _____

Storage Assigned: WIF/DRY/RCP
wif 102
BIN/CART A4 Labelled By: ___

If Use of Non-Maxxam COC:
Received By (Signature/Print)
_____

Sample Integrity Deficiency (FLAG)
Yes / No Initials ____

Login date: _____
Login initial: _____
Client #: _____
Maxxam Job #: _____

Use Sticker / Stamp Boxes : (for Prep Crush/ BOD in Freezer/ Heat Treat / Acidified in Lab etc)

Sticker / Stamp

) disposal
y sub-samples)
REAT
disposal

mp

Sticker / Stamp

Login/PM Notes:
_____
_____
_____
_____
_____

Sub-Sampling Notes: _____
_____
_____

Draft Nov 09

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Your Project #: 1044857
Site: NORTHWEST PT
Your C.O.C. #: 26375

Attention: JIM SLADE
Stantec Consulting Ltd
607 Torbay Rd
St. John's, NL
A1A 4Y6

Report Date: 2009/11/27

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A9F7163
Received: 2009/11/20, 10:35

Sample Matrix: Water
Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Carbonate, Bicarbonate and Hydroxide	6	N/A	2009/11/25		
Alkalinity	5	N/A	2009/11/24	ATL SOP 00013 R4	Based on EPA310.2
Alkalinity	1	N/A	2009/11/25	ATL SOP 00013 R4	Based on EPA310.2
Chloride	6	N/A	2009/11/24	ATL SOP 00014 R6	Based on SM4500-Cl-
Colour	6	N/A	2009/11/24	ATL SOP 00020 R3.	Based on SM2120C
Conductance - water	6	N/A	2009/11/25	ATL SOP 00004 R5/00006 R4	Based on SM2510B
Hardness (calculated as CaCO3)	6	N/A	2009/11/26	ATL SOP 00048	Based on SM2340B
Mercury - Total (CVAA,LL)	6	N/A	2009/11/25	ATL SOP 00026 R6	Based on EPA245.1
Metals Water Diss. OES	6	N/A	2009/11/26	ATL SOP 00025 R5	Based on EPA200.7
Metals Water Diss. MS - Low Level	6	N/A	2009/11/23	ATL SOP 00024 R5	Based on EPA6020A
Ion Balance (% Difference)	6	N/A	2009/11/26		
Anion and Cation Sum	6	N/A	2009/11/26		
Nitrogen Ammonia - water	6	N/A	2009/11/24	ATL SOP 00015 R5	Based on USEPA 350.1
Nitrogen - Nitrate + Nitrite	6	N/A	2009/11/25	ATL SOP 00016 R4	Based on USGS - Enz.
Nitrogen - Nitrite	6	N/A	2009/11/24	ATL SOP 00017 R4	Based on USEPA 354.1
Nitrogen - Nitrate (as N)	6	N/A	2009/11/26	ATL SOP 00018 R3	Based on ASTMD3867
pH	6	N/A	2009/11/25	ATL SOP 00003 R5/00005 R7	Based on EPA150.1
Phosphorus - ortho	6	N/A	2009/11/24	ATL SOP 00021 R3	Based on USEPA 365.1
Sat. pH and Langelier Index (@ 20C)	6	N/A	2009/11/26		
Sat. pH and Langelier Index (@ 4C)	6	N/A	2009/11/26		
Reactive Silica	6	N/A	2009/11/24	ATL SOP 00022 R3	Based on EPA 366.0
Sulphate	6	N/A	2009/11/25	ATL SOP 00023 R3	Based on EPA 375.4
Total Dissolved Solids (TDS calc)	6	N/A	2009/11/26		
Organic carbon - Total (TOC)	5	N/A	2009/11/23	ATL SOP 00037 R3	Based on SM5310C
Organic carbon - Total (TOC)	1	N/A	2009/11/24	ATL SOP 00037 R3	Based on SM5310C
Turbidity	6	N/A	2009/11/27	ATL SOP 00011 R4	based on EPA 180.1

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
* Results relate only to the items tested.

../2

This document is in electronic format, hard copy is available on request.

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Maxxam Job #: A9F7163
Report Date: 2009/11/27

Stantec Consulting Ltd
Client Project #: 1044857
Project name: NORTHWEST PT

Encryption Key

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

MICHELLE HILL, Project Manager
Email: Michelle.Hill.Reports@maxxamanalytics.com
Phone# (902) 420-0203

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For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 2

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Maxxam Job #: A9F7163
Report Date: 2009/11/27

Stantec Consulting Ltd
Client Project #: 1044857
Project name: NORTHWEST PT

RESULTS OF ANALYSES OF WATER

Maxxam ID		EK3930			EK3931	EK3931			EK3932		
Sampling Date		2009/11/19			2009/11/19	2009/11/19			2009/11/19		
	Units	**09-SWM1**	**RDL**	**QC Batch**	**09-SWM2**	**09-SWM2 Lab-Dup**	**RDL**	**QC Batch**	**09-SWM3**	**RDL**	**QC Batch**
Calculated Parameters											
Anion Sum	me/L	52.7	N/A	2014541	189		N/A	2014541	252	N/A	2014541
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	84	1	2014538	50		1	2014538	56	1	2014538
Calculated TDS	mg/L	2960	1	2014545	10400		1	2014545	14700	1	2014545
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	1	2014538	<1		1	2014538	<1	1	2014538
Cation Sum	me/L	47.6	N/A	2014541	162		N/A	2014541	254	N/A	2014541
Hardness (CaCO3)	mg/L	480	1	2014539	1600		1	2014539	2400	1	2014539
Ion Balance (% Difference)	%	5.05	N/A	2014540	7.70		N/A	2014540	0.310	N/A	2014540
Langelier Index (@ 20C)	N/A	-0.752		2014543	-0.959			2014543	-0.784		2014543
Langelier Index (@ 4C)	N/A	-0.994		2014544	-1.20			2014544	-1.02		2014544
Nitrate (N)	mg/L	<0.05	0.05	2014542	<0.05		0.05	2015155	0.06	0.05	2015155
Saturation pH (@ 20C)	N/A	8.19		2014543	8.13			2014543	7.94		2014543
Saturation pH (@ 4C)	N/A	8.43		2014544	8.37			2014544	8.18		2014544
Inorganics											
Total Alkalinity (Total as CaCO3)	mg/L	84	5	2017382	50		5	2017382	56	5	2017382
Dissolved Chloride (Cl)	mg/L	1600	30	2017384	6100		100	2017384	8100	100	2017384
Colour	TCU	36	5	2017392	24		5	2017392	21	5	2017392
Nitrate + Nitrite	mg/L	<0.05	0.05	2017396	<0.05		0.05	2017396	0.06	0.05	2017396
Nitrite (N)	mg/L	<0.01	0.01	2017398	<0.01		0.01	2017398	<0.01	0.01	2017398
Nitrogen (Ammonia Nitrogen)	mg/L	0.17	0.05	2017917	<0.05		0.05	2017917	<0.05	0.05	2017917
Total Organic Carbon (C)	mg/L	3.3	0.5	2017298	9		5	2017298	9	5	2017298
Orthophosphate (P)	mg/L	0.02	0.01	2017394	<0.01		0.01	2017394	<0.01	0.01	2017394
pH	pH	7.44	N/A	2019198	7.17	7.27	N/A	2019198	7.16	N/A	2019207
Reactive Silica (SiO2)	mg/L	15	0.5	2017391	3.9		0.5	2017391	1.3	0.5	2017391
Dissolved Sulphate (SO4)	mg/L	220	10	2017387	830		30	2017387	1100	40	2017387
Turbidity	NTU	3.6	0.1	2021599	2.7		0.1	2021599	0.2	0.1	2021599
Conductivity	uS/cm	5400	1	2019204	17000	17000	1	2019204	23000	1	2019213

N/A = Not Applicable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: A9F7163
Report Date: 2009/11/27

Stantec Consulting Ltd
Client Project #: 1044857
Project name: NORTHWEST PT

RESULTS OF ANALYSES OF WATER

Maxxam ID		EK3933			EK3934	EK3934			EK3935		
Sampling Date		2009/11/19			2009/11/19	2009/11/19			2009/11/19		
	Units	**09-SWM4**	**RDL**	**QC Batch**	**09-SWM5**	**09-SWM5 Lab-Dup**	**RDL**	**QC Batch**	**09-SWM6**	**RDL**	**QC Batch**
Calculated Parameters											
Anion Sum	me/L	295	N/A	2014541	313		N/A	2014541	0.0700	N/A	2014541
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	61	1	2014538	67		1	2014538	<1	1	2014538
Calculated TDS	mg/L	17400	1	2014545	18500		1	2014545	12	1	2014545
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	1	2014538	<1		1	2014538	<1	1	2014538
Cation Sum	me/L	309	N/A	2014541	329		N/A	2014541	0.190	N/A	2014541
Hardness (CaCO3)	mg/L	2900	1	2014539	3100		1	2014539	3	1	2014539
Ion Balance (% Difference)	%	2.25	N/A	2014540	2.57		N/A	2014540	46.2	N/A	2014540
Langelier Index (@ 20C)	N/A	0.0740		2014543	-0.0950			2014543	NC		2014543
Langelier Index (@ 4C)	N/A	-0.164		2014544	-0.333			2014544	NC		2014544
Nitrate (N)	mg/L	<0.05	0.05	2015155	0.10		0.05	2015155	<0.05	0.05	2015155
Saturation pH (@ 20C)	N/A	7.84		2014543	7.78			2014543	NC		2014543
Saturation pH (@ 4C)	N/A	8.07		2014544	8.01			2014544	NC		2014544
Inorganics											
Total Alkalinity (Total as CaCO3)	mg/L	62	5	2017382	67	66	5	2017382	<5	5	2017399
Dissolved Chloride (Cl)	mg/L	9400	100	2017384	10000	10000	100	2017384	2	1	2017400
Colour	TCU	18	5	2017392	14	15	5	2017392	210	30	2017405
Nitrate + Nitrite	mg/L	<0.05	0.05	2017396	0.10	0.10	0.05	2017396	<0.05	0.05	2017407
Nitrite (N)	mg/L	<0.01	0.01	2017398	<0.01	<0.01	0.01	2017398	<0.01	0.01	2017409
Nitrogen (Ammonia Nitrogen)	mg/L	0.07	0.05	2017917	<0.05		0.05	2017917	<0.05	0.05	2017917
Total Organic Carbon (C)	mg/L	7	5	2017298	<5(1)		5	2017945	21	1	2017298
Orthophosphate (P)	mg/L	<0.01	0.01	2017394	0.01	0.01	0.01	2017394	<0.01	0.01	2017406
pH	pH	7.91	N/A	2019207	7.68	7.63	N/A	2019207	4.55	N/A	2019207
Reactive Silica (SiO2)	mg/L	0.6	0.5	2017391	1.5	1.5	0.5	2017391	6.4	0.5	2017403
Dissolved Sulphate (SO4)	mg/L	1300	40	2017387	1400	1400	60	2017387	<2	2	2017402
Turbidity	NTU	0.8	0.1	2021599	0.2		0.1	2021599	0.6	0.1	2021599
Conductivity	uS/cm	22000	1	2019213	28000	28000	1	2019213	36	1	2019213

N/A = Not Applicable
NC = Non-calculable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Detection limit increased due to sample matrix.

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Maxxam Job #: A9F7163
Report Date: 2009/11/27

Stantec Consulting Ltd
Client Project #: 1044857
Project name: NORTHWEST PT

MERCURY BY COLD VAPOUR AA (WATER)

Maxxam ID		EK3930	EK3930	EK3931	EK3932	EK3933	EK3934	EK3935		
Sampling Date		2009/11/19	2009/11/19	2009/11/19	2009/11/19	2009/11/19	2009/11/19	2009/11/19		
	Units	**09-SWM1**	**09-SWM1 Lab-Dup**	**09-SWM2**	**09-SWM3**	**09-SWM4**	**09-SWM5**	**09-SWM6**	**RDL**	**QC Batch**
Metals										
Total Mercury (Hg)	ug/L	<0.013	<0.013	<0.013	0.013	0.015	0.015	<0.013	0.013	2018919

ELEMENTS BY ICP-AES (WATER)

Maxxam ID		EK3930	EK3931	EK3932		EK3933	EK3934		EK3935		
Sampling Date		2009/11/19	2009/11/19	2009/11/19		2009/11/19	2009/11/19		2009/11/19		
	Units	**09-SWM1**	**09-SWM2**	**09-SWM3**	**RDL**	**09-SWM4**	**09-SWM5**	**RDL**	**09-SWM6**	**RDL**	**QC Batch**
Metals											
Dissolved Calcium (Ca)	mg/L	39	110	160	1	190	200	1	0.6	0.1	2019795
Dissolved Magnesium (Mg)	mg/L	92	330	500	1	600	650	10	0.3	0.1	2019795
Dissolved Phosphorus (P)	mg/L	<1	<1	<1	1	<1(1)	<1(1)	1	<0.1	0.1	2019795
Dissolved Potassium (K)	mg/L	36	110	170	1	190	210	1	0.5	0.1	2019795
Dissolved Sodium (Na)	mg/L	850	2900	4600	1	5600	6000	10	1.6	0.1	2019795
Dissolved Sulphur (S)	mg/L	67	240	380	5	440	470	5	<0.5	0.5	2019795

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Elevated RDL due to sample matrix.

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ELEMENTS BY ICP/MS (WATER)

Maxxam ID		EK3930		EK3931	EK3932	EK3933	EK3934		EK3935		
Sampling Date		2009/11/19		2009/11/19	2009/11/19	2009/11/19	2009/11/19		2009/11/19		
	Units	**09-SWM1**	**RDL**	**09-SWM2**	**09-SWM3**	**09-SWM4**	**09-SWM5**	**RDL**	**09-SWM6**	**RDL**	**QC Batch**
Metals											
Dissolved Aluminum (Al)	ug/L	<50	50	<500	<500	<500	<500	500	312	5.0	2017193
Dissolved Antimony (Sb)	ug/L	<20	20	<200	<200	<200	<200	200	<2.0	2.0	2017193
Dissolved Arsenic (As)	ug/L	<20	20	<200	<200	<200	<200	200	<2.0	2.0	2017193
Dissolved Barium (Ba)	ug/L	<50	50	<500	<500	<500	<500	500	<5.0	5.0	2017193
Dissolved Beryllium (Be)	ug/L	<20	20	<200	<200	<200	<200	200	<2.0	2.0	2017193
Dissolved Bismuth (Bi)	ug/L	<20	20	<200	<200	<200	<200	200	<2.0	2.0	2017193
Dissolved Boron (B)	ug/L	367	50	1120	1750	2070	2310	500	<5.0	5.0	2017193
Dissolved Cadmium (Cd)	ug/L	<0.17	0.17	<1.7	<1.7	<1.7	<1.7	1.7	0.017	0.017	2017193
Dissolved Chromium (Cr)	ug/L	<10	10	<100	<100	<100	<100	100	23.6	1.0	2017193
Dissolved Cobalt (Co)	ug/L	<4.0	4.0	<40	<40	<40	<40	40	<0.40	0.40	2017193
Dissolved Copper (Cu)	ug/L	<20	20	<200	<200	<200	<200	200	<2.0	2.0	2017193
Dissolved Iron (Fe)	ug/L	1150	500	<5000	<5000	<5000	<5000	5000	523	50	2017193
Dissolved Lead (Pb)	ug/L	<5.0	5.0	<50	<50	<50	<50	50	<0.50	0.50	2017193
Dissolved Manganese (Mn)	ug/L	158	20	<200	<200	<200	<200	200	10.0	2.0	2017193
Dissolved Molybdenum (Mo)	ug/L	<20	20	<200	<200	<200	<200	200	<2.0	2.0	2017193
Dissolved Nickel (Ni)	ug/L	<20	20	<200	<200	<200	<200	200	<2.0	2.0	2017193
Dissolved Selenium (Se)	ug/L	<10	10	<100	<100	<100	<100	100	<1.0	1.0	2017193
Dissolved Silver (Ag)	ug/L	<1.0	1.0	<10	<10	<10	<10	10	<0.10	0.10	2017193
Dissolved Strontium (Sr)	ug/L	615	50	1960	3050	3450	3870	500	6.9	5.0	2017193
Dissolved Thallium (Tl)	ug/L	<1.0	1.0	<10	<10	<10	<10	10	<0.10	0.10	2017193
Dissolved Tin (Sn)	ug/L	<20	20	<200	<200	<200	<200	200	<2.0	2.0	2017193
Dissolved Titanium (Ti)	ug/L	<20	20	<200	<200	<200	<200	200	8.9	2.0	2017193
Dissolved Uranium (U)	ug/L	<1.0	1.0	<10	<10	<10	<10	10	<0.10	0.10	2017193
Dissolved Vanadium (V)	ug/L	<20	20	<200	<200	<200	<200	200	<2.0	2.0	2017193
Dissolved Zinc (Zn)	ug/L	<50	50	<500	<500	<500	<500	500	16.9	5.0	2017193

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Stantec Consulting Ltd
Client Project #: 1044857
Project name: NORTHWEST PT

GENERAL COMMENTS

Sample EK3930-01: Elevated reporting limits for trace metals due to a high chloride content.

Sample EK3931-01: Elevated reporting limits for trace metals due to sample matrix.

Poor RCAp Ion Balance due to sample matrix.

Sample EK3932-01: Elevated reporting limits for trace metals due to sample matrix.

Sample EK3933-01: Elevated reporting limits for trace metals due to sample matrix.

Sample EK3934-01: Elevated reporting limits for trace metals due to sample matrix.

Sample EK3935-01: RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

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QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
2017193	Dissolved Aluminum (Al)	2009/11/23	97	80 - 120	97	80 - 120	<5.0	ug/L			98	80 - 120
2017193	Dissolved Antimony (Sb)	2009/11/23	105	80 - 120	88	80 - 120	<2.0	ug/L			99	80 - 120
2017193	Dissolved Arsenic (As)	2009/11/23	109	80 - 120	96	80 - 120	<2.0	ug/L			88	80 - 120
2017193	Dissolved Barium (Ba)	2009/11/23	NC	80 - 120	93	80 - 120	<5.0	ug/L			100	80 - 120
2017193	Dissolved Beryllium (Be)	2009/11/23	103	80 - 120	92	80 - 120	<2.0	ug/L			80	80 - 120
2017193	Dissolved Bismuth (Bi)	2009/11/23	89	80 - 120	98	80 - 120	<2.0	ug/L			97	80 - 120
2017193	Dissolved Boron (B)	2009/11/23	NC	80 - 120	84	80 - 120	<5.0	ug/L			87	80 - 120
2017193	Dissolved Cadmium (Cd)	2009/11/23	101	80 - 120	92	80 - 120	<0.017	ug/L			92	80 - 120
2017193	Dissolved Chromium (Cr)	2009/11/23	97	80 - 120	98	80 - 120	<1.0	ug/L			101	80 - 120
2017193	Dissolved Cobalt (Co)	2009/11/23	104	80 - 120	99	80 - 120	<0.40	ug/L			101	80 - 120
2017193	Dissolved Copper (Cu)	2009/11/23	94	80 - 120	97	80 - 120	<2.0	ug/L			92	80 - 120
2017193	Dissolved Lead (Pb)	2009/11/23	97	80 - 120	97	80 - 120	<0.50	ug/L			99	80 - 120
2017193	Dissolved Manganese (Mn)	2009/11/23	NC	80 - 120	96	80 - 120	<2.0	ug/L			94	80 - 120
2017193	Dissolved Molybdenum (Mo)	2009/11/23	105	80 - 120	95	80 - 120	<2.0	ug/L			100	80 - 120
2017193	Dissolved Nickel (Ni)	2009/11/23	96	80 - 120	99	80 - 120	<2.0	ug/L			100	80 - 120
2017193	Dissolved Selenium (Se)	2009/11/23	101	80 - 120	91	80 - 120	<1.0	ug/L			69(1, 2)	80 - 120
2017193	Dissolved Silver (Ag)	2009/11/23	89	80 - 120	92	80 - 120	<0.10	ug/L			86	80 - 120
2017193	Dissolved Strontium (Sr)	2009/11/23	NC	80 - 120	94	80 - 120	<5.0	ug/L			93	80 - 120
2017193	Dissolved Thallium (Tl)	2009/11/23	98	80 - 120	98	80 - 120	<0.10	ug/L			101	80 - 120
2017193	Dissolved Tin (Sn)	2009/11/23	101	80 - 120	91	80 - 120	<2.0	ug/L				
2017193	Dissolved Titanium (Ti)	2009/11/23	106	80 - 120	101	80 - 120	<2.0	ug/L				
2017193	Dissolved Uranium (U)	2009/11/23	102	80 - 120	100	80 - 120	<0.10	ug/L				
2017193	Dissolved Vanadium (V)	2009/11/23	105	80 - 120	99	80 - 120	<2.0	ug/L			101	80 - 120
2017193	Dissolved Zinc (Zn)	2009/11/23	109	80 - 120	100	80 - 120	<5.0	ug/L			79(1, 2)	80 - 120
2017193	Dissolved Iron (Fe)	2009/11/23					<50	ug/L			121(1, 2)	80 - 120
2017298	Total Organic Carbon (C)	2009/11/23	NC	75 - 125	107	75 - 125	<0.5	mg/L	0.7	25	100	80 - 120
2017382	Total Alkalinity (Total as CaCO3)	2009/11/24	NC	80 - 120	108	80 - 120	<5	mg/L	2.1	25	102	80 - 120
2017384	Dissolved Chloride (Cl)	2009/11/24	NC	80 - 120	105	80 - 120	<1	mg/L	0.08	25	99	80 - 120
2017387	Dissolved Sulphate (SO4)	2009/11/25	NC	80 - 120	105	80 - 120	<2	mg/L	0.03	25	101	80 - 120
2017391	Reactive Silica (SiO2)	2009/11/24	97	80 - 120	102	80 - 120	<0.5	mg/L	NC	25	100	75 - 125
2017392	Colour	2009/11/24					<5	TCU	NC	25	106	80 - 120
2017394	Orthophosphate (P)	2009/11/24	95	80 - 120	98	80 - 120	<0.01	mg/L	NC	25	100	80 - 120
2017396	Nitrate + Nitrite	2009/11/25	96	80 - 120	96	80 - 120	<0.05	mg/L	NC	25	100	80 - 120
2017398	Nitrite (N)	2009/11/24	98	80 - 120	93	80 - 120	<0.01	mg/L	NC	25	97	80 - 120
2017399	Total Alkalinity (Total as CaCO3)	2009/11/25	99	80 - 120	109	80 - 120	<5	mg/L	NC	25	105	80 - 120
2017400	Dissolved Chloride (Cl)	2009/11/24	105	80 - 120	103	80 - 120	<1	mg/L	NC	25	101	80 - 120
2017402	Dissolved Sulphate (SO4)	2009/11/25	118	80 - 120	104	80 - 120	<2	mg/L	NC	25	98	80 - 120
2017403	Reactive Silica (SiO2)	2009/11/24	101	80 - 120	100	80 - 120	<0.5	mg/L	1.7	25	100	75 - 125
2017405	Colour	2009/11/24					<5	TCU	0.6	25	106	80 - 120
2017406	Orthophosphate (P)	2009/11/24	88	N/A	98	80 - 120	<0.01	mg/L	NC	25	99	80 - 120

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Stantec Consulting Ltd
Client Project #: 1044857
Project name: NORTHWEST PT

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
2017407	Nitrate + Nitrite	2009/11/25	98	80 - 120	96	80 - 120	<0.05	mg/L	NC	25	101	80 - 120
2017409	Nitrite (N)	2009/11/24	69(1, 3)	80 - 120	94	80 - 120	<0.01	mg/L	NC	25	95	80 - 120
2017917	Nitrogen (Ammonia Nitrogen)	2009/11/24	NC	80 - 120	102	80 - 120	<0.05	mg/L	9.3	25	99	80 - 120
2017945	Total Organic Carbon (C)	2009/11/24	108	75 - 125	110	75 - 125	<0.5	mg/L	NC	25	94	80 - 120
2018919	Total Mercury (Hg)	2009/11/25	103	80 - 120	105	80 - 120	<0.013	ug/L	NC	25	101	80 - 120
2019198	pH	2009/11/25					7.17, RDL=0	pH	1.4	25	102	80 - 120
2019204	Conductivity	2009/11/25					2, RDL=1(4)	uS/cm	0.3	25	101	80 - 120
2019207	pH	2009/11/25					7.31, RDL=0	pH	0.7	25	102	80 - 120
2019213	Conductivity	2009/11/25					3, RDL=1(4)	uS/cm	0.4	25	103	80 - 120
2019795	Dissolved Calcium (Ca)	2009/11/26	90	80 - 120	94	80 - 120	<0.1	mg/L	0.7	25	98	80 - 120
2019795	Dissolved Magnesium (Mg)	2009/11/26	94	80 - 120	96	80 - 120	<0.1	mg/L	0.2	25	100	80 - 120
2019795	Dissolved Phosphorus (P)	2009/11/26	102	80 - 120	102	80 - 120	<0.1	mg/L	NC	25	100	80 - 120
2019795	Dissolved Potassium (K)	2009/11/26	103	80 - 120	107	80 - 120	<0.1	mg/L	0.3	25	118	80 - 120
2019795	Dissolved Sodium (Na)	2009/11/26	NC	80 - 120	106	80 - 120	<0.1	mg/L	0.5	25	111	80 - 120
2019795	Dissolved Sulphur (S)	2009/11/26	NC	80 - 120	105	80 - 120	<0.5	mg/L	2.2	25		
2021599	Turbidity	2009/11/27					<0.1	NTU	17.7	25	101	80 - 120

N/A = Not Applicable
RDL = Reportable Detection Limit
RPD = Relative Percent Difference
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
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.
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.
(1) - Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.
(2) - Violation not applicable. Within 3 SD limits.
(3) - Poor spike recovery due to matrix interference. Recovery confirmed by repeat analysis.
(4) - Elevated conductivity value for blank due to carryover from high sample, no impact on data quality.

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Validation Signature Page

Maxxam Job #: A9F7163

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

KEVIN MACDONALD, Inorganics Supervisor

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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. SCC and CALA have approved this reporting process and electronic report format.

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CHAIN OF CUSTODY RECORD 26375

INVOICE INFORMATION:	REPORT INFORMATION (if differs from invoice):		MAXXAM JOB NUMBER:
Company Name:	Company Name: Stantec	PO #: 101483 7 - 2.1.10	A9F7163
Contact Name:	Contact Name: Jim Slade	Project #:	ENTERED BY, Init: BC
Address:	Address: 607 Torbay Rd	Proj. Name:	
		Location:	
		Quotation#:	
Email:	Email:	Submitted By:	
Ph: Fax:	Ph: (709) 576-1458 Fax:	Site Task #:	Client Code: 10951

Specify Guideline Requirements:

*Specify Matrix: Surface/Salt/Ground/Tapwater/Sewage/Effluent/Seawater Potable/NonPotable/Tissue/Soil/Sludge/Metal

DUE DATE:
STANDARD: ✓
RUSH Due Date:
For extra cost rush, specify Due Date. Rush analysis must be scheduled prior to sample submission.
Client will be contacted if Rush date cannot be met.

Sample Identification	Matrix*	Date/Time Sampled	# & type of bottles	Field Filtered & Preserved	Lab Filtration Required	RCAp-30 Choose Total or Diss Metals	RCAp-MS Choose Total or Diss Metals (Metals Water)	Total Digest (Default Method) (Metals Water)	Dissolved (Metals Water)	Mercury (Mercury is not included in soil or water metals scan)	Available Metals Digest Default Method (HNO₃/H₂O₂) (Metals Soil)	Total Digest - for sediments (HNO₃/HF/HClO₄) (Metals Soil)	Tin (required for CCME soils) (Metals Soil)	Selenium (low level) Req'd for CCME Residential, Parklands, Agricultural (Metals Soil)	Hot Water soluble Boron (required for CCME Agricultural) (Metals Soil)	TPH MUST (BTEX, C6-C32)	Soil (Potable), TPH MUST, NS Fuel Oil Spill Policy Low Level BTEX & C6-C32	NB Potable Water BTEX, VPH, Low Level TEH	TPH Fractionation	PAH's	PCB's	VOC's EPA 624,8260	Other Analysis or Comments/Hazards
09-SWM1							X			X						X				EK39	30		
09-SWM2							X			X						X					31		
09-SWM3							X			X						X					32		
09-SWM4							X			X						X					33		
09-SWM5							X			X						X					34		
09-SWM6							X			X						X					35		

SHIPPED FROM
19-11-2009
MAXXAM-NL

TPH MUST
Done in Newfoundland

RELINQUISHED BY: (Signature/Print)	RECEIVED BY: (Signature/Print)	DATE / TIME	PURPOSE OF CHANGE / REMARKS	TEMP © Maxxam 2009 NOV 20 AM 10:35
Mollie Beane	M Dalton	Nov 19/09		4 7 62, 42, 62
	Jordan Fleury Jordan Fleury	10 25		INTEGRITY Init: JTF Yes (No)

Maxxam Analytics — Internal Sample Inspection Record & Check-List

Client: Stantec Date: Nov. 20/09 Initial: JF COC#: 26375

Upon Arrival Checks: ✓ COC Signed/Print & Time Stamp ✓ Temperature taken (3 per cooler)
✓ Custody seal condition reported (required for IOL/Legal)
✓ Invoice &Report Info Complete ___ Urgent Analysis Indicated (fill box in corner)

☐ RUSH (1, 2, or 3 Day TAT, IOL, MICRO & Chlorine) (please indicate Ok'd by analyst, specify date/time below)
☐ HOLD TIME (URGENT!) < 2 Days Remaining
Shortest hold time remaining ___ days (oldest sample)

Sample #	Coliform / Bacteria (300mL/100mL)	RCAp (200mL plastic)	Metals (50mL plastic)	Hg (100mL KCR2 &HNO3)	TKN/PHENOL/COD/TP/AOX (100mL H2SO4)	BOD / TSS (500mL plastic) *Freeze & Stamp Below	Cyanide / Cr+6 (60mL NaOH)	Chlorine (40mL vial- no headspace)	Sulphide (200mL Zinc acetate / HNO3)	MUST /RBCA -(250mL Na2SO4) *in duplicate	MUST /RBCA/ VOC- (40mL Na2SO4- no headspace) *in triplicate	TPH Fractionation/ NB MUST- (1L Na2SO4) *in duplicate	PAH / PCB (250mL glass) *in duplicate	Oil & Grease /Pesticides (1L glass) *in duplicate	Soil parameters (250mL glass)	Soil parameters (60mL glass)	Other
1		1	1	1													
2		1	1	1													
3		1	1	1													
4		1	1	1													
5		1	1	1													
6		1	1	1													
7																	
8																	
9																	
10																	

Checked that all Bottle Types & # Listed on COC are Correct- Initial ___ (No need to fill in table above)

IOL-N/A (checklist/sticker/storage)
Task# ___
Site#: ___

Stantec-N/A
Phase #: ___
Shell Project: No (need checklist)

Bottle ID's & Project #match COC ✓
Analysis Indicated ✓
Flag Required (Yes / No)
Heat Treat (Yes/ No) (place sticker below)
Prep Step Required (Yes / No) (place sticker below & indicate instruction in sub-sampling box)

RUSH OK'd in Lab For Date: ___
OK'd by: ___

Storage Assigned: WIF/DRY/RCP rcp 824

BIN/CART 38 Labelled By: ___

If Use of Non-Maxxam COC:
Received By (Signature/Print)

Sample Integrity Deficiency (FLAG)
Yes / No Initials ___

Login date: ___
Login initial: ___
Client #: ___
Maxxam Job #: ___

Use Sticker / Stamp Boxes : (for Prep Crush/ BOD in Freezer/ Heat Treat / Acidified in Lab etc)

Sticker / Stamp	Sticker / Stamp	Sticker / Stamp

Login/PM Notes: Matrix → Water

Sub-Sampling Notes: ___

Draft Nov 09

Maxxam Analytics International Corporation o/a Maxxam Analytics 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel:902-420-0203 Toll-free:800-565-7227 Fax:902-420-8612 www.maxxamanalytics.com

Your Project #: 121410105
Your C.O.C. #: 19817

Attention: Jim Slade
Stantec Consulting Ltd
607 Torbay Rd
St. John's, NL
A1A 4Y6

Report Date: 2010/04/26

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B044778
Received: 2010/04/15, 9:31

Sample Matrix: TISSUE
Samples Received: 15

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Lipids (Crude Fat)	15	2010/04/16	2010/04/16		AOAC 948.16
Metals Tissue MS - Nitric	15	2010/04/20	2010/04/20	ATL SOP 00024 R5	Based on EPA6020A
PCBs in tissue by GC/ECD	15	2010/04/16	2010/04/26	ATL SOP 00110 R3	Based on EPA8082

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
* Results relate only to the items tested.

Encryption Key

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

MICHELLE HILL, Project Manager
Email: Michelle.Hill@maxxamanalytics.com
Phone# (902) 420-0203

==========

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.

Total cover pages: 1

Maxxam Job #: B044778
Report Date: 2010/04/26

Stantec Consulting Ltd
Client Project #: 121410105

RESULTS OF ANALYSES OF TISSUE

Maxxam ID		FP0003	FP0056	FP0057	FP0058	FP0058	FP0059	FP0060	FP0061	FP0062	FP0063		
Sampling Date		2010/04/14	2010/04/14	2010/04/14	2010/04/14	2010/04/14	2010/04/14	2010/04/14	2010/04/14	2010/04/14	2010/04/14		
	Units	**DUMP SITE - FS01**	**DUMP SITE - FS03**	**DUMP SITE - FS05**	**SEWER SITE - FS01**	**SEWER SITE - FS01 Lab-Dup**	**SEWER SITE - FS03**	**SEWER SITE - FS07**	**SEWER SITE - FS10**	**DUMP SITE - FS09**	**CAMP ROAD - FS06**	**RDL**	**QC Batch**
Inorganics													
Crude Fat	%	5.7	6.8	5.5	3.6	4.1	2.3	7.0	11	8.9	10	0.5	2129933

Maxxam ID		FP0064	FP0065	FP0066	FP0067	FP0068	FP0069		
Sampling Date		2010/04/14	2010/04/14	2010/04/14	2010/04/14	2010/04/14	2010/04/14		
	Units	**CAMP ROAD - FS09**	**CAMP ROAD - FS01**	**CAMP ROAD - FS03**	**BACKGROUND 1 - FS1**	**BACKGROUND 1 - FS5**	**BACKGROUND 1 - FS9**	**RDL**	**QC Batch**
Inorganics									
Crude Fat	%	11	8.6	11	9.2	8.6	10	0.5	2129933

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B044778
Report Date: 2010/04/26

Stantec Consulting Ltd
Client Project #: 121410105

ELEMENTS BY ICP/MS (TISSUE)

Maxxam ID		FP0003	FP0056	FP0057	FP0058	FP0059	FP0060	FP0061	FP0062	FP0063	FP0064		
Sampling Date		2010/04/14	2010/04/14	2010/04/14	2010/04/14	2010/04/14	2010/04/14	2010/04/14	2010/04/14	2010/04/14	2010/04/14		
	Units	**DUMP SITE - FS01**	**DUMP SITE - FS03**	**DUMP SITE - FS05**	**SEWER SITE - FS01**	**SEWER SITE - FS03**	**SEWER SITE - FS07**	**SEWER SITE - FS10**	**DUMP SITE - FS09**	**CAMP ROAD - FS06**	**CAMP ROAD - FS09**	**RDL**	**QC Batch**
Metals													
Aluminum (Al)	mg/kg	15.0	<2.5	4.7	15.6	<2.5	<2.5	5.7	13.0	35.2	18.0	2.5	2128949
Antimony (Sb)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	2128949
Arsenic (As)	mg/kg	2.88	1.46	1.69	2.09	1.43	1.80	1.72	1.54	1.89	1.58	0.50	2128949
Barium (Ba)	mg/kg	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	1.6	1.5	2128949
Beryllium (Be)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	2128949
Boron (B)	mg/kg	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	1.5	2128949
Cadmium (Cd)	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	2128949
Chromium (Cr)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	2128949
Cobalt (Co)	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	2128949
Copper (Cu)	mg/kg	1.57	1.17	0.96	1.14	0.74	0.75	1.44	1.47	1.31	1.31	0.50	2128949
Iron (Fe)	mg/kg	28	<15	<15	26	<15	<15	23	39	75	46	15	2128949
Lead (Pb)	mg/kg	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	0.18	2128949
Lithium (Li)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	2128949
Manganese (Mn)	mg/kg	1.26	1.39	1.13	0.86	0.55	0.97	6.62	9.39	8.04	10.9	0.50	2128949
Molybdenum (Mo)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	2128949
Nickel (Ni)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	2128949
Selenium (Se)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	<0.50	0.50	2128949
Silver (Ag)	mg/kg	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	0.12	2128949
Strontium (Sr)	mg/kg	10.8	15.1	22.6	10.7	9.5	9.7	66.5	63.9	57.7	58.7	1.5	2128949
Thallium (Tl)	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	2128949
Tin (Sn)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	2128949
Uranium (U)	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	2128949
Vanadium (V)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	2128949
Zinc (Zn)	mg/kg	12.8	23.8	15.4	15.9	12.4	21.0	43.4	48.2	43.8	49.4	1.5	2128949

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B044778
Report Date: 2010/04/26

Stantec Consulting Ltd
Client Project #: 121410105

ELEMENTS BY ICP/MS (TISSUE)

Maxxam ID		FP0065	FP0066	FP0067	FP0068	FP0069		
Sampling Date		2010/04/14	2010/04/14	2010/04/14	2010/04/14	2010/04/14		
	Units	**CAMP ROAD - FS01**	**CAMP ROAD - FS03**	**BACKGROUND 1 - FS1**	**BACKGROUND 1 - FS5**	**BACKGROUND 1 - FS9**	**RDL**	**QC Batch**
Metals								
Aluminum (Al)	mg/kg	14.9	17.4	38.4	10.1	30.7	2.5	2128949
Antimony (Sb)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	2128949
Arsenic (As)	mg/kg	1.97	1.92	1.70	1.56	1.75	0.50	2128949
Barium (Ba)	mg/kg	<1.5	<1.5	<1.5	1.8	1.6	1.5	2128949
Beryllium (Be)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	2128949
Boron (B)	mg/kg	<1.5	<1.5	<1.5	<1.5	<1.5	1.5	2128949
Cadmium (Cd)	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	2128949
Chromium (Cr)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	2128949
Cobalt (Co)	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	2128949
Copper (Cu)	mg/kg	1.18	1.39	1.37	1.13	1.57	0.50	2128949
Iron (Fe)	mg/kg	43	37	96	53	139	15	2128949
Lead (Pb)	mg/kg	<0.18	<0.18	<0.18	<0.18	0.19	0.18	2128949
Lithium (Li)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	2128949
Manganese (Mn)	mg/kg	8.63	6.52	7.57	8.65	8.33	0.50	2128949
Molybdenum (Mo)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	2128949
Nickel (Ni)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	2128949
Selenium (Se)	mg/kg	0.52	<0.50	<0.50	<0.50	<0.50	0.50	2128949
Silver (Ag)	mg/kg	<0.12	<0.12	<0.12	<0.12	<0.12	0.12	2128949
Strontium (Sr)	mg/kg	63.9	50.9	50.1	67.3	60.4	1.5	2128949
Thallium (Tl)	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	2128949
Tin (Sn)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	2128949
Uranium (U)	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	2128949
Vanadium (V)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	2128949
Zinc (Zn)	mg/kg	47.3	46.8	46.1	51.9	43.1	1.5	2128949

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B044778
Report Date: 2010/04/26

Stantec Consulting Ltd
Client Project #: 121410105

POLYCHLORINATED BIPHENYLS BY GC-ECD (TISSUE)

Maxxam ID		FP0003	FP0056	FP0057	FP0058	FP0059	FP0059	FP0060	FP0061	FP0062	FP0063		
Sampling Date		2010/04/14	2010/04/14	2010/04/14	2010/04/14	2010/04/14	2010/04/14	2010/04/14	2010/04/14	2010/04/14	2010/04/14		
	Units	**DUMP SITE - FS01**	**DUMP SITE - FS03**	**DUMP SITE - FS05**	**SEWER SITE - FS01**	**SEWER SITE - FS03**	**SEWER SITE - FS03 Lab-Dup**	**SEWER SITE - FS07**	**SEWER SITE - FS10**	**DUMP SITE - FS09**	**CAMP ROAD - FS06**	**RDL**	**QC Batch**
PCBs													
Total PCB	ug/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2126774
Surrogate Recovery (%)													
2,4,5,6-Tetrachloro-m-xylene	%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		2126774
Decachlorobiphenyl	%	107	94	98	113	95	102	104	101	89	93		2126774

Maxxam ID		FP0064	FP0065	FP0066	FP0067	FP0068	FP0069		
Sampling Date		2010/04/14	2010/04/14	2010/04/14	2010/04/14	2010/04/14	2010/04/14		
	Units	**CAMP ROAD - FS09**	**CAMP ROAD - FS01**	**CAMP ROAD - FS03**	**BACKGROUND 1 - FS1**	**BACKGROUND 1 - FS5**	**BACKGROUND 1 - FS9**	**RDL**	**QC Batch**
PCBs									
Total PCB	ug/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	2126774
Surrogate Recovery (%)									
2,4,5,6-Tetrachloro-m-xylene	%	NA	NA	NA	NA	NA	NA		2126774
Decachlorobiphenyl	%	96	102	92	88	100	92		2126774

N/A = Not Applicable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B044778
Report Date: 2010/04/26

Stantec Consulting Ltd
Client Project #: 121410105

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard		Reagent Blank	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits	% Recovery	QC Limits
2126774	2,4,5,6-Tetrachloro-m-xylene	2010/04/26	NA	30 - 130	NA	30 - 130	NA	%					NA	30 - 130
2126774	Decachlorobiphenyl	2010/04/26	108	30 - 130	110	30 - 130	89	%					92	30 - 130
2126774	Total PCB	2010/04/26	109	30 - 130	89	30 - 130	<0.05	ug/g	NC	50			<0.05	N/A
2128949	Aluminum (Al)	2010/04/20	NC	75 - 125	112	75 - 125	<2.5	mg/kg						
2128949	Antimony (Sb)	2010/04/20	98	75 - 125	91	75 - 125	<0.50	mg/kg						
2128949	Arsenic (As)	2010/04/20	NC	75 - 125	94	75 - 125	<0.50	mg/kg	NC	25	95	75 - 125		
2128949	Barium (Ba)	2010/04/20	101	75 - 125	98	75 - 125	<1.5	mg/kg						
2128949	Beryllium (Be)	2010/04/20	96	75 - 125	90	75 - 125	<0.50	mg/kg						
2128949	Boron (B)	2010/04/20	91	75 - 125	75	75 - 125	<1.5	mg/kg						
2128949	Cadmium (Cd)	2010/04/20	99	75 - 125	91	75 - 125	<0.050	mg/kg	NC	25	97	75 - 125		
2128949	Chromium (Cr)	2010/04/20	77	75 - 125	98	75 - 125	<0.50	mg/kg			79	75 - 125		
2128949	Cobalt (Co)	2010/04/20	97	75 - 125	98	75 - 125	<0.20	mg/kg						
2128949	Copper (Cu)	2010/04/20	NC	75 - 125	109	75 - 125	<0.50	mg/kg	NC(1)	25	93	75 - 125		
2128949	Iron (Fe)	2010/04/20	NC	75 - 125	104	75 - 125	<15	mg/kg			91	75 - 125		
2128949	Lead (Pb)	2010/04/20	93	75 - 125	96	75 - 125	<0.18	mg/kg			58(2, 3)	75 - 125		
2128949	Lithium (Li)	2010/04/20	93	75 - 125	91	75 - 125	<0.50	mg/kg						
2128949	Manganese (Mn)	2010/04/20	109	75 - 125	107	75 - 125	<0.50	mg/kg						
2128949	Molybdenum (Mo)	2010/04/20	95	75 - 125	91	75 - 125	<0.50	mg/kg						
2128949	Nickel (Ni)	2010/04/20	95	75 - 125	99	75 - 125	<0.50	mg/kg						
2128949	Selenium (Se)	2010/04/20	NC	75 - 125	86	75 - 125	<0.50	mg/kg						
2128949	Silver (Ag)	2010/04/20	92	75 - 125	100	75 - 125	<0.12	mg/kg						
2128949	Strontium (Sr)	2010/04/20	NC	75 - 125	95	75 - 125	<1.5	mg/kg						
2128949	Thallium (Tl)	2010/04/20	89	75 - 125	94	75 - 125	<0.020	mg/kg						
2128949	Tin (Sn)	2010/04/20	NC	75 - 125	88	75 - 125	<0.50	mg/kg						
2128949	Uranium (U)	2010/04/20	98	75 - 125	91	75 - 125	<0.020	mg/kg						
2128949	Vanadium (V)	2010/04/20	90	75 - 125	96	75 - 125	<0.50	mg/kg						

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Maxxam Job #: B044778
Report Date: 2010/04/26

Stantec Consulting Ltd
Client Project #: 121410105

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard		Reagent Blank	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits	% Recovery	QC Limits
2128949	Zinc (Zn)	2010/04/20	NC	75 - 125	97	75 - 125	<1.5	mg/kg			92	75 - 125		
2129933	Crude Fat	2010/04/16					<0.5	%	13.0	25	84	80 - 120		

N/A = Not Applicable
RPD = Relative Percent Difference
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
Reagent Blank: A blank matrix containing all reagents used in the analytical procedure. Used to determine any analytical contamination.
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
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.
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.
(1) - Poor RPD due to sample inhomogeneity.
(2) - Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.
(3) - Typical recovery for RM matrix. Secondary RM is acceptable.

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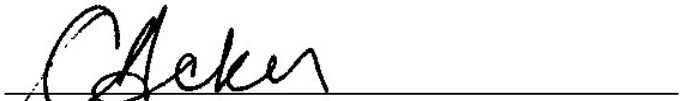
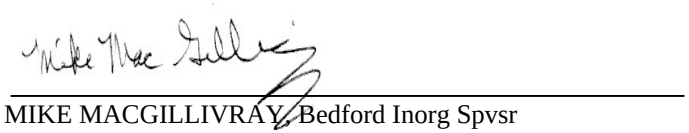
Validation Signature Page

Maxxam Job #: B044778

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



COLLEEN ACKER,



MIKE MACGILLIVRAY, Bedford Inorg Spvsr

ROBIN SMITH,

==========

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