APPENDIX A

Drawings

NOTE: THIS DRAWING ILLUSTRATES SUPPORTING INFORMATION SPECIFIC TO A STANTEC CONSULTING LTD. REPORT AND MUST NOT BE USED FOR OTHER PURPOSES.

CLIENT:
NEWFOUNDLAND AND LABRADOR DEPARTMENT OF ENVIRONMENT AND CONSERVATION

PROJECT TITLE:
IMPLEMENTATION OF REMEDIAL ACTION PLAN - YEAR 1, FORMER U.S. MILITARY SITE AND RESIDENTIAL SUBDIVISION, HOPEDALE, NL

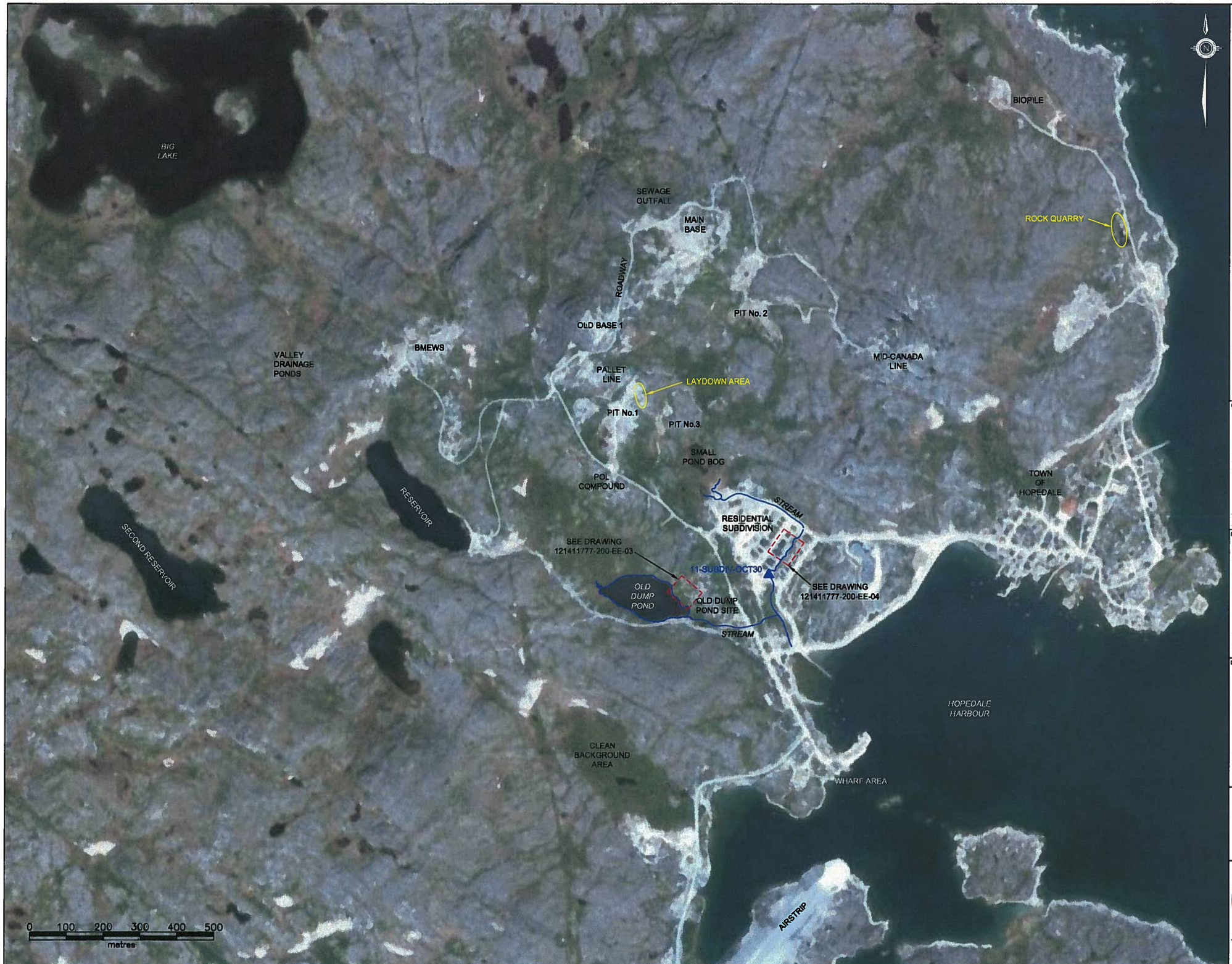
DRAWING TITLE:
SITE LOCATION PLAN

SCALE: 1:50,000	DATE: FEB. 20, 2012
DRAWN BY: R.L.	CHECKED BY: A.R.
EDITED BY: -	REV. No. 0
DRAWING No: 121411777-200-EE-01	
CAD FILE: 121411777-200-EE-01.DWG	

Stantec

Stantec Consulting Ltd. © 2012

12MAR12 9:15AM



LEGEND

STREAM

SURFACE WATER SAMPLE LOCATION (STANTEC, 2011)

NOTE: THIS DRAWING ILLUSTRATES SUPPORTING INFORMATION SPECIFIC TO A STANTEC CONSULTING LTD. REPORT AND MUST NOT BE USED FOR OTHER PURPOSES.

CLIENT:

NEWFOUNDLAND AND LABRADOR
DEPARTMENT OF ENVIRONMENT
AND CONSERVATION

PROJECT TITLE:

IMPLEMENTATION OF REMEDIAL ACTION PLAN - YEAR 1, FORMER U.S. MILITARY SITE AND RESIDENTIAL SUBDIVISION, HOPEDALE, NL

DRAWING TITLE:

SITE PLAN

Stantec Consulting Ltd.

SCALE: 1:10,000	DATE: FEB. 20, 2012
DRAWN BY: R.L.	CHECKED BY: A.R.
EDITED BY: -	REV. No. 0
DRAWING No: 121411777-200-EE-02	
CAD FILE: 121411777-200-EE-02.DWG	

Stantec

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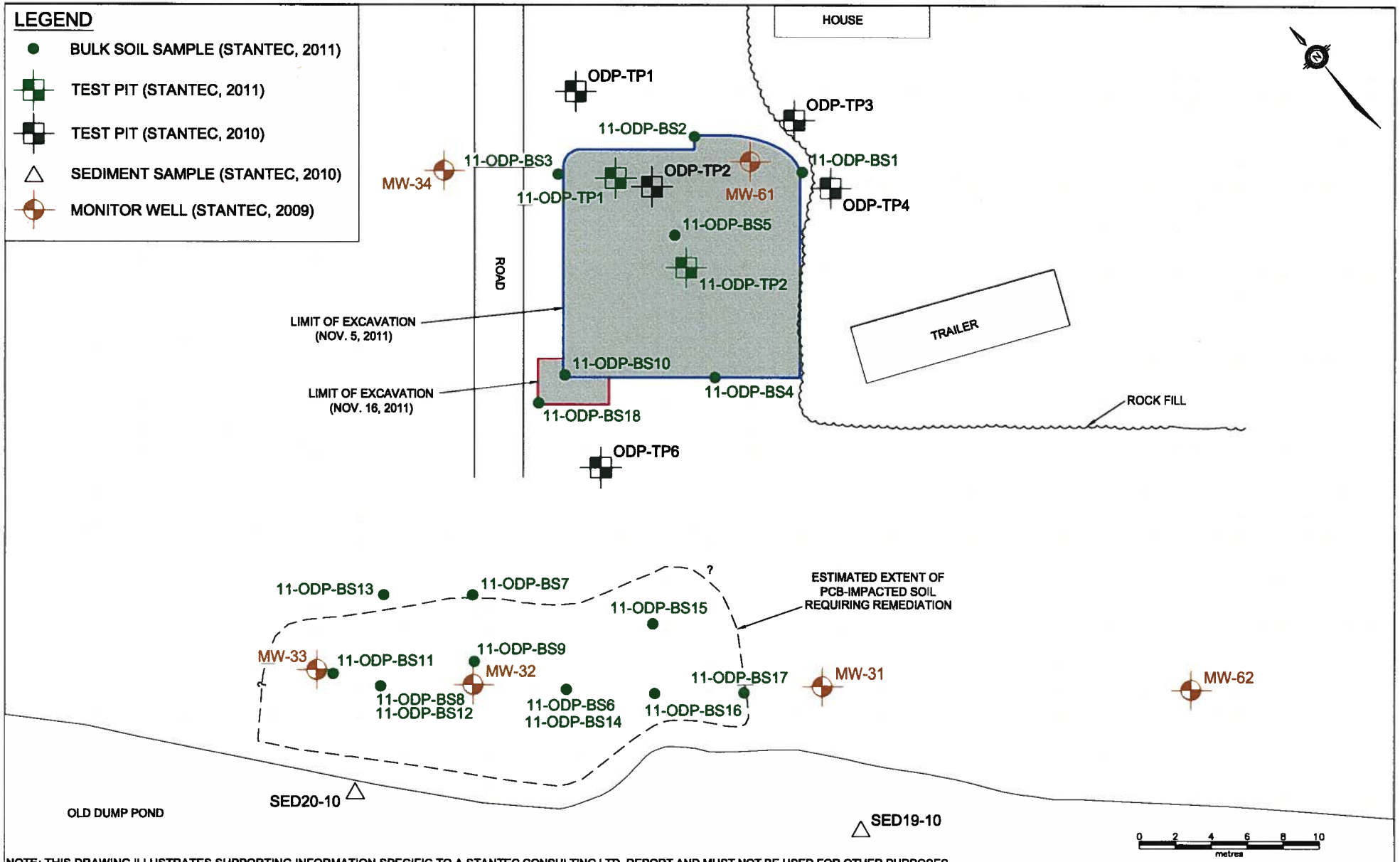
12MAR12 10:40AM



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CLIENT:
NEWFOUNDLAND AND LABRADOR DEPARTMENT OF ENVIRONMENTAL AND CONSERVATION

PROJECT TITLE:
IMPLEMENTATION OF REMEDIAL ACTION PLAN - YEAR 1,
FORMER U.S. MILITARY SITE AND RESIDENTIAL SUBDIVISION, HOPEDALE, NL

DRAWING TITLE:
REMEDIATION AREA AND SAMPLE LOCATION PLAN - OLD DUMP POND

SCALE: 1:300	DATE: FEB. 20, 2012
DRAWN BY: R.L.	CHECKED BY: KJ
EDITED BY: -	REV. No. 0
DRAWING No: 121411777-200-EE-03	
CAD FILE: 121411777-200-EE-03.DWG	

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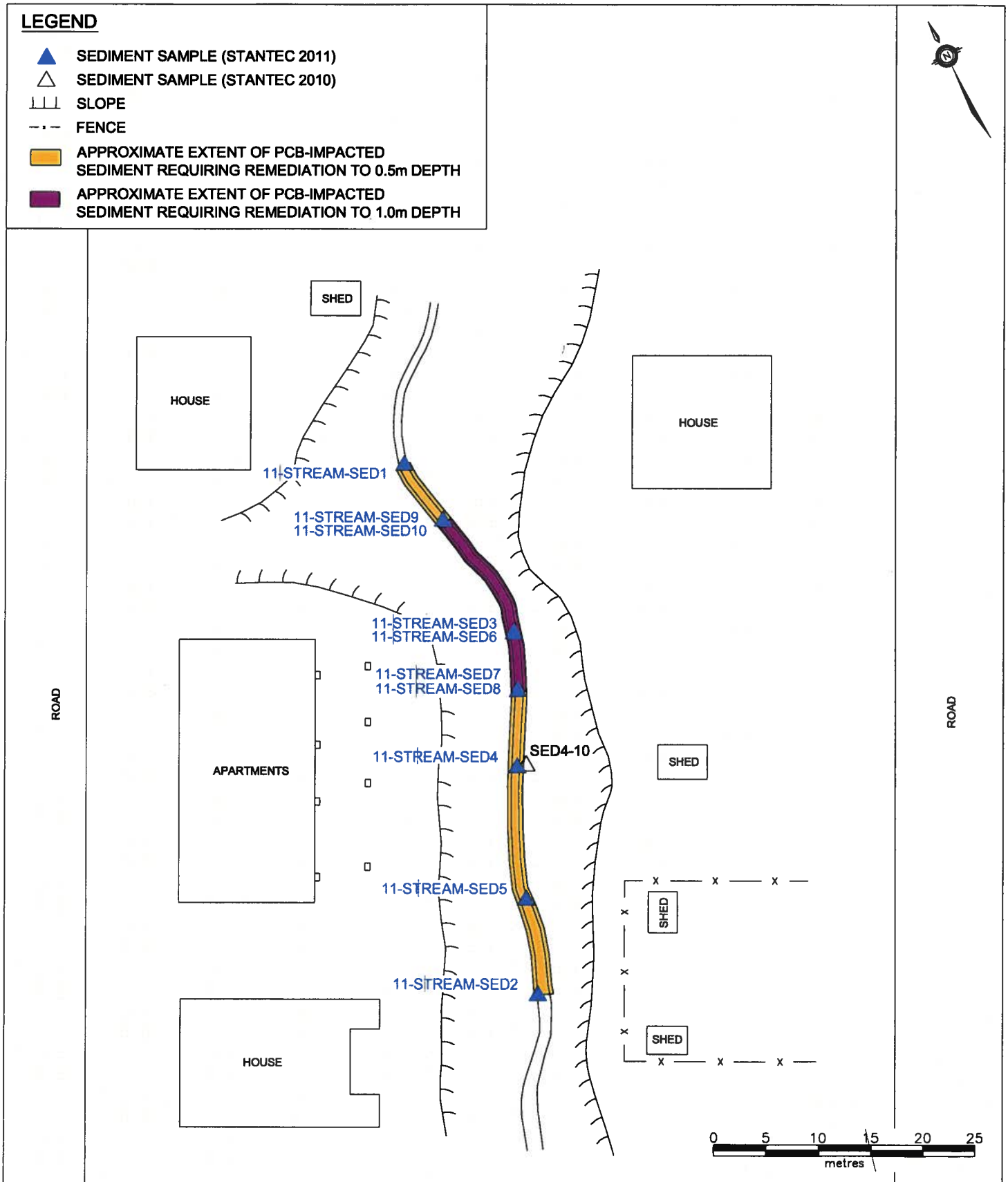
14MAR12 10:46AM

LEGEND

- SEDIMENT SAMPLE (STANTEC 2011)
- SEDIMENT SAMPLE (STANTEC 2010)
- SLOPE
- FENCE
- APPROXIMATE EXTENT OF PCB-IMPACTED SEDIMENT REQUIRING REMEDIATION TO 0.5m DEPTH
- APPROXIMATE EXTENT OF PCB-IMPACTED SEDIMENT REQUIRING REMEDIATION TO 1.0m DEPTH



NOTE: THIS DRAWING ILLUSTRATES SUPPORTING INFORMATION SPECIFIC TO A STANTEC CONSULTING LTD. REPORT AND MUST NOT BE USED FOR OTHER PURPOSES.

CLIENT: NEWFOUNDLAND AND LABRADOR DEPARTMENT OF ENVIRONMENTAL AND CONSERVATION

PROJECT TITLE: IMPLEMENTATION OF REMEDIAL ACTION PLAN - YEAR 1, FORMER U.S. MILITARY SITE AND RESIDENTIAL SUBDIVISION, HOPEDALE, NL

DRAWING TITLE: REMEDIATION AREA AND SAMPLE LOCATION PLAN - STREAM

SCALE: 1:500	DATE: FEB. 21, 2012
DRAWN BY: R.L.	CHECKED BY: KJ
EDITED BY: -	REV. No. 0
DRAWING No: 121411777-200-EE-04	
CAD FILE: 121411777-200-EE-04.DWG	

Stantec

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12MAR12 10:26AM

APPENDIX B

Site Photographs

Old Dump Pond

Site Photographs – Implementation of Remedial Action Plan – Year 1, Former U.S. Military Site and Residential Subdivision, Hopedale, NL

Photo 1 View of access road to the Old Dump Pond Site, looking southwest.

Photo 2 View of area requiring remediation surrounding MW-61 following site clearing and grubbing, looking south.

Photo 3 View of area requiring remediation surrounding MW-61 looking southwest towards Old Dump Pond.

Photo 4 Site grubbing.

Photo 5 View of monitor wells MW-32 and MW-33 and survey stakes showing location of soil samples 11-ODP-BS7 and 11-ODP-BS8.

Photo 6 Removal of large rocks.

Photo 7 View of start of remedial activities in the vicinity of former monitor well MW-61 on October 31, 2011.

Photo 8 View of soil being loaded into bag on November 1, 2011.

Photo 9 View of buried debris encountered in the remedial excavation.

Photo 10 View of bedrock encountered at the base of the remedial excavation.

Photo 11 View of scrap metal pile on November 3, 2011.

Photo 12 View of collection of swab sample 11-ODP-Swab1.

Photo 13 View of remedial excavation on November 5, 2011.

Photo 14 View of site during backfilling on November 16, 2011.

Photo 15 View of scrap metal and backfilled excavation at Old Dump Pond on November 16, 2011, looking north.

Photo 16 View of scrap metal at Old Dump Pond on November 16, 2011, looking southeast.

Photo 17 View of scrap metal covered with excavator bucket at the Old Dump Pond site on December 15, 2011.

Stream

Photo 18 View of stream prior to site clearing and grubbing.

Photo 19 View of stream prior to site clearing and grubbing.

Photo 20 View of grubbed stream on October 4, 2011.

Photo 21 View of grubbed stream on October 4, 2011.

Photo 22 View of trenched stream on October 30, 2011.

Laydown Area

Photo 23 View of laydown area prior to installation of the liners.

Photo 24 View of liner installation at the laydown area on November 1, 2011.

Photo 25 View of bag placement at the laydown area on November 2, 2011.

Photo 26 View of bags at laydown area at Pit No. 1 on November 16, 2011, looking east from the main access road.

Photo 27 View of bags at laydown area on November 16, 2011, looking northeast.

Photo 28 View of bags at laydown area on November 16, 2011, looking east.

Photo 29 View of bags at laydown area on November 16, 2011, looking southeast.

Photo 30 View of excavator blocking access to the laydown area on December 15, 2011.

APPENDIX C

Laboratory Analytical Results Summary Tables

Table C.1 Results of Laboratory Analysis of PCBs in Soil - Old Dump Pond
Implementation of Remedial Action Plan - Year 1
Former US Military Base and Residential Subdivision, Hopedale, NL
Stantec Project No. 121411777.200

Sample ID	Sample Depth (m)	Polychlorinated Biphenyls (PCBs)	Comments
	RDL	0.05	-
	Units	mg/kg	-
	SSTL[1]	9	-
2009 Sampling - Stantec			
MW31-SS2	1.5 - 2.1	<0.05	-
MW32-SS2	0.6 - 1.2	***25***	-
MW33-SS2	0.6 - 1.2	4	-
MW61-SS1	0.0 - 0.5	***29***	-
MW62-SS3	1.2 - 1.8	0.2	-
AG2-FS2	1.5	0.54	-
AG4-FS1	0.3	1.1	-
2010 Sampling - Stantec			
ODP-TP1 BS1	0 - 0.15	5.6	-
ODP-TP2 BS1	0 - 0.3	***50***	-
ODP-TP3 BS1	0 - 0.5	<0.05	-
ODP-TP4 BS1	0 - 0.1	0.23	-
ODP-TP6 BS1	0 - 0.5	8.9	-
2011 Sampling - Stantec			
11-ODP-TP1	0.0 - 1.0	***11***	-
11-ODP-TP2	0.0 - 1.0	***14***	-
11-ODP-BS1	0.0 - 0.1	2.5	Aroclor 1254, 1260.
11-ODP-BS2	0.0 - 0.5	0.8	Aroclor 1260.
11-ODP-BS3	0.0 - 0.5	0.59	Aroclor 1254, 1260.
11-ODP-BS4	0.0 - 0.5	4.1	Aroclor 1254, 1260.
11-ODP-BS5	1.0	***34***	Aroclor 1242, 1254, 1260.
11-ODP-BS10	0.0 - 0.7	***18***	Aroclor 1254, 1260.
11-ODP-BS18	0.3 - 0.5	0.41	Aroclor 1254, 1260.
11-ODP-BS6	0.0 - 0.5	***64***	Aroclor 1254, 1260.
11-ODP-BS7	0.0 - 0.5	8.9	Aroclor 1254, 1260.
11-ODP-BS8	0.0 - 0.5	***67***	Aroclor 1254, 1260.
11-ODP-BS9	0.7	***39***	Aroclor 1254, 1260.
11-ODP-BS11	0.0 - 0.5	***12***	Aroclor 1254, 1260.
11-ODP-BS12	1.3 - 1.4	1.1	Aroclor 1260.
11-ODP-BS13	0.0 - 0.5	4.1	Aroclor 1254, 1260.
11-ODP-BS14	1.4 - 1.5	0.94	Aroclor 1260.
11-ODP-BS15	0.0 - 0.5	***39***	Aroclor 1254, 1260.
11-ODP-BS16	0.0 - 0.5	***28***	Aroclor 1254, 1260.
11-ODP-BS17	0.0 - 0.5	8.3	Aroclor 1254, 1260.

Notes:
1 = Site Specific Target Level (SSTL) calculated for PCBs at the Residential Area of Hopedale (Stantec, 2010)
RDL = Reportable Detection Limit for routine analysis
< # = Not detected above RDL noted
Bold/Shaded = Value exceeds SSTL calculated for PCBs at the Residential Area of Hopedale (Stantec, 2010)

Table C.2 Results of Laboratory Analysis of PCBs on Metal - Old Dump Pond
Implementation of Remedial Action Plan - Year 1
Former US Military Base and Residential Subdivision, Hopedale, NL
Stantec Project No. 121411777.200

Sample ID	Sample Location	Polychlorinated Biphenyls (PCBs)	Comments
	RDL	5	-
	Units	µg	-
2011 Sampling - Stantec			
11-ODP-SWAB1	Rusted barrel (unwashed)	<5	-
11-ODP-SWAB2	Scrap metal (unwashed)	<5	-
11-ODP-SWAB3	Scrap metal (unwashed)	<5	-

Notes:
RDL = Reportable Detection Limit for routine analysis
< # = Not detected above RDL noted

Table C.3 Results of Laboratory Analysis of PCBs in Sediment - Stream
Implementation of Remedial Action Plan - Year 1
Former US Military Base and Residential Subdivision, Hopedale, NL
Stantec Project No. 121411777.200

Sample ID	Sample Depth (m)	Total Organic Carbon (TOC)	Polychlorinated Biphenyls (PCBs)
	RDL	0.2	0.05
	Units	g/kg	mg/kg
	SSTL[1]	-	9
2009 Sampling - Stantec (Subdivision Stream)			
SED-65	0.0 - 0.3	-	<0.05
SED-66	0.0 - 0.3	-	<0.05
SED-67	0.0 - 0.3	-	0.48
SED-68	0.0 - 0.3	-	0.4
SED-73	0.0 - 0.3	-	0.14
SED-74	0.0 - 0.3	-	0.3
SED-75	0.0 - 0.3	-	0.38
SED-76	0.0 - 0.3	-	0.2
SED-77	0.0 - 0.3	-	0.46
2010 Sampling - Stantec (Subdivision Stream)			
SED1-10	0.0 - 0.3	9.1 (0.3)	0.16
SED2-10	0.0 - 0.3	10	0.92
SED3-10	0.0 - 0.3	5.3	0.31
SED4-10	0.0 - 0.3	94 (3)	**17**
SED5-10	0.0 - 0.3	11	3.5
SED6-10	0.0 - 0.3	23 (0.4)	0.53
SED7-10	0.0 - 0.3	6.6	0.33
SED8-10	0.0 - 0.3	7.5	0.43
SED9-10	0.0 - 0.3	7.7	0.36
2011 Sampling - Stantec (Subdivision Stream)			
11-Stream-SED1	0.0 - 0.15	-	0.09
11-Stream-SED2	0.0 - 0.15	-	4.6
11-Stream-SED3	0.5	-	**22**
11-Stream-SED4	0.5	-	1.6
11-Stream-SED5	0.5	-	0.02
11-Stream-SED5 Lab-Dup	0.5	-	0.03
11-Stream-SED6	1.0	-	<0.01
11-Stream-SED7	0.5	-	<0.01
11-Stream-SED8	1.0	-	<0.01
11-Stream-SED9	0.5	-	<0.01
11-Stream-SED10	1.0	-	<0.01
11-Stream-SED10 Lab-Dup	1.0	-	<0.01

Notes:
1 = Site Specific Target Level (SSTL) calculated for PCBs in soil at the Residential Area of Hopedale (Stantec, 2010)
RDL = Reportable Detection Limit for routine analysis
< # = Not detected above RDL noted
Lab-dup = laboratory duplicate sample
(#) = Elevated RDLs shown in brackets. Elevated RDLs used due to reduced sample weight
Bold/Shaded = Value exceeds SSTL for soil

Table C.4 Results of Laboratory Analysis of PCBs in Water - Stream
Implementation of Remedial Action Plan - Year 1
Former US Military Base and Residential Subdivision, Hopedale, NL
Stantec Project No. 121411777.200

Sampling Date	Sample ID	Total Suspended Solids	Polychlorinated Biphenyls (PCBs)	Comments
	RDL	1	0.05	-
	Units	mg/L	µg/L	-
30-Oct-11	11-SUBDIV-OCT30	2	<0.05	-

Notes:
RDL = Reportable Detection Limit
< # = Not detected above RDL noted

APPENDIX D

Laboratory Analytical Reports

Your P.O. #: 16400NR
Your Project #: 121411777.200
Site Location: HOPEDALE REMEDIATION
Your C.O.C. #: ES334211

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

Report Date: 2011/10/14

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B1F6102
Received: 2011/10/06, 9:16

Sample Matrix: Soil
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Moisture	4	N/A	2011/10/07	ATL SOP 00001 R3	MOE Handbook 1983
PCB/DDT in Soil by GC-ECD	4	2011/10/11	2011/10/13	ATL SOP 00106 R4	Based 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: MHill@maxxam.ca
Phone# (902) 420-0203

==========

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Total cover pages: 1

Maxxam Job #: B1F6102
Report Date: 2011/10/14

Stantec Consulting Ltd
Client Project #: 121411777.200
Site Location: HOPEDALE REMEDIATION
Your P.O. #: 16400NR
Sampler Initials: AR

RESULTS OF ANALYSES OF SOIL

Maxxam ID		LE3198	LE3204	LE3206	LE3207		
Sampling Date		2011/10/04	2011/10/04	2011/10/04	2011/10/04		
	Units	**11-ODP-TP1**	**11-ODP-TP2**	**11-STREAM-SED1**	**11-STREAM-SED2**	**RDL**	**QC Batch**
Inorganics							
Moisture	%	18	36	23	28	1	2640478

PCB'S AND DDT BY GC-ECD (SOIL)

Maxxam ID		LE3198	LE3204	LE3206	LE3207		
Sampling Date		2011/10/04	2011/10/04	2011/10/04	2011/10/04		
	Units	**11-ODP-TP1**	**11-ODP-TP2**	**11-STREAM-SED1**	**11-STREAM-SED2**	**RDL**	**QC Batch**
PCBs							
Total PCB	mg/kg	11	14	0.09	4.6	0.01	2642776
Surrogate Recovery (%)							
Decachlorobiphenyl	%	75(1)	77(1)	71(2)	75(2)		2642776

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Aroclor 1254, 1260.
(2) - Aroclor 1260.

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 #: B1F6102
Report Date: 2011/10/14

Stantec Consulting Ltd
Client Project #: 121411777.200
Site Location: HOPEDALE REMEDIATION
Your P.O. #: 16400NR
Sampler Initials: AR

Package 1	7.7°C

Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

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 #: B1F6102
Report Date: 2011/10/14

Stantec Consulting Ltd
Client Project #: 121411777.200
Site Location: HOPEDALE REMEDIATION
Your P.O. #: 16400NR
Sampler Initials: AR

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
2642776	Decachlorobiphenyl	2011/10/13	94	70 - 130	92	70 - 130	82	%		
2642776	Total PCB	2011/10/13	100	70 - 130	88	70 - 130	<0.01	mg/kg	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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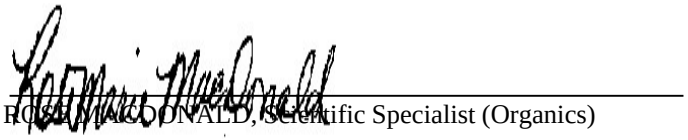
Validation Signature Page

Maxxam Job #: B1F6102

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



ROSA MACDONALD, Scientific Specialist (Organics)

==========

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Your P.O. #: 16400NR
Your Project #: 121411777.200
Site Location: OLD SCHOOL SITE HOPEDALE REMEDIATION
Your C.O.C. #: FT518122

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

Report Date: 2011/11/04

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B1H1505
Received: 2011/11/02, 9:39

Sample Matrix: Soil
Samples Received: 12

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Moisture	12	N/A	2011/11/02	ATL SOP 00001	MOE Handbook 1983
PCB/DDT in Soil by GC-ECD	12	2011/11/02	2011/11/04	ATL SOP 00106	Based 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: MHill@maxxam.ca
Phone# (902) 420-0203

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Total cover pages: 1

Maxxam Job #: B1H1505
Report Date: 2011/11/04

Stantec Consulting Ltd
Client Project #: 121411777.200
Site Location: OLD SCHOOL SITE HOPEDALE REMEDIATION
Your P.O. #: 16400NR
Sampler Initials: AR

RESULTS OF ANALYSES OF SOIL

Maxxam ID		LL9351	LL9352	LL9353	LL9354	LL9355	LL9356	LL9357		
Sampling Date		2011/10/31	2011/10/31	2011/10/31	2011/10/31	2011/10/31	2011/10/31	2011/10/31		
	Units	**11-ODP-BS1**	**11-ODP-BS2**	**11-ODP-BS3**	**11-ODP-BS4**	**11-ODP-BS5**	**11-ODP-BS6**	**11-ODP-BS7**	**RDL**	**QC Batch**
Inorganics										
Moisture	%	21	12	20	33	44	42	15	1	2667948

Maxxam ID		LL9358	LL9359	LL9360	LL9361	LL9362		
Sampling Date		2011/10/31	2011/10/31	2011/10/31	2011/10/31	2011/10/31		
	Units	**11-ODP-BS8**	**11-ODP-BS9**	**11-STREAM-SED3**	**11-STREAM-SED4**	**11-STREAM-SED5**	**RDL**	**QC Batch**
Inorganics								
Moisture	%	38	22	54	33	18	1	2667948

PCB'S AND DDT BY GC-ECD (SOIL)

Maxxam ID		LL9351	LL9352	LL9353	LL9354	LL9355	LL9356	LL9357	LL9358		
Sampling Date		2011/10/31	2011/10/31	2011/10/31	2011/10/31	2011/10/31	2011/10/31	2011/10/31	2011/10/31		
	Units	**11-ODP-BS1**	**11-ODP-BS2**	**11-ODP-BS3**	**11-ODP-BS4**	**11-ODP-BS5**	**11-ODP-BS6**	**11-ODP-BS7**	**11-ODP-BS8**	**RDL**	**QC Batch**
PCBs											
Total PCB	mg/kg	2.5	0.80	0.59	4.1	34	64	8.9	67	0.01	2668387
Surrogate Recovery (%)											
Decachlorobiphenyl	%	87(1)	81(2)	87(1)	83(1)	85(3)	109(1)	77(1)	81(1)		2668387

Maxxam ID		LL9359	LL9360	LL9361	LL9362	LL9362		
Sampling Date		2011/10/31	2011/10/31	2011/10/31	2011/10/31	2011/10/31		
	Units	**11-ODP-BS9**	**11-STREAM-SED3**	**11-STREAM-SED4**	**11-STREAM-SED5**	**11-STREAM-SED5 Lab-Dup**	**RDL**	**QC Batch**
PCBs								
Total PCB	mg/kg	39	22	1.6	0.02	0.03	0.01	2668387
Surrogate Recovery (%)								
Decachlorobiphenyl	%	100(1)	72(2)	94(2)	108(2)	95		2668387

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Aroclor 1254, 1260.
(2) - Aroclor 1260.
(3) - Aroclor 1242, 1254, 1260.

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 #: B1H1505
Report Date: 2011/11/04

Stantec Consulting Ltd
Client Project #: 121411777.200
Site Location: OLD SCHOOL SITE HOPEDALE REMEDIATION
Your P.O. #: 16400NR
Sampler Initials: AR

Package 1	3.3°C

Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

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 #: B1H1505
Report Date: 2011/11/04

Stantec Consulting Ltd
Client Project #: 121411777.200
Site Location: OLD SCHOOL SITE HOPEDALE REMEDIATION
Your P.O. #: 16400NR
Sampler Initials: AR

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
2668387	Decachlorobiphenyl	2011/11/04	112	70 - 130	94	70 - 130	100	%		
2668387	Total PCB	2011/11/04	124	70 - 130	108	70 - 130	<0.01	mg/kg	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 #: B1H1505

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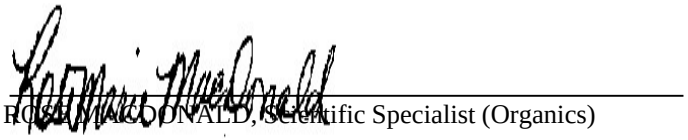

ROSA MACDONALD, Scientific Specialist (Organics)

==========

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Your P.O. #: 16400NR
Your Project #: 121411777.200
Site Location: OLD SCHOOL SITE
Your C.O.C. #: ES406611

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

Report Date: 2012/03/08
This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B1H2424
Received: 2011/11/03, 9:42

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
PCBs in water by GC/ECD	1	2011/11/03	2011/11/04	ATL SOP 00107	Based on EPA8082
Total Suspended Solids	1	N/A	2011/11/04	ATL SOP 00007	based on EPA 160.2

Remarks:

Reporting results to two significant figures at the RDL is to permit statistical evaluation and is not intended to be an indication of analytical precision.

* 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: MHill@maxxam.ca
Phone# (902) 420-0203

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Total cover pages: 1

Maxxam Job #: B1H2424
Report Date: 2012/03/08

Stantec Consulting Ltd
Client Project #: 121411777.200
Site Location: OLD SCHOOL SITE
Your P.O. #: 16400NR
Sampler Initials: RMP

RESULTS OF ANALYSES OF WATER

Maxxam ID		LM3813		
Sampling Date		2011/10/30		
	Units	**11-SUBDIV-OCT30**	**RDL**	**QC Batch**
Inorganics				
Total Suspended Solids	mg/L	2.0	1.0	2670907

POLYCHLORINATED BIPHENYLS BY GC-ECD (WATER)

Maxxam ID		LM3813		
Sampling Date		2011/10/30		
	Units	**11-SUBDIV-OCT30**	**RDL**	**QC Batch**
PCBs				
Total PCB	ug/L	<0.050	0.050	2669380
Surrogate Recovery (%)				
Decachlorobiphenyl	%	65		2669380

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B1H2424
Report Date: 2012/03/08

Stantec Consulting Ltd
Client Project #: 121411777.200
Site Location: OLD SCHOOL SITE
Your P.O. #: 16400NR
Sampler Initials: RMP

Package 1	4.0°C

Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Revised report: Corrected sample ID from 11-SUDV-OCT30 to 11-SUBDIV-OCT30. March 8, 2012 MHL

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Maxxam Job #: B1H2424
Report Date: 2012/03/08

Stantec Consulting Ltd
Client Project #: 121411777.200
Site Location: OLD SCHOOL SITE
Your P.O. #: 16400NR
Sampler Initials: RMP

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
2669380	Decachlorobiphenyl	2011/11/04	69	30 - 130	92	30 - 130	88	%				
2669380	Total PCB	2011/11/04	74	70 - 130	103	70 - 130	<0.050	ug/L	NC	40		
2670907	Total Suspended Solids	2011/11/04					<1.0	mg/L	2.4	25	98	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.
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 (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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Maxxam Job #: B1H2424

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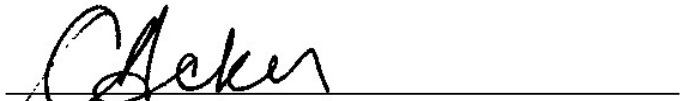
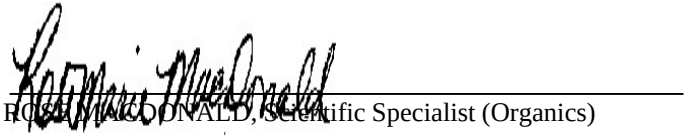


COLLEEN ACKER



ROSE MACDONALD, Scientific Specialist (Organics)

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Your P.O. #: 16400NR
Your Project #: 121411777.200
Site Location: ODP/STREAM
Your C.O.C. #: ES420111

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

Report Date: 2011/11/16

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B1H7085
Received: 2011/11/10, 11:10

Sample Matrix: Soil
Samples Received: 13

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Moisture	13	N/A	2011/11/12	ATL SOP 00001	MOE Handbook 1983
PCB/DDT in Soil by GC-ECD	13	2011/11/14	2011/11/15	ATL SOP 00106	Based EPA8082

Sample Matrix: Swab
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
PCBs on swabs by GC/ECD	1	2011/11/14	2011/11/15	ATL SOP 00109	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: MHill@maxxam.ca
Phone# (902) 420-0203

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Total cover pages: 1

Maxxam Job #: B1H7085
Report Date: 2011/11/16

Stantec Consulting Ltd
Client Project #: 121411777.200
Site Location: ODP/STREAM
Your P.O. #: 16400NR
Sampler Initials: AR

RESULTS OF ANALYSES OF SOIL

Maxxam ID		LO6715	LO6717	LO6718	LO6719	LO6720	LO6721		
Sampling Date		2011/11/05	2011/11/05	2011/11/05	2011/11/05	2011/11/05	2011/11/05		
	Units	**11-STREAM-SED6**	**11-STREAM-SED7**	**11-STREAM-SED8**	**11-STREAM-SED9**	**11-STREAM-SED10**	**11-ODP-BS10**	**RDL**	**QC Batch**
Inorganics									
Moisture	%	20	75	11	78	56	19	1	2680243

Maxxam ID		LO6722	LO6723	LO6724	LO6725	LO6726	LO6727	LO6728		
Sampling Date		2011/11/05	2011/11/05	2011/11/05	2011/11/05	2011/11/05	2011/11/05	2011/11/05		
	Units	**11-ODP-BS11**	**11-ODP-BS12**	**11-ODP-BS13**	**11-ODP-BS14**	**11-ODP-BS15**	**11-ODP-BS16**	**11-ODP-BS17**	**RDL**	**QC Batch**
Inorganics										
Moisture	%	35	15	14	17	37	32	39	1	2680243

PCB'S AND DDT BY GC-ECD (SOIL)

Maxxam ID		LO6715	LO6717	LO6718	LO6719	LO6720	LO6720		
Sampling Date		2011/11/05	2011/11/05	2011/11/05	2011/11/05	2011/11/05	2011/11/05		
	Units	**11-STREAM-SED6**	**11-STREAM-SED7**	**11-STREAM-SED8**	**11-STREAM-SED9**	**11-STREAM-SED10**	**11-STREAM-SED10 Lab-Dup**	**RDL**	**QC Batch**
PCBs									
Total PCB	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	2680528
Surrogate Recovery (%)									
Decachlorobiphenyl	%	104	78	86	86	89	72		2680528

Maxxam ID		LO6721	LO6722	LO6723	LO6724	LO6725	LO6726	LO6727	LO6728		
Sampling Date		2011/11/05	2011/11/05	2011/11/05	2011/11/05	2011/11/05	2011/11/05	2011/11/05	2011/11/05		
	Units	**11-ODP-BS10**	**11-ODP-BS11**	**11-ODP-BS12**	**11-ODP-BS13**	**11-ODP-BS14**	**11-ODP-BS15**	**11-ODP-BS16**	**11-ODP-BS17**	**RDL**	**QC Batch**
PCBs											
Total PCB	mg/kg	18	12	1.1	4.1	0.94	39	28	8.3	0.01	2680528
Surrogate Recovery (%)											
Decachlorobiphenyl	%	76(1)	99(1)	71(2)	77(1)	80(2)	70(1)	73(1)	79(1)		2680528

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Aroclor 1254, 1260.
(2) - Aroclor 1260.

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Maxxam Job #: B1H7085
Report Date: 2011/11/16

Stantec Consulting Ltd
Client Project #: 121411777.200
Site Location: ODP/STREAM
Your P.O. #: 16400NR
Sampler Initials: AR

POLYCHLORINATED BIPHENYLS BY GC-ECD (SWAB)

Maxxam ID		LO6713		
Sampling Date		2011/11/03		
	Units	**11-ODP-SWAB 1**	**RDL**	**QC Batch**
PCBs				
Total PCB	ug	<5	5	2680568
Surrogate Recovery (%)				
Decachlorobiphenyl	%	89		2680568

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B1H7085
Report Date: 2011/11/16

Stantec Consulting Ltd
Client Project #: 121411777.200
Site Location: ODP/STREAM
Your P.O. #: 16400NR
Sampler Initials: AR

Package 1	5.7°C

Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

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 #: B1H7085
Report Date: 2011/11/16

Stantec Consulting Ltd
Client Project #: 121411777.200
Site Location: ODP/STREAM
Your P.O. #: 16400NR
Sampler Initials: AR

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
2680528	Decachlorobiphenyl	2011/11/15	83	70 - 130	74	70 - 130	90	%		
2680528	Total PCB	2011/11/15	112	70 - 130	96	70 - 130	<0.01	mg/kg	NC	50
2680568	Decachlorobiphenyl	2011/11/15			91	30 - 130	93	%		
2680568	Total PCB	2011/11/15			124	30 - 130	<5	ug		

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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Maxxam Job #: B1H7085

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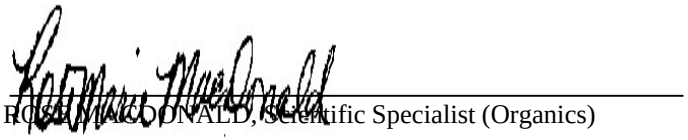

ROSA MACDONALD, Scientific Specialist (Organics)

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Your P.O. #: 16400NR
Your Project #: 121411777.210
Site Location: ODP,HOPEDALE
Your C.O.C. #: ES428811

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

Report Date: 2012/04/27
This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B1I2724
Received: 2011/11/19, 11:15

Sample Matrix: Soil
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Moisture	1	N/A	2011/11/21	ATL SOP 00001	MOE Handbook 1983
PCB/DDT in Soil by GC-ECD	1	2011/11/22	2011/11/24	ATL SOP 00106	Based EPA8082

Sample Matrix: Swab
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
PCBs on swabs by GC/ECD	2	2011/11/23	2011/11/29	ATL SOP 00109	Based on EPA8082

Remarks:

Reporting results to two significant figures at the RDL is to permit statistical evaluation and is not intended to be an indication of analytical precision.

* 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: MHill@maxxam.ca
Phone# (902) 420-0203

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Total cover pages: 1

Maxxam Job #: B1I2724
Report Date: 2012/04/27

Stantec Consulting Ltd
Client Project #: 121411777.210
Site Location: ODP,HOPEDALE
Your P.O. #: 16400NR
Sampler Initials: JM

RESULTS OF ANALYSES OF SOIL

Maxxam ID		LR7017		
Sampling Date		2011/11/16		
	Units	**11-ODP-BS18**	**RDL**	**QC Batch**
Inorganics				
Moisture	%	9	1	2688082

PCB'S AND DDT BY GC-ECD (SOIL)

Maxxam ID		LR7017		
Sampling Date		2011/11/16		
	Units	**11-ODP-BS18**	**RDL**	**QC Batch**
PCBs				
Total PCB	mg/kg	0.41	0.010	2689801
Surrogate Recovery (%)				
Decachlorobiphenyl	%	93(1)		2689801

POLYCHLORINATED BIPHENYLS BY GC-ECD (SWAB)

Maxxam ID		LR7021	LR7024		
Sampling Date		2011/11/16	2011/11/16		
	Units	**11-ODP-SWAB2**	**11-ODP-SWAB3**	**RDL**	**QC Batch**
PCBs					
Total PCB	ug	<5.0	<5.0	5.0	2690835
Surrogate Recovery (%)					
Decachlorobiphenyl	%	89	89		2690835

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) - Aroclor 1254, 1260.

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 #: B1I2724
Report Date: 2012/04/27

Stantec Consulting Ltd
Client Project #: 121411777.210
Site Location: ODP,HOPEDALE
Your P.O. #: 16400NR
Sampler Initials: JM

Package 1	6.3°C

Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Report re-issued with revised PCB comments - 2012/04/27

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 #: B1I2724
Report Date: 2012/04/27

Stantec Consulting Ltd
Client Project #: 121411777.210
Site Location: ODP,HOPEDALE
Your P.O. #: 16400NR
Sampler Initials: JM

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
2689801	Decachlorobiphenyl	2011/11/24	85	70 - 130	102	70 - 130	106	%		
2689801	Total PCB	2011/11/24	NC	70 - 130	108	70 - 130	<0.010	mg/kg	45.9	50
2690835	Decachlorobiphenyl	2011/11/29			90	30 - 130	93	%		
2690835	Total PCB	2011/11/29			112	30 - 130	<5.0	ug		

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.
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.

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Maxxam Job #: B1I2724

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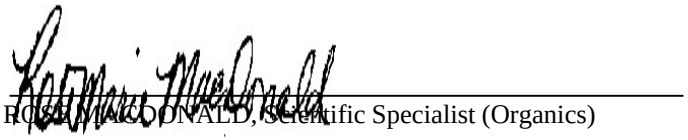

ROSA MACDONALD, Scientific Specialist (Organics)

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