

ANALYTICAL REPORT

PROJECT NO. STANTEC STILL

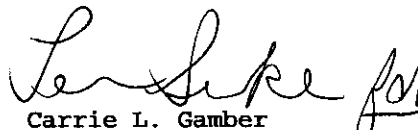
Stantec Stillwater Rvr Dam

Lot #: C0J060476

Tim Taylor

Stantec Consulting Services In
1409 N Forbes Road
Lexington, KY 40511-2050

TESTAMERICA LABORATORIES, INC.


Carrie L. Gamber
Project Manager

October 29, 2010



NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

Certifying State/Program	Certificate #	Program Types	TestAmerica
DoD ELAP	ADE-1442	WW HW	X
US Dept of Agriculture Arkansas	(#P330-10-00139) (#88-0690)	Foreign Soil Import Permit	X
California – NELAC	04224CA	WW HW	X X
Connecticut	(#PH-0688)	WW HW	X X
Florida – NELAC	(#E871008)	WW HW	X X
Illinois – NELAC	(#002319)	WW HW	X X
Kansas – NELAC	(#E-10350)	WW HW	X X
Louisiana – NELAC	(#04041)	WW HW	X X
New Hampshire – NELAC	(#203010)	WW –	X –
New Jersey – NELAC	(PA-005)	WW HW	X X
New York – NELAC	(#11182)	WW HW	X X
North Carolina	(#434)	WW HW	X X
Pennsylvania - NELAC	(#02-00416)	WW HW	X X
South Carolina	(#89014002)	WW HW	X X
Utah – NELAC	(STLP)	WW HW	X X
West Virginia	(#142)	WW HW	X X
Wisconsin	998027800	WW HW	X X

The codes utilized for program types are described below:

- HW Hazardous Waste certification
- WW Non-potable Water and/or Wastewater certification
- X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 05/19/10 N:\Reporting\NELAC NARRATIVE Pttsburgh_Updated 051910.doc

CASE NARRATIVE
Stantec Consulting Corporation

Lot# C0J060476

Sample Receiving:

TestAmerica's Pittsburgh laboratory received samples on October 6, 2010. The cooler was received within the proper temperature range.

Note: The initial weight extracted for the sediment samples was determined based on using 50% for the percent moisture of each sample.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

GC/MS Volatiles:

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

The continuing calibrations had compounds >25%D but they were within expected performance range for the compounds. All results were reported.

GC/MS Semivolatiles:

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Due to matrix interference, the samples were analyzed at a dilution.

The surrogates of the matrix spike and/or matrix spike duplicate recovered above control limits for several compounds.

Pesticides:

The matrix spike and/or matrix spike duplicate recovered outside control limits for several analytes.

PCB's

There were no problems associated with the analysis.

Herbicides:

There were no problems associated with the analysis.

CASE NARRATIVE
Stantec Consulting Corporation

Lot# C0J060476

Metals:

The method blank had barium detected at a concentration between the MDL and the reporting limit. The result was flagged with a "B" qualifier. Any sample associated with a method blank that had the same analyte detected had the result flagged with a "J" qualifier.

General Chemistry:

There were no problems associated with the analysis.

Chain of Custody Record

TestAmerica Laboratory location: DW NPDES RCRA Other

TestAmerica Laboratories, Inc.
COC No: _____ of _____ COCs

Client Project Manager: **SCOTT PEYTON**
Telephone: **513 842 8217**
Email: **SCOTT.PEYTON@STANTEC.COM**

Company Name: **STANTEC CONSULTING**
Address: **11687 LEBANON RD**
City/State/Zip: **CINCINNATI, OH**
Phone: **513 842 8200**
Project Name: **WEST MILTON DAM REMOVAL**
Project Number: _____
FO# _____

Site Contact: _____
Telephone: _____
Lab Contact: _____
Telephone: _____

Method of Shipment/Carrier: _____
Shipping/Tracking No: _____

TAT: if different from below
 3 weeks
 2 weeks
 1 week
 2 days
 1 day

Sample Identification	Sample Date	Sample Time	Air	Agrees	Bediment	Solid	Other	H2SO4	HNO3	HCl	NaOH	ZnAD	NaOH	Lapras	Other	Analyzes						Sample Specific Notes / Special Instructions:	
																VOC	SVOC	PESTICIDES	HERBICIDES	PCBS	METALS		MERCURY
WM-1	10/5/10	12:30pm			X												X	X	X	X	X	X	
WM-2	10/5/10	1:15pm			X												X	X	X	X	X	X	
WM-3	10/5/10	1:45pm			X												X	X	X	X	X	X	
WM-4	10/5/10	2:00pm			X												X	X	X	X	X	X	

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal By Lab Archive For _____ Months

Relinquished by: **James J. Dayton** Date/Time: **10/5/10 16:15**
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____

Company: **STANTEC** Date/Time: **10/5/10 16:15**
 Company: **TH Dayton** Date/Time: **10/5/10 16:15**
 Company: **ATA** Date/Time: **10/6/10 10:00**

Received by: **Eric Walker**
 Received by: _____
 Received in Laboratory by: **[Signature]**
 Date/Time: **10/5/10**

Special Instructions/OC Requirements & Comments: **0410-570**

METHODS SUMMARY

C0J060476

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Chlorinated Herbicides by GC	SW846 8151A	SW846 8151A
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A	SW846 7471A
Organochlorine Pesticides	SW846 8081A	SW846 3541
PCBs by SW-846 8082	SW846 8082	SW846 3541
Semivolatile Organics GCMS BNA 8270C	SW846 8270C	
Total Residue as Percent Solids	SM20 2540G	
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B

References:

- SM20 "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", 20TH EDITION."
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

C0J060476

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
L7231	001	WM-1	10/05/10	12:30
L7232	002	WM-2	10/05/10	13:15
L7233	003	WM-3	10/05/10	13:45
L7234	004	WM-4	10/05/10	14:00

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filler test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Stantec Consulting Services Inc

Client Sample ID: WM-1

GC/MS Volatiles

Lot-Sample #...: C0J060476-001 Work Order #...: L72311AC Matrix.....: SOLID
 Date Sampled...: 10/05/10 Date Received..: 10/06/10 MS Run #.....: 0280037
 Prep Date.....: 10/07/10 Analysis Date..: 10/07/10
 Prep Batch #...: 0280065 Analysis Time..: 11:00
 Dilution Factor: 1
 % Moisture.....: 43 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Acetone	15 J	35	ug/kg
Benzene	ND	8.8	ug/kg
Bromodichloromethane	ND	8.8	ug/kg
Bromoform	ND	8.8	ug/kg
Bromomethane	ND	8.8	ug/kg
2-Butanone	5.5 J	8.8	ug/kg
Carbon disulfide	ND	8.8	ug/kg
Carbon tetrachloride	ND	8.8	ug/kg
Chlorobenzene	ND	8.8	ug/kg
Chloroethane	ND	8.8	ug/kg
Chloroform	ND	8.8	ug/kg
Chloromethane	ND	8.8	ug/kg
Cyclohexane	ND	8.8	ug/kg
Dibromochloromethane	ND	8.8	ug/kg
1,2-Dibromo-3-chloro- propane	ND	8.8	ug/kg
1,2-Dibromoethane	ND	8.8	ug/kg
1,3-Dichlorobenzene	ND	8.8	ug/kg
1,4-Dichlorobenzene	ND	8.8	ug/kg
1,2-Dichlorobenzene	ND	8.8	ug/kg
Dichlorodifluoromethane	ND	8.8	ug/kg
1,1-Dichloroethane	ND	8.8	ug/kg
1,2-Dichloroethane	ND	8.8	ug/kg
1,1-Dichloroethene	ND	8.8	ug/kg
cis-1,2-Dichloroethene	ND	8.8	ug/kg
trans-1,2-Dichloroethene	ND	8.8	ug/kg
1,2-Dichloropropane	ND	8.8	ug/kg
cis-1,3-Dichloropropene	ND	8.8	ug/kg
trans-1,3-Dichloropropene	ND	8.8	ug/kg
Ethylbenzene	ND	8.8	ug/kg
2-Hexanone	ND	8.8	ug/kg
Isopropylbenzene	ND	8.8	ug/kg
Methyl acetate	ND	8.8	ug/kg
Methylene chloride	ND	8.8	ug/kg
Methylcyclohexane	ND	8.8	ug/kg
4-Methyl-2-pentanone	ND	8.8	ug/kg
Methyl tert-butyl ether	ND	8.8	ug/kg
Styrene	ND	8.8	ug/kg

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Stantec Consulting Services Inc

Client Sample ID: WM-1

GC/MS Volatiles

Lot-Sample #...: C0J060476-001 Work Order #...: L72311AC Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
1,1,2,2-Tetrachloroethane	ND	8.8	ug/kg
1,2,4-Trichloro- benzene	ND	8.8	ug/kg
Tetrachloroethene	ND	8.8	ug/kg
1,1,1-Trichloroethane	ND	8.8	ug/kg
1,1,2-Trichloroethane	ND	8.8	ug/kg
Trichloroethene	ND	8.8	ug/kg
Trichlorofluoromethane	ND	8.8	ug/kg
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	8.8	ug/kg
Toluene	ND	8.8	ug/kg
Vinyl chloride	ND	8.8	ug/kg
Xylenes (total)	ND	26	ug/kg

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
1,2-Dichloroethane-d4	79	(52 - 124)
Toluene-d8	108	(72 - 127)
4-Bromofluorobenzene	85	(63 - 120)
Dibromofluoromethane	96	(68 - 121)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Stantec Consulting Services Inc

Client Sample ID: WM-2

GC/MS Volatiles

Lot-Sample #...: C0J060476-002 Work Order #...: L72321AC Matrix.....: SOLID
 Date Sampled...: 10/05/10 Date Received...: 10/06/10 MS Run #.....: 0280037
 Prep Date.....: 10/07/10 Analysis Date...: 10/07/10
 Prep Batch #...: 0280065 Analysis Time...: 11:23
 Dilution Factor: 1
 % Moisture.....: 18 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Acetone	ND	24	ug/kg
Benzene	ND	6.1	ug/kg
Bromodichloromethane	ND	6.1	ug/kg
Bromoform	ND	6.1	ug/kg
Bromomethane	ND	6.1	ug/kg
2-Butanone	ND	6.1	ug/kg
Carbon disulfide	ND	6.1	ug/kg
Carbon tetrachloride	ND	6.1	ug/kg
Chlorobenzene	ND	6.1	ug/kg
Chloroethane	ND	6.1	ug/kg
Chloroform	ND	6.1	ug/kg
Chloromethane	ND	6.1	ug/kg
Cyclohexane	ND	6.1	ug/kg
Dibromochloromethane	ND	6.1	ug/kg
1,2-Dibromo-3-chloro- propane	ND	6.1	ug/kg
1,2-Dibromoethane	ND	6.1	ug/kg
1,3-Dichlorobenzene	ND	6.1	ug/kg
1,4-Dichlorobenzene	ND	6.1	ug/kg
1,2-Dichlorobenzene	ND	6.1	ug/kg
Dichlorodifluoromethane	ND	6.1	ug/kg
1,1-Dichloroethane	ND	6.1	ug/kg
1,2-Dichloroethane	ND	6.1	ug/kg
1,1-Dichloroethene	ND	6.1	ug/kg
cis-1,2-Dichloroethene	ND	6.1	ug/kg
trans-1,2-Dichloroethene	ND	6.1	ug/kg
1,2-Dichloropropane	ND	6.1	ug/kg
cis-1,3-Dichloropropene	ND	6.1	ug/kg
trans-1,3-Dichloropropene	ND	6.1	ug/kg
Ethylbenzene	ND	6.1	ug/kg
2-Hexanone	ND	6.1	ug/kg
Isopropylbenzene	ND	6.1	ug/kg
Methyl acetate	ND	6.1	ug/kg
Methylene chloride	ND	6.1	ug/kg
Methylcyclohexane	ND	6.1	ug/kg
4-Methyl-2-pentanone	ND	6.1	ug/kg
Methyl tert-butyl ether	ND	6.1	ug/kg
Styrene	ND	6.1	ug/kg

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Stantec Consulting Services Inc

Client Sample ID: WM-2

GC/MS Volatiles

Lot-Sample #...: C0J060476-002 Work Order #...: L72321AC Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
1,1,2,2-Tetrachloroethane	ND	6.1	ug/kg
1,2,4-Trichloro- benzene	ND	6.1	ug/kg
Tetrachloroethene	ND	6.1	ug/kg
1,1,1-Trichloroethane	ND	6.1	ug/kg
1,1,2-Trichloroethane	ND	6.1	ug/kg
Trichloroethene	ND	6.1	ug/kg
Trichlorofluoromethane	ND	6.1	ug/kg
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	6.1	ug/kg
Toluene	ND	6.1	ug/kg
Vinyl chloride	ND	6.1	ug/kg
Xylenes (total)	ND	18	ug/kg

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	80	(52 - 124)
Toluene-d8	105	(72 - 127)
4-Bromofluorobenzene	82	(63 - 120)
Dibromofluoromethane	93	(68 - 121)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Stantec Consulting Services Inc

Client Sample ID: WM-3

GC/MS Volatiles

Lot-Sample #...: C0J060476-003 Work Order #...: L72331AC Matrix.....: SOLID
 Date Sampled...: 10/05/10 Date Received..: 10/06/10 MS Run #.....: 0280037
 Prep Date.....: 10/07/10 Analysis Date..: 10/07/10
 Prep Batch #...: 0280065 Analysis Time..: 11:47
 Dilution Factor: 1
 % Moisture.....: 11 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Acetone	ND	22	ug/kg
Benzene	ND	5.6	ug/kg
Bromodichloromethane	ND	5.6	ug/kg
Bromoform	ND	5.6	ug/kg
Bromomethane	ND	5.6	ug/kg
2-Butanone	ND	5.6	ug/kg
Carbon disulfide	ND	5.6	ug/kg
Carbon tetrachloride	ND	5.6	ug/kg
Chlorobenzene	ND	5.6	ug/kg
Chloroethane	ND	5.6	ug/kg
Chloroform	ND	5.6	ug/kg
Chloromethane	ND	5.6	ug/kg
Cyclohexane	ND	5.6	ug/kg
Dibromochloromethane	ND	5.6	ug/kg
1,2-Dibromo-3-chloro- propane	ND	5.6	ug/kg
1,2-Dibromoethane	ND	5.6	ug/kg
1,3-Dichlorobenzene	ND	5.6	ug/kg
1,4-Dichlorobenzene	ND	5.6	ug/kg
1,2-Dichlorobenzene	ND	5.6	ug/kg
Dichlorodifluoromethane	ND	5.6	ug/kg
1,1-Dichloroethane	ND	5.6	ug/kg
1,2-Dichloroethane	ND	5.6	ug/kg
1,1-Dichloroethene	ND	5.6	ug/kg
cis-1,2-Dichloroethene	ND	5.6	ug/kg
trans-1,2-Dichloroethene	ND	5.6	ug/kg
1,2-Dichloropropane	ND	5.6	ug/kg
cis-1,3-Dichloropropene	ND	5.6	ug/kg
trans-1,3-Dichloropropene	ND	5.6	ug/kg
Ethylbenzene	ND	5.6	ug/kg
2-Hexanone	ND	5.6	ug/kg
Isopropylbenzene	ND	5.6	ug/kg
Methyl acetate	ND	5.6	ug/kg
Methylene chloride	ND	5.6	ug/kg
Methylcyclohexane	ND	5.6	ug/kg
4-Methyl-2-pentanone	ND	5.6	ug/kg
Methyl tert-butyl ether	ND	5.6	ug/kg
Styrene	ND	5.6	ug/kg

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Stantec Consulting Services Inc

Client Sample ID: WM-3

GC/MS Volatiles

Lot-Sample #...: C0J060476-003 Work Order #...: L72331AC Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
1,1,2,2-Tetrachloroethane	ND	5.6	ug/kg
1,2,4-Trichloro- benzene	ND	5.6	ug/kg
Tetrachloroethene	ND	5.6	ug/kg
1,1,1-Trichloroethane	ND	5.6	ug/kg
1,1,2-Trichloroethane	ND	5.6	ug/kg
Trichloroethene	ND	5.6	ug/kg
Trichlorofluoromethane	ND	5.6	ug/kg
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	5.6	ug/kg
Toluene	ND	5.6	ug/kg
Vinyl chloride	ND	5.6	ug/kg
Xylenes (total)	ND	17	ug/kg

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	82	(52 - 124)
Toluene-d8	110	(72 - 127)
4-Bromofluorobenzene	86	(63 - 120)
Dibromofluoromethane	99	(68 - 121)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Stantec Consulting Services Inc

Client Sample ID: WM-4

GC/MS Volatiles

Lot-Sample #...: C0J060476-004 Work Order #...: L72341AC Matrix.....: SOLID
 Date Sampled...: 10/05/10 Date Received...: 10/06/10 MS Run #.....: 0280037
 Prep Date.....: 10/07/10 Analysis Date...: 10/07/10
 Prep Batch #...: 0280065 Analysis Time...: 12:10
 Dilution Factor: 1
 % Moisture.....: 29 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Acetone	ND	28	ug/kg
Benzene	ND	7.1	ug/kg
Bromodichloromethane	ND	7.1	ug/kg
Bromoform	ND	7.1	ug/kg
Bromomethane	ND	7.1	ug/kg
2-Butanone	ND	7.1	ug/kg
Carbon disulfide	ND	7.1	ug/kg
Carbon tetrachloride	ND	7.1	ug/kg
Chlorobenzene	ND	7.1	ug/kg
Chloroethane	ND	7.1	ug/kg
Chloroform	ND	7.1	ug/kg
Chloromethane	ND	7.1	ug/kg
Cyclohexane	ND	7.1	ug/kg
Dibromochloromethane	ND	7.1	ug/kg
1,2-Dibromo-3-chloro- propane	ND	7.1	ug/kg
1,2-Dibromoethane	ND	7.1	ug/kg
1,3-Dichlorobenzene	ND	7.1	ug/kg
1,4-Dichlorobenzene	ND	7.1	ug/kg
1,2-Dichlorobenzene	ND	7.1	ug/kg
Dichlorodifluoromethane	ND	7.1	ug/kg
1,1-Dichloroethane	ND	7.1	ug/kg
1,2-Dichloroethane	ND	7.1	ug/kg
1,1-Dichloroethene	ND	7.1	ug/kg
cis-1,2-Dichloroethene	ND	7.1	ug/kg
trans-1,2-Dichloroethene	ND	7.1	ug/kg
1,2-Dichloropropane	ND	7.1	ug/kg
cis-1,3-Dichloropropene	ND	7.1	ug/kg
trans-1,3-Dichloropropene	ND	7.1	ug/kg
Ethylbenzene	ND	7.1	ug/kg
2-Hexanone	ND	7.1	ug/kg
Isopropylbenzene	ND	7.1	ug/kg
Methyl acetate	ND	7.1	ug/kg
Methylene chloride	ND	7.1	ug/kg
Methylcyclohexane	ND	7.1	ug/kg
4-Methyl-2-pentanone	ND	7.1	ug/kg
Methyl tert-butyl ether	ND	7.1	ug/kg
Styrene	ND	7.1	ug/kg

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Stantec Consulting Services Inc

Client Sample ID: WM-4

GC/MS Volatiles

Lot-Sample #...: C0J060476-004 Work Order #...: L72341AC Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
1,1,2,2-Tetrachloroethane	ND	7.1	ug/kg
1,2,4-Trichloro- benzene	ND	7.1	ug/kg
Tetrachloroethene	ND	7.1	ug/kg
1,1,1-Trichloroethane	ND	7.1	ug/kg
1,1,2-Trichloroethane	ND	7.1	ug/kg
Trichloroethene	ND	7.1	ug/kg
Trichlorofluoromethane	ND	7.1	ug/kg
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	7.1	ug/kg
Toluene	ND	7.1	ug/kg
Vinyl chloride	ND	7.1	ug/kg
Xylenes (total)	ND	21	ug/kg

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	83	(52 - 124)
Toluene-d8	108	(72 - 127)
4-Bromofluorobenzene	86	(63 - 120)
Dibromofluoromethane	98	(68 - 121)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C0J060476
 MB Lot-Sample #: C0J070000-065
 Analysis Date...: 10/07/10
 Dilution Factor: 1

Work Order #...: L733K1AA
 Prep Date.....: 10/07/10
 Prep Batch #...: 0280065

Matrix.....: SOLID
 Analysis Time...: 07:25

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	ND	20	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	5.0	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Chloromethane	ND	5.0	ug/kg	SW846 8260B
Cyclohexane	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
Methyl acetate	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
Methylcyclohexane	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trichloro- benzene	ND	5.0	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C0J060476

Work Order #...: L733K1AA

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
Vinyl chloride	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	15	ug/kg	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
1,2-Dichloroethane-d4	88	(52 - 124)
Toluene-d8	102	(72 - 127)
4-Bromofluorobenzene	86	(63 - 120)
Dibromofluoromethane	94	(68 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: C0J060476 Work Order #...: L733K1AC Matrix.....: SOLID
 LCS Lot-Sample#: C0J070000-065
 Prep Date.....: 10/07/10 Analysis Date...: 10/07/10
 Prep Batch #...: 0280065 Analysis Time...: 08:17
 Dilution Factor: 1

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	<u>METHOD</u>
Benzene	101	(77 - 120)	SW846 8260B
Chlorobenzene	104	(79 - 120)	SW846 8260B
1,1-Dichloroethene	89	(59 - 129)	SW846 8260B
Trichloroethene	102	(76 - 119)	SW846 8260B
Toluene	106	(78 - 124)	SW846 8260B

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
1,2-Dichloroethane-d4	87	(52 - 124)
Toluene-d8	110	(72 - 127)
4-Bromofluorobenzene	94	(63 - 120)
Dibromofluoromethane	101	(68 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: C0J060476 Work Order #...: L7WNM1D2-MS Matrix.....: SOLID
 MS Lot-Sample #: C0J020450-001 L7WNM1D3-MSD
 Date Sampled...: 09/29/10 Date Received...: 10/02/10 MS Run #.....: 0280037
 Prep Date.....: 10/07/10 Analysis Date...: 10/07/10
 Prep Batch #...: 0280065 Analysis Time...: 08:40
 Dilution Factor: 1 % Moisture.....: 12

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	98	(77 - 120)			SW846 8260B
	98	(77 - 120)	0.38	(0-20)	SW846 8260B
Chlorobenzene	100	(79 - 120)			SW846 8260B
	101	(79 - 120)	0.39	(0-20)	SW846 8260B
1,1-Dichloroethene	89	(59 - 129)			SW846 8260B
	77	(59 - 129)	15	(0-25)	SW846 8260B
Trichloroethene	100	(76 - 119)			SW846 8260B
	100	(76 - 119)	0.10	(0-21)	SW846 8260B
Toluene	98	(78 - 124)			SW846 8260B
	103	(78 - 124)	4.6	(0-21)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	84	(52 - 124)
	84	(52 - 124)
Toluene-d8	104	(72 - 127)
	106	(72 - 127)
4-Bromofluorobenzene	92	(63 - 120)
	90	(63 - 120)
Dibromofluoromethane	98	(68 - 121)
	98	(68 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters
 Results and reporting limits have been adjusted for dry weight.

Stantec Consulting Services Inc

Client Sample ID: WM-1

GC/MS Semivolatiles

Lot-Sample #...: C0J060476-001 Work Order #...: L72311AD Matrix.....: SOLID
 Date Sampled...: 10/05/10 Date Received...: 10/06/10 MS Run #.....: 0281030
 Prep Date.....: 10/08/10 Analysis Date...: 10/11/10
 Prep Batch #...: 0281046 Analysis Time...: 11:25
 Dilution Factor: 2.48
 % Moisture.....: 43 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Acenaphthene	6.3 J	29	ug/kg
Acenaphthylene	14 J	29	ug/kg
Acetophenone	ND	140	ug/kg
Anthracene	15 J	29	ug/kg
Atrazine	ND	140	ug/kg
Benzo(a)anthracene	52	29	ug/kg
Benzo(a)pyrene	68	29	ug/kg
Benzo(b)fluoranthene	110	29	ug/kg
Benzo(ghi)perylene	74	29	ug/kg
Benzo(k)fluoranthene	ND	29	ug/kg
Benzaldehyde	78 J	140	ug/kg
1,1'-Biphenyl	ND	140	ug/kg
bis(2-Chloroethoxy) methane	ND	140	ug/kg
bis(2-Chloroethyl)- ether	ND	29	ug/kg
bis(2-Ethylhexyl) phthalate	46 J	290	ug/kg
4-Bromophenyl phenyl ether	ND	140	ug/kg
Butyl benzyl phthalate	28 J	140	ug/kg
Caprolactam	ND	740	ug/kg
Carbazole	ND	29	ug/kg
4-Chloroaniline	ND	140	ug/kg
4-Chloro-3-methylphenol	ND	140	ug/kg
2-Chloronaphthalene	ND	29	ug/kg
2-Chlorophenol	ND	140	ug/kg
4-Chlorophenyl phenyl ether	ND	140	ug/kg
Chrysene	81	29	ug/kg
Dibenz(a,h)anthracene	11 J	29	ug/kg
Dibenzofuran	ND	140	ug/kg
3,3'-Dichlorobenzidine	ND	140	ug/kg
2,4-Dichlorophenol	ND	29	ug/kg
Diethyl phthalate	ND	140	ug/kg
2,4-Dimethylphenol	ND	140	ug/kg
Dimethyl phthalate	ND	140	ug/kg
Di-n-butyl phthalate	ND	140	ug/kg

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Stantec Consulting Services Inc

Client Sample ID: WM-1

GC/MS Semivolatiles

Lot-Sample #...: C0J060476-001 Work Order #...: L72311AD Matrix.....: SOLID

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
4,6-Dinitro- 2-methylphenol	ND	740	ug/kg
2,4-Dinitrophenol	ND	740	ug/kg
2,4-Dinitrotoluene	ND	140	ug/kg
2,6-Dinitrotoluene	ND	140	ug/kg
Di-n-octyl phthalate	ND	140	ug/kg
Fluoranthene	160	29	ug/kg
Fluorene	ND	29	ug/kg
Hexachlorobenzene	ND	29	ug/kg
Hexachlorobutadiene	ND	29	ug/kg
Hexachlorocyclopenta- diene	ND	140	ug/kg
Hexachloroethane	ND	140	ug/kg
Indeno (1,2,3-cd)pyrene	43	29	ug/kg
Isophorone	ND	140	ug/kg
2-Methylnaphthalene	4.8 J	29	ug/kg
2-Methylphenol	ND	140	ug/kg
4-Methylphenol	ND	140	ug/kg
Naphthalene	ND	29	ug/kg
2-Nitroaniline	ND	740	ug/kg
3-Nitroaniline	ND	740	ug/kg
4-Nitroaniline	ND	740	ug/kg
Nitrobenzene	ND	290	ug/kg
2-Nitrophenol	ND	140	ug/kg
4-Nitrophenol	ND	740	ug/kg
N-Nitrosodi-n-propyl- amine	ND	29	ug/kg
N-Nitrosodiphenylamine	ND	140	ug/kg
2,2'-oxybis (1-Chloropropane)	ND	29	ug/kg
Pentachlorophenol	ND	140	ug/kg
Phenanthrene	76	29	ug/kg
Phenol	ND	29	ug/kg
Pyrene	110	29	ug/kg
2,4,5-Trichloro- phenol	ND	140	ug/kg
2,4,6-Trichloro- phenol	ND	140	ug/kg

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Stantec Consulting Services Inc

Client Sample ID: WM-1

GC/MS Semivolatiles

Lot-Sample #...: C0J060476-001

Work Order #...: L72311AD

Matrix.....: SOLID

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	92	(27 - 110)
Terphenyl-d14	91	(21 - 130)
2-Fluorobiphenyl	103	(28 - 108)
2-Fluorophenol	105	(28 - 107)
Phenol-d5	99	(30 - 112)
2,4,6-Tribromophenol	106	(21 - 116)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Stantec Consulting Services Inc

Client Sample ID: WM-2

GC/MS Semivolatiles

Lot-Sample #...: C0J060476-002 Work Order #...: L72321AD Matrix.....: SOLID
 Date Sampled...: 10/05/10 Date Received...: 10/06/10 MS Run #.....: 0281030
 Prep Date.....: 10/08/10 Analysis Date...: 10/11/10
 Prep Batch #...: 0281046 Analysis Time...: 12:26
 Dilution Factor: 2.47
 % Moisture.....: 18 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Acenaphthene	ND	20	ug/kg
Acenaphthylene	ND	20	ug/kg
Acetophenone	ND	99	ug/kg
Anthracene	4.6 J	20	ug/kg
Atrazine	ND	99	ug/kg
Benzo(a)anthracene	ND	20	ug/kg
Benzo(a)pyrene	5.4 J	20	ug/kg
Benzo(b)fluoranthene	ND	20	ug/kg
Benzo(ghi)perylene	ND	20	ug/kg
Benzo(k)fluoranthene	ND	20	ug/kg
Benzaldehyde	ND	99	ug/kg
1,1'-Biphenyl	ND	99	ug/kg
bis(2-Chloroethoxy) methane	ND	99	ug/kg
bis(2-Chloroethyl)- ether	ND	20	ug/kg
bis(2-Ethylhexyl) phthalate	19 J	200	ug/kg
4-Bromophenyl phenyl ether	ND	99	ug/kg
Butyl benzyl phthalate	18 J	99	ug/kg
Caprolactam	ND	510	ug/kg
Carbazole	ND	20	ug/kg
4-Chloroaniline	ND	99	ug/kg
4-Chloro-3-methylphenol	ND	99	ug/kg
2-Chloronaphthalene	ND	20	ug/kg
2-Chlorophenol	ND	99	ug/kg
4-Chlorophenyl phenyl ether	ND	99	ug/kg
Chrysene	6.7 J	20	ug/kg
Dibenz(a,h)anthracene	ND	20	ug/kg
Dibenzofuran	ND	99	ug/kg
3,3'-Dichlorobenzidine	ND	99	ug/kg
2,4-Dichlorophenol	ND	20	ug/kg
Diethyl phthalate	ND	99	ug/kg
2,4-Dimethylphenol	ND	99	ug/kg
Dimethyl phthalate	ND	99	ug/kg
Di-n-butyl phthalate	ND	99	ug/kg

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Stantec Consulting Services Inc

Client Sample ID: WM-2

GC/MS Semivolatiles

Lot-Sample #...: C0J060476-002 Work Order #...: L72321AD Matrix.....: SOLID

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
4,6-Dinitro- 2-methylphenol	ND	510	ug/kg
2,4-Dinitrophenol	ND	510	ug/kg
2,4-Dinitrotoluene	ND	99	ug/kg
2,6-Dinitrotoluene	ND	99	ug/kg
Di-n-octyl phthalate	ND	99	ug/kg
Fluoranthene	15 J	20	ug/kg
Fluorene	ND	20	ug/kg
Hexachlorobenzene	ND	20	ug/kg
Hexachlorobutadiene	ND	20	ug/kg
Hexachlorocyclopenta- diene	ND	99	ug/kg
Hexachloroethane	ND	99	ug/kg
Indeno(1,2,3-cd)pyrene	ND	20	ug/kg
Isophorone	ND	99	ug/kg
2-Methylnaphthalene	ND	20	ug/kg
2-Methylphenol	ND	99	ug/kg
4-Methylphenol	ND	99	ug/kg
Naphthalene	ND	20	ug/kg
2-Nitroaniline	ND	510	ug/kg
3-Nitroaniline	ND	510	ug/kg
4-Nitroaniline	ND	510	ug/kg
Nitrobenzene	ND	200	ug/kg
2-Nitrophenol	ND	99	ug/kg
4-Nitrophenol	ND	510	ug/kg
N-Nitrosodi-n-propyl- amine	ND	20	ug/kg
N-Nitrosodiphenylamine	ND	99	ug/kg
2,2'-oxybis (1-Chloropropane)	ND	20	ug/kg
Pentachlorophenol	ND	99	ug/kg
Phenanthrene	16 J	20	ug/kg
Phenol	ND	20	ug/kg
Pyrene	9.8 J	20	ug/kg
2,4,5-Trichloro- phenol	ND	99	ug/kg
2,4,6-Trichloro- phenol	ND	99	ug/kg

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Stantec Consulting Services Inc

Client Sample ID: WM-2

GC/MS Semivolatiles

Lot-Sample #...: C0J060476-002

Work Order #...: L72321AD

Matrix.....: SOLID

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	73	(27 - 110)
Terphenyl-d14	74	(21 - 130)
2-Fluorobiphenyl	82	(28 - 108)
2-Fluorophenol	83	(28 - 107)
Phenol-d5	77	(30 - 112)
2,4,6-Tribromophenol	78	(21 - 116)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Stantec Consulting Services Inc

Client Sample ID: WM-3

GC/MS Semivolatiles

Lot-Sample #...: C0J060476-003 Work Order #...: L72331AD Matrix.....: SOLID
 Date Sampled...: 10/05/10 Date Received...: 10/06/10 MS Run #.....: 0281030
 Prep Date.....: 10/08/10 Analysis Date...: 10/11/10
 Prep Batch #...: 0281046 Analysis Time...: 12:46
 Dilution Factor: 2.48
 % Moisture.....: 11 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Acenaphthene	ND	19	ug/kg
Acenaphthylene	ND	19	ug/kg
Acetophenone	ND	92	ug/kg
Anthracene	ND	19	ug/kg
Atrazine	ND	92	ug/kg
Benzo(a)anthracene	4.6 J	19	ug/kg
Benzo(a)pyrene	ND	19	ug/kg
Benzo(b)fluoranthene	6.6 J	19	ug/kg
Benzo(ghi)perylene	ND	19	ug/kg
Benzo(k)fluoranthene	ND	19	ug/kg
Benzaldehyde	ND	92	ug/kg
1,1'-Biphenyl	ND	92	ug/kg
bis(2-Chloroethoxy) methane	ND	92	ug/kg
bis(2-Chloroethyl)- ether	ND	19	ug/kg
bis(2-Ethylhexyl) phthalate	18 J	190	ug/kg
4-Bromophenyl phenyl ether	ND	92	ug/kg
Butyl benzyl phthalate	18 J	92	ug/kg
Caprolactam	ND	470	ug/kg
Carbazole	ND	19	ug/kg
4-Chloroaniline	ND	92	ug/kg
4-Chloro-3-methylphenol	ND	92	ug/kg
2-Chloronaphthalene	ND	19	ug/kg
2-Chlorophenol	ND	92	ug/kg
4-Chlorophenyl phenyl ether	ND	92	ug/kg
Chrysene	4.2 J	19	ug/kg
Dibenz(a,h)anthracene	ND	19	ug/kg
Dibenzofuran	ND	92	ug/kg
3,3'-Dichlorobenzidine	ND	92	ug/kg
2,4-Dichlorophenol	ND	19	ug/kg
Diethyl phthalate	ND	92	ug/kg
2,4-Dimethylphenol	ND	92	ug/kg
Dimethyl phthalate	ND	92	ug/kg
Di-n-butyl phthalate	ND	92	ug/kg

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Stantec Consulting Services Inc

Client Sample ID: WM-3

GC/MS Semivolatiles

Lot-Sample #...: C0J060476-003 Work Order #...: L72331AD Matrix.....: SOLID

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
4,6-Dinitro- 2-methylphenol	ND	470	ug/kg
2,4-Dinitrophenol	ND	470	ug/kg
2,4-Dinitrotoluene	ND	92	ug/kg
2,6-Dinitrotoluene	ND	92	ug/kg
Di-n-octyl phthalate	ND	92	ug/kg
Fluoranthene	7.7 J	19	ug/kg
Fluorene	ND	19	ug/kg
Hexachlorobenzene	ND	19	ug/kg
Hexachlorobutadiene	ND	19	ug/kg
Hexachlorocyclopenta- diene	ND	92	ug/kg
Hexachloroethane	ND	92	ug/kg
Indeno(1,2,3-cd)pyrene	ND	19	ug/kg
Isophorone	ND	92	ug/kg
2-Methylnaphthalene	ND	19	ug/kg
2-Methylphenol	ND	92	ug/kg
4-Methylphenol	ND	92	ug/kg
Naphthalene	ND	19	ug/kg
2-Nitroaniline	ND	470	ug/kg
3-Nitroaniline	ND	470	ug/kg
4-Nitroaniline	ND	470	ug/kg
Nitrobenzene	ND	190	ug/kg
2-Nitrophenol	ND	92	ug/kg
4-Nitrophenol	ND	470	ug/kg
N-Nitrosodi-n-propyl- amine	ND	19	ug/kg
N-Nitrosodiphenylamine	ND	92	ug/kg
2,2'-oxybis (1-Chloropropane)	ND	19	ug/kg
Pentachlorophenol	ND	92	ug/kg
Phenanthrene	5.7 J	19	ug/kg
Phenol	ND	19	ug/kg
Pyrene	6.0 J	19	ug/kg
2,4,5-Trichloro- phenol	ND	92	ug/kg
2,4,6-Trichloro- phenol	ND	92	ug/kg

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Stantec Consulting Services Inc

Client Sample ID: WM-3

GC/MS Semivolatiles

Lot-Sample #...: C0J060476-003

Work Order #...: L72331AD

Matrix.....: SOLID

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	74	(27 - 110)
Terphenyl-d14	70	(21 - 130)
2-Fluorobiphenyl	75	(28 - 108)
2-Fluorophenol	83	(28 - 107)
Phenol-d5	75	(30 - 112)
2,4,6-Tribromophenol	79	(21 - 116)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Stantec Consulting Services Inc

Client Sample ID: WM-4

GC/MS Semivolatiles

Lot-Sample #...: C0J060476-004 Work Order #...: L72341AD Matrix.....: SOLID
 Date Sampled...: 10/05/10 Date Received...: 10/06/10 MS Run #.....: 0281030
 Prep Date.....: 10/08/10 Analysis Date...: 10/11/10
 Prep Batch #...: 0281046 Analysis Time...: 13:06
 Dilution Factor: 2.5
 % Moisture.....: 29 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Acenaphthene	ND	24	ug/kg
Acenaphthylene	ND	24	ug/kg
Acetophenone	ND	120	ug/kg
Anthracene	4.9 J	24	ug/kg
Atrazine	ND	120	ug/kg
Benzo(a)anthracene	17 J	24	ug/kg
Benzo(a)pyrene	17 J	24	ug/kg
Benzo(b)fluoranthene	19 J	24	ug/kg
Benzo(ghi)perylene	16 J	24	ug/kg
Benzo(k)fluoranthene	ND	24	ug/kg
Benzaldehyde	ND	120	ug/kg
1,1'-Biphenyl	ND	120	ug/kg
bis(2-Chloroethoxy) methane	ND	120	ug/kg
bis(2-Chloroethyl)- ether	ND	24	ug/kg
bis(2-Ethylhexyl) phthalate	30 J	240	ug/kg
4-Bromophenyl phenyl ether	ND	120	ug/kg
Butyl benzyl phthalate	32 J	120	ug/kg
Caprolactam	ND	600	ug/kg
Carbazole	ND	24	ug/kg
4-Chloroaniline	ND	120	ug/kg
4-Chloro-3-methylphenol	ND	120	ug/kg
2-Chloronaphthalene	ND	24	ug/kg
2-Chlorophenol	ND	120	ug/kg
4-Chlorophenyl phenyl ether	ND	120	ug/kg
Chrysene	21 J	24	ug/kg
Dibenz(a,h)anthracene	2.6 J	24	ug/kg
Dibenzofuran	ND	120	ug/kg
3,3'-Dichlorobenzidine	ND	120	ug/kg
2,4-Dichlorophenol	ND	24	ug/kg
Diethyl phthalate	ND	120	ug/kg
2,4-Dimethylphenol	ND	120	ug/kg
Dimethyl phthalate	ND	120	ug/kg
Di-n-butyl phthalate	ND	120	ug/kg

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Stantec Consulting Services Inc

Client Sample ID: WM-4

GC/MS Semivolatiles

Lot-Sample #...: C0J060476-004 Work Order #...: L72341AD Matrix.....: SOLID

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
4,6-Dinitro- 2-methylphenol	ND	600	ug/kg
2,4-Dinitrophenol	ND	600	ug/kg
2,4-Dinitrotoluene	ND	120	ug/kg
2,6-Dinitrotoluene	ND	120	ug/kg
Di-n-octyl phthalate	ND	120	ug/kg
Fluoranthene	44	24	ug/kg
Fluorene	ND	24	ug/kg
Hexachlorobenzene	ND	24	ug/kg
Hexachlorobutadiene	ND	24	ug/kg
Hexachlorocyclopenta- diene	ND	120	ug/kg
Hexachloroethane	ND	120	ug/kg
Indeno(1,2,3-cd)pyrene	10 J	24	ug/kg
Isophorone	ND	120	ug/kg
2-Methylnaphthalene	ND	24	ug/kg
2-Methylphenol	ND	120	ug/kg
4-Methylphenol	ND	120	ug/kg
Naphthalene	ND	24	ug/kg
2-Nitroaniline	ND	600	ug/kg
3-Nitroaniline	ND	600	ug/kg
4-Nitroaniline	ND	600	ug/kg
Nitrobenzene	ND	240	ug/kg
2-Nitrophenol	ND	120	ug/kg
4-Nitrophenol	ND	600	ug/kg
N-Nitrosodi-n-propyl- amine	ND	24	ug/kg
N-Nitrosodiphenylamine	ND	120	ug/kg
2,2'-oxybis (1-Chloropropane)	ND	24	ug/kg
Pentachlorophenol	ND	120	ug/kg
Phenanthrene	30	24	ug/kg
Phenol	ND	24	ug/kg
Pyrene	30	24	ug/kg
2,4,5-Trichloro- phenol	ND	120	ug/kg
2,4,6-Trichloro- phenol	ND	120	ug/kg

(Continued on next page)

Stantec Consulting Services Inc

Client Sample ID: WM-4

GC/MS Semivolatiles

Lot-Sample #...: C0J060476-004 Work Order #...: L72341AD Matrix.....: SOLID

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	73	(27 - 110)
Terphenyl-d14	81	(21 - 130)
2-Fluorobiphenyl	79	(28 - 108)
2-Fluorophenol	84	(28 - 107)
Phenol-d5	77	(30 - 112)
2,4,6-Tribromophenol	86	(21 - 116)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: C0J060476
 MB Lot-Sample #: C0J080000-046

Work Order #...: L75T21AA

Matrix.....: SOLID

Analysis Date...: 10/11/10

Prep Date.....: 10/08/10

Analysis Time...: 10:44

Dilution Factor: 0.5

Prep Batch #...: 0281046

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acenaphthene	ND	3.4	ug/kg	SW846 8270C
Acenaphthylene	ND	3.4	ug/kg	SW846 8270C
Acetophenone	ND	16	ug/kg	SW846 8270C
Anthracene	ND	3.4	ug/kg	SW846 8270C
Atrazine	ND	16	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	3.4	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	3.4	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	3.4	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	3.4	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	3.4	ug/kg	SW846 8270C
Benzaldehyde	ND	16	ug/kg	SW846 8270C
1,1'-Biphenyl	ND	16	ug/kg	SW846 8270C
bis(2-Chloroethoxy) methane	ND	16	ug/kg	SW846 8270C
bis(2-Chloroethyl)- ether	ND	3.4	ug/kg	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	33	ug/kg	SW846 8270C
4-Bromophenyl phenyl ether	ND	16	ug/kg	SW846 8270C
Butyl benzyl phthalate	ND	16	ug/kg	SW846 8270C
Caprolactam	ND	85	ug/kg	SW846 8270C
Carbazole	ND	3.4	ug/kg	SW846 8270C
4-Chloroaniline	ND	16	ug/kg	SW846 8270C
4-Chloro-3-methylphenol	ND	16	ug/kg	SW846 8270C
2-Chloronaphthalene	ND	3.4	ug/kg	SW846 8270C
2-Chlorophenol	ND	16	ug/kg	SW846 8270C
4-Chlorophenyl phenyl ether	ND	16	ug/kg	SW846 8270C
Chrysene	ND	3.4	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	ND	3.4	ug/kg	SW846 8270C
Dibenzofuran	ND	16	ug/kg	SW846 8270C
3,3'-Dichlorobenzidine	ND	16	ug/kg	SW846 8270C
2,4-Dichlorophenol	ND	3.4	ug/kg	SW846 8270C
Diethyl phthalate	ND	16	ug/kg	SW846 8270C
2,4-Dimethylphenol	ND	16	ug/kg	SW846 8270C
Dimethyl phthalate	ND	16	ug/kg	SW846 8270C
Di-n-butyl phthalate	ND	16	ug/kg	SW846 8270C
4,6-Dinitro- 2-methylphenol	ND	85	ug/kg	SW846 8270C
2,4-Dinitrophenol	ND	85	ug/kg	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: C0J060476

Work Order #...: L75T21AA

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
2,4-Dinitrotoluene	ND	16	ug/kg	SW846 8270C
2,6-Dinitrotoluene	ND	16	ug/kg	SW846 8270C
Di-n-octyl phthalate	ND	16	ug/kg	SW846 8270C
Fluoranthene	ND	3.4	ug/kg	SW846 8270C
Fluorene	ND	3.4	ug/kg	SW846 8270C
Hexachlorobenzene	ND	3.4	ug/kg	SW846 8270C
Hexachlorobutadiene	ND	3.4	ug/kg	SW846 8270C
Hexachlorocyclopenta- diene	ND	16	ug/kg	SW846 8270C
Hexachloroethane	ND	16	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	3.4	ug/kg	SW846 8270C
Isophorone	ND	16	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	3.4	ug/kg	SW846 8270C
2-Methylphenol	ND	16	ug/kg	SW846 8270C
4-Methylphenol	ND	16	ug/kg	SW846 8270C
Naphthalene	ND	3.4	ug/kg	SW846 8270C
2-Nitroaniline	ND	85	ug/kg	SW846 8270C
3-Nitroaniline	ND	85	ug/kg	SW846 8270C
4-Nitroaniline	ND	85	ug/kg	SW846 8270C
Nitrobenzene	ND	33	ug/kg	SW846 8270C
2-Nitrophenol	ND	16	ug/kg	SW846 8270C
4-Nitrophenol	ND	85	ug/kg	SW846 8270C
N-Nitrosodi-n-propyl- amine	ND	3.4	ug/kg	SW846 8270C
N-Nitrosodiphenylamine	ND	16	ug/kg	SW846 8270C
2,2'-oxybis (1-Chloropropane)	ND	3.4	ug/kg	SW846 8270C
Pentachlorophenol	ND	16	ug/kg	SW846 8270C
Phenanthrene	ND	3.4	ug/kg	SW846 8270C
Phenol	ND	3.4	ug/kg	SW846 8270C
Pyrene	ND	3.4	ug/kg	SW846 8270C
2,4,5-Trichloro- phenol	ND	16	ug/kg	SW846 8270C
2,4,6-Trichloro- phenol	ND	16	ug/kg	SW846 8270C

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Nitrobenzene-d5	87	(27 - 110)
Terphenyl-d14	90	(21 - 130)
2-Fluorobiphenyl	88	(28 - 108)
2-Fluorophenol	104	(28 - 107)
Phenol-d5	92	(30 - 112)
2,4,6-Tribromophenol	75	(21 - 116)

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: C0J060476

Work Order #...: L75T21AA

Matrix.....: SOLID

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: C0J060476 Work Order #...: L75T21AC Matrix.....: SOLID
 LCS Lot-Sample#: C0J080000-046
 Prep Date.....: 10/08/10 Analysis Date...: 10/18/10
 Prep Batch #...: 0281046 Analysis Time...: 03:50
 Dilution Factor: 0.5

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	<u>METHOD</u>
Acenaphthene	81	(42 - 104)	SW846 8270C
1,4-Dichlorobenzene	82	(41 - 101)	SW846 8270C
1,2,4-Trichloro- benzene	84	(41 - 105)	SW846 8270C
4-Bromophenyl phenyl ether	85	(43 - 111)	SW846 8270C
Butyl benzyl phthalate	81	(40 - 117)	SW846 8270C
4-Chloro-3-methylphenol	92	(43 - 110)	SW846 8270C
2-Chlorophenol	87	(40 - 105)	SW846 8270C
2,4-Dinitrotoluene	85	(48 - 118)	SW846 8270C
Hexachloroethane	85	(40 - 102)	SW846 8270C
4-Methylphenol	95	(43 - 107)	SW846 8270C
Naphthalene	82	(42 - 104)	SW846 8270C
4-Nitrophenol	81	(27 - 131)	SW846 8270C
N-Nitrosodi-n-propyl- amine	89	(42 - 108)	SW846 8270C
Pentachlorophenol	64	(18 - 125)	SW846 8270C
Phenol	85	(39 - 105)	SW846 8270C
Pyrene	84	(39 - 113)	SW846 8270C

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Nitrobenzene-d5	86	(27 - 110)
Terphenyl-d14	93	(21 - 130)
2-Fluorobiphenyl	83	(28 - 108)
2-Fluorophenol	104	(28 - 107)
Phenol-d5	94	(30 - 112)
2,4,6-Tribromophenol	99	(21 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: C0J060476 Work Order #...: L72341AR-MS Matrix.....: SOLID
 MS Lot-Sample #: C0J060476-004 L72341AT-MSD
 Date Sampled...: 10/05/10 Date Received...: 10/06/10 MS Run #.....: 0281030
 Prep Date.....: 10/08/10 Analysis Date...: 10/11/10
 Prep Batch #...: 0281046 Analysis Time...: 11:46
 Dilution Factor: 2.5 % Moisture.....: 29

PARAMETER	PERCENT	RECOVERY	RPD		METHOD
	RECOVERY	LIMITS	RPD	LIMITS	
Acenaphthene	92	(42 - 104)			SW846 8270C
	90	(42 - 104)	2.4	(0-34)	SW846 8270C
1,4-Dichlorobenzene	81	(41 - 101)			SW846 8270C
	75	(41 - 101)	7.2	(0-32)	SW846 8270C
1,2,4-Trichloro- benzene	88	(41 - 105)			SW846 8270C
	85	(41 - 105)	4.0	(0-36)	SW846 8270C
4-Bromophenyl phenyl ether	95	(43 - 111)			SW846 8270C
	90	(43 - 111)	4.8	(0-20)	SW846 8270C
Butyl benzyl phthalate	81	(40 - 117)			SW846 8270C
	82	(40 - 117)	0.97	(0-34)	SW846 8270C
4-Chloro-3-methylphenol	91	(43 - 110)			SW846 8270C
	92	(43 - 110)	0.66	(0-31)	SW846 8270C
2-Chlorophenol	89	(40 - 105)			SW846 8270C
	81	(40 - 105)	8.4	(0-37)	SW846 8270C
2,4-Dinitrotoluene	96	(48 - 118)			SW846 8270C
	95	(48 - 118)	1.6	(0-33)	SW846 8270C
Hexachloroethane	67	(40 - 102)			SW846 8270C
	56	(40 - 102)	17	(0-34)	SW846 8270C
4-Methylphenol	89	(43 - 107)			SW846 8270C
	85	(43 - 107)	5.2	(0-36)	SW846 8270C
Naphthalene	87	(42 - 104)			SW846 8270C
	85	(42 - 104)	2.2	(0-25)	SW846 8270C
4-Nitrophenol	98	(27 - 131)			SW846 8270C
	96	(27 - 131)	1.5	(0-33)	SW846 8270C
N-Nitrosodi-n-propyl- amine	85	(42 - 108)			SW846 8270C
	77	(42 - 108)	11	(0-32)	SW846 8270C
Pentachlorophenol	61	(18 - 125)			SW846 8270C
	56	(18 - 125)	8.7	(0-34)	SW846 8270C
Phenol	81	(39 - 105)			SW846 8270C
	77	(39 - 105)	4.6	(0-40)	SW846 8270C
Pyrene	81	(39 - 113)			SW846 8270C
	79	(39 - 113)	2.0	(0-28)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: C0J060476 Work Order #...: L72341AR-MS Matrix.....: SOLID
MS Lot-Sample #: C0J060476-004 L72341AT-MSD

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Nitrobenzene-d5	109	(27 - 110)
	107	(27 - 110)
Terphenyl-d14	109	(21 - 130)
	105	(21 - 130)
2-Fluorobiphenyl	110 *	(28 - 108)
	106	(28 - 108)
2-Fluorophenol	122 *	(28 - 107)
	117 *	(28 - 107)
Phenol-d5	109	(30 - 112)
	105	(30 - 112)
2,4,6-Tribromophenol	118 *	(21 - 116)
	109	(21 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

* Surrogate recovery is outside stated control limits.

Stantec Consulting Services Inc

Client Sample ID: WM-1

GC Semivolatiles

Lot-Sample #...: C0J060476-001 Work Order #...: L72311AE Matrix.....: SOLID
 Date Sampled...: 10/05/10 Date Received...: 10/06/10 MS Run #.....: 0287044
 Prep Date.....: 10/14/10 Analysis Date...: 10/21/10
 Prep Batch #...: 0287077 Analysis Time...: 20:45
 Dilution Factor: 0.49
 % Moisture.....: 43 Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
alpha-BHC	ND	1.5	ug/kg
beta-BHC	ND	1.5	ug/kg
delta-BHC	ND	1.5	ug/kg
gamma-BHC (Lindane)	1.1 J	1.5	ug/kg
Heptachlor	0.49 J,PG	1.5	ug/kg
Aldrin	ND	1.5	ug/kg
Heptachlor epoxide	ND	1.5	ug/kg
Endosulfan I	ND	1.5	ug/kg
Dieldrin	0.77 J,PG	1.5	ug/kg
4,4'-DDE	1.7 PG	1.5	ug/kg
Endrin	1.2 J,PG	1.5	ug/kg
Endrin ketone	0.39 J,PG	1.5	ug/kg
Endrin aldehyde	ND	1.5	ug/kg
Endosulfan II	ND	1.5	ug/kg
4,4'-DDD	1.4 J	1.5	ug/kg
Endosulfan sulfate	ND	1.5	ug/kg
4,4'-DDT	ND	1.5	ug/kg
Methoxychlor	2.2 J,PG	2.8	ug/kg
alpha-Chlordane	ND	1.5	ug/kg
gamma-Chlordane	3.0	1.5	ug/kg
Toxaphene	ND	58	ug/kg

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Tetrachloro-m-xylene	61	(45 - 130)
Decachlorobiphenyl	76	(45 - 130)

NOTE(S):

- Results and reporting limits have been adjusted for dry weight.
- J Estimated result. Result is less than RL.
- PG The percent difference between the original and confirmation analyses is greater than 40%.

Stantec Consulting Services Inc

Client Sample ID: WM-2

GC Semivolatiles

Lot-Sample #...: C0J060476-002 Work Order #...: L72321AE Matrix.....: SOLID
 Date Sampled...: 10/05/10 Date Received...: 10/06/10 MS Run #.....: 0287044
 Prep Date.....: 10/14/10 Analysis Date...: 10/21/10
 Prep Batch #...: 0287077 Analysis Time...: 21:04
 Dilution Factor: 0.5
 % Moisture.....: 18 Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
alpha-BHC	ND	1.0	ug/kg
beta-BHC	ND	1.0	ug/kg
delta-BHC	ND	1.0	ug/kg
gamma-BHC (Lindane)	ND	1.0	ug/kg
Heptachlor	ND	1.0	ug/kg
Aldrin	ND	1.0	ug/kg
Heptachlor epoxide	ND	1.0	ug/kg
Endosulfan I	ND	1.0	ug/kg
Dieldrin	0.21 J,PG	1.0	ug/kg
4,4'-DDE	ND	1.0	ug/kg
Endrin	ND	1.0	ug/kg
Endrin ketone	ND	1.0	ug/kg
Endrin aldehyde	ND	1.0	ug/kg
Endosulfan II	ND	1.0	ug/kg
4,4'-DDD	ND	1.0	ug/kg
Endosulfan sulfate	ND	1.0	ug/kg
4,4'-DDT	ND	1.0	ug/kg
Methoxychlor	ND	2.0	ug/kg
alpha-Chlordane	ND	1.0	ug/kg
gamma-Chlordane	0.31 J,PG	1.0	ug/kg
Toxaphene	ND	41	ug/kg

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Tetrachloro-m-xylene	75	(45 - 130)
Decachlorobiphenyl	78	(45 - 130)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

PG The percent difference between the original and confirmation analyses is greater than 40%.

Stantec Consulting Services Inc

Client Sample ID: WM-3

GC Semivolatiles

Lot-Sample #...: C0J060476-003 Work Order #...: L72331AE Matrix.....: SOLID
 Date Sampled...: 10/05/10 Date Received...: 10/06/10 MS Run #.....: 0287044
 Prep Date.....: 10/14/10 Analysis Date...: 10/21/10
 Prep Batch #...: 0287077 Analysis Time...: 21:23
 Dilution Factor: 0.49
 % Moisture.....: 11 Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
alpha-BHC	1.0	0.93	ug/kg
beta-BHC	ND	0.93	ug/kg
delta-BHC	ND	0.93	ug/kg
gamma-BHC (Lindane)	ND	0.93	ug/kg
Heptachlor	ND	0.93	ug/kg
Aldrin	ND	0.93	ug/kg
Heptachlor epoxide	ND	0.93	ug/kg
Endosulfan I	ND	0.93	ug/kg
Dieldrin	0.20 J,PG	0.93	ug/kg
4,4'-DDE	ND	0.93	ug/kg
Endrin	ND	0.93	ug/kg
Endrin ketone	ND	0.93	ug/kg
Endrin aldehyde	ND	0.93	ug/kg
Endosulfan II	ND	0.93	ug/kg
4,4'-DDD	ND	0.93	ug/kg
Endosulfan sulfate	ND	0.93	ug/kg
4,4'-DDT	ND	0.93	ug/kg
Methoxychlor	ND	1.8	ug/kg
alpha-Chlordane	ND	0.93	ug/kg
gamma-Chlordane	0.25 J,PG	0.93	ug/kg
Toxaphene	ND	37	ug/kg

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Tetrachloro-m-xylene	80	(45 - 130)
Decachlorobiphenyl	90	(45 - 130)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

PG The percent difference between the original and confirmation analyses is greater than 40%.

Stantec Consulting Services Inc

Client Sample ID: WM-4

GC Semivolatiles

Lot-Sample #...: C0J060476-004 Work Order #...: L72341AE Matrix.....: SOLID
 Date Sampled...: 10/05/10 Date Received...: 10/06/10 MS Run #.....: 0287044
 Prep Date.....: 10/14/10 Analysis Date...: 10/21/10
 Prep Batch #...: 0287077 Analysis Time...: 21:43
 Dilution Factor: 0.5
 % Moisture.....: 29 Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
alpha-BHC	ND	1.2	ug/kg
beta-BHC	ND	1.2	ug/kg
delta-BHC	1.1 J	1.2	ug/kg
gamma-BHC (Lindane)	ND	1.2	ug/kg
Heptachlor	0.44 J,PG	1.2	ug/kg
Aldrin	ND	1.2	ug/kg
Heptachlor epoxide	ND	1.2	ug/kg
Endosulfan I	ND	1.2	ug/kg
Dieldrin	0.68 J,PG	1.2	ug/kg
4,4'-DDE	ND	1.2	ug/kg
Endrin	ND	1.2	ug/kg
Endrin ketone	ND	1.2	ug/kg
Endrin aldehyde	ND	1.2	ug/kg
Endosulfan II	ND	1.2	ug/kg
4,4'-DDD	0.98 J	1.2	ug/kg
Endosulfan sulfate	ND	1.2	ug/kg
4,4'-DDT	0.43 J,PG	1.2	ug/kg
Methoxychlor	ND	2.3	ug/kg
alpha-Chlordane	ND	1.2	ug/kg
gamma-Chlordane	0.42 J,PG	1.2	ug/kg
Toxaphene	ND	95	ug/kg

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Tetrachloro-m-xylene	70	(45 - 130)
Decachlorobiphenyl	83	(45 - 130)

NOTE(S):

- Results and reporting limits have been adjusted for dry weight.
- J Estimated result. Result is less than RL.
- PG The percent difference between the original and confirmation analyses is greater than 40%.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C0J060476
 MB Lot-Sample #: C0J140000-077
 Analysis Date...: 10/21/10
 Dilution Factor: 1

Work Order #...: L8FF51AA
 Prep Date.....: 10/14/10
 Prep Batch #...: 0287077

Matrix.....: SOLID
 Analysis Time...: 23:37

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
alpha-BHC	ND	1.7	ug/kg	SW846 8081A
beta-BHC	ND	1.7	ug/kg	SW846 8081A
delta-BHC	ND	1.7	ug/kg	SW846 8081A
gamma-BHC (Lindane)	ND	1.7	ug/kg	SW846 8081A
Heptachlor	ND	1.7	ug/kg	SW846 8081A
Aldrin	ND	1.7	ug/kg	SW846 8081A
Heptachlor epoxide	ND	1.7	ug/kg	SW846 8081A
Endosulfan I	ND	1.7	ug/kg	SW846 8081A
Dieldrin	ND	1.7	ug/kg	SW846 8081A
4,4'-DDE	ND	1.7	ug/kg	SW846 8081A
Endrin	ND	1.7	ug/kg	SW846 8081A
Endrin ketone	ND	1.7	ug/kg	SW846 8081A
Endrin aldehyde	ND	1.7	ug/kg	SW846 8081A
Endosulfan II	ND	1.7	ug/kg	SW846 8081A
4,4'-DDD	ND	1.7	ug/kg	SW846 8081A
Endosulfan sulfate	ND	1.7	ug/kg	SW846 8081A
4,4'-DDT	ND	1.7	ug/kg	SW846 8081A
Methoxychlor	ND	3.3	ug/kg	SW846 8081A
alpha-Chlordane	ND	1.7	ug/kg	SW846 8081A
gamma-Chlordane	ND	1.7	ug/kg	SW846 8081A
Toxaphene	ND	67	ug/kg	SW846 8081A

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Tetrachloro-m-xylene	64	(45 - 130)
Decachlorobiphenyl	74	(45 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C0J060476 Work Order #...: L8FF51AC Matrix.....: SOLID
 LCS Lot-Sample#: C0J140000-077
 Prep Date.....: 10/14/10 Analysis Date..: 10/21/10
 Prep Batch #...: 0287077 Analysis Time..: 23:56
 Dilution Factor: 1

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	<u>METHOD</u>
gamma-BHC (Lindane)	75	(66 - 124)	SW846 8081A
Heptachlor	77	(70 - 128)	SW846 8081A
Aldrin	79	(70 - 123)	SW846 8081A
Dieldrin	82	(70 - 123)	SW846 8081A
Endrin	82	(70 - 127)	SW846 8081A
4,4'-DDT	82	(61 - 126)	SW846 8081A

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Tetrachloro-m-xylene	77	(45 - 130)
Decachlorobiphenyl	82	(45 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C0J060476 Work Order #...: L72341AU-MS Matrix.....: SOLID
 MS Lot-Sample #: C0J060476-004 L72341AV-MSD
 Date Sampled...: 10/05/10 Date Received...: 10/06/10 MS Run #.....: 0287044
 Prep Date.....: 10/14/10 Analysis Date...: 10/22/10
 Prep Batch #...: 0287077 Analysis Time...: 06:56
 Dilution Factor: 0.5 % Moisture.....: 29

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
gamma-BHC (Lindane)	64 a	(66 - 124)			SW846 8081A
	56 a	(66 - 124)	14	(0-20)	SW846 8081A
Heptachlor	69 a	(70 - 128)			SW846 8081A
	65 a	(70 - 128)	6.0	(0-20)	SW846 8081A
Aldrin	68 a	(70 - 123)			SW846 8081A
	66 a	(70 - 123)	2.8	(0-20)	SW846 8081A
Dieldrin	71	(70 - 123)			SW846 8081A
	72	(70 - 123)	0.94	(0-20)	SW846 8081A
Endrin	71	(70 - 127)			SW846 8081A
	71	(70 - 127)	0.48	(0-20)	SW846 8081A
4,4'-DDT	65	(61 - 126)			SW846 8081A
	60 a	(61 - 126)	7.5	(0-37)	SW846 8081A

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetrachloro-m-xylene	71	(45 - 130)
	71	(45 - 130)
Decachlorobiphenyl	86	(45 - 130)
	82	(45 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters
 a Spiked analyte recovery is outside stated control limits.
 Results and reporting limits have been adjusted for dry weight.

Stantec Consulting Services Inc

Client Sample ID: WM-1

GC Semivolatiles

Lot-Sample #...: C0J060476-001 Work Order #...: L72311AQ Matrix.....: SOLID
Date Sampled...: 10/05/10 Date Received..: 10/06/10 MS Run #.....: 0287046
Prep Date.....: 10/14/10 Analysis Date..: 10/21/10
Prep Batch #...: 0287079 Analysis Time..: 15:51
Dilution Factor: 0.49
% Moisture.....: 43 Method.....: SW846 8082

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Aroclor 1016	ND	14	ug/kg
Aroclor 1221	ND	14	ug/kg
Aroclor 1232	ND	14	ug/kg
Aroclor 1242	ND	14	ug/kg
Aroclor 1248	ND	14	ug/kg
Aroclor 1254	ND	14	ug/kg
Aroclor 1260	ND	14	ug/kg

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetrachloro-m-xylene	70	(35 - 140)
Decachlorobiphenyl	92	(35 - 140)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Stantec Consulting Services Inc

Client Sample ID: WM-2

GC Semivolatiles

Lot-Sample #...: C0J060476-002 Work Order #...: L72321AQ Matrix.....: SOLID
 Date Sampled...: 10/05/10 Date Received..: 10/06/10 MS Run #.....: 0287046
 Prep Date.....: 10/14/10 Analysis Date..: 10/21/10
 Prep Batch #...: 0287079 Analysis Time..: 16:18
 Dilution Factor: 0.5
 % Moisture.....: 18 Method.....: SW846 8082

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Aroclor 1016	ND	10	ug/kg
Aroclor 1221	ND	10	ug/kg
Aroclor 1232	ND	10	ug/kg
Aroclor 1242	ND	10	ug/kg
Aroclor 1248	ND	10	ug/kg
Aroclor 1254	ND	10	ug/kg
Aroclor 1260	ND	10	ug/kg
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
Tetrachloro-m-xylene	86	(35 - 140)	
Decachlorobiphenyl	89	(35 - 140)	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Stantec Consulting Services Inc

Client Sample ID: WM-3

GC Semivolatiles

Lot-Sample #...: C0J060476-003 **Work Order #...**: L72331AQ **Matrix.....**: SOLID
Date Sampled...: 10/05/10 **Date Received..**: 10/06/10 **MS Run #.....**: 0287046
Prep Date.....: 10/14/10 **Analysis Date..**: 10/21/10
Prep Batch #...: 0287079 **Analysis Time..**: 16:45
Dilution Factor: 0.49
% Moisture.....: 11 **Method.....**: SW846 8082

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Aroclor 1016	ND	9.1	ug/kg
Aroclor 1221	ND	9.1	ug/kg
Aroclor 1232	ND	9.1	ug/kg
Aroclor 1242	ND	9.1	ug/kg
Aroclor 1248	ND	9.1	ug/kg
Aroclor 1254	ND	9.1	ug/kg
Aroclor 1260	ND	9.1	ug/kg

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Tetrachloro-m-xylene	99	(35 - 140)
Decachlorobiphenyl	110	(35 - 140)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Stantec Consulting Services Inc

Client Sample ID: WM-4

GC Semivolatiles

Lot-Sample #...: C0J060476-004 Work Order #...: L72341AQ Matrix.....: SOLID
 Date Sampled...: 10/05/10 Date Received...: 10/06/10 MS Run #.....: 0287046
 Prep Date.....: 10/14/10 Analysis Date...: 10/21/10
 Prep Batch #...: 0287079 Analysis Time...: 17:39
 Dilution Factor: 0.5
 % Moisture.....: 29 Method.....: SW846 8082

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Aroclor 1016	ND	12	ug/kg
Aroclor 1221	ND	12	ug/kg
Aroclor 1232	ND	12	ug/kg
Aroclor 1242	ND	12	ug/kg
Aroclor 1248	ND	12	ug/kg
Aroclor 1254	ND	12	ug/kg
Aroclor 1260	ND	12	ug/kg

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetrachloro-m-xylene	83	(35 - 140)
Decachlorobiphenyl	102	(35 - 140)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C0J060476
MB Lot-Sample #: C0J140000-079
Analysis Date...: 10/21/10
Dilution Factor: 1

Work Order #...: L8FF71AA
Prep Date.....: 10/14/10
Prep Batch #...: 0287079

Matrix.....: SOLID
Analysis Time...: 19:00

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Aroclor 1016	ND	17	ug/kg	SW846 8082
Aroclor 1221	ND	17	ug/kg	SW846 8082
Aroclor 1232	ND	17	ug/kg	SW846 8082
Aroclor 1242	ND	17	ug/kg	SW846 8082
Aroclor 1248	ND	17	ug/kg	SW846 8082
Aroclor 1254	ND	17	ug/kg	SW846 8082
Aroclor 1260	ND	17	ug/kg	SW846 8082

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetrachloro-m-xylene	75	(35 - 140)
Decachlorobiphenyl	87	(35 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C0J060476 Work Order #...: L8FF71AC Matrix.....: SOLID
 LCS Lot-Sample#: C0J140000-079
 Prep Date.....: 10/14/10 Analysis Date..: 10/21/10
 Prep Batch #...: 0287079 Analysis Time..: 19:28
 Dilution Factor: 1

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	<u>METHOD</u>
Aroclor 1016	60	(55 - 130)	SW846 8082
Aroclor 1260	62	(54 - 130)	SW846 8082

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Tetrachloro-m-xylene	85	(35 - 140)
Decachlorobiphenyl	90	(35 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C0J060476 Work Order #...: L72341AW-MS Matrix.....: SOLID
 MS Lot-Sample #: C0J060476-004 L72341AX-MSD
 Date Sampled...: 10/05/10 Date Received...: 10/06/10 MS Run #.....: 0287046
 Prep Date.....: 10/14/10 Analysis Date...: 10/21/10
 Prep Batch #...: 0287079 Analysis Time...: 18:06
 Dilution Factor: 0.5 % Moisture.....: 29

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Aroclor 1016	78	(55 - 130)			SW846 8082
	63	(55 - 130)	22	(0-35)	SW846 8082
Aroclor 1260	81	(54 - 130)			SW846 8082
	67	(54 - 130)	20	(0-29)	SW846 8082

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetrachloro-m-xylene	87	(35 - 140)
	84	(35 - 140)
Decachlorobiphenyl	99	(35 - 140)
	92	(35 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters
 Results and reporting limits have been adjusted for dry weight.

Stantec Consulting Services Inc

Client Sample ID: WM-1

GC Semivolatiles

Lot-Sample #...: C0J060476-001 Work Order #...: L72311AF Matrix.....: SOLID
 Date Sampled...: 10/05/10 Date Received..: 10/06/10 MS Run #.....:
 Prep Date.....: 10/07/10 Analysis Date..: 10/15/10
 Prep Batch #...: 0280279 Analysis Time..: 15:09
 Dilution Factor: 1
 % Moisture.....: 43 Method.....: SW846 8151A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
2,4-D	ND	140	ug/kg
Dalapon	ND	160	ug/kg
2,4-DB	ND	140	ug/kg
Dicamba	ND	70	ug/kg
Dichlorprop	ND	140	ug/kg
Dinoseb	ND	21	ug/kg
MCPA	ND	14000	ug/kg
MCPP	ND	14000	ug/kg
Pentachlorophenol	ND	19	ug/kg
2,4,5-TP (Silvex)	ND	35	ug/kg
2,4,5-T	ND	35	ug/kg

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
DCAA	70	(42 - 140)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Stantec Consulting Services Inc

Client Sample ID: WM-2

GC Semivolatiles

Lot-Sample #...: C0J060476-002 Work Order #...: L72321AF Matrix.....: SOLID
 Date Sampled...: 10/05/10 Date Received..: 10/06/10 MS Run #.....:
 Prep Date.....: 10/07/10 Analysis Date..: 10/15/10
 Prep Batch #...: 0280279 Analysis Time..: 15:32
 Dilution Factor: 1
 % Moisture.....: 18 Method.....: SW846 8151A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
2,4-D	ND	97	ug/kg
Dalapon	ND	110	ug/kg
2,4-DB	ND	97	ug/kg
Dicamba	ND	49	ug/kg
Dichlorprop	ND	97	ug/kg
Dinoseb	ND	15	ug/kg
MCPA	ND	9700	ug/kg
MCPP	ND	9700	ug/kg
Pentachlorophenol	ND	13	ug/kg
2,4,5-TP (Silvex)	ND	24	ug/kg
2,4,5-T	ND	24	ug/kg

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
DCAA	80	(42 - 140)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Stantec Consulting Services Inc

Client Sample ID: WM-3

GC Semivolatiles

Lot-Sample #...: C0J060476-003 Work Order #...: L72331AF Matrix.....: SOLID
 Date Sampled...: 10/05/10 Date Received..: 10/06/10 MS Run #.....:
 Prep Date.....: 10/07/10 Analysis Date..: 10/15/10
 Prep Batch #...: 0280279 Analysis Time..: 15:55
 Dilution Factor: 1
 % Moisture.....: 11 Method.....: SW846 8151A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
2,4-D	ND	90	ug/kg
Dalapon	ND	100	ug/kg
2,4-DB	ND	90	ug/kg
Dicamba	ND	45	ug/kg
Dichlorprop	ND	90	ug/kg
Dinoseb	ND	13	ug/kg
MCPA	ND	9000	ug/kg
MCPP	ND	9000	ug/kg
Pentachlorophenol	ND	12	ug/kg
2,4,5-TP (Silvex)	ND	22	ug/kg
2,4,5-T	ND	22	ug/kg

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
DCAA	64	(42 - 140)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Stantec Consulting Services Inc

Client Sample ID: WM-4

GC Semivolatiles

Lot-Sample #...: C0J060476-004 Work Order #...: L72341AF Matrix.....: SOLID
 Date Sampled...: 10/05/10 Date Received..: 10/06/10 MS Run #.....:
 Prep Date.....: 10/07/10 Analysis Date..: 10/15/10
 Prep Batch #...: 0280279 Analysis Time..: 16:18
 Dilution Factor: 1
 % Moisture.....: 29 Method.....: SW846 8151A

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
2,4-D	ND	110	ug/kg
Dalapon	ND	130	ug/kg
2,4-DB	ND	110	ug/kg
Dicamba	ND	57	ug/kg
Dichlorprop	ND	110	ug/kg
Dinoseb	ND	17	ug/kg
MCPA	ND	11000	ug/kg
MCPP	ND	11000	ug/kg
Pentachlorophenol	2.3 J	16	ug/kg
2,4,5-TP (Silvex)	ND	28	ug/kg
2,4,5-T	ND	28	ug/kg

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
DCAA	62	(42 - 140)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C0J060476
 MB Lot-Sample #: C0J070000-279
 Analysis Date...: 10/15/10
 Dilution Factor: 1

Work Order #...: L743E1AA
 Prep Date.....: 10/07/10
 Prep Batch #...: 0280279

Matrix.....: SOLID
 Analysis Time...: 16:41

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
2,4-D	ND	80	ug/kg	SW846 8151A
Dalapon	ND	90	ug/kg	SW846 8151A
2,4-DB	ND	80	ug/kg	SW846 8151A
Dicamba	ND	40	ug/kg	SW846 8151A
Dichlorprop	ND	80	ug/kg	SW846 8151A
Dinoseb	ND	12	ug/kg	SW846 8151A
MCPA	ND	8000	ug/kg	SW846 8151A
MCPP	ND	8000	ug/kg	SW846 8151A
Pentachlorophenol	ND	11	ug/kg	SW846 8151A
2,4,5-TP (Silvex)	ND	20	ug/kg	SW846 8151A
2,4,5-T	ND	20	ug/kg	SW846 8151A

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
DCAA	82	(42 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C0J060476 Work Order #...: L743E1AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: C0J070000-279 L743E1AD-LCSD
 Prep Date.....: 10/07/10 Analysis Date..: 10/15/10
 Prep Batch #...: 0280279 Analysis Time..: 17:04
 Dilution Factor: 1

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	RPD	RPD <u>LIMITS</u>	<u>METHOD</u>
2,4-D	64	(30 - 140)			SW846 8151A
	63	(30 - 140)	2.0	(0-30)	SW846 8151A
Pentachlorophenol	93	(60 - 140)			SW846 8151A
	77	(60 - 140)	20	(0-30)	SW846 8151A
2,4,5-TP (Silvex)	83	(40 - 130)			SW846 8151A
	75	(40 - 130)	10	(0-30)	SW846 8151A
2,4,5-T	73	(30 - 140)			SW846 8151A
	72	(30 - 140)	2.2	(0-30)	SW846 8151A
2,4-DB	69	(34 - 140)			SW846 8151A
	62	(34 - 140)	12	(0-30)	SW846 8151A
Dalapon	55	(36 - 120)			SW846 8151A
	50	(36 - 120)	9.6	(0-30)	SW846 8151A
Dicamba	89	(50 - 140)			SW846 8151A
	75	(50 - 140)	16	(0-30)	SW846 8151A
Dichlorprop	79	(50 - 130)			SW846 8151A
	72	(50 - 130)	10	(0-30)	SW846 8151A
Dinoseb	113	(10 - 140)			SW846 8151A
	96	(10 - 140)	17	(0-30)	SW846 8151A
MCPA	71	(50 - 120)			SW846 8151A
	69	(50 - 120)	2.6	(0-30)	SW846 8151A
MCPP	83	(50 - 140)			SW846 8151A
	73	(50 - 140)	14	(0-30)	SW846 8151A

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
DCAA	91	(42 - 140)
	74	(42 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

Stantec Consulting Services Inc

Client Sample ID: WM-1

TOTAL Metals

Lot-Sample #...: C0J060476-001

Matrix.....: SOLID

Date Sampled...: 10/05/10

Date Received...: 10/06/10

% Moisture.....: 43

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Prep Batch #...: 0292036						
Mercury	0.059	0.029	mg/kg	SW846 7471A	10/20/10	L72311AP
		Dilution Factor: 0.5		Analysis Time..: 08:57	MS Run #.....: 0292028	
Prep Batch #...: 0292394						
Arsenic	6.3	1.1	mg/kg	SW846 6010B	10/19-10/20/10	L72311AG
		Dilution Factor: 0.62		Analysis Time..: 23:50	MS Run #.....: 0292198	
Barium	106 J	21.9	mg/kg	SW846 6010B	10/19-10/20/10	L72311AH
		Dilution Factor: 0.62		Analysis Time..: 23:50	MS Run #.....: 0292198	
Cadmium	0.53 B	0.55	mg/kg	SW846 6010B	10/19-10/20/10	L72311AJ
		Dilution Factor: 0.62		Analysis Time..: 23:50	MS Run #.....: 0292198	
Chromium	13.7	0.55	mg/kg	SW846 6010B	10/19-10/20/10	L72311AK
		Dilution Factor: 0.62		Analysis Time..: 23:50	MS Run #.....: 0292198	
Lead	13.8	0.33	mg/kg	SW846 6010B	10/19-10/20/10	L72311AL
		Dilution Factor: 0.62		Analysis Time..: 23:50	MS Run #.....: 0292198	
Selenium	0.45 B	0.55	mg/kg	SW846 6010B	10/19-10/20/10	L72311AM
		Dilution Factor: 0.62		Analysis Time..: 23:50	MS Run #.....: 0292198	
Silver	0.16 B	0.55	mg/kg	SW846 6010B	10/19-10/20/10	L72311AN
		Dilution Factor: 0.62		Analysis Time..: 23:50	MS Run #.....: 0292198	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Stantec Consulting Services Inc

Client Sample ID: WM-2

TOTAL Metals

Lot-Sample #...: C0J060476-002

Matrix.....: SOLID

Date Sampled...: 10/05/10

Date Received...: 10/06/10

% Moisture.....: 18

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Prep Batch #...: 0292036						
Mercury	0.014 B	0.020	mg/kg	SW846 7471A	10/20/10	L72321AP
		Dilution Factor: 0.5		Analysis Time..: 09:02	MS Run #.....: 0292028	
Prep Batch #...: 0292394						
Arsenic	5.6	0.68	mg/kg	SW846 6010B	10/19-10/21/10	L72321AG
		Dilution Factor: 0.56		Analysis Time..: 00:12	MS Run #.....: 0292198	
Barium	27.6 J	13.6	mg/kg	SW846 6010B	10/19-10/21/10	L72321AH
		Dilution Factor: 0.56		Analysis Time..: 00:12	MS Run #.....: 0292198	
Cadmium	0.31 B	0.34	mg/kg	SW846 6010B	10/19-10/21/10	L72321AJ
		Dilution Factor: 0.56		Analysis Time..: 00:12	MS Run #.....: 0292198	
Chromium	4.1	0.34	mg/kg	SW846 6010B	10/19-10/21/10	L72321AK
		Dilution Factor: 0.56		Analysis Time..: 00:12	MS Run #.....: 0292198	
Lead	3.3	0.20	mg/kg	SW846 6010B	10/19-10/21/10	L72321AL
		Dilution Factor: 0.56		Analysis Time..: 00:12	MS Run #.....: 0292198	
Selenium	ND	0.34	mg/kg	SW846 6010B	10/19-10/21/10	L72321AM
		Dilution Factor: 0.56		Analysis Time..: 00:12	MS Run #.....: 0292198	
Silver	0.085 B	0.34	mg/kg	SW846 6010B	10/19-10/21/10	L72321AN
		Dilution Factor: 0.56		Analysis Time..: 00:12	MS Run #.....: 0292198	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Stantec Consulting Services Inc

Client Sample ID: WM-3

TOTAL Metals

Lot-Sample #...: C0J060476-003

Matrix.....: SOLID

Date Sampled...: 10/05/10

Date Received...: 10/06/10

% Moisture.....: 11

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Prep Batch #...: 0292036						
Mercury	ND	0.018	mg/kg	SW846 7471A	10/20/10	L72331AP
		Dilution Factor: 0.5		Analysis Time..: 09:04	MS Run #.....: 0292028	
Prep Batch #...: 0292394						
Arsenic	2.0	0.56	mg/kg	SW846 6010B	10/19-10/21/10	L72331AG
		Dilution Factor: 0.5		Analysis Time..: 00:18	MS Run #.....: 0292198	
Barium	17.2 J	11.2	mg/kg	SW846 6010B	10/19-10/21/10	L72331AH
		Dilution Factor: 0.5		Analysis Time..: 00:18	MS Run #.....: 0292198	
Cadmium	0.21 B	0.28	mg/kg	SW846 6010B	10/19-10/21/10	L72331AJ
		Dilution Factor: 0.5		Analysis Time..: 00:18	MS Run #.....: 0292198	
Chromium	3.0	0.28	mg/kg	SW846 6010B	10/19-10/21/10	L72331AK
		Dilution Factor: 0.5		Analysis Time..: 00:18	MS Run #.....: 0292198	
Lead	2.0	0.17	mg/kg	SW846 6010B	10/19-10/21/10	L72331AL
		Dilution Factor: 0.5		Analysis Time..: 00:18	MS Run #.....: 0292198	
Selenium	ND	0.28	mg/kg	SW846 6010B	10/19-10/21/10	L72331AM
		Dilution Factor: 0.5		Analysis Time..: 00:18	MS Run #.....: 0292198	
Silver	ND	0.28	mg/kg	SW846 6010B	10/19-10/21/10	L72331AN
		Dilution Factor: 0.5		Analysis Time..: 00:18	MS Run #.....: 0292198	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Stantec Consulting Services Inc

Client Sample ID: WM-4

TOTAL Metals

Lot-Sample #...: C0J060476-004

Matrix.....: SOLID

Date Sampled...: 10/05/10

Date Received...: 10/06/10

% Moisture.....: 29

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Prep Batch #...: 0292036						
Mercury	0.016 B	0.023	mg/kg	SW846 7471A	10/20/10	L72341AP
		Dilution Factor: 0.5		Analysis Time..: 09:06	MS Run #.....: 0292028	
Prep Batch #...: 0292394						
Arsenic	5.4	0.88	mg/kg	SW846 6010B	10/19-10/21/10	L72341AG
		Dilution Factor: 0.62		Analysis Time..: 00:23	MS Run #.....: 0292198	
Barium	41.6 J	17.6	mg/kg	SW846 6010B	10/19-10/21/10	L72341AH
		Dilution Factor: 0.62		Analysis Time..: 00:23	MS Run #.....: 0292198	
Cadmium	0.26 B	0.44	mg/kg	SW846 6010B	10/19-10/21/10	L72341AJ
		Dilution Factor: 0.62		Analysis Time..: 00:23	MS Run #.....: 0292198	
Chromium	7.7	0.44	mg/kg	SW846 6010B	10/19-10/21/10	L72341AK
		Dilution Factor: 0.62		Analysis Time..: 00:23	MS Run #.....: 0292198	
Lead	5.5	0.26	mg/kg	SW846 6010B	10/19-10/21/10	L72341AL
		Dilution Factor: 0.62		Analysis Time..: 00:23	MS Run #.....: 0292198	
Selenium	ND	0.44	mg/kg	SW846 6010B	10/19-10/21/10	L72341AM
		Dilution Factor: 0.62		Analysis Time..: 00:23	MS Run #.....: 0292198	
Silver	0.10 B	0.44	mg/kg	SW846 6010B	10/19-10/21/10	L72341AN
		Dilution Factor: 0.62		Analysis Time..: 00:23	MS Run #.....: 0292198	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C0J060476

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: C0J190000-036 Prep Batch #...: 0292036						
Mercury	ND	0.016	mg/kg	SW846 7471A	10/20/10	L8NVA1AA
		Dilution Factor: 0.5				
		Analysis Time..: 08:21				
MB Lot-Sample #: C0J190000-394 Prep Batch #...: 0292394						
Arsenic	ND	0.49	mg/kg	SW846 6010B	10/19-10/20/10	L8P111AA
		Dilution Factor: 0.49				
		Analysis Time..: 23:28				
Barium	0.061 B	9.8	mg/kg	SW846 6010B	10/19-10/20/10	L8P111AC
		Dilution Factor: 0.49				
		Analysis Time..: 23:28				
Cadmium	ND	0.24	mg/kg	SW846 6010B	10/19-10/20/10	L8P111AD
		Dilution Factor: 0.49				
		Analysis Time..: 23:28				
Chromium	ND	0.24	mg/kg	SW846 6010B	10/19-10/20/10	L8P111AE
		Dilution Factor: 0.49				
		Analysis Time..: 23:28				
Lead	ND	0.15	mg/kg	SW846 6010B	10/19-10/20/10	L8P111AF
		Dilution Factor: 0.49				
		Analysis Time..: 23:28				
Selenium	ND	0.24	mg/kg	SW846 6010B	10/19-10/20/10	L8P111AG
		Dilution Factor: 0.49				
		Analysis Time..: 23:28				
Silver	ND	0.24	mg/kg	SW846 6010B	10/19-10/20/10	L8P111AH
		Dilution Factor: 0.49				
		Analysis Time..: 23:28				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C0J060476

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#: C0J190000-036 Prep Batch #...: 0292036					
Mercury	100	(80 - 120)	SW846 7471A	10/20/10	L8NVA1AC
		Dilution Factor: 0.5	Analysis Time..: 08:23		
LCS Lot-Sample#: C0J190000-394 Prep Batch #...: 0292394					
Arsenic	92	(80 - 120)	SW846 6010B	10/19-10/20/10	L8P111AJ
		Dilution Factor: 0.89	Analysis Time..: 23:34		
Barium	93	(80 - 120)	SW846 6010B	10/19-10/20/10	L8P111AK
		Dilution Factor: 0.89	Analysis Time..: 23:34		
Cadmium	94	(80 - 120)	SW846 6010B	10/19-10/20/10	L8P111AL
		Dilution Factor: 0.89	Analysis Time..: 23:34		
Chromium	93	(80 - 120)	SW846 6010B	10/19-10/20/10	L8P111AM
		Dilution Factor: 0.89	Analysis Time..: 23:34		
Lead	93	(80 - 120)	SW846 6010B	10/19-10/20/10	L8P111AN
		Dilution Factor: 0.89	Analysis Time..: 23:34		
Selenium	90	(80 - 120)	SW846 6010B	10/19-10/20/10	L8P111AP
		Dilution Factor: 0.89	Analysis Time..: 23:34		
Silver	91	(80 - 120)	SW846 6010B	10/19-10/20/10	L8P111AQ
		Dilution Factor: 0.89	Analysis Time..: 23:34		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C0J060476
 Date Sampled...: 10/05/10

Date Received...: 10/06/10

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
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MS Lot-Sample #: C0J060476-001 Prep Batch #...: 0292394

% Moisture.....: 43

Arsenic	88	(75 - 125)			SW846 6010B	10/19-10/21/10	L72311AT
	87	(75 - 125)	17	(0-20)	SW846 6010B	10/19-10/21/10	L72311AU
					Dilution Factor: 0.6		
					Analysis Time...: 00:01		
					MS Run #.....: 0292198		
Barium	90	(75 - 125)			SW846 6010B	10/19-10/21/10	L72311AV
	89	(75 - 125)	11	(0-20)	SW846 6010B	10/19-10/21/10	L72311AW
					Dilution Factor: 0.6		
					Analysis Time...: 00:01		
					MS Run #.....: 0292198		
Cadmium	85	(75 - 125)			SW846 6010B	10/19-10/21/10	L72311AX
	84	(75 - 125)	16	(0-20)	SW846 6010B	10/19-10/21/10	L72311A0
					Dilution Factor: 0.6		
					Analysis Time...: 00:01		
					MS Run #.....: 0292198		
Chromium	86	(75 - 125)			SW846 6010B	10/19-10/21/10	L72311A1
	85	(75 - 125)	9.4	(0-20)	SW846 6010B	10/19-10/21/10	L72311A2
					Dilution Factor: 0.6		
					Analysis Time...: 00:01		
					MS Run #.....: 0292198		
Lead	84	(75 - 125)			SW846 6010B	10/19-10/21/10	L72311A3
	82	(75 - 125)	14	(0-20)	SW846 6010B	10/19-10/21/10	L72311A4
					Dilution Factor: 0.6		
					Analysis Time...: 00:01		
					MS Run #.....: 0292198		
Selenium	86	(75 - 125)			SW846 6010B	10/19-10/21/10	L72311A5
	84	(75 - 125)	18	(0-20)	SW846 6010B	10/19-10/21/10	L72311A6
					Dilution Factor: 0.6		
					Analysis Time...: 00:01		
					MS Run #.....: 0292198		
Silver	89	(75 - 125)			SW846 6010B	10/19-10/21/10	L72311A7
	88	(75 - 125)	16	(0-20)	SW846 6010B	10/19-10/21/10	L72311A8
					Dilution Factor: 0.6		
					Analysis Time...: 00:01		
					MS Run #.....: 0292198		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C0J060476

Matrix.....: SOLID

Date Sampled...: 10/04/10

Date Received...: 10/06/10

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
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MS Lot-Sample #: C0J070409-001 Prep Batch #...: 0292036

% Moisture.....: 42

Mercury	97	(75 - 125)			SW846 7471A	10/20/10	L734C1CL
	100	(75 - 125)	2.0	(0-20)	SW846 7471A	10/20/10	L734C1CM

Dilution Factor: 0.5
Analysis Time..: 08:27
MS Run #.....: 0292028

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
Results and reporting limits have been adjusted for dry weight.

Stantec Consulting Services Inc

Client Sample ID: WM-1

General Chemistry

Lot-Sample #...: COJ060476-001 Work Order #...: L7231 Matrix.....: SOLID
Date Sampled...: 10/05/10 Date Received..: 10/06/10
% Moisture.....: 43

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	56.8		%	SM20 2540G	10/07-10/08/10	0280073
		Dilution Factor: 1		Analysis Time..: 09:04	MS Run #.....: 0280055	

Stantec Consulting Services Inc

Client Sample ID: WM-2

General Chemistry

Lot-Sample #...: C0J060476-002 Work Order #...: L7232 Matrix.....: SOLID
Date Sampled...: 10/05/10 Date Received..: 10/06/10
% Moisture.....: 18

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	82.1		%	SM20 2540G	10/07-10/08/10	0280073
		Dilution Factor: 1		Analysis Time..: 09:04	MS Run #.....: 0280055	

Stantec Consulting Services Inc

Client Sample ID: WM-3

General Chemistry

Lot-Sample #...: COJ060476-003 Work Order #...: L7233 Matrix.....: SOLID
Date Sampled...: 10/05/10 Date Received..: 10/06/10
% Moisture.....: 11

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	89.4		%	SM20 2540G	10/07-10/08/10	0280073
		Dilution Factor: 1		Analysis Time..: 09:04	MS Run #.....: 0280055	

Stantec Consulting Services Inc

Client Sample ID: WM-4

General Chemistry

Lot-Sample #...: COJ060476-004 Work Order #...: L7234 Matrix.....: SOLID
Date Sampled...: 10/05/10 Date Received..: 10/06/10
% Moisture.....: 29

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	70.5		%	SM20 2540G	10/07-10/08/10	0280073
		Dilution Factor: 1		Analysis Time..: 09:04	MS Run #.....: 0280055	

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C0J060476

Work Order #...: L7231-SMP
L7231-DUP

Matrix.....: SOLID

Date Sampled...: 10/05/10

Date Received...: 10/06/10

% Moisture.....: 43

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u>	<u>UNITS</u>	<u>RPD</u>	<u>LIMIT</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
		<u>RESULT</u>					<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Percent Solids	56.8	56.3	%	0.86	(0-20)	SD Lot-Sample #: C0J060476-001 SM20 2540G	10/07-10/08/10	0280073
				Dilution Factor: 1		Analysis Time..: 09:04	MS Run Number..: 0280055	