

END OF REPORT

REC'D CRA
AUG - 9 2004
CRA SDG G-19.

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720

Tel: 330 497 9396 Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 17360-09

GM-GRAND RAPIDS

Lot #: A4G240144

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT
Project#: 17360-09 Lab#: A4G240144
Name: GM GRAND RAPIDS.

SEVERN TRENT LABORATORIES, INC. Description
Event: VAS Sampling
Samples: 5 waters DCR 157-162
Analysis: TCL VOCs.

TAT: 48 HOUR TAT

Lab: STL-NC

Deborah Dwyer
Amy L. McCormick
Project Manager

Checked Against Preliminary Data:
Date: N/A Init.: N/A

Date of Validation Memo: 10/21/04

Invoice Approval Date: _____

Comments: _____

August 4, 2004

CRA

CONESTOGA-ROVERS & ASSOCIATES, INC.

14496 Sheldon Road, Suite 200
Plymouth, MI 48170 • (734) 453-5123

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE:  PRINTED NAME: David C. Rivers


SHIPPED TO (Laboratory Name): STR North Canton

REFERENCE NUMBER: 17360-09

PROJECT NAME: Gm - Grand Rapids

SEQ. No.	DATE	TIME	SAMPLE TYPE	No. of CONTAINERS	PARAMETERS	REMARKS
1	7/23/04	925	Gw-17360-072304-D02-157	2	TC, VCS, HSR, MAT	
2	↓	1015	↓ -158	3		
3	↓	1105	↓ -155	3		
4	↓	1215	↓ -160	3		
5	↓	1355	↓ -161	3		
6	↓	-	↓ -162	1		

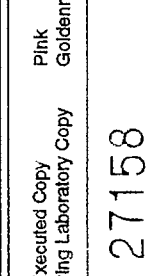
TOTAL NUMBER OF CONTAINERS 15

RELINQUISHED BY: 	DATE: <u>7-23-04</u>	RECEIVED BY:	DATE:
	TIME: <u>1930</u>	1.	TIME:
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
	TIME:	2.	TIME:
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
	TIME:	1.	TIME:

METHOD OF SHIPMENT: FED EX AIR BILL No. 89367994 4248

White - Fully Executed Copy Pink - Shipper Copy
 Yellow - Receiving Laboratory Copy Goldenrod - Sampler Copy

SAMPLE TEAM: David Rivers

RECEIVED FOR LABORATORY BY: 

DATE: 7/24/04 TIME: 1000

27158

CPA Contract
Pend Wisema

CASE NARRATIVE

CASE NARRATIVE

A4G240144

The following report contains the analytical results for five water samples and one quality control sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Grand Rapids Site, project number 17360-09. The samples were received July 24, 2004, according to documented sample acceptance procedures.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to the Chemistry Department on July 28, 2004. A summary of QC data for these analyses is included at the back of the report.

STL North Canton attests to the validity of the laboratory data generated by STL facilities reported herein. All analyses performed by STL facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. STL's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

If you have any questions, please call the Project Manager, Amy L. McCormick, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 4.1°C.

CASE NARRATIVE (continued)

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for batch(es) 4209406 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

The pH of the sample GW-17360-072304-DCR-157 was greater than 2. The sample(s) was analyzed within the normal 14 day holding time; however, experimental evidence suggests that some aromatic compounds in wastewater samples, notably Benzene, Toluene, and Ethylbenzene are susceptible to biological degradation if samples are not preserved to a pH of 2.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed below.)

Volatile (GC or GC/MS)

Methylene chloride
Acetone
2-Butanone

Semivolatile (GC/MS)

Phthalate Esters

Metals

Copper
Iron
Zinc
Lead*

- *for analyses run on TJA Trace ICP, ICPMS or GFAA only*

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria do not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is repped and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be repped and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide, PCB, and PAH methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria.



STL North Canton Certifications and Approvals:

Alabama (#41170), California (#01144CA), Connecticut (#PH-0590), Florida (#E87225), Illinois (#100439), Kansas (#E10336), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Ohio (#6090), OhioVAP (#CL0024), Rhode Island (#237), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), Utah (#QUAN9), Virginia (#00011), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence - Participating Lab Status Award (#82)

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STL

***EXECUTIVE
SUMMARY***

EXECUTIVE SUMMARY - Detection Highlights

A4G240144

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
GW-17360-072304-DCR-157 07/23/04 09:25 001				
Acetone	8.9 J,B	25	ug/L	SW846 8260B
Benzene	0.34 J	1.0	ug/L	SW846 8260B
Chloroform	2.3	1.0	ug/L	SW846 8260B
Chloromethane	0.33 J	1.0	ug/L	SW846 8260B
Toluene	0.68 J	1.0	ug/L	SW846 8260B
GW-17360-072304-DCR-158 07/23/04 10:15 002				
Acetone	1.6 J	25	ug/L	SW846 8260B
Benzene	0.31 J	1.0	ug/L	SW846 8260B
Bromodichloromethane	0.71 J	1.0	ug/L	SW846 8260B
Chloroform	4.9	1.0	ug/L	SW846 8260B
Dibromochloromethane	0.28 J	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	0.37 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	0.75 J	1.0	ug/L	SW846 8260B
Ethylbenzene	0.26 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	0.45 J	1.0	ug/L	SW846 8260B
Toluene	0.84 J	1.0	ug/L	SW846 8260B
Trichloroethene	1.6	1.0	ug/L	SW846 8260B
GW-17360-072304-DCR-159 07/23/04 11:05 003				
Acetone	1.5 J	25	ug/L	SW846 8260B
Benzene	0.52 J	1.0	ug/L	SW846 8260B
Bromodichloromethane	0.22 J	1.0	ug/L	SW846 8260B
2-Butanone	0.44 J	25	ug/L	SW846 8260B
Chloroform	1.5	1.0	ug/L	SW846 8260B
Cyclohexane	0.40 J	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	0.50 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	1.2	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	0.33 J	1.0	ug/L	SW846 8260B
Ethylbenzene	0.34 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	0.58 J	1.0	ug/L	SW846 8260B
Toluene	1.2	1.0	ug/L	SW846 8260B
Trichloroethene	2.7	1.0	ug/L	SW846 8260B
GW-17360-072304-DCR-160 07/23/04 12:15 004				
Acetone	3.0 J,B	25	ug/L	SW846 8260B
Bromodichloromethane	3.4	1.0	ug/L	SW846 8260B
2-Butanone	0.54 J	25	ug/L	SW846 8260B
Chloroform	16	1.0	ug/L	SW846 8260B
Dibromochloromethane	0.92 J	1.0	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4G240144

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
GW-17360-072304-DCR-160 07/23/04 12:15 004				
Tetrachloroethene	0.47 J	1.0	ug/L	SW846 8260B
Toluene	1.3	1.0	ug/L	SW846 8260B
Trichloroethene	0.46 J	1.0	ug/L	SW846 8260B
GW-17360-072304-DCR-161 07/23/04 13:55 005				
Acetone	3.3 J,B	25	ug/L	SW846 8260B
Bromodichloromethane	5.7	1.0	ug/L	SW846 8260B
Chloroform	16	1.0	ug/L	SW846 8260B
Dibromochloromethane	1.9	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	0.67 J	50	ug/L	SW846 8260B
Toluene	1.4	1.0	ug/L	SW846 8260B
GW-17360-072304-DCR-162 07/23/04 006				
Acetone	6.2 J,B	25	ug/L	SW846 8260B
2-Butanone	3.7 J	25	ug/L	SW846 8260B
1,1-Dichloroethene	0.50 J	1.0	ug/L	SW846 8260B
Methylene chloride	0.58 J	5.0	ug/L	SW846 8260B
Toluene	0.24 J	1.0	ug/L	SW846 8260B

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A4G240144

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.



SAMPLE SUMMARY

SAMPLE SUMMARY

A4G240144

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
GLRMD	001	GW-17360-072304-DCR-157	07/23/04	09:25
GLRMG	002	GW-17360-072304-DCR-158	07/23/04	10:15
GLRMH	003	GW-17360-072304-DCR-159	07/23/04	11:05
GLRMJ	004	GW-17360-072304-DCR-160	07/23/04	12:15
GLRMK	005	GW-17360-072304-DCR-161	07/23/04	13:55
GLRMM	006	GW-17360-072304-DCR-162	07/23/04	

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 filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.



***SHIPPING
AND
RECEIVING DOCUMENTS***

CRA
CONESTOGA-ROVERS & ASSOCIATES, INC.
14966 Sheldon Road, Suite 200
Plymouth, MI 48170 • (734) 453-5123

SHIPPED TO (Laboratory Name):

STL North Canton

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER:

17360-09

PROJECT NAME:

Gravel - Grand Rapids

SAMPLER'S SIGNATURE: 

PRINTED NAME: David C Rivers

PARAMETERS

TEL VOL
48hr TAT


REMARKS

SEQ. No.	DATE	TIME	SAMPLE TYPE	NO. OF CONTAINERS	REMARKS
1	7/25	9:25	Geo-17360-072301-DX12-157	2	X X X X X X X X X X
2	7/25	10:45	-158	3	X X X X X X X X X X
3	7/25	11:05	-159	3	X X X X X X X X X X
4	7/25	12:15	-160	3	X X X X X X X X X X
5	7/25	1:55	-161	3	X X X X X X X X X X
6	7/25	2:55	-162	1	X

TOTAL NUMBER OF CONTAINERS

15

CRA contact
David Williams

RELINQUISHED BY: 

DATE: 7-23-09

RECEIVED BY: 1.

DATE:

RELINQUISHED BY:

DATE: 1930

RECEIVED BY: 2.

DATE:

RELINQUISHED BY:

DATE:

RECEIVED BY: 1.

DATE:

METHOD OF SHIPMENT:

FEDEX

AIR BILL NO.

84367999 4248

White

Yellow

Fully Executed Copy
Receiving Laboratory Copy

Pink
Goldendod
Shipper Copy
Sampler Copy

SAMPLE TEAM:

David Rivers

RECEIVED FOR LABORATORY BY:

Sam Coffey

27158

DATE: 7/23/09 TIME: 1:00

RSR280
 Client: 57787

Lot #: A4G240144

Case Number/SDG: 17360-09

Storage Location: MS

Severn Trent Laboratories, Inc.
 Sample Control Record

Laboratory Sample I.D.	Transferred By	Date	Entered	Removed	Reason	Date Returned
GJRMJ	SANDERSA	7/24/04	Yes		Storage	
GJRMJ	SANDERSA	7/24/04	Yes		Storage	
GJRMH	SANDERSA	7/24/04	Yes		Storage	
GJRMJ	SANDERSA	7/24/04	Yes		Storage	
GJRMK	SANDERSA	7/24/04	Yes		Storage	
GJRMH	SANDERSA	7/24/04	Yes		Storage	

STL Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: ATG240114

Client: 024 Project: GM Grand Rapids Quote#: _____
 Cooler Received on: 7/24/04 Opened on: 7/24/04 by: [Signature]
 (Signature)

Fedx Client Drop Off UPS DHL FAS Other: _____
 STL Cooler No# _____ Foam Box Client Cooler Other _____

- Were custody seals on the outside of the cooler? Yes No Intact? Yes No NA
 If YES, Quantity _____
 Were the custody seals signed and dated? Yes No NA
 - Shipper's packing slip attached to this form? Yes No NA
 - Did custody papers accompany the samples? Yes No Relinquished by client? Yes No
 - Did you sign the custody papers in the appropriate place? Yes No
 - Packing material used: Bubble Wrap Foam None Other: _____
 - Cooler temperature upon receipt 4.2 °C (see back of form for multiple coolers/temp)
 METHOD: Temp Vial Coolant & Sample Against Bottles IR ICE/H₂O Slurry
 COOLANT: Wet Ice Blue Ice Dry Ice Water None
 - Did all bottles arrive in good condition (Unbroken)? Yes No
 - Could all bottle labels and/or tags be reconciled with the COC? Yes No
 - Were samples at the correct pH? (record below/on back) Yes No NA
 - Were correct bottles used for the tests indicated? Yes No
 - Were air bubbles >6 mm in any VOA vials? Yes No NA
 - Sufficient quantity received to perform indicated analyses? Yes No
- Contacted PM _____ Date: _____ by: _____ via Voice Mail Verbal Other
 Concerning: _____

1. CHAIN OF CUSTODY

The following discrepancies occurred:
No sample times on any of the labels - log per COC

2. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). Nitric Acid Lot #052804-HNO₃; Sulfuric Acid Lot # 011-504-H₂SO₄; Sodium Hydroxide Lot #-031804-NaOH; Hydrochloric Acid Lot # 100902-HCl; Sodium Hydroxide and Zinc Acetate Lot # 112801-CH₃COO₂ZN/NaOH
 Sample(s) 1x -157 were received with bubble > 6 mm in diameter (cc: PM)

4. Other (see below or back)

Client ID	pH	Date	Initials

STL Cooler Receipt Form/Narrative
North Canton Facility

<u>Client ID</u>	<u>pH</u>	<u>Date</u>	<u>Initials</u>

<u>Cooler</u>	<u>Temp</u>	<u>Method</u>	<u>Coolant</u>

Discrepancies Cont.

GCMS VOLATILE DATA

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072304-DCR-157

GC/MS Volatiles

Lot-Sample #...: A4G240144-001 Work Order #...: GLRMD1AA Matrix.....: WG
 Date Sampled...: 07/23/04 09:25 Date Received...: 07/24/04
 Prep Date.....: 07/27/04 Analysis Date...: 07/27/04
 Prep Batch #...: 4209406
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	8.9 J,B	25	ug/L	0.74
Benzene	0.34 J	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	2.3	1.0	ug/L	0.16
Chloromethane	0.33 J	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

(Continued on next page)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072304-DCR-157

GC/MS Volatiles

Lot-Sample #...: A4G240144-001 Work Order #...: GLRMD1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	0.68 J	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(73 - 122)
1,2-Dichloroethane-d4	102	(61 - 128)
Toluene-d8	91	(76 - 110)
4-Bromofluorobenzene	78	(74 - 116)

NOTE (S) :

- J Estimated result. Result is less than RL.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072304-DCR-158

GC/MS Volatiles

Lot-Sample #...: A4G240144-002 Work Order #...: GLRMG1AA Matrix.....: WG
 Date Sampled...: 07/23/04 10:15 Date Received...: 07/24/04
 Prep Date.....: 07/28/04 Analysis Date...: 07/28/04
 Prep Batch #...: 4210204
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	1.6 J	25	ug/L	0.74
Benzene	0.31 J	1.0	ug/L	0.22
Bromodichloromethane	0.71 J	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	4.9	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	0.28 J	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	0.37 J	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	0.75 J	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	0.26 J	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072304-DCR-158

GC/MS Volatiles

Lot-Sample #...: A4G240144-002 Work Order #...: GLRMG1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	0.45 J	1.0	ug/L	0.19
Toluene	0.84 J	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	1.6	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	99	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	102	(76 - 110)
4-Bromofluorobenzene	100	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072304-DCR-159

GC/MS Volatiles

Lot-Sample #...: A4G240144-003 Work Order #...: GLRMH1AA Matrix.....: WG
 Date Sampled...: 07/23/04 11:05 Date Received...: 07/24/04
 Prep Date.....: 07/28/04 Analysis Date...: 07/28/04
 Prep Batch #...: 4210204
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	1.5 J	25	ug/L	0.74
Benzene	0.52 J	1.0	ug/L	0.22
Bromodichloromethane	0.22 J	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	0.44 J	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	1.5	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	0.40 J	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	0.50 J	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	1.2	1.0	ug/L	0.21
trans-1,2-Dichloroethene	0.33 J	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	0.34 J	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072304-DCR-159

GC/MS Volatiles

Lot-Sample #...: A4G240144-003 Work Order #...: GLRMH1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	0.58 J	1.0	ug/L	0.19
Toluene	1.2	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	2.7	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	100	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	98	(76 - 110)
4-Bromofluorobenzene	99	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072304-DCR-160

GC/MS Volatiles

Lot-Sample #...: A4G240144-004 Work Order #...: GLRMJ1AA Matrix.....: WG
 Date Sampled...: 07/23/04 12:15 Date Received...: 07/24/04
 Prep Date.....: 07/27/04 Analysis Date...: 07/27/04
 Prep Batch #...: 4209406
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	3.0 J,B	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	3.4	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	0.54 J	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	16	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	0.92 J	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072304-DCR-160

GC/MS Volatiles

Lot-Sample #...: A4G240144-004 Work Order #...: GLRMJ1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	0.47 J	1.0	ug/L	0.19
Toluene	1.3	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	0.46 J	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	101	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	89	(76 - 110)
4-Bromofluorobenzene	76	(74 - 116)

NOTE (S) :

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072304-DCR-161

GC/MS Volatiles

Lot-Sample #...: A4G240144-005 Work Order #...: GLRMK1AA Matrix.....: WG
 Date Sampled...: 07/23/04 13:55 Date Received...: 07/24/04
 Prep Date.....: 07/27/04 Analysis Date...: 07/27/04
 Prep Batch #...: 4209406
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	3.3 J,B	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	5.7	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	16	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	1.9	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	0.67 J	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072304-DCR-161

GC/MS Volatiles

Lot-Sample #...: A4G240144-005 Work Order #...: GLRMK1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	1.4	1.0	ug/L	0.17
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	102	(73 - 122)
1,2-Dichloroethane-d4	100	(61 - 128)
Toluene-d8	90	(76 - 110)
4-Bromofluorobenzene	75	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072304-DCR-162

GC/MS Volatiles

Lot-Sample #...: A4G240144-006 Work Order #...: GLRMM1AA Matrix.....: WQ
 Date Sampled...: 07/23/04 Date Received...: 07/24/04
 Prep Date.....: 07/27/04 Analysis Date...: 07/27/04
 Prep Batch #...: 4209406
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	6.2 J,B	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	3.7 J	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	0.50 J	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	0.58 J	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072304-DCR-162

GC/MS Volatiles

Lot-Sample #...: A4G240144-006 Work Order #...: GLRMM1AA Matrix.....: WQ

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	0.24 J	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	101	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	87	(76 - 110)
4-Bromofluorobenzene	74	(74 - 116)

NOTE (S) :

J Estimated result. Result is less than RL.

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4G240144
 MB Lot-Sample #: A4G270000-406

Work Order #...: GLXV81AA
 Prep Date.....: 07/27/04

Matrix.....: WATER

Analysis Date...: 07/27/04
 Dilution Factor: 1

Prep Batch #...: 4209406
 Initial Wgt/Vol: 5 mL

Final Wgt/Vol...: 5 mL

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	1.1 J	25	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	25	ug/L	SW846 8260B
Carbon disulfide	ND	5.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Cyclohexane	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	50	ug/L	SW846 8260B
Isopropylbenzene	ND	5.0	ug/L	SW846 8260B
Methyl acetate	ND	10	ug/L	SW846 8260B
Methylene chloride	ND	5.0	ug/L	SW846 8260B
Methylcyclohexane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	50	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4G240144

Work Order #...: GLXV81AA

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
1,2,4-Trichloro- benzene	ND	5.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	3.0	ug/L	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	98	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	89	(76 - 110)
4-Bromofluorobenzene	76	(74 - 116)

NOTE (S) :

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

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4G240144
 MB Lot-Sample #: A4G280000-204
 Analysis Date...: 07/28/04
 Dilution Factor: 1

Work Order #...: GL1NG1AA
 Prep Date.....: 07/28/04
 Prep Batch #...: 4210204
 Initial Wgt/Vol: 5 mL

Matrix.....: WATER
 Final Wgt/Vol...: 5 mL

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	ND	25	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	25	ug/L	SW846 8260B
Carbon disulfide	ND	5.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Cyclohexane	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	50	ug/L	SW846 8260B
Isopropylbenzene	ND	5.0	ug/L	SW846 8260B
Methyl acetate	ND	10	ug/L	SW846 8260B
Methylene chloride	ND	5.0	ug/L	SW846 8260B
Methylcyclohexane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	50	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4G240144

Work Order #...: GL1NG1AA

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
1,2,4-Trichloro- benzene	ND	5.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	3.0	ug/L	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	100	(73 - 122)
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	97	(76 - 110)
4-Bromofluorobenzene	96	(74 - 116)

NOTE (S) :

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A4G240144 Work Order #...: GLXV81AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4G270000-406 GLXV81AD-LCSD
 Prep Date.....: 07/27/04 Analysis Date...: 07/27/04
 Prep Batch #...: 4209406
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Benzene	10	9.3	ug/L	93		SW846 8260B
	10	9.7	ug/L	97	4.5	SW846 8260B
Chlorobenzene	10	9.0	ug/L	90		SW846 8260B
	10	9.4	ug/L	94	4.5	SW846 8260B
1,1-Dichloroethene	10	9.5	ug/L	95		SW846 8260B
	10	10	ug/L	104	9.0	SW846 8260B
Toluene	10	8.8	ug/L	88		SW846 8260B
	10	9.3	ug/L	93	5.3	SW846 8260B
Trichloroethene	10	9.0	ug/L	90		SW846 8260B
	10	9.7	ug/L	97	7.0	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	95	(73 - 122)
	96	(73 - 122)
1,2-Dichloroethane-d4	100	(61 - 128)
	103	(61 - 128)
Toluene-d8	91	(76 - 110)
	92	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)
	83	(74 - 116)

NOTE (S) :

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A4G240144 Work Order #...: GLXV81AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4G270000-406 GLXV81AD-LCSD
 Prep Date.....: 07/27/04 Analysis Date...: 07/27/04
 Prep Batch #...: 4209406
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	93	(80 - 116)			SW846 8260B
	97	(80 - 116)	4.5	(0-20)	SW846 8260B
Chlorobenzene	90	(76 - 117)			SW846 8260B
	94	(76 - 117)	4.5	(0-20)	SW846 8260B
1,1-Dichloroethene	95	(63 - 130)			SW846 8260B
	104	(63 - 130)	9.0	(0-20)	SW846 8260B
Toluene	88	(74 - 119)			SW846 8260B
	93	(74 - 119)	5.3	(0-20)	SW846 8260B
Trichloroethene	90	(75 - 122)			SW846 8260B
	97	(75 - 122)	7.0	(0-20)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	95	(73 - 122)
	96	(73 - 122)
1,2-Dichloroethane-d4	100	(61 - 128)
	103	(61 - 128)
Toluene-d8	91	(76 - 110)
	92	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)
	83	(74 - 116)

NOTE(S) :

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A4G240144 Work Order #...: GL1NG1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4G280000-204 GL1NG1AD-LCSD
 Prep Date.....: 07/28/04 Analysis Date...: 07/28/04
 Prep Batch #...: 4210204
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Benzene	10	9.8	ug/L	98		SW846 8260B
	10	9.9	ug/L	99	0.40	SW846 8260B
Chlorobenzene	10	9.8	ug/L	98		SW846 8260B
	10	9.7	ug/L	97	0.57	SW846 8260B
1,1-Dichloroethene	10	10	ug/L	101		SW846 8260B
	10	9.7	ug/L	97	3.4	SW846 8260B
Toluene	10	9.6	ug/L	96		SW846 8260B
	10	9.8	ug/L	98	1.1	SW846 8260B
Trichloroethene	10	9.7	ug/L	97		SW846 8260B
	10	10	ug/L	101	4.8	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Dibromofluoromethane	99	(73 - 122)
	96	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
	94	(61 - 128)
Toluene-d8	99	(76 - 110)
	100	(76 - 110)
4-Bromofluorobenzene	103	(74 - 116)
	100	(74 - 116)

NOTE(S) :

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A4G240144 Work Order #...: GL1NG1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4G280000-204 GL1NG1AD-LCSD
 Prep Date.....: 07/28/04 Analysis Date...: 07/28/04
 Prep Batch #...: 4210204
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

PARAMETER	PERCENT	RECOVERY	RPD		METHOD
	RECOVERY	LIMITS	RPD	LIMITS	
Benzene	98	(80 - 116)			SW846 8260B
	99	(80 - 116)	0.40	(0-20)	SW846 8260B
Chlorobenzene	98	(76 - 117)			SW846 8260B
	97	(76 - 117)	0.57	(0-20)	SW846 8260B
1,1-Dichloroethene	101	(63 - 130)			SW846 8260B
	97	(63 - 130)	3.4	(0-20)	SW846 8260B
Toluene	96	(74 - 119)			SW846 8260B
	98	(74 - 119)	1.1	(0-20)	SW846 8260B
Trichloroethene	97	(75 - 122)			SW846 8260B
	101	(75 - 122)	4.8	(0-20)	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	99	(73 - 122)
	96	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
	94	(61 - 128)
Toluene-d8	99	(76 - 110)
	100	(76 - 110)
4-Bromofluorobenzene	103	(74 - 116)
	100	(74 - 116)

NOTE (S) :

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

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A4G240144 Work Order #...: GLL2A1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A4G220306-011 GLL2A1AD-MSD
 Date Sampled...: 07/19/04 19:21 Date Received...: 07/21/04
 Prep Date.....: 07/27/04 Analysis Date...: 07/27/04
 Prep Batch #...: 4209406
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Benzene	ND	10	6.8	ug/L	68 a		SW846 8260B
	ND	10	7.9	ug/L	79	15	SW846 8260B
Chlorobenzene	ND	10	6.6	ug/L	66 a		SW846 8260B
	ND	10	7.5	ug/L	75 a	12	SW846 8260B
1,1-Dichloroethene	ND	10	7.1	ug/L	71		SW846 8260B
	ND	10	8.6	ug/L	86	19	SW846 8260B
Toluene	ND	10	6.5	ug/L	65 a		SW846 8260B
	ND	10	7.4	ug/L	74	14	SW846 8260B
Trichloroethene	ND	10	6.6	ug/L	66		SW846 8260B
	ND	10	7.7	ug/L	77	15	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	96	(73 - 122)
	98	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
	101	(61 - 128)
Toluene-d8	90	(76 - 110)
	91	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)
	82	(74 - 116)

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.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A4G240144 Work Order #...: GLL2A1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A4G220306-011 GLL2A1AD-MSD
 Date Sampled...: 07/19/04 19:21 Date Received...: 07/21/04
 Prep Date.....: 07/27/04 Analysis Date...: 07/27/04
 Prep Batch #...: 4209406
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	68 a	(78 - 118)			SW846 8260B
	79	(78 - 118)	15	(0-20)	SW846 8260B
Chlorobenzene	66 a	(76 - 117)			SW846 8260B
	75 a	(76 - 117)	12	(0-20)	SW846 8260B
1,1-Dichloroethene	71	(62 - 130)			SW846 8260B
	86	(62 - 130)	19	(0-20)	SW846 8260B
Toluene	65 a	(70 - 119)			SW846 8260B
	74	(70 - 119)	14	(0-20)	SW846 8260B
Trichloroethene	66	(62 - 130)			SW846 8260B
	77	(62 - 130)	15	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(73 - 122)
	98	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
	101	(61 - 128)
Toluene-d8	90	(76 - 110)
	91	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)
	82	(74 - 116)

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.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A4G240144 Work Order #...: GLTVGLAE-MS Matrix.....: WATER
 MS Lot-Sample #: A4G260107-001 GLTVGLAF-MSD
 Date Sampled...: 07/22/04 12:00 Date Received...: 07/24/04
 Prep Date.....: 07/28/04 Analysis Date...: 07/28/04
 Prep Batch #...: 4210204
 Dilution Factor: 1000 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Benzene	470	10000	9900	ug/L	94		SW846 8260B
	470	10000	10000	ug/L	98	4.0	SW846 8260B
Chlorobenzene	ND	10000	9800	ug/L	98		SW846 8260B
	ND	10000	9700	ug/L	97	0.70	SW846 8260B
1,1-Dichloroethene	ND	10000	9200	ug/L	92		SW846 8260B
	ND	10000	8800	ug/L	88	4.5	SW846 8260B
Toluene	1200	10000	10000	ug/L	93		SW846 8260B
	1200	10000	11000	ug/L	96	3.4	SW846 8260B
Trichloroethene	ND	10000	9800	ug/L	98		SW846 8260B
	ND	10000	10000	ug/L	100	1.3	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	95	(73 - 122)
	94	(73 - 122)
1,2-Dichloroethane-d4	91	(61 - 128)
	92	(61 - 128)
Toluene-d8	98	(76 - 110)
	98	(76 - 110)
4-Bromofluorobenzene	98	(74 - 116)
	101	(74 - 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 Volatiles

Client Lot #...: A4G240144 Work Order #...: GLTVG1AE-MS Matrix.....: WATER
 MS Lot-Sample #: A4G260107-001 GLTVG1AF-MSD
 Date Sampled...: 07/22/04 12:00 Date Received...: 07/24/04
 Prep Date.....: 07/28/04 Analysis Date...: 07/28/04
 Prep Batch #...: 4210204
 Dilution Factor: 1000 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	94	(78 - 118)			SW846 8260B
	98	(78 - 118)	4.0	(0-20)	SW846 8260B
Chlorobenzene	98	(76 - 117)			SW846 8260B
	97	(76 - 117)	0.70	(0-20)	SW846 8260B
1,1-Dichloroethene	92	(62 - 130)			SW846 8260B
	88	(62 - 130)	4.5	(0-20)	SW846 8260B
Toluene	93	(70 - 119)			SW846 8260B
	96	(70 - 119)	3.4	(0-20)	SW846 8260B
Trichloroethene	98	(62 - 130)			SW846 8260B
	100	(62 - 130)	1.3	(0-20)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	95	(73 - 122)
	94	(73 - 122)
1,2-Dichloroethane-d4	91	(61 - 128)
	92	(61 - 128)
Toluene-d8	98	(76 - 110)
	98	(76 - 110)
4-Bromofluorobenzene	98	(74 - 116)
	101	(74 - 116)

NOTE (S) :

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

Bold print denotes control parameters



STL

END OF REPORT

REC'D CRA
AUG 19 2004
G-20

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720
Tel: 330 497 9396 Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 17360-09

GM-GRAND RAPIDS

Lot #: A4G270183

ORIGINAL ANALYTICAL REPORT

Project#: 17360-09 Lab#: A4G270183

Name: GM GR

Description

Event: Quarterly GW

Samples: 8 water

Analysis: TCL VOC

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

TAT: 2 DAY

Lab: STL

Checked Against Preliminary Data:

Date: — Init.: KAK

SEVERN TRENT LABORATORIES, INC.

Date of Validation Memo: 10/11/04

Invoice Approval Date:

Comments:

for: *[Signature]*
Amy L. McCormick
Project Manager

August 17, 2004

CRA

CONESTOGA-ROVERS & ASSOCIATES, INC.
14496 Sheldon Road, Suite 200
Plymouth, MI 48170 • (734) 453-5123

SHIPPED TO (Laboratory Name): STZ - North Canton

REFERENCE NUMBER:
17360-09

PROJECT NAME: Gm - Grand Rapids

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: [Signature] PRINTED NAME: David Rivers

SEQ. No.	DATE	TIME	SAMPLE TYPE	CONTAINERS	PARAMETERS	REMARKS
1	7/24/04	1030	Gw-17360-072604-Den-1603	3	TLV VOCs	
2	1120	↓	-164	3	TLV VOCs	
3	1215	↓	-165	3	TLV VOCs	
4	1315	↓	-166	9	TLV VOCs	ms/msd
5	1445	↓	-167	3	TLV VOCs	
6	1645	↓	-168	3	TLV VOCs	
7	1750	↓	-169	3	TLV VOCs	
8	—	↓	-170	1	TLV VOCs	

TOTAL NUMBER OF CONTAINERS 28

RELINQUISHED BY: <u>[Signature]</u>	DATE: <u>7-26-04</u>	RECEIVED BY:	DATE:
	TIME: <u>1930</u>	1.	TIME:
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
	TIME:	2.	TIME:
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
	TIME:	1.	TIME:

METHOD OF SHIPMENT: FED EX AIR BILL No. 839355888875

White - Fully Executed Copy Pink - Shipper Copy
 Yellow - Receiving Laboratory Copy Goldentrod - Sampler Copy

SAMPLE TEAM: David Rivers

RECEIVED FOR LABORATORY BY: [Signature]
 DATE: 7/27/04 TIME: 9:45

25941



CASE NARRATIVE

CASE NARRATIVE

A4G270183

The following report contains the analytical results for eight water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Grand Rapids Site, project number 17360-09. The samples were received July 27, 2004, according to documented sample acceptance procedures.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to the Chemistry Department on July 29, 2004. A summary of QC data for these analyses is included at the back of the report.

STL North Canton attests to the validity of the laboratory data generated by STL facilities reported herein. All analyses performed by STL facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. STL's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

If you have any questions, please call the Project Manager, Amy L. McCormick, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 4.5°C.

CASE NARRATIVE (continued)

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The pH of the sample GW-17360-072604-DCR-164 was greater than 2. The sample(s) was analyzed within the normal 14 day holding time; however, experimental evidence suggests that some aromatic compounds in wastewater samples, notably Benzene, Toluene, and Ethylbenzene are susceptible to biological degradation if samples are not preserved to a pH of 2.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed below.)

Volatile (GC or GC/MS)

Methylene chloride
Acetone
2-Butanone

Semivolatile (GC/MS)

Phthalate Esters

Metals

Copper
Iron
Zinc
Lead*

- *for analyses run on TJA Trace ICP, ICPMS or GFAA only*

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria do not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is repped and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be repped and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide, PCB, and PAH methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria.

STL North Canton Certifications and Approvals:

Alabama (#41170), California (#01144CA), Connecticut (#PH-0590), Florida (#E87225), Illinois (#100439), Kansas (#E10336), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Ohio (#6090), OhioVAP (#CL0024), Rhode Island (#237), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), Utah (#QUAN9), Virginia (#00011), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence – Participating Lab Status Award (#82)



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***EXECUTIVE
SUMMARY***

EXECUTIVE SUMMARY - Detection Highlights

A4G270183

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
GW-17360-072604-DCR-163 07/26/04 10:30 001				
Acetone	1.5 J	25	ug/L	SW846 8260B
Benzene	0.49 J	1.0	ug/L	SW846 8260B
2-Butanone	0.78 J	25	ug/L	SW846 8260B
Carbon disulfide	1.3 J	5.0	ug/L	SW846 8260B
Cyclohexane	0.39 J	1.0	ug/L	SW846 8260B
Ethylbenzene	0.36 J	1.0	ug/L	SW846 8260B
Isopropylbenzene	0.46 J,B	5.0	ug/L	SW846 8260B
Methylcyclohexane	0.50 J	1.0	ug/L	SW846 8260B
Toluene	1.1	1.0	ug/L	SW846 8260B
GW-17360-072604-DCR-164 07/26/04 11:20 002				
Acetone	6.9 J	25	ug/L	SW846 8260B
Benzene	0.57 J	1.0	ug/L	SW846 8260B
Bromodichloromethane	1.3	1.0	ug/L	SW846 8260B
2-Butanone	2.1 J	25	ug/L	SW846 8260B
Chloroform	4.2	1.0	ug/L	SW846 8260B
Cyclohexane	0.43 J	1.0	ug/L	SW846 8260B
Dibromochloromethane	0.53 J	1.0	ug/L	SW846 8260B
Ethylbenzene	0.44 J	1.0	ug/L	SW846 8260B
Isopropylbenzene	0.46 J,B	5.0	ug/L	SW846 8260B
Methylcyclohexane	0.53 J	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	1.5 J	50	ug/L	SW846 8260B
Toluene	4.6	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	0.45 J	1.0	ug/L	SW846 8260B
Trichloroethene	0.53 J	1.0	ug/L	SW846 8260B
Xylenes (total)	0.85 J	3.0	ug/L	SW846 8260B
GW-17360-072604-DCR-165 07/26/04 12:15 003				
Benzene	0.45 J	1.0	ug/L	SW846 8260B
Bromodichloromethane	0.20 J	1.0	ug/L	SW846 8260B
2-Butanone	0.41 J	25	ug/L	SW846 8260B
Chloroform	1.2	1.0	ug/L	SW846 8260B
Chloromethane	0.16 J	1.0	ug/L	SW846 8260B
Cyclohexane	0.30 J	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	0.46 J	1.0	ug/L	SW846 8260B
Ethylbenzene	0.28 J	1.0	ug/L	SW846 8260B
Isopropylbenzene	0.46 J,B	5.0	ug/L	SW846 8260B
Methylcyclohexane	0.57 J	1.0	ug/L	SW846 8260B
Toluene	1.3	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	5.4	1.0	ug/L	SW846 8260B
Trichloroethene	11	1.0	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4G270183

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
GW-17360-072604-DCR-166 07/26/04 13:15 004				
Bromodichloromethane	0.23 J	1.0	ug/L	SW846 8260B
Chloroform	1.4	1.0	ug/L	SW846 8260B
Toluene	0.23 J	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	2.7	1.0	ug/L	SW846 8260B
Trichloroethene	0.90 J	1.0	ug/L	SW846 8260B
GW-17360-072604-DCR-167 07/26/04 14:45 005				
Acetone	0.94 J	25	ug/L	SW846 8260B
Benzene	0.31 J	1.0	ug/L	SW846 8260B
Bromodichloromethane	1.0	1.0	ug/L	SW846 8260B
2-Butanone	0.62 J	25	ug/L	SW846 8260B
Chloroform	2.7	1.0	ug/L	SW846 8260B
Cyclohexane	0.18 J	1.0	ug/L	SW846 8260B
Dibromochloromethane	0.39 J	1.0	ug/L	SW846 8260B
Isopropylbenzene	0.46 J,B	5.0	ug/L	SW846 8260B
Toluene	3.8	1.0	ug/L	SW846 8260B
1,2,4-Trichloro- benzene	0.91 J,B	5.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	0.96 J	1.0	ug/L	SW846 8260B
Trichloroethene	0.86 J	1.0	ug/L	SW846 8260B
GW-17360-072604-DCR-168 07/26/04 16:45 006				
Acetone	0.90 J	25	ug/L	SW846 8260B
Benzene	0.28 J	1.0	ug/L	SW846 8260B
Bromodichloromethane	0.76 J	1.0	ug/L	SW846 8260B
2-Butanone	0.58 J	25	ug/L	SW846 8260B
Chloroform	3.2	1.0	ug/L	SW846 8260B
Chloromethane	0.14 J	1.0	ug/L	SW846 8260B
Cyclohexane	0.14 J	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	0.35 J	50	ug/L	SW846 8260B
Toluene	3.8	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	1.0	1.0	ug/L	SW846 8260B
Trichloroethene	0.73 J	1.0	ug/L	SW846 8260B
GW-17360-072604-DCR-169 07/26/04 17:50 007				
Acetone	1.5 J	25	ug/L	SW846 8260B
Benzene	0.31 J	1.0	ug/L	SW846 8260B
Bromodichloromethane	0.69 J	1.0	ug/L	SW846 8260B
2-Butanone	0.77 J	25	ug/L	SW846 8260B
Chloroform	4.3	1.0	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4G270183

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
GW-17360-072604-DCR-169 07/26/04 17:50 007				
Cyclohexane	0.18 J	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	0.39 J	50	ug/L	SW846 8260B
Toluene	4.4	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	0.68 J	1.0	ug/L	SW846 8260B
Trichloroethene	0.79 J	1.0	ug/L	SW846 8260B
GW-17360-072604-DCR-170 07/26/04 008				
Acetone	1.5 J	25	ug/L	SW846 8260B
2-Butanone	1.4 J	25	ug/L	SW846 8260B
Carbon disulfide	0.48 J	5.0	ug/L	SW846 8260B
1,1-Dichloroethene	0.64 J	1.0	ug/L	SW846 8260B
Toluene	0.21 J	1.0	ug/L	SW846 8260B

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A4G270183

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Volatile Organics by GC/MS	SW846 8260B

References:

- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SAMPLE SUMMARY

A4G270183

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
GLW82	001	GW-17360-072604-DCR-163	07/26/04	10:30
GLW84	002	GW-17360-072604-DCR-164	07/26/04	11:20
GLW85	003	GW-17360-072604-DCR-165	07/26/04	12:15
GLW86	004	GW-17360-072604-DCR-166	07/26/04	13:15
GLW88	005	GW-17360-072604-DCR-167	07/26/04	14:45
GLW89	006	GW-17360-072604-DCR-168	07/26/04	16:45
GLW9A	007	GW-17360-072604-DCR-169	07/26/04	17:50
GLW9C	008	GW-17360-072604-DCR-170	07/26/04	

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 filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.



STL

***SHIPPING
AND
RECEIVING DOCUMENTS***

CRA

CONESTOGA-ROVERS & ASSOCIATES, INC.
14496 Sheldon Road, Suite 200
Plymouth, MI 48170 • (734) 453-5123

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: *[Signature]* PRINTED NAME: David C Rivers

SHIPPED TO (Laboratory Name): STL North Canton

REFERENCE NUMBER: 17360-09

PROJECT NAME: GM - Grand Rapids

SEQ. No.	DATE	TIME	PRINTED NAME	SAMPLE TYPE	NO OF CONTAINERS	PARAMETERS	REMARKS
1	7/26/94	1030	David C Rivers	H2O	3	X X X	
2	7/26/94	1122			3	X X X	
3	7/26/94	1215			3	X X X	
4	7/26/94	1305			9	X X X X X X X X X	
5	7/26/94	1445			3	X X X	ms/psd
6	7/26/94	1645			3	X X X	
7	7/26/94	1750			3	X X X	
8					1	X	

TOTAL NUMBER OF CONTAINERS 28

RELINQUISHED BY: <i>[Signature]</i>	DATE: 7-26-94	RECEIVED BY: _____	DATE: _____
	TIME: 1930	1. _____	TIME: _____
RELINQUISHED BY: _____	DATE: _____	RECEIVED BY: _____	DATE: _____
	TIME: _____	2. _____	TIME: _____
RELINQUISHED BY: _____	DATE: _____	RECEIVED BY: _____	DATE: _____
	TIME: _____	1. _____	TIME: _____

METHOD OF SHIPMENT: FED EX

AIR BILL No. 839355888875

White - Fully Executed Copy
Yellow - Receiving Laboratory Copy

SAMPLE TEAM: David Rivers

RECEIVED FOR LABORATORY BY: *[Signature]*

25941

DATE: 7/27/94 TIME: 9:45

RSR280
 Client: 57787
 Lot #: A4G270183
 Case Number/SDG: 17360-09
 Storage Location: MS

Severn Trent Laboratories, Inc.
 Sample Control Record

Laboratory Sample I.D.	Transferred By	Date	Entered	Removed	Reason	Date Returned
GLW82	STILLERJ	7/27/04	Yes		Storage	
GLW84	STILLERJ	7/27/04	Yes		Storage	
GLW85	STILLERJ	7/27/04	Yes		Storage	
GLW86	STILLERJ	7/27/04	Yes		Storage	
GLW88	STILLERJ	7/27/04	Yes		Storage	
GLW89	STILLERJ	7/27/04	Yes		Storage	
GLW9A	STILLERJ	7/27/04	Yes		Storage	
GLW9C	STILLERJ	7/27/04	Yes		Storage	

STL Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: 446270183

Client: CRA Project: Gin-Land Rapids Quote#: _____
 Cooler Received on: 2/22/04 Opened on: 2/22/04 by: [Signature]
 (Signature)

Fedx Client Drop Off UPS DHL FAS Other: _____

STL Cooler No# M-235 Foam Box Client Cooler Other _____

1. Were custody seals on the outside of the cooler? Yes No Intact? Yes No NA
 If YES, Quantity _____
 Were the custody seals signed and dated? Yes No NA
 2. Shipper's packing slip attached to this form? Yes No NA
 3. Did custody papers accompany the samples? Yes No Relinquished by client? Yes No
 4. Did you sign the custody papers in the appropriate place? Yes No
 5. Packing material used: Bubble Wrap Foam None Other: _____
 6. Cooler temperature upon receipt 4.5 °C (see back of form for multiple coolers/temp)
- METHOD: Temp Vial Coolant & Sample Against Bottles IR ICE/H₂O Slurry
 COOLANT: Wet Ice Blue Ice Dry Ice Water None
7. Did all bottles arrive in good condition (Unbroken)? Yes No
 8. Could all bottle labels and/or tags be reconciled with the COC? Yes No
 9. Were samples at the correct pH? (record below/on back) Yes No NA
 10. Were correct bottles used for the tests indicated? Yes No
 11. Were air bubbles >6 mm in any VOA vials? Yes No NA
 12. Sufficient quantity received to perform indicated analyses? Yes No
- Contacted PM _____ Date: _____ by: _____ via Voice Mail Verbal Other

Concerning:

1. CHAIN OF CUSTODY

The following discrepancies occurred:

2. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). Nitric Acid Lot #052804-HNO₃; Sulfuric Acid Lot # 011-304-H₂SO₄; Sodium Hydroxide Lot # -031804-NaOH; Hydrochloric Acid Lot # 100902-HCl; Sodium Hydroxide and Zinc Acetate Lot # 112801-CH₃COO₂ZN/NaOH
 Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. Other (see below or back)

Client ID	pH	Date	Initials

**STL Cooler Receipt Form/Narrative
North Canton Facility**

<u>Client ID</u>	<u>pH</u>	<u>Date</u>	<u>Initials</u>

<u>Cooler</u>	<u>Temp</u>	<u>Method</u>	<u>Coolant</u>

Discrepancies Cont.

GCMS VOLATILE DATA

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072604-DCR-163

GC/MS Volatiles

Lot-Sample #....: A4G270183-001 Work Order #....: GLW821AA Matrix.....: WG
 Date Sampled....: 07/26/04 10:30 Date Received...: 07/27/04
 Prep Date.....: 07/28/04 Analysis Date...: 07/28/04
 Prep Batch #....: 4210345
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	1.5 J	25	ug/L	0.74
Benzene	0.49 J	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	0.78 J	25	ug/L	0.39
Carbon disulfide	1.3 J	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	0.39 J	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	0.36 J	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	0.46 J,B	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	0.50 J	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072604-DCR-163

GC/MS Volatiles

Lot-Sample #...: A4G270183-001 Work Order #...: GLW821AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	1.1	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	96	(73 - 122)
1,2-Dichloroethane-d4	92	(61 - 128)
Toluene-d8	88	(76 - 110)
4-Bromofluorobenzene	80	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072604-DCR-164

GC/MS Volatiles

Lot-Sample #....: A4G270183-002 Work Order #....: GLW841AA Matrix.....: WG
 Date Sampled....: 07/26/04 11:20 Date Received...: 07/27/04
 Prep Date.....: 07/28/04 Analysis Date...: 07/28/04
 Prep Batch #....: 4210345
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	6.9 J	25	ug/L	0.74
Benzene	0.57 J	1.0	ug/L	0.22
Bromodichloromethane	1.3	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	2.1 J	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	4.2	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	0.43 J	1.0	ug/L	0.12
Dibromochloromethane	0.53 J	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	0.44 J	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	0.46 J,B	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	0.53 J	1.0	ug/L	0.50
4-Methyl-2-pentanone	1.5 J	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072604-DCR-164

GC/MS Volatiles

Lot-Sample #...: A4G270183-002 Work Order #...: GLW841AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	4.6	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	0.45 J	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	0.53 J	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	0.85 J	3.0	ug/L	0.44

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	99	(73 - 122)
1,2-Dichloroethane-d4	93	(61 - 128)
Toluene-d8	88	(76 - 110)
4-Bromofluorobenzene	82	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072604-DCR-165

GC/MS Volatiles

Lot-Sample #...: A4G270183-003 Work Order #...: GLW851AA Matrix.....: WG
 Date Sampled...: 07/26/04 12:15 Date Received...: 07/27/04
 Prep Date.....: 07/28/04 Analysis Date...: 07/28/04
 Prep Batch #...: 4210345
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	0.74
Benzene	0.45 J	1.0	ug/L	0.22
Bromodichloromethane	0.20 J	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	0.41 J	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	1.2	1.0	ug/L	0.16
Chloromethane	0.16 J	1.0	ug/L	0.14
Cyclohexane	0.30 J	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	0.46 J	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	0.28 J	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	0.46 J,B	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	0.57 J	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072604-DCR-165

GC/MS Volatiles

Lot-Sample #...: A4G270183-003 Work Order #...: GLW851AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	1.3	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	5.4	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	11	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	89	(76 - 110)
4-Bromofluorobenzene	79	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072604-DCR-166

GC/MS Volatiles

Lot-Sample #...: A4G270183-004 Work Order #...: GLW861AA Matrix.....: WG
 Date Sampled...: 07/26/04 13:15 Date Received...: 07/27/04
 Prep Date.....: 07/28/04 Analysis Date...: 07/28/04
 Prep Batch #...: 4210345
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	0.23 J	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	1.4	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072604-DCR-166

GC/MS Volatiles

Lot-Sample #...: A4G270183-004 Work Order #...: GLW861AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	0.23 J	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	2.7	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	0.90 J	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	102	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	87	(76 - 110)
4-Bromofluorobenzene	79	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072604-DCR-167

GC/MS Volatiles

Lot-Sample #...: A4G270183-005 Work Order #...: GLW881AA Matrix.....: WG
 Date Sampled...: 07/26/04 14:45 Date Received...: 07/27/04
 Prep Date.....: 07/28/04 Analysis Date...: 07/28/04
 Prep Batch #...: 4210345
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	0.94 J	25	ug/L	0.74
Benzene	0.31 J	1.0	ug/L	0.22
Bromodichloromethane	1.0	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	0.62 J	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	2.7	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	0.18 J	1.0	ug/L	0.12
Dibromochloromethane	0.39 J	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	0.46 J,B	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072604-DCR-167

GC/MS Volatiles

Lot-Sample #...: A4G270183-005 Work Order #...: GLW881AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	3.8	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	0.91 J,B	5.0	ug/L	0.19
1,1,1-Trichloroethane	0.96 J	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	0.86 J	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	98	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	87	(76 - 110)
4-Bromofluorobenzene	80	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072604-DCR-168

GC/MS Volatiles

Lot-Sample #...: A4G270183-006 Work Order #...: GLW891AA Matrix.....: WG
 Date Sampled...: 07/26/04 16:45 Date Received...: 07/27/04
 Prep Date.....: 07/28/04 Analysis Date...: 07/28/04
 Prep Batch #...: 4210345
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	0.90 J	25	ug/L	0.74
Benzene	0.28 J	1.0	ug/L	0.22
Bromodichloromethane	0.76 J	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	0.58 J	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	3.2	1.0	ug/L	0.16
Chloromethane	0.14 J	1.0	ug/L	0.14
Cyclohexane	0.14 J	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	0.35 J	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

(Continued on next page)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072604-DCR-168

GC/MS Volatiles

Lot-Sample #...: A4G270183-006 Work Order #...: GLW891AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	3.8	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	1.0	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	0.73 J	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	97	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	88	(76 - 110)
4-Bromofluorobenzene	79	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072604-DCR-169

GC/MS Volatiles

Lot-Sample #....: A4G270183-007 Work Order #....: GLW9A1AA Matrix.....: WG
 Date Sampled....: 07/26/04 17:50 Date Received...: 07/27/04
 Prep Date.....: 07/28/04 Analysis Date...: 07/28/04
 Prep Batch #....: 4210345
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	1.5 J	25	ug/L	0.74
Benzene	0.31 J	1.0	ug/L	0.22
Bromodichloromethane	0.69 J	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	0.77 J	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	4.3	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	0.18 J	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	0.39 J	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072604-DCR-169

GC/MS Volatiles

Lot-Sample #...: A4G270183-007 Work Order #...: GLW9A1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	4.4	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	0.68 J	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	0.79 J	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	99	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	87	(76 - 110)
4-Bromofluorobenzene	80	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072604-DCR-170

GC/MS Volatiles

Lot-Sample #....: A4G270183-008 Work Order #....: GLW9C1AA Matrix.....: WG
 Date Sampled....: 07/26/04 Date Received...: 07/27/04
 Prep Date.....: 07/28/04 Analysis Date...: 07/28/04
 Prep Batch #....: 4210345
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	1.5 J	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	1.4 J	25	ug/L	0.39
Carbon disulfide	0.48 J	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	0.64 J	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072604-DCR-170

GC/MS Volatiles

Lot-Sample #...: A4G270183-008 Work Order #...: GLW9C1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	0.21 J	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	87	(76 - 110)
4-Bromofluorobenzene	78	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4G270183
 MB Lot-Sample #: A4G280000-345

Work Order #...: GL1901AA

Matrix.....: WATER

Analysis Date...: 07/28/04
 Dilution Factor: 1

Prep Date.....: 07/28/04

Final Wgt/Vol...: 5 mL

Prep Batch #...: 4210345

Initial Wgt/Vol: 5 mL

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	ND	25	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	25	ug/L	SW846 8260B
Carbon disulfide	ND	5.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Cyclohexane	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	50	ug/L	SW846 8260B
Isopropylbenzene	0.44 J	5.0	ug/L	SW846 8260B
Methyl acetate	ND	10	ug/L	SW846 8260B
Methylene chloride	ND	5.0	ug/L	SW846 8260B
Methylcyclohexane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	50	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4G270183

Work Order #...: GL1901AA

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
1,2,4-Trichloro-benzene	0.92 J	5.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	3.0	ug/L	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	94	(73 - 122)
1,2-Dichloroethane-d4	90	(61 - 128)
Toluene-d8	86	(76 - 110)
4-Bromofluorobenzene	77	(74 - 116)

NOTE(S):

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

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A4G270183 Work Order #....: GL1901AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4G280000-345 GL1901AD-LCSD
 Prep Date.....: 07/28/04 Analysis Date...: 07/28/04
 Prep Batch #....: 4210345
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Benzene	10	9.8	ug/L	98		SW846 8260B
	10	9.9	ug/L	99	0.76	SW846 8260B
Chlorobenzene	10	9.7	ug/L	97		SW846 8260B
	10	10	ug/L	101	3.2	SW846 8260B
1,1-Dichloroethene	10	10	ug/L	104		SW846 8260B
	10	11	ug/L	106	2.2	SW846 8260B
Toluene	10	10	ug/L	103		SW846 8260B
	10	10	ug/L	104	1.2	SW846 8260B
Trichloroethene	10	10	ug/L	101		SW846 8260B
	10	10	ug/L	100	1.5	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	92	(73 - 122)
	86	(73 - 122)
1,2-Dichloroethane-d4	87	(61 - 128)
	86	(61 - 128)
Toluene-d8	92	(76 - 110)
	93	(76 - 110)
4-Bromofluorobenzene	97	(74 - 116)
	96	(74 - 116)

NOTE(S) :

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A4G270183 Work Order #....: GL1901AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4G280000-345 GL1901AD-LCSD
 Prep Date.....: 07/28/04 Analysis Date...: 07/28/04
 Prep Batch #....: 4210345
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	98	(80 - 116)			SW846 8260B
	99	(80 - 116)	0.76	(0-20)	SW846 8260B
Chlorobenzene	97	(76 - 117)			SW846 8260B
	101	(76 - 117)	3.2	(0-20)	SW846 8260B
1,1-Dichloroethene	104	(63 - 130)			SW846 8260B
	106	(63 - 130)	2.2	(0-20)	SW846 8260B
Toluene	103	(74 - 119)			SW846 8260B
	104	(74 - 119)	1.2	(0-20)	SW846 8260B
Trichloroethene	101	(75 - 122)			SW846 8260B
	100	(75 - 122)	1.5	(0-20)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	92	(73 - 122)
	86	(73 - 122)
1,2-Dichloroethane-d4	87	(61 - 128)
	86	(61 - 128)
Toluene-d8	92	(76 - 110)
	93	(76 - 110)
4-Bromofluorobenzene	97	(74 - 116)
	96	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A4G270183 Work Order #...: GLW861AC-MS Matrix.....: WG
 MS Lot-Sample #: A4G270183-004 GLW861AD-MSD
 Date Sampled...: 07/26/04 13:15 Date Received...: 07/27/04
 Prep Date.....: 07/28/04 Analysis Date...: 07/28/04
 Prep Batch #...: 4210345
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Benzene	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	9.5	ug/L	95	0.64	SW846 8260B
Chlorobenzene	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	9.5	ug/L	95	0.49	SW846 8260B
1,1-Dichloroethene	ND	10	11	ug/L	105		SW846 8260B
	ND	10	11	ug/L	105	0.06	SW846 8260B
Toluene	0.23	10	10	ug/L	98		SW846 8260B
	0.23	10	10	ug/L	100	1.4	SW846 8260B
Trichloroethene	0.90	10	10	ug/L	95		SW846 8260B
	0.90	10	11	ug/L	97	2.2	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	95	(73 - 122)
	94	(73 - 122)
1,2-Dichloroethane-d4	88	(61 - 128)
	87	(61 - 128)
Toluene-d8	94	(76 - 110)
	93	(76 - 110)
4-Bromofluorobenzene	97	(74 - 116)
	97	(74 - 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 Volatiles

Client Lot #....: A4G270183 Work Order #....: GLW861AC-MS Matrix.....: WG
 MS Lot-Sample #: A4G270183-004 GLW861AD-MSD
 Date Sampled...: 07/26/04 13:15 Date Received...: 07/27/04
 Prep Date.....: 07/28/04 Analysis Date...: 07/28/04
 Prep Batch #....: 4210345
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	95	(78 - 118)			SW846 8260B
	95	(78 - 118)	0.64	(0-20)	SW846 8260B
Chlorobenzene	95	(76 - 117)			SW846 8260B
	95	(76 - 117)	0.49	(0-20)	SW846 8260B
1,1-Dichloroethene	105	(62 - 130)			SW846 8260B
	105	(62 - 130)	0.06	(0-20)	SW846 8260B
Toluene	98	(70 - 119)			SW846 8260B
	100	(70 - 119)	1.4	(0-20)	SW846 8260B
Trichloroethene	95	(62 - 130)			SW846 8260B
	97	(62 - 130)	2.2	(0-20)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	95	(73 - 122)
	94	(73 - 122)
1,2-Dichloroethane-d4	88	(61 - 128)
	87	(61 - 128)
Toluene-d8	94	(76 - 110)
	93	(76 - 110)
4-Bromofluorobenzene	97	(74 - 116)
	97	(74 - 116)

NOTE(S) :

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

Bold print denotes control parameters

END OF REPORT

REC'D CRA
AUG 19 2004
~~G-20~~
G-21

SEVERN
TRENT

STL

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720
Tel: 330 497 9396 Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 17360-09
GM GRAND RAPIDS
Lot #: A4G280151

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT
Project#: 17360-09 Lab#: A4G280151
Name: GM - GR

SEVERN TRENT LABORATORIES, INC. Description
Event: Quarterly GW
Samples: G water
Analysis: TCU VOC

TAT: 2 day
Lab: STL

for: *Rebecca Stunt*
Amy L. McCormick
Project Manager

Checked Against Preliminary Data:
Date: _____ Init.: KAK
Date of Validation Memo: 10/21/04
Invoice Approval Date: _____
Comments: _____

August 17, 2004

CRA

CONESTOGA-ROVERS & ASSOCIATES, INC.

14496 Sheldon Road, Suite 200
Plymouth, MI 48170 • (734) 453-5123

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: *[Signature]*

PRINTED NAME: David C. Rivers

SHIPPED TO (Laboratory Name): STZ - North Canton

REFERENCE NUMBER: 17360-09

PROJECT NAME: Gm Grand Rapids

PARAMETERS: TEL VOCs

CONTAINERS: 100% THT

SEQ. No.	DATE	TIME	NO. OF CONTAINERS	SAMPLE TYPE	REMARKS
1	7/27/04	845	3	H ₂ O	
2	1925	-172	2		
3	1510	-173	2		
4	1605	-174	2		
5	1655	-175	2		
6	1700	-176	2		
7	1755	-177	2		
8	-	-178	1		

CRA Contact
Paul Wiseman

TOTAL NUMBER OF CONTAINERS

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
1. <i>[Signature]</i>	7-27-04		1. _____		
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
2. _____			2. _____		
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
3. _____			1. _____		

METHOD OF SHIPMENT: FED EX AIR BILL No. 8393 5588 8864

White - Fully Executed Copy
Yellow - Receiving Laboratory Copy

SAMPLE TEAM: David Rivers

RECEIVED FOR LABORATORY BY: [Signature]

DATE: 7-28-04 TIME: 9:35

27159

CASE NARRATIVE

CASE NARRATIVE

A4G280151

The following report contains the analytical results for eight water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM Grand Rapids Site, project number 17360-09. The samples were received July 28, 2004, according to documented sample acceptance procedures.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to the Chemistry Department on July 30, 2004. A summary of QC data for these analyses is included at the back of the report.

STL North Canton attests to the validity of the laboratory data generated by STL facilities reported herein. All analyses performed by STL facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. STL's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

If you have any questions, please call the Project Manager, Amy L. McCormick, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 5.4°C.

CASE NARRATIVE (continued)

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The pH of the sample GW-17360-072704-DCR-177 was greater than 2. The sample(s) was analyzed within the normal 14 day holding time; however, experimental evidence suggests that some aromatic compounds in wastewater samples, notably Benzene, Toluene, and Ethylbenzene are susceptible to biological degradation if samples are not preserved to a pH of 2.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed below.)

Volatile (GC or GC/MS)
Methylene chloride
Acetone
2-Butanone

Semivolatile (GC/MS)
Phthalate Esters

Metals
Copper
Iron
Zinc
Lead*

- *for analyses run on TJA Trace ICP, ICPMS or GFAA only*

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria do not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprep and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprep and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide, PCB, and PAH methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria.

STL North Canton Certifications and Approvals:

Alabama (#41170), California (#01144CA), Connecticut (#PH-0590), Florida (#E87225), Illinois (#100439), Kansas (#E10336), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Ohio (#6090), OhioVAP (#CL0024), Rhode Island (#237), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), Utah (#QUAN9), Virginia (#00011), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence – Participating Lab Status Award (#82)



Y:\Barb\STL headers\Qc846-Narrative_012804.doc, Revised: 01/28/04 DJL



STL

***EXECUTIVE
SUMMARY***

EXECUTIVE SUMMARY - Detection Highlights

A4G280151

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GW-17360-072704-DCR-171 07/27/04 08:45 001				
Acetone	4.9 J,B	25	ug/L	SW846 8260B
Benzene	0.54 J	1.0	ug/L	SW846 8260B
2-Butanone	1.1 J	25	ug/L	SW846 8260B
Chloroform	3.8	1.0	ug/L	SW846 8260B
Ethylbenzene	0.28 J	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	0.43 J	50	ug/L	SW846 8260B
Toluene	4.1	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	0.51 J	1.0	ug/L	SW846 8260B
Trichloroethene	0.72 J	1.0	ug/L	SW846 8260B
GW-17360-072704-DCR-172 07/27/04 14:25 002				
Acetone	1.0 J,B	25	ug/L	SW846 8260B
Benzene	0.48 J	1.0	ug/L	SW846 8260B
Cyclohexane	0.36 J	1.0	ug/L	SW846 8260B
Ethylbenzene	0.25 J	1.0	ug/L	SW846 8260B
Toluene	1.0	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	0.73 J	1.0	ug/L	SW846 8260B
Trichloroethene	0.93 J	1.0	ug/L	SW846 8260B
GW-17360-072704-DCR-173 07/27/04 15:10 003				
cis-1,2-Dichloroethene	0.82 J	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	2.7 J	5.0	ug/L	SW846 8260B
Toluene	0.24 J	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	0.21 J	1.0	ug/L	SW846 8260B
Trichloroethene	4.5	1.0	ug/L	SW846 8260B
GW-17360-072704-DCR-174 07/27/04 16:05 004				
Acetone	2.0 J,B	50	ug/L	SW846 8260B
Benzene	0.45 J	2.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	57	2.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	4.9	2.0	ug/L	SW846 8260B
Methyl tert-butyl ether	2.3 J	10	ug/L	SW846 8260B
Toluene	0.92 J	2.0	ug/L	SW846 8260B
Trichloroethene	23	2.0	ug/L	SW846 8260B
GW-17360-072704-DCR-175 07/27/04 16:55 005				
Acetone	2.1 J,B	42	ug/L	SW846 8260B
Chloroform	0.42 J	1.7	ug/L	SW846 8260B
cis-1,2-Dichloroethene	38	1.7	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4G280151

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
GW-17360-072704-DCR-175 07/27/04 16:55 005				
trans-1,2-Dichloroethene	4.4	1.7	ug/L	SW846 8260B
Methyl tert-butyl ether	1.9 J	8.4	ug/L	SW846 8260B
Tetrachloroethene	17	1.7	ug/L	SW846 8260B
Toluene	0.61 J	1.7	ug/L	SW846 8260B
Trichloroethene	34	1.7	ug/L	SW846 8260B
GW-17360-072704-DCR-176 07/27/04 17:00 006				
Acetone	2.5 J,B	42	ug/L	SW846 8260B
Chloroform	0.44 J	1.7	ug/L	SW846 8260B
cis-1,2-Dichloroethene	39	1.7	ug/L	SW846 8260B
trans-1,2-Dichloroethene	4.9	1.7	ug/L	SW846 8260B
Methyl tert-butyl ether	2.9 J	8.4	ug/L	SW846 8260B
Tetrachloroethene	15	1.7	ug/L	SW846 8260B
Toluene	0.59 J	1.7	ug/L	SW846 8260B
Trichloroethene	33	1.7	ug/L	SW846 8260B
GW-17360-072704-DCR-177 07/27/04 17:55 007				
Acetone	3.5 J,B	42	ug/L	SW846 8260B
Benzene	0.41 J	1.7	ug/L	SW846 8260B
Bromodichloromethane	0.36 J	1.7	ug/L	SW846 8260B
Chloroform	1.5 J	1.7	ug/L	SW846 8260B
cis-1,2-Dichloroethene	37	1.7	ug/L	SW846 8260B
trans-1,2-Dichloroethene	2.9	1.7	ug/L	SW846 8260B
Methyl tert-butyl ether	1.3 J	8.4	ug/L	SW846 8260B
Tetrachloroethene	15	1.7	ug/L	SW846 8260B
Toluene	1.8	1.7	ug/L	SW846 8260B
Trichloroethene	19	1.7	ug/L	SW846 8260B
GW-17360-072704-DCR-178 07/27/04 008				
Acetone	1.6 J,B	25	ug/L	SW846 8260B
Carbon disulfide	0.37 J	5.0	ug/L	SW846 8260B
Methylene chloride	0.80 J	5.0	ug/L	SW846 8260B

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A4G280151

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SAMPLE SUMMARY

A4G280151

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GL1HT	001	GW-17360-072704-DCR-171	07/27/04	08:45
GL1H0	002	GW-17360-072704-DCR-172	07/27/04	14:25
GL1H1	003	GW-17360-072704-DCR-173	07/27/04	15:10
GL1H2	004	GW-17360-072704-DCR-174	07/27/04	16:05
GL1H3	005	GW-17360-072704-DCR-175	07/27/04	16:55
GL1H5	006	GW-17360-072704-DCR-176	07/27/04	17:00
GL1H7	007	GW-17360-072704-DCR-177	07/27/04	17:55
GL1H8	008	GW-17360-072704-DCR-178	07/27/04	

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 filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.



STL

***SHIPPING
AND
RECEIVING DOCUMENTS***

CRA

CONESTOGA-ROVERS & ASSOCIATES, INC.

14496 Sheldon Road, Suite 200
Plymouth, MI 48170 • (734) 453-5123

SHIPPED TO (Laboratory Name): *STL - North Canton*

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER: *17360-09*

PROJECT NAME: *3m Grand Rapids*

SAMPLER'S SIGNATURE: *[Signature]* PRINTED NAME: *David C Rivers*

SEQ. No.	DATE	TIME	SAMPLE TYPE	NO. OF CONTAINERS	PARAMETERS		REMARKS
					TOTAL VOL	ABLE TMT	
1	7/27/04	845	GU-17360-072704-DCR-171	3	X	X	
2		1425		2	X	X	
3		1510		2	X	X	
4		1605		2	X	X	
5		1655		2	X	X	
6		1700		2	X	X	
7		1755		2	X	X	
8				1	X	X	

TOTAL NUMBER OF CONTAINERS

CR contact Paul Wiseman

RELINQUISHED BY:	DATE: <i>7-27-04</i>	RECEIVED BY:	DATE:
1. <i>[Signature]</i>	TIME: <i>1900</i>	1. _____	TIME:
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
2. _____	TIME:	2. _____	TIME:
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
3. _____	TIME:	1. _____	TIME:

METHOD OF SHIPMENT: *Fed ex*

AIR BILL NO. *8393 5588 8864*

White - Fully Executed Copy	Pink - Shipper Copy	SAMPLE TEAM: <i>David Rivers</i>	RECEIVED FOR LABORATORY BY: <i>[Signature]</i>
Yellow - Receiving Laboratory Copy	Goldendred - Sampler Copy		DATE: <i>7/28/04</i> TIME: <i>9:35</i>
27159			

RSR280

Client:

57787

Lot #:

A4G280151

Case Number/SDG:

17360-09

Storage Location: MS

**Severn Trent Laboratories, Inc.
Sample Control Record**

Laboratory Sample I.D.	Transferred By	Date	Entered	Removed	Reason	Date Returned
GL1H7	STILLERJ	7/28/04	Yes		Storage	
GL1H0	STILLERJ	7/28/04	Yes		Storage	
GL1H1	STILLERJ	7/28/04	Yes		Storage	
GL1H2	STILLERJ	7/28/04	Yes		Storage	
GL1H3	STILLERJ	7/28/04	Yes		Storage	
GL1H5	STILLERJ	7/28/04	Yes		Storage	
GL1H7	STILLERJ	7/28/04	Yes		Storage	
GL1H8	STILLERJ	7/28/04	Yes		Storage	

STL Cooler Receipt Form/Narrative

Lot Number: 446280151

North Canton Facility

Client: CRA

Project: GM Grand Rapids Quote#: _____

Cooler Received on: 7/28/04

Opened on: 7/28/04

by: [Signature]
(Signature)

Fedx Client Drop Off UPS DHL FAS Other: _____

STL Cooler No# _____ Foam Box Client Cooler Other _____

1. Were custody seals on the outside of the cooler? Yes No Intact? Yes No NA
If YES, Quantity _____
Were the custody seals signed and dated? Yes No NA
 2. Shipper's packing slip attached to this form? Yes No
 3. Did custody papers accompany the samples? Yes No
 4. Did you sign the custody papers in the appropriate place? Yes No
 5. Packing material used: Bubble Wrap Foam None Other: _____
 6. Cooler temperature upon receipt 5.4 °C (see back of form for multiple coolers/temp).
METHOD: Temp Vial Coolant & Sample Against Bottles IR ICE/H₂O Slurry
COOLANT: Wet Ice Blue Ice Dry Ice Water None
 7. Did all bottles arrive in good condition (Unbroken)? Yes No
 8. Could all bottle labels and/or tags be reconciled with the COC? Yes No
 9. Were samples at the correct pH? (record below/on back) Yes No NA
 10. Were correct bottles used for the tests indicated? Yes No
 11. Were air bubbles >6 mm in any VOA vials? Yes No NA
 12. Sufficient quantity received to perform indicated analyses? Yes No
- Contacted PM _____ Date: _____ by: _____ via Voice Mail Verbal Other

Concerning: _____

1. CHAIN OF CUSTODY

The following discrepancies occurred:

2. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). Nitric Acid Lot #052804-HNO₃; Sulfuric Acid Lot # 011-504-H₂SO₄; Sodium Hydroxide Lot # -031804-NaOH; Hydrochloric Acid Lot # 100902-HCl; Sodium Hydroxide and Zinc Acetate Lot # 112801-CH₃COO₂ZN/NaOH
Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. Other (see below or back)

48hr test OK per AIM 7/28/04

Client ID	pH	Date	Initials

**STL Cooler Receipt Form/Narrative
North Canton Facility**

Client ID	pH	Date	Initials

Cooler	Temp	Method	Coolant

Discrepancies Cont.

Macro Name:

Macro Name:

Macro Name:

Other Anomalies:

GCMS VOLATILE DATA

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072704-DCR-171

GC/MS Volatiles

Lot-Sample #....: A4G280151-001 Work Order #....: GL1HT1AA Matrix.....: WG
 Date Sampled....: 07/27/04 08:45 Date Received...: 07/28/04
 Prep Date.....: 07/29/04 Analysis Date...: 07/29/04
 Prep Batch #....: 4212184
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	4.9 J,B	25	ug/L	0.74
Benzene	0.54 J	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	1.1 J	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	3.8	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	0.28 J	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	0.43 J	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072704-DCR-171

GC/MS Volatiles

Lot-Sample #...: A4G280151-001 Work Order #...: GL1HT1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	4.1	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	0.51 J	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	0.72 J	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	94	(73 - 122)
1,2-Dichloroethane-d4	92	(61 - 128)
Toluene-d8	98	(76 - 110)
4-Bromofluorobenzene	102	(74 - 116)

NOTE (S) :

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072704-DCR-172

GC/MS Volatiles

Lot-Sample #....: A4G280151-002 Work Order #....: GL1H01AA Matrix.....: WG
 Date Sampled....: 07/27/04 14:25 Date Received...: 07/28/04
 Prep Date.....: 07/29/04 Analysis Date...: 07/29/04
 Prep Batch #....: 4212184
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	1.0 J,B	25	ug/L	0.74
Benzene	0.48 J	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	0.36 J	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	0.25 J	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072704-DCR-172

GC/MS Volatiles

Lot-Sample #...: A4G280151-002 Work Order #...: GL1H01AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	1.0	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	0.73 J	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	0.93 J	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	95	(73 - 122)
1,2-Dichloroethane-d4	91	(61 - 128)
Toluene-d8	99	(76 - 110)
4-Bromofluorobenzene	98	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072704-DCR-173

GC/MS Volatiles

Lot-Sample #....: A4G280151-003 Work Order #....: GL1H11AA Matrix.....: WG
 Date Sampled...: 07/27/04 15:10 Date Received...: 07/28/04
 Prep Date.....: 07/29/04 Analysis Date...: 07/29/04
 Prep Batch #....: 4212184
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	0.82 J	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	2.7 J	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072704-DCR-173

GC/MS Volatiles

Lot-Sample #...: A4G280151-003 Work Order #...: GL1H11AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	0.24 J	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	0.21 J	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	4.5	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	93	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	99	(76 - 110)
4-Bromofluorobenzene	101	(74 - 116)

NOTE (S) :

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072704-DCR-174

GC/MS Volatiles

Lot-Sample #...: A4G280151-004 Work Order #...: GL1H21AA Matrix.....: WG
 Date Sampled...: 07/27/04 16:05 Date Received...: 07/28/04
 Prep Date.....: 07/29/04 Analysis Date...: 07/29/04
 Prep Batch #...: 4212184
 Dilution Factor: 2 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	2.0 J,B	50	ug/L	1.5
Benzene	0.45 J	2.0	ug/L	0.44
Bromodichloromethane	ND	2.0	ug/L	0.28
Bromoform	ND	2.0	ug/L	0.34
Bromomethane	ND	2.0	ug/L	0.72
2-Butanone	ND	50	ug/L	0.78
Carbon disulfide	ND	10	ug/L	0.56
Carbon tetrachloride	ND	2.0	ug/L	0.38
Chlorobenzene	ND	2.0	ug/L	0.40
Chloroethane	ND	2.0	ug/L	0.48
Chloroform	ND	2.0	ug/L	0.32
Chloromethane	ND	2.0	ug/L	0.28
Cyclohexane	ND	2.0	ug/L	0.24
Dibromochloromethane	ND	2.0	ug/L	0.38
1,2-Dibromo-3-chloro- propane	ND	2.0	ug/L	0.56
1,2-Dibromoethane	ND	2.0	ug/L	0.48
1,2-Dichlorobenzene	ND	2.0	ug/L	0.40
1,3-Dichlorobenzene	ND	2.0	ug/L	0.36
1,4-Dichlorobenzene	ND	2.0	ug/L	0.44
Dichlorodifluoromethane	ND	2.0	ug/L	0.50
1,1-Dichloroethane	ND	2.0	ug/L	0.42
1,2-Dichloroethane	ND	2.0	ug/L	0.32
1,1-Dichloroethene	ND	2.0	ug/L	0.36
cis-1,2-Dichloroethene	57	2.0	ug/L	0.42
trans-1,2-Dichloroethene	4.9	2.0	ug/L	0.32
1,2-Dichloropropane	ND	2.0	ug/L	0.30
cis-1,3-Dichloropropene	ND	2.0	ug/L	0.24
trans-1,3-Dichloropropene	ND	2.0	ug/L	0.34
Ethylbenzene	ND	2.0	ug/L	0.38
2-Hexanone	ND	100	ug/L	0.70
Isopropylbenzene	ND	10	ug/L	0.30
Methyl acetate	ND	20	ug/L	1.0
Methylene chloride	ND	10	ug/L	0.38
Methylcyclohexane	ND	2.0	ug/L	1.0
4-Methyl-2-pentanone	ND	100	ug/L	0.64
Methyl tert-butyl ether	2.3 J	10	ug/L	0.36
Styrene	ND	2.0	ug/L	0.26

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072704-DCR-174

GC/MS Volatiles

Lot-Sample #...: A4G280151-004 Work Order #...: GL1H21AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	2.0	ug/L	0.44
Tetrachloroethene	ND	2.0	ug/L	0.38
Toluene	0.92 J	2.0	ug/L	0.34
1,2,4-Trichloro-benzene	ND	10	ug/L	0.38
1,1,1-Trichloroethane	ND	2.0	ug/L	0.42
1,1,2-Trichloroethane	ND	2.0	ug/L	0.44
Trichloroethene	23	2.0	ug/L	0.56
Trichlorofluoromethane	ND	2.0	ug/L	0.32
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.0	ug/L	0.52
Vinyl chloride	ND	2.0	ug/L	0.42
Xylenes (total)	ND	6.0	ug/L	0.88

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	99	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	97	(76 - 110)
4-Bromofluorobenzene	98	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072704-DCR-175

GC/MS Volatiles

Lot-Sample #...: A4G280151-005 Work Order #...: GL1H31AA Matrix.....: WG
 Date Sampled...: 07/27/04 16:55 Date Received...: 07/28/04
 Prep Date.....: 07/29/04 Analysis Date...: 07/29/04
 Prep Batch #...: 4212184
 Dilution Factor: 1.67 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	2.1 J,B	42	ug/L	1.2
Benzene	ND	1.7	ug/L	0.37
Bromodichloromethane	ND	1.7	ug/L	0.23
Bromoform	ND	1.7	ug/L	0.28
Bromomethane	ND	1.7	ug/L	0.60
2-Butanone	ND	42	ug/L	0.65
Carbon disulfide	ND	8.4	ug/L	0.47
Carbon tetrachloride	ND	1.7	ug/L	0.32
Chlorobenzene	ND	1.7	ug/L	0.33
Chloroethane	ND	1.7	ug/L	0.40
Chloroform	0.42 J	1.7	ug/L	0.27
Chloromethane	ND	1.7	ug/L	0.23
Cyclohexane	ND	1.7	ug/L	0.20
Dibromochloromethane	ND	1.7	ug/L	0.32
1,2-Dibromo-3-chloro- propane	ND	1.7	ug/L	0.47
1,2-Dibromoethane	ND	1.7	ug/L	0.40
1,2-Dichlorobenzene	ND	1.7	ug/L	0.33
1,3-Dichlorobenzene	ND	1.7	ug/L	0.30
1,4-Dichlorobenzene	ND	1.7	ug/L	0.37
Dichlorodifluoromethane	ND	1.7	ug/L	0.42
1,1-Dichloroethane	ND	1.7	ug/L	0.35
1,2-Dichloroethane	ND	1.7	ug/L	0.27
1,1-Dichloroethene	ND	1.7	ug/L	0.30
cis-1,2-Dichloroethene	38	1.7	ug/L	0.35
trans-1,2-Dichloroethene	4.4	1.7	ug/L	0.27
1,2-Dichloropropane	ND	1.7	ug/L	0.25
cis-1,3-Dichloropropene	ND	1.7	ug/L	0.20
trans-1,3-Dichloropropene	ND	1.7	ug/L	0.28
Ethylbenzene	ND	1.7	ug/L	0.32
2-Hexanone	ND	84	ug/L	0.58
Isopropylbenzene	ND	8.4	ug/L	0.25
Methyl acetate	ND	17	ug/L	0.87
Methylene chloride	ND	8.4	ug/L	0.32
Methylcyclohexane	ND	1.7	ug/L	0.84
4-Methyl-2-pentanone	ND	84	ug/L	0.53
Methyl tert-butyl ether	1.9 J	8.4	ug/L	0.30
Styrene	ND	1.7	ug/L	0.22

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072704-DCR-175

GC/MS Volatiles

Lot-Sample #...: A4G280151-005 Work Order #...: GL1H31AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.7	ug/L	0.37
Tetrachloroethene	17	1.7	ug/L	0.32
Toluene	0.61 J	1.7	ug/L	0.28
1,2,4-Trichloro- benzene	ND	8.4	ug/L	0.32
1,1,1-Trichloroethane	ND	1.7	ug/L	0.35
1,1,2-Trichloroethane	ND	1.7	ug/L	0.37
Trichloroethene	34	1.7	ug/L	0.47
Trichlorofluoromethane	ND	1.7	ug/L	0.27
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.7	ug/L	0.43
Vinyl chloride	ND	1.7	ug/L	0.35
Xylenes (total)	ND	5.0	ug/L	0.73

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	91	(73 - 122)
1,2-Dichloroethane-d4	90	(61 - 128)
Toluene-d8	97	(76 - 110)
4-Bromofluorobenzene	100	(74 - 116)

NOTE(S) :

- J Estimated result. Result is less than RL.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072704-DCR-176

GC/MS Volatiles

Lot-Sample #...: A4G280151-006 Work Order #...: GL1H51AA Matrix.....: WG
 Date Sampled...: 07/27/04 17:00 Date Received...: 07/28/04
 Prep Date.....: 07/29/04 Analysis Date...: 07/29/04
 Prep Batch #...: 4212184
 Dilution Factor: 1.67 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	2.5 J,B	42	ug/L	1.2
Benzene	ND	1.7	ug/L	0.37
Bromodichloromethane	ND	1.7	ug/L	0.23
Bromoform	ND	1.7	ug/L	0.28
Bromomethane	ND	1.7	ug/L	0.60
2-Butanone	ND	42	ug/L	0.65
Carbon disulfide	ND	8.4	ug/L	0.47
Carbon tetrachloride	ND	1.7	ug/L	0.32
Chlorobenzene	ND	1.7	ug/L	0.33
Chloroethane	ND	1.7	ug/L	0.40
Chloroform	0.44 J	1.7	ug/L	0.27
Chloromethane	ND	1.7	ug/L	0.23
Cyclohexane	ND	1.7	ug/L	0.20
Dibromochloromethane	ND	1.7	ug/L	0.32
1,2-Dibromo-3-chloro- propane	ND	1.7	ug/L	0.47
1,2-Dibromoethane	ND	1.7	ug/L	0.40
1,2-Dichlorobenzene	ND	1.7	ug/L	0.33
1,3-Dichlorobenzene	ND	1.7	ug/L	0.30
1,4-Dichlorobenzene	ND	1.7	ug/L	0.37
Dichlorodifluoromethane	ND	1.7	ug/L	0.42
1,1-Dichloroethane	ND	1.7	ug/L	0.35
1,2-Dichloroethane	ND	1.7	ug/L	0.27
1,1-Dichloroethene	ND	1.7	ug/L	0.30
cis-1,2-Dichloroethene	39	1.7	ug/L	0.35
trans-1,2-Dichloroethene	4.9	1.7	ug/L	0.27
1,2-Dichloropropane	ND	1.7	ug/L	0.25
cis-1,3-Dichloropropene	ND	1.7	ug/L	0.20
trans-1,3-Dichloropropene	ND	1.7	ug/L	0.28
Ethylbenzene	ND	1.7	ug/L	0.32
2-Hexanone	ND	84	ug/L	0.58
Isopropylbenzene	ND	8.4	ug/L	0.25
Methyl acetate	ND	17	ug/L	0.87
Methylene chloride	ND	8.4	ug/L	0.32
Methylcyclohexane	ND	1.7	ug/L	0.84
4-Methyl-2-pentanone	ND	84	ug/L	0.53
Methyl tert-butyl ether	2.9 J	8.4	ug/L	0.30
Styrene	ND	1.7	ug/L	0.22

(Continued on next page)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072704-DCR-176

GC/MS Volatiles

Lot-Sample #...: A4G280151-006 Work Order #...: GL1H51AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.7	ug/L	0.37
Tetrachloroethene	15	1.7	ug/L	0.32
Toluene	0.59 J	1.7	ug/L	0.28
1,2,4-Trichloro- benzene	ND	8.4	ug/L	0.32
1,1,1-Trichloroethane	ND	1.7	ug/L	0.35
1,1,2-Trichloroethane	ND	1.7	ug/L	0.37
Trichloroethene	33	1.7	ug/L	0.47
Trichlorofluoromethane	ND	1.7	ug/L	0.27
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.7	ug/L	0.43
Vinyl chloride	ND	1.7	ug/L	0.35
Xylenes (total)	ND	5.0	ug/L	0.73

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	97	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	95	(76 - 110)
4-Bromofluorobenzene	96	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072704-DCR-177

GC/MS Volatiles

Lot-Sample #...: A4G280151-007 Work Order #...: GL1H71AA Matrix.....: WG
 Date Sampled...: 07/27/04 17:55 Date Received...: 07/28/04
 Prep Date.....: 07/29/04 Analysis Date...: 07/29/04
 Prep Batch #...: 4212184
 Dilution Factor: 1.67 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	3.5 J,B	42	ug/L	1.2
Benzene	0.41 J	1.7	ug/L	0.37
Bromodichloromethane	0.36 J	1.7	ug/L	0.23
Bromoform	ND	1.7	ug/L	0.28
Bromomethane	ND	1.7	ug/L	0.60
2-Butanone	ND	42	ug/L	0.65
Carbon disulfide	ND	8.4	ug/L	0.47
Carbon tetrachloride	ND	1.7	ug/L	0.32
Chlorobenzene	ND	1.7	ug/L	0.33
Chloroethane	ND	1.7	ug/L	0.40
Chloroform	1.5 J	1.7	ug/L	0.27
Chloromethane	ND	1.7	ug/L	0.23
Cyclohexane	ND	1.7	ug/L	0.20
Dibromochloromethane	ND	1.7	ug/L	0.32
1,2-Dibromo-3-chloro- propane	ND	1.7	ug/L	0.47
1,2-Dibromoethane	ND	1.7	ug/L	0.40
1,2-Dichlorobenzene	ND	1.7	ug/L	0.33
1,3-Dichlorobenzene	ND	1.7	ug/L	0.30
1,4-Dichlorobenzene	ND	1.7	ug/L	0.37
Dichlorodifluoromethane	ND	1.7	ug/L	0.42
1,1-Dichloroethane	ND	1.7	ug/L	0.35
1,2-Dichloroethane	ND	1.7	ug/L	0.27
1,1-Dichloroethene	ND	1.7	ug/L	0.30
cis-1,2-Dichloroethene	37	1.7	ug/L	0.35
trans-1,2-Dichloroethene	2.9	1.7	ug/L	0.27
1,2-Dichloropropane	ND	1.7	ug/L	0.25
cis-1,3-Dichloropropene	ND	1.7	ug/L	0.20
trans-1,3-Dichloropropene	ND	1.7	ug/L	0.28
Ethylbenzene	ND	1.7	ug/L	0.32
2-Hexanone	ND	84	ug/L	0.58
Isopropylbenzene	ND	8.4	ug/L	0.25
Methyl acetate	ND	17	ug/L	0.87
Methylene chloride	ND	8.4	ug/L	0.32
Methylcyclohexane	ND	1.7	ug/L	0.84
4-Methyl-2-pentanone	ND	84	ug/L	0.53
Methyl tert-butyl ether	1.3 J	8.4	ug/L	0.30
Styrene	ND	1.7	ug/L	0.22

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072704-DCR-177

GC/MS Volatiles

Lot-Sample #...: A4G280151-007 Work Order #...: GL1H71AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.7	ug/L	0.37
Tetrachloroethene	15	1.7	ug/L	0.32
Toluene	1.8	1.7	ug/L	0.28
1,2,4-Trichloro- benzene	ND	8.4	ug/L	0.32
1,1,1-Trichloroethane	ND	1.7	ug/L	0.35
1,1,2-Trichloroethane	ND	1.7	ug/L	0.37
Trichloroethene	19	1.7	ug/L	0.47
Trichlorofluoromethane	ND	1.7	ug/L	0.27
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.7	ug/L	0.43
Vinyl chloride	ND	1.7	ug/L	0.35
Xylenes (total)	ND	5.0	ug/L	0.73

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	96	(73 - 122)
1,2-Dichloroethane-d4	90	(61 - 128)
Toluene-d8	101	(76 - 110)
4-Bromofluorobenzene	100	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072704-DCR-178

GC/MS Volatiles

Lot-Sample #....: A4G280151-008 Work Order #....: GL1H81AA Matrix.....: WG
 Date Sampled...: 07/27/04 Date Received...: 07/28/04
 Prep Date.....: 07/29/04 Analysis Date...: 07/29/04
 Prep Batch #....: 4212184
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	1.6 J,B	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	0.37 J	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	0.80 J	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072704-DCR-178

GC/MS Volatiles

Lot-Sample #....: A4G280151-008 Work Order #....: GL1H81AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	92	(73 - 122)
1,2-Dichloroethane-d4	90	(61 - 128)
Toluene-d8	97	(76 - 110)
4-Bromofluorobenzene	93	(74 - 116)

NOTE (S) :

J Estimated result. Result is less than RL.

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4G280151
 MB Lot-Sample #: A4G300000-184
 Analysis Date...: 07/29/04
 Dilution Factor: 1

Work Order #...: GL60N1AA
 Prep Date.....: 07/29/04
 Prep Batch #...: 4212184
 Initial Wgt/Vol: 5 mL

Matrix.....: WATER
 Final Wgt/Vol...: 5 mL

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	0.75 J	25	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	25	ug/L	SW846 8260B
Carbon disulfide	ND	5.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Cyclohexane	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	50	ug/L	SW846 8260B
Isopropylbenzene	ND	5.0	ug/L	SW846 8260B
Methyl acetate	ND	10	ug/L	SW846 8260B
Methylene chloride	ND	5.0	ug/L	SW846 8260B
Methylcyclohexane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	50	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4G280151

Work Order #...: GL60N1AA

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
1,2,4-Trichloro- benzene	ND	5.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	3.0	ug/L	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	97	(73 - 122)
1,2-Dichloroethane-d4	91	(61 - 128)
Toluene-d8	95	(76 - 110)
4-Bromofluorobenzene	97	(74 - 116)

NOTE (S) :

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

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A4G280151 Work Order #...: GL60N1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4G300000-184 GL60N1AD-LCSD
 Prep Date.....: 07/29/04 Analysis Date...: 07/29/04
 Prep Batch #...: 4212184
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Benzene	10	9.6	ug/L	96		SW846 8260B
	10	10	ug/L	100	4.1	SW846 8260B
Chlorobenzene	10	9.3	ug/L	93		SW846 8260B
	10	9.6	ug/L	96	3.3	SW846 8260B
1,1-Dichloroethene	10	8.8	ug/L	88		SW846 8260B
	10	8.2	ug/L	82	7.1	SW846 8260B
Toluene	10	9.1	ug/L	91		SW846 8260B
	10	9.7	ug/L	97	6.2	SW846 8260B
Trichloroethene	10	9.6	ug/L	96		SW846 8260B
	10	9.9	ug/L	99	3.1	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	96	(73 - 122)
	98	(73 - 122)
1,2-Dichloroethane-d4	101	(61 - 128)
	96	(61 - 128)
Toluene-d8	98	(76 - 110)
	100	(76 - 110)
4-Bromofluorobenzene	101	(74 - 116)
	99	(74 - 116)

NOTE (S) :

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A4G280151 Work Order #...: GL60N1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4G300000-184 GL60N1AD-LCSD
 Prep Date.....: 07/29/04 Analysis Date...: 07/29/04
 Prep Batch #...: 4212184
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	96	(80 - 116)			SW846 8260B
	100	(80 - 116)	4.1	(0-20)	SW846 8260B
Chlorobenzene	93	(76 - 117)			SW846 8260B
	96	(76 - 117)	3.3	(0-20)	SW846 8260B
1,1-Dichloroethene	88	(63 - 130)			SW846 8260B
	82	(63 - 130)	7.1	(0-20)	SW846 8260B
Toluene	91	(74 - 119)			SW846 8260B
	97	(74 - 119)	6.2	(0-20)	SW846 8260B
Trichloroethene	96	(75 - 122)			SW846 8260B
	99	(75 - 122)	3.1	(0-20)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	96	(73 - 122)
	98	(73 - 122)
1,2-Dichloroethane-d4	101	(61 - 128)
	96	(61 - 128)
Toluene-d8	98	(76 - 110)
	100	(76 - 110)
4-Bromofluorobenzene	101	(74 - 116)
	99	(74 - 116)

NOTE (S) :

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A4G280151 Work Order #...: GLQNH1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A4G230398-004 GLQNH1AD-MSD
 Date Sampled...: 07/20/04 09:59 Date Received...: 07/22/04
 Prep Date.....: 07/29/04 Analysis Date...: 07/29/04
 Prep Batch #...: 4212184
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT		METHOD
					RECVRY	RPD	
Benzene	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	9.6	ug/L	96	0.21	SW846 8260B
Chlorobenzene	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	9.1	ug/L	91	1.0	SW846 8260B
1,1-Dichloroethene	0.82	10	9.8	ug/L	89		SW846 8260B
	0.82	10	10	ug/L	92	2.4	SW846 8260B
Toluene	0.27	10	9.5	ug/L	92		SW846 8260B
	0.27	10	9.6	ug/L	93	1.1	SW846 8260B
Trichloroethene	13	10	22	ug/L	93		SW846 8260B
	13	10	23	ug/L	100	3.0	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	92	(73 - 122)
	99	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
	96	(61 - 128)
Toluene-d8	100	(76 - 110)
	97	(76 - 110)
4-Bromofluorobenzene	97	(74 - 116)
	98	(74 - 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 Volatiles

Client Lot #...: A4G280151 Work Order #...: GLQNH1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A4G230398-004 GLQNH1AD-MSD
 Date Sampled...: 07/20/04 09:59 Date Received...: 07/22/04
 Prep Date.....: 07/29/04 Analysis Date...: 07/29/04
 Prep Batch #...: 4212184
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	96	(78 - 118)			SW846 8260B
	96	(78 - 118)	0.21	(0-20)	SW846 8260B
Chlorobenzene	90	(76 - 117)			SW846 8260B
	91	(76 - 117)	1.0	(0-20)	SW846 8260B
1,1-Dichloroethene	89	(62 - 130)			SW846 8260B
	92	(62 - 130)	2.4	(0-20)	SW846 8260B
Toluene	92	(70 - 119)			SW846 8260B
	93	(70 - 119)	1.1	(0-20)	SW846 8260B
Trichloroethene	93	(62 - 130)			SW846 8260B
	100	(62 - 130)	3.0	(0-20)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	92	(73 - 122)
	99	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
	96	(61 - 128)
Toluene-d8	100	(76 - 110)
	97	(76 - 110)
4-Bromofluorobenzene	97	(74 - 116)
	98	(74 - 116)

NOTE (S) :

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

END OF REPORT

REC'D CRA
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4101 Shuffel Drive NW
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ANALYTICAL REPORT

PROJECT NO. 17360-09

GM GRAND RAPIDS

Lot #: A4G290136

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

Ken Kuylen for
Amy L. McCormick
Project Manager

August 24, 2004

ORIGINAL ANALYTICAL REPORT

Project#: 17360-09 Lab#: A4G290136

Name: GM-GR

Description

Event: GW monitoring

Samples: 4 water

Analysis: VOC

TAT: 2 day

Lab: STL

Checked Against Preliminary Data:

Date: 8/27/04 Init: KTR

Date of Validation Memo: 10/21/04

Invoice Approval Date: _____

Comments: _____

CRA

CONESTOGA-ROVERS & ASSOCIATES, INC.

14496 Sheldon Road, Suite 200
Plymouth, MI 48170 • (734) 453-5123

SHIPPED TO (Laboratory Name): *STR - North Canton*

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER: *17360-09*

PROJECT NAME: *Gm Grand Rapids*

SAMPLER'S SIGNATURE: *[Signature]* PRINTED NAME: *David C Rovers*

SEQ. No.	DATE	TIME	SAMPLE TYPE	NO. OF CONTAINERS	PARAMETERS	REMARKS
1	7/22/04	8:25	GWS-17360-072804-D02-179	2	X TCL Vols 48W TAT	
2	10/30			2	X N	
3	10/30			2	X N	
4				1	X	

TOTAL NUMBER OF CONTAINERS: *7*

*CRA contact
Paul Wiseman*

RELINQUISHED BY: *[Signature]* DATE: *7/22/04* TIME: *18:30* RECEIVED BY: 1. _____ DATE: _____ TIME: _____

RELINQUISHED BY: 2. _____ DATE: _____ TIME: _____ RECEIVED BY: 2. _____ DATE: _____ TIME: _____

RELINQUISHED BY: 3. _____ DATE: _____ TIME: _____ RECEIVED BY: 1. _____ DATE: _____ TIME: _____

METHOD OF SHIPMENT: *FED EX* AIR BILL NO. *8393 5588 8853*

White - Fully Executed Copy
Yellow - Receiving Laboratory Copy

Pink - Shipper Copy
Goldendrod - Sampler Copy

SAMPLE TEAM: *David C Rovers*

RECEIVED FOR LABORATORY BY: *[Signature]*
DATE: *7/29/04* TIME: *9:45*

27160



CASE NARRATIVE

CASE NARRATIVE

A4G290136

The following report contains the analytical results for three water samples and one quality control sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM Grand Rapids Site, project number 17360-09. The samples were received July 29, 2004, according to documented sample acceptance procedures.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to the Chemistry Department on August 02, 2004. A summary of QC data for these analyses is included at the back of the report.

STL North Canton attests to the validity of the laboratory data generated by STL facilities reported herein. All analyses performed by STL facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. STL's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

If you have any questions, please call the Project Manager, Amy L. McCormick, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 1.9°C.

See STL's Cooler Receipt Form for additional information.

CASE NARRATIVE (continued)

GC/MS VOLATILES

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The pH of the sample GW-17360-072804-DCR-181 was greater than 2. The sample(s) was analyzed within the normal 14 day holding time; however, experimental evidence suggests that some aromatic compounds in wastewater samples, notably Benzene, Toluene, and Ethylbenzene are susceptible to biological degradation if samples are not preserved to a pH of 2.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed below.)

Volatile (GC or GC/MS)

Methylene chloride
Acetone
2-Butanone

Semivolatile (GC/MS)

Phthalate Esters

Metals

Copper
Iron
Zinc
Lead*

- *for analyses run on TJA Trace ICP, ICPMS or GFAA only*

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria do not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is repped and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be repped and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide, PCB, and PAH methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria.

STL North Canton Certifications and Approvals:

Alabama (#41170), California (#01144CA), Connecticut (#PH-0590), Florida (#E87225), Illinois (#100439), Kansas (#E10336), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Ohio (#6090), OhioVAP (#CL0024), Rhode Island (#237), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), Utah (#QUAN9), Virginia (#00011), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence – Participating Lab Status Award (#82)





STL

***EXECUTIVE
SUMMARY***

EXECUTIVE SUMMARY - Detection Highlights

AAG290136

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
GW-17360-072804-DCR-179 07/28/04 08:25 001				
Acetone	4.5 J	25	ug/L	SW846 8260B
Benzene	0.34 J	1.0	ug/L	SW846 8260B
Bromodichloromethane	0.47 J	1.0	ug/L	SW846 8260B
Carbon disulfide	0.58 J	5.0	ug/L	SW846 8260B
Chloroform	1.9	1.0	ug/L	SW846 8260B
Chloromethane	0.16 J	1.0	ug/L	SW846 8260B
Cyclohexane	0.20 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	11	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	1.3	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	1.7 J	5.0	ug/L	SW846 8260B
Tetrachloroethene	1.2	1.0	ug/L	SW846 8260B
Toluene	1.4	1.0	ug/L	SW846 8260B
Trichloroethene	7.4	1.0	ug/L	SW846 8260B
GW-17360-072804-DCR-180 07/28/04 10:30 002				
Acetone	2.3 J	25	ug/L	SW846 8260B
Benzene	0.38 J	1.0	ug/L	SW846 8260B
Chloroform	2.3	1.0	ug/L	SW846 8260B
Cyclohexane	0.23 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	25	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	3.0	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	2.5 J	5.0	ug/L	SW846 8260B
Tetrachloroethene	3.3	1.0	ug/L	SW846 8260B
Toluene	2.0	1.0	ug/L	SW846 8260B
Trichloroethene	17	1.0	ug/L	SW846 8260B
GW-17360-072804-DCR-181 07/28/04 16:55 003				
Acetone	5.6 J	25	ug/L	SW846 8260B
Benzene	0.42 J	1.0	ug/L	SW846 8260B
2-Butanone	1.8 J	25	ug/L	SW846 8260B
Cyclohexane	0.25 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	2.0	1.0	ug/L	SW846 8260B
Ethylbenzene	0.19 J	1.0	ug/L	SW846 8260B
Toluene	0.91 J	1.0	ug/L	SW846 8260B
Trichloroethene	6.5	1.0	ug/L	SW846 8260B
Vinyl chloride	1.2	1.0	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4G290136

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
GW-17360-072804-DCR-182 07/28/04 004				
Acetone	1.6 J	25	ug/L	SW846 8260B
2-Butanone	0.66 J	25	ug/L	SW846 8260B
Carbon disulfide	0.66 J	5.0	ug/L	SW846 8260B
Methylene chloride	1.5 J	5.0	ug/L	SW846 8260B

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A4G290136

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SAMPLE SUMMARY

A4G290136

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
GL346	001	GW-17360-072804-DCR-179	07/28/04	08:25
GL35H	002	GW-17360-072804-DCR-180	07/28/04	10:30
GL35J	003	GW-17360-072804-DCR-181	07/28/04	16:55
GL35L	004	GW-17360-072804-DCR-182	07/28/04	

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 filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.



***SHIPPING
AND
RECEIVING DOCUMENTS***

**Severn Trent Laboratories, Inc.
Sample Control Record**

RSR280
 Client: 57787
 Lot #: AAG290136
 Case Number/SDG: 17360-09
 Storage Location: MS

Laboratory Sample I.D.	Transferred By	Date	Entered	Removed	Reason	Date Returned
GL346	EARLES	7/29/04	Yes		Storage	
GL35H	EARLES	7/29/04	Yes		Storage	
GL35J	EARLES	7/29/04	Yes		Storage	
GL35I,	EARLES	7/29/04	Yes		Storage	

STL Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: A46-LT-131

Client: GA Project: Gun Guard Radio Quote#: 1
 Cooler Received on: 2/29/14 Opened on: 4/29/14 by: Anna Sanders
 (Signature)

Fedx Client Drop Off UPS DHL FAS Other: _____
 STL Cooler No# _____ Foam Box Client Cooler Other _____

1. Were custody seals on the outside of the cooler? Yes No Intact? Yes No NA
 If YES, Quantity _____
 Were the custody seals signed and dated? Yes No NA
 2. Shipper's packing slip attached to this form? Yes No NA
 3. Did custody papers accompany the samples? Yes No
 4. Did you sign the custody papers in the appropriate place? Yes No
 5. Packing material used: Bubble Wrap Foam None Other: _____
 6. Cooler temperature upon receipt 1.9 °C (see back of form for multiple coolers/temp)
 METHOD: Temp Vial Coolant & Sample Against Bottles IR ICE/H₂O Slurry
 COOLANT: Wet Ice Blue Ice Dry Ice Water None
 7. Did all bottles arrive in good condition (Unbroken)? Yes No
 8. Could all bottle labels and/or tags be reconciled with the COC? Yes No
 9. Were samples at the correct pH? (record below/on back) Yes No NA
 10. Were correct bottles used for the tests indicated? Yes No
 11. Were air bubbles >6 mm in any VOA vials? Yes No NA
 12. Sufficient quantity received to perform indicated analyses? Yes No
- Contacted PM _____ Date: _____ by: _____ via Voice Mail Verbal Other

Concerning:

1. CHAIN OF CUSTODY

The following discrepancies occurred:
Sample ID not completed on vials - log removed

2. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). Nitric Acid Lot #032804-HNO₃; Sulfuric Acid Lot # 011-504-H₂SO₄; Sodium Hydroxide Lot #-031804-NaOH; Hydrochloric Acid Lot # 100902-HCl; Sodium Hydroxide and Zinc Acetate Lot # 112801-CH₃COO₂Zn/NaOH
 Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. Other (see below or back)

Client ID	pH	Date	Initials

STL Cooler Receipt Form/Narrative North Canton Facility

Client ID	pH	Date	Initials

Cooler	Temp	Method	Coolant

Discrepancies Cont.

GCMS VOLATILE DATA

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072804-DCR-179

GC/MS Volatiles

Lot-Sample #...: A4G290136-001 Work Order #...: GL3461AA Matrix.....: WG
 Date Sampled...: 07/28/04 08:25 Date Received...: 07/29/04
 Prep Date.....: 07/30/04 Analysis Date...: 07/30/04
 Prep Batch #...: 4215204
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	4.5 J	25	ug/L	0.74
Benzene	0.34 J	1.0	ug/L	0.22
Bromodichloromethane	0.47 J	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	0.58 J	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	1.9	1.0	ug/L	0.16
Chloromethane	0.16 J	1.0	ug/L	0.14
Cyclohexane	0.20 J	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	11	1.0	ug/L	0.21
trans-1,2-Dichloroethene	1.3	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	1.7 J	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

(Continued on next page)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072804-DCR-179

GC/MS Volatiles

Lot-Sample #...: A4G290136-001 Work Order #...: GL3461AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	1.2	1.0	ug/L	0.19
Toluene	1.4	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	7.4	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44
	<u>PERCENT</u>	<u>RECOVERY</u>		
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>		
Dibromofluoromethane	98	(73 - 122)		
1,2-Dichloroethane-d4	92	(61 - 128)		
Toluene-d8	87	(76 - 110)		
4-Bromofluorobenzene	81	(74 - 116)		

NOTE(S):

I Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072804-DCR-180

GC/MS Volatiles

Lot-Sample #...: A4G290136-002 Work Order #...: GL35H1AA Matrix.....: WG
 Date Sampled...: 07/28/04 10:30 Date Received...: 07/29/04
 Prep Date.....: 07/30/04 Analysis Date...: 07/30/04
 Prep Batch #...: 4215204
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	2.3 J	25	ug/L	0.74
Benzene	0.38 J	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	2.3	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	0.23 J	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	25	1.0	ug/L	0.21
trans-1,2-Dichloroethene	3.0	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	2.5 J	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

(Continued on next page)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072804-DCR-180

GC/MS Volatiles

Lot-Sample #....: A4G290136-002 Work Order #....: GL35H1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	3.3	1.0	ug/L	0.19
Toluene	2.0	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	17	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	96	(73 - 122)
1,2-Dichloroethane-d4	92	(61 - 128)
Toluene-d8	88	(76 - 110)
4-Bromofluorobenzene	78	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072804-DCR-181

GC/MS Volatiles

Lot-Sample #....: A4G290136-003 Work Order #....: GL35J1AA Matrix.....: WG
 Date Sampled....: 07/28/04 16:55 Date Received...: 07/29/04
 Prep Date.....: 07/30/04 Analysis Date...: 07/30/04
 Prep Batch #....: 4215204
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	5.6 J	25	ug/L	0.74
Benzene	0.42 J	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	1.8 J	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	0.25 J	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	2.0	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	0.19 J	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072804-DCR-181

GC/MS Volatiles

Lot-Sample #...: A4G290136-003 Work Order #...: GL35J1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	0.91 J	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	6.5	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	1.2	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	96	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	87	(76 - 110)
4-Bromofluorobenzene	77	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072804-DCR-182

GC/MS Volatiles

Lot-Sample #....: A4G290136-004 Work Order #....: GL35L1AA Matrix.....: WQ
 Date Sampled....: 07/28/04 Date Received...: 07/29/04
 Prep Date.....: 07/30/04 Analysis Date...: 07/30/04
 Prep Batch #....: 4215204
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	1.6 J	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	0.66 J	25	ug/L	0.39
Carbon disulfide	0.66 J	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	1.5 J	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072804-DCR-182

GC/MS Volatiles

Lot-Sample #....: A4G290136-004 Work Order #....: GL35L1AA Matrix.....: WQ

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	101	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	87	(76 - 110)
4-Bromofluorobenzene	79	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4G290136
 MB Lot-Sample #: A4H020000-204

Work Order #...: GMAJ21AA

Matrix.....: WATER

Analysis Date...: 07/30/04
 Dilution Factor: 1

Prep Date.....: 07/30/04

Final Wgt/Vol...: 5 mL

Prep Batch #...: 4215204

Initial Wgt/Vol: 5 mL

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	ND	25	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	25	ug/L	SW846 8260B
Carbon disulfide	ND	5.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Cyclohexane	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	50	ug/L	SW846 8260B
Isopropylbenzene	0.45 J	5.0	ug/L	SW846 8260B
Methyl acetate	ND	10	ug/L	SW846 8260B
Methylene chloride	ND	5.0	ug/L	SW846 8260B
Methylcyclohexane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	50	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4G290136

Work Order #...: GMAJ21AA

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
1,2,4-Trichloro- benzene	ND	5.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	3.0	ug/L	SW846 8260B
<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>		
	<u>RECOVERY</u>	<u>LIMITS</u>		
Dibromofluoromethane	95	(73 - 122)		
1,2-Dichloroethane-d4	92	(61 - 128)		
Toluene-d8	86	(76 - 110)		
4-Bromofluorobenzene	80	(74 - 116)		

NOTE(S):

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

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A4G290136 Work Order #....: GMAJ21AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4H020000-204 GMAJ21AD-LCSD
 Prep Date.....: 07/30/04 Analysis Date...: 07/30/04
 Prep Batch #....: 4215204
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Benzene	10	9.3	ug/L	93		SW846 8260B
	10	9.5	ug/L	95	2.9	SW846 8260B
Chlorobenzene	10	10	ug/L	101		SW846 8260B
	10	10	ug/L	100	0.90	SW846 8260B
1,1-Dichloroethene	10	10	ug/L	103		SW846 8260B
	10	10	ug/L	103	0.030	SW846 8260B
Toluene	10	11	ug/L	106		SW846 8260B
	10	10	ug/L	104	2.5	SW846 8260B
Trichloroethene	10	9.5	ug/L	95		SW846 8260B
	10	9.5	ug/L	95	0.52	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	90	(73 - 122)
	92	(73 - 122)
1,2-Dichloroethane-d4	83	(61 - 128)
	87	(61 - 128)
Toluene-d8	97	(76 - 110)
	97	(76 - 110)
4-Bromofluorobenzene	99	(74 - 116)
	98	(74 - 116)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A4G290136 Work Order #....: GMAJ21AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4H020000-204 GMAJ21AD-LCSD
 Prep Date.....: 07/30/04 Analysis Date...: 07/30/04
 Prep Batch #....: 4215204
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	93	(80 - 116)			SW846 8260B
	95	(80 - 116)	2.9	(0-20)	SW846 8260B
Chlorobenzene	101	(76 - 117)			SW846 8260B
	100	(76 - 117)	0.90	(0-20)	SW846 8260B
1,1-Dichloroethene	103	(63 - 130)			SW846 8260B
	103	(63 - 130)	0.030	(0-20)	SW846 8260B
Toluene	106	(74 - 119)			SW846 8260B
	104	(74 - 119)	2.5	(0-20)	SW846 8260B
Trichloroethene	95	(75 - 122)			SW846 8260B
	95	(75 - 122)	0.52	(0-20)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	90	(73 - 122)
	92	(73 - 122)
1,2-Dichloroethane-d4	83	(61 - 128)
	87	(61 - 128)
Toluene-d8	97	(76 - 110)
	97	(76 - 110)
4-Bromofluorobenzene	99	(74 - 116)
	98	(74 - 116)

NOTE (S) :

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A4G290136 Work Order #....: GLQNX1AD-MS Matrix.....: WATER
 MS Lot-Sample #: A4G230398-010 GLQNX1AE-MSD
 Date Sampled...: 07/22/04 08:00 Date Received...: 07/22/04
 Prep Date.....: 07/30/04 Analysis Date...: 07/30/04
 Prep Batch #....: 4215204
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Benzene	0.24	10	9.2	ug/L	89		SW846 8260B
	0.24	10	9.3	ug/L	91	1.5	SW846 8260B
Chlorobenzene	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	9.5	ug/L	95	1.2	SW846 8260B
1,1-Dichloroethene	ND	10	9.7	ug/L	97		SW846 8260B
	ND	10	9.8	ug/L	98	0.49	SW846 8260B
Toluene	0.78	10	11	ug/L	100		SW846 8260B
	0.78	10	11	ug/L	98	2.0	SW846 8260B
Trichloroethene	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	9.2	ug/L	92	2.4	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	92	(73 - 122)
	90	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
	87	(61 - 128)
Toluene-d8	96	(76 - 110)
	94	(76 - 110)
4-Bromofluorobenzene	102	(74 - 116)
	98	(74 - 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 Volatiles

Client Lot #...: A4G290136 Work Order #...: GLQNX1AD-MS Matrix.....: WATER
 MS Lot-Sample #: A4G230398-010 GLQNX1AE-MSD
 Date Sampled...: 07/22/04 08:00 Date Received...: 07/22/04
 Prep Date.....: 07/30/04 Analysis Date...: 07/30/04
 Prep Batch #...: 4215204
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	89	(78 - 118)			SW846 8260B
	91	(78 - 118)	1.5	(0-20)	SW846 8260B
Chlorobenzene	96	(76 - 117)			SW846 8260B
	95	(76 - 117)	1.2	(0-20)	SW846 8260B
1,1-Dichloroethene	97	(62 - 130)			SW846 8260B
	98	(62 - 130)	0.49	(0-20)	SW846 8260B
Toluene	100	(70 - 119)			SW846 8260B
	98	(70 - 119)	2.0	(0-20)	SW846 8260B
Trichloroethene	90	(62 - 130)			SW846 8260B
	92	(62 - 130)	2.4	(0-20)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	92	(73 - 122)
	90	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
	87	(61 - 128)
Toluene-d8	96	(76 - 110)
	94	(76 - 110)
4-Bromofluorobenzene	102	(74 - 116)
	98	(74 - 116)

NOTE(S):

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

END OF REPORT

REC'D CRA
AUG 30
CRA SDG G-23

SEVERN
TRENT

STL

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720

Tel: 330 497 9396 Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 17360-09

GM GRAND RAPIDS

Lot #: A4G300129

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT

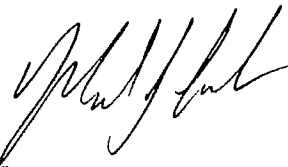
Project#: 17360-09 Lab#: A4G300129
Name: GM GRAND RAPIDS.

Description

SEVERN TRENT LABORATORIES, IN Event: GW MONITORING
Samples: 3 waters DCR 183-190
Analysis: TCL VOCs.

TAT: 24 HOUR TAT

Lab: STL-NC.


FOR Amy L. McCormick
Project Manager

Checked Against Preliminary Data:
Date: N/A Init.: N/A.

Date of Validation Memo: 10/21/04

Invoice Approval Date: _____

Comments: _____

August 25, 2004

CRA

CONESTOGA-ROVERS & ASSOCIATES, INC.
 14496 Sheldon Road, Suite 200
 Plymouth, MI 48170 • (734) 453-5123

SHIPPED TO (Laboratory Name):

STL - North Canton

REFERENCE NUMBER:

17360-09

PROJECT NAME:

GM Grand Rapids

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE:

[Signature]

PRINTED NAME:

David Rivers

SEQ. No. DATE TIME

1 7/29/04 850
 2 855
 3 930
 4 1030
 5 1210
 6 1330
 7 1445
 8 1600

SAMPLE TYPE

1720

PARAMETERS
 TEL VOCs
 24hr TAT

REMARKS

SEQ. No.	DATE	TIME	SAMPLE TYPE	No. OF CONTAINERS	PARAMETERS	REMARKS
1	7/29/04	850	1720	2	X	
2		855		2	X	
3		930		3	X	
4		1030		3	X	
5		1210		3	X	
6		1330		6	X	MS/mSD
7		1445		3	X	
8		1600		3	X	

TOTAL NUMBER OF CONTAINERS

25

CRA Contact
 Paul Wiseman

1. RELINQUISHED BY: *[Signature]*

DATE: 7-29-04
 TIME: 1930

RECEIVED BY: 1.

DATE: TIME:

2. RELINQUISHED BY:

DATE: TIME:

RECEIVED BY: 2.

DATE: TIME:

3. RELINQUISHED BY:

DATE: TIME:

RECEIVED BY: 3.

DATE: TIME:

METHOD OF SHIPMENT: **FED EX**

AIR BILL NO. 8393 5588 8842

Write Fully Executed Copy - Receiving Laboratory Copy
 Yellow - Shipper Copy - Sampler Copy
 Pink - Goldenrod

SAMPLE TEAM: *David Rivers*

RECEIVED FOR LABORATORY BY: *Matthew G. B. [Signature]*

27161

DATE: 7-30-04 TIME: 9:15



CASE NARRATIVE

CASE NARRATIVE

A4G300129

The following report contains the analytical results for eight water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM Grand Rapids Site, project number 17360-09. The samples were received July 30, 2004, according to documented sample acceptance procedures.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to the Chemistry Department on August 02, 2004. A summary of QC data for these analyses is included at the back of the report.

STL North Canton attests to the validity of the laboratory data generated by STL facilities reported herein. All analyses performed by STL facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. STL's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

If you have any questions, please call the Project Manager, Amy L. McCormick, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 3.3°C.

CASE NARRATIVE (continued)

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed below.)

Volatile (GC or GC/MS)

Methylene chloride

Acetone

2-Butanone

Semivolatile (GC/MS)

Phthalate Esters

Metals

Copper

Iron

Zinc

Lead*

- *for analyses run on TJA Trace ICP, ICPMS or GFAA only*

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria do not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is repped and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be repped and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide, PCB, and PAH methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria.



STL North Canton Certifications and Approvals:

Alabama (#41170), California (#01144CA), Connecticut (#PH-0590), Florida (#E87225), Illinois (#100439), Kansas (#E10336), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Ohio (#6090), Ohio VAP (#CL0024), Rhode Island (#237), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), Utah (#QUAN9), Virginia (#00011), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence – Participating Lab Status Award (#82)

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***EXECUTIVE
SUMMARY***

EXECUTIVE SUMMARY - Detection Highlights

A4G300129

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
GW-17360-072904-DCR-183 07/29/04 08:50 001				
Benzene	0.26 J	1.0	ug/L	SW846 8260B
Bromodichloromethane	0.76 J	1.0	ug/L	SW846 8260B
Chloroform	1.4	1.0	ug/L	SW846 8260B
Cyclohexane	0.52 J	1.0	ug/L	SW846 8260B
Dibromochloromethane	0.76 J	1.0	ug/L	SW846 8260B
Ethylbenzene	0.61 J	1.0	ug/L	SW846 8260B
Methylcyclohexane	0.68 J	1.0	ug/L	SW846 8260B
Toluene	1.2 B	1.0	ug/L	SW846 8260B
Xylenes (total)	1.8 J	3.0	ug/L	SW846 8260B
GW-17360-072904-DCR-184 07/29/04 08:55 002				
Benzene	0.26 J	1.0	ug/L	SW846 8260B
Bromodichloromethane	0.84 J	1.0	ug/L	SW846 8260B
Chloroform	1.3	1.0	ug/L	SW846 8260B
Cyclohexane	0.52 J	1.0	ug/L	SW846 8260B
Dibromochloromethane	0.73 J	1.0	ug/L	SW846 8260B
Ethylbenzene	0.63 J	1.0	ug/L	SW846 8260B
Methylcyclohexane	0.72 J	1.0	ug/L	SW846 8260B
Toluene	1.2 B	1.0	ug/L	SW846 8260B
Xylenes (total)	1.8 J	3.0	ug/L	SW846 8260B
GW-17360-072904-DCR-185 07/29/04 09:30 003				
Bromodichloromethane	5.5	1.0	ug/L	SW846 8260B
Chloroform	8.2	1.0	ug/L	SW846 8260B
Dibromochloromethane	2.9	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	0.87 J	50	ug/L	SW846 8260B
Toluene	2.9 B	1.0	ug/L	SW846 8260B
GW-17360-072904-DCR-186 07/29/04 10:30 004				
Benzene	0.24 J	1.0	ug/L	SW846 8260B
Bromodichloromethane	1.7	1.0	ug/L	SW846 8260B
Chloroform	2.5	1.0	ug/L	SW846 8260B
Cyclohexane	0.47 J	1.0	ug/L	SW846 8260B
Dibromochloromethane	1.1	1.0	ug/L	SW846 8260B
Ethylbenzene	0.56 J	1.0	ug/L	SW846 8260B
Methylcyclohexane	0.62 J	1.0	ug/L	SW846 8260B
Toluene	1.7 B	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	0.22 J	1.0	ug/L	SW846 8260B
Xylenes (total)	1.6 J	3.0	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4G300129

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
GW-17360-072904-DCR-187 07/29/04 12:10 005				
Benzene	0.24 J	1.0	ug/L	SW846 8260B
Bromodichloromethane	3.7	1.0	ug/L	SW846 8260B
Chloroform	6.0	1.0	ug/L	SW846 8260B
Cyclohexane	0.46 J	1.0	ug/L	SW846 8260B
Dibromochloromethane	1.9	1.0	ug/L	SW846 8260B
Ethylbenzene	0.54 J	1.0	ug/L	SW846 8260B
Methylcyclohexane	0.64 J	1.0	ug/L	SW846 8260B
Toluene	3.5 B	1.0	ug/L	SW846 8260B
Xylenes (total)	1.6 J	3.0	ug/L	SW846 8260B
GW-17360-072904-DCR-188 07/29/04 13:30 006				
Benzene	0.41 J	1.0	ug/L	SW846 8260B
Bromodichloromethane	2.1	1.0	ug/L	SW846 8260B
Chloroform	4.0	1.0	ug/L	SW846 8260B
Cyclohexane	0.65 J	1.0	ug/L	SW846 8260B
Dibromochloromethane	1.2	1.0	ug/L	SW846 8260B
Ethylbenzene	0.60 J	1.0	ug/L	SW846 8260B
Methylcyclohexane	0.76 J	1.0	ug/L	SW846 8260B
Toluene	2.7 B	1.0	ug/L	SW846 8260B
Xylenes (total)	1.7 J	3.0	ug/L	SW846 8260B
GW-17360-072904-DCR-189 07/29/04 14:45 007				
Acetone	1.0 J	25	ug/L	SW846 8260B
Benzene	0.35 J	1.0	ug/L	SW846 8260B
Bromodichloromethane	3.0	1.0	ug/L	SW846 8260B
2-Butanone	0.53 J	25	ug/L	SW846 8260B
Chloroform	6.4	1.0	ug/L	SW846 8260B
Cyclohexane	0.52 J	1.0	ug/L	SW846 8260B
Dibromochloromethane	1.7	1.0	ug/L	SW846 8260B
Ethylbenzene	0.59 J	1.0	ug/L	SW846 8260B
Methylcyclohexane	0.71 J	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	0.92 J	50	ug/L	SW846 8260B
Toluene	4.5 B	1.0	ug/L	SW846 8260B
Xylenes (total)	1.7 J	3.0	ug/L	SW846 8260B
GW-17360-072904-DCR-190 07/29/04 16:00 008				
Acetone	1.0 J	25	ug/L	SW846 8260B
Benzene	0.32 J	1.0	ug/L	SW846 8260B
Bromodichloromethane	3.1	1.0	ug/L	SW846 8260B
2-Butanone	0.56 J	25	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4G300129

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
GW-17360-072904-DCR-190 07/29/04 16:00 008				
Chloroform	6.0	1.0	ug/L	SW846 8260B
Cyclohexane	0.47 J	1.0	ug/L	SW846 8260B
Dibromochloromethane	1.7	1.0	ug/L	SW846 8260B
Ethylbenzene	0.57 J	1.0	ug/L	SW846 8260B
Methylcyclohexane	0.71 J	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	0.90 J	50	ug/L	SW846 8260B
Toluene	4.8 B	1.0	ug/L	SW846 8260B
Xylenes (total)	1.7 J	3.0	ug/L	SW846 8260B

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A4G300129

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SEVERN
TRENT

STL

SAMPLE SUMMARY

SAMPLE SUMMARY

A4G300129

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
GL6LF	001	GW-17360-072904-DCR-183	07/29/04	08:50
GL6LH	002	GW-17360-072904-DCR-184	07/29/04	08:55
GL6LJ	003	GW-17360-072904-DCR-185	07/29/04	09:30
GL6LL	004	GW-17360-072904-DCR-186	07/29/04	10:30
GL6LR	005	GW-17360-072904-DCR-187	07/29/04	12:10
GL6LV	006	GW-17360-072904-DCR-188	07/29/04	13:30
GL6LX	007	GW-17360-072904-DCR-189	07/29/04	14:45
GL6LI	008	GW-17360-072904-DCR-190	07/29/04	16:00

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 filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

***SHIPPING
AND
RECEIVING DOCUMENTS***

CRA

CONESTOGA-ROVERS & ASSOCIATES, INC.
14496 Sheldon Road, Suite 200
Plymouth, MI 48170 • (734) 453-5123

SHIPPED TO (Laboratory Name):

STL - North Canton

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER:
17360-09

PROJECT NAME: GM Grand Rapids

SAMPLER'S SIGNATURE: *[Signature]* PRINTED NAME: David C. Rivers

SEQ. No.	DATE	TIME	SAMPLE TYPE	NO. OF CONTAINERS	PARAMETERS	REMARKS
1	7/29/04	850	Gu-17360-072904-DCA-183	2	TEL VOCS	
2		855		2	29W TBT	
3		930		3		
4		1030		3		
5		120		3		
6		1330		6		MS/MSD
7		1445		3		
8		1600		3		

TOTAL NUMBER OF CONTAINERS 25

RELINQUISHED BY: <i>[Signature]</i>	DATE: 7-29-04	RECEIVED BY: 1.	DATE:
RELINQUISHED BY:	DATE: 1930	RECEIVED BY: 2.	DATE:
RELINQUISHED BY:	DATE:	RECEIVED BY: 1.	DATE:

METHOD OF SHIPMENT: **FEDEX**

AIR BILL No. **8393 5588 8842**

White - Fully Executed Copy Pink - Shipper Copy
 Yellow - Receiving Laboratory Copy Goldendrod - Sampler Copy

SAMPLE TEAM: *David Rivers*

RECEIVED FOR LABORATORY BY: *[Signature]*
 DATE: 7-30-04 TIME: 9:15

RSR280

Client:

57787

Lot #:

A4G300129

Case Number/SDG:

17360-09

Storage Location: MS

Severn Trent Laboratories, Inc.
Sample Control Record

Laboratory Sample I.D.	Transferred By	Date	Entered	Removed	Reason	Date Returned
GL6LF	SANDERSA	7/30/04	Yes		Storage	
GL6LH	SANDERSA	7/30/04	Yes		Storage	
GL6LJ	SANDERSA	7/30/04	Yes		Storage	
GL6LI	SANDERSA	7/30/04	Yes		Storage	
GL6LR	SANDERSA	7/30/04	Yes		Storage	
GL6LV	SANDERSA	7/30/04	Yes		Storage	
GL6LX	SANDERSA	7/30/04	Yes		Storage	
GL6LI	SANDERSA	7/30/04	Yes		Storage	

STL Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: PHG300129

Client: CRA Project: Om Grand Rapids Quote#: _____
 Cooler Received on: 7-30-04 Opened on: 7-30-04 by: Natalie J. Buhler
 (Signature)

Fedx Client Drop Off UPS DHL FAS Other: _____
 STL Cooler No# _____ Foam Box Client Cooler Other _____

- Were custody seals on the outside of the cooler? Yes No Intact? Yes No NA
 If YES, Quantity _____
 Were the custody seals signed and dated? Yes No NA
 - Shipper's packing slip attached to this form? Yes No NA
 - Did custody papers accompany the samples? Yes No Relinquished by client? Yes No
 - Did you sign the custody papers in the appropriate place? Yes No
 - Packing material used: Bubble Wrap Foam None Other: _____
 - Cooler temperature upon receipt 3.3 °C (see back of form for multiple coolers/temp)
 METHOD: Temp Vial Coolant & Sample Against Bottles IR ICE/H₂O Slurry
 COOLANT: Wet Ice Blue Ice Dry Ice Water None
 - Did all bottles arrive in good condition (Unbroken)? Yes No
 - Could all bottle labels and/or tags be reconciled with the COC? Yes No
 - Were samples at the correct pH? (record below/on back) Yes No NA
 - Were correct bottles used for the tests indicated? Yes No
 - Were air bubbles >6 mm in any VOA vials? Yes No NA
 - Sufficient quantity received to perform indicated analyses? Yes No
- Contacted PM _____ Date: _____ by: _____ via Voice Mail Verbal Other

Concerning:

1. CHAIN OF CUSTODY

The following discrepancies occurred:
COC = GW-11360-072904-DR-183.
190 } labels = 183, 184, 185,
186, 187, 188,
-will log 190
per COC per file

2. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). Nitric Acid Lot #032804-HNO₃; Sulfuric Acid Lot # 011-304-H₂SO₄; Sodium Hydroxide Lot # -031804-NaOH; Hydrochloric Acid Lot # 100902-HCl; Sodium Hydroxide and Zinc Acetate Lot # 112801-CH₃COO₂ZN/NaOH
 Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. Other (see below or back)

Client ID	pH	Date	Initials

GCMS VOLATILE DATA

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072904-DCR-183

GC/MS Volatiles

Lot-Sample #...: A4G300129-001 Work Order #...: GL6LF1AA Matrix.....: WG
 Date Sampled...: 07/29/04 08:50 Date Received...: 07/30/04
 Prep Date.....: 07/31/04 Analysis Date...: 07/31/04
 Prep Batch #...: 4213117
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	0.74
Benzene	0.26 J	1.0	ug/L	0.22
Bromodichloromethane	0.76 J	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	1.4	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	0.52 J	1.0	ug/L	0.12
Dibromochloromethane	0.76 J	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	0.61 J	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	0.68 J	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072904-DCR-183

GC/MS Volatiles

Lot-Sample #....: A4G300129-001 Work Order #....: GL6LF1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	1.2 B	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	1.8 J	3.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(73 - 122)
1,2-Dichloroethane-d4	85	(61 - 128)
Toluene-d8	87	(76 - 110)
4-Bromofluorobenzene	76	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072904-DCR-184

GC/MS Volatiles

Lot-Sample #...: A4G300129-002 Work Order #...: GL6LH1AA Matrix.....: WG
 Date Sampled...: 07/29/04 08:55 Date Received...: 07/30/04
 Prep Date.....: 07/31/04 Analysis Date...: 07/31/04
 Prep Batch #...: 4213117
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	0.74
Benzene	0.26 J	1.0	ug/L	0.22
Bromodichloromethane	0.84 J	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	1.3	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	0.52 J	1.0	ug/L	0.12
Dibromochloromethane	0.73 J	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	0.63 J	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	0.72 J	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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COMESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072904-DCR-184

GC/MS Volatiles

Lot-Sample #...: A4G300129-002 Work Order #...: GL6LH1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	1.2 B	1.0	ug/L	0.17
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	1.8 J	3.0	ug/L	0.44

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	90	(73 - 122)
1,2-Dichloroethane-d4	86	(61 - 128)
Toluene-d8	86	(76 - 110)
4-Bromofluorobenzene	76	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072904-DCR-185

GC/MS Volatiles

Lot-Sample #....: A4G300129-003 Work Order #....: GL6LJ1AA Matrix.....: WG
 Date Sampled....: 07/29/04 09:30 Date Received...: 07/30/04
 Prep Date.....: 08/01/04 Analysis Date...: 08/01/04
 Prep Batch #....: 4213117
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	5.5	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	8.2	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	2.9	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	0.87 J	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072904-DCR-185

GC/MS Volatiles

Lot-Sample #....: A4G300129-003 Work Order #....: GL6LJ1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	2.9 B	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(73 - 122)
1,2-Dichloroethane-d4	88	(61 - 128)
Toluene-d8	86	(76 - 110)
4-Bromofluorobenzene	76	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072904-DCR-186

GC/MS Volatiles

Lot-Sample #....: A4G300129-004 Work Order #....: GL6LL1AA Matrix.....: WG
 Date Sampled....: 07/29/04 10:30 Date Received...: 07/30/04
 Prep Date.....: 07/31/04 Analysis Date...: 07/31/04
 Prep Batch #....: 4213117
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	0.74
Benzene	0.24 J	1.0	ug/L	0.22
Bromodichloromethane	1.7	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	2.5	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	0.47 J	1.0	ug/L	0.12
Dibromochloromethane	1.1	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	0.56 J	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	0.62 J	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072904-DCR-186

GC/MS Volatiles

Lot-Sample #....: A4G300129-004 Work Order #....: GL6LL1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	1.7 B	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	0.22 J	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	1.6 J	3.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(73 - 122)
1,2-Dichloroethane-d4	87	(61 - 128)
Toluene-d8	89	(76 - 110)
4-Bromofluorobenzene	76	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072904-DCR-187

GC/MS Volatiles

Lot-Sample #....: A4G300129-005 Work Order #....: GL6LR1AA Matrix.....: WG
 Date Sampled....: 07/29/04 12:10 Date Received...: 07/30/04
 Prep Date.....: 07/31/04 Analysis Date...: 07/31/04
 Prep Batch #....: 4213117
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	0.74
Benzene	0.24 J	1.0	ug/L	0.22
Bromodichloromethane	3.7	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	6.0	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	0.46 J	1.0	ug/L	0.12
Dibromochloromethane	1.9	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	0.54 J	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	0.64 J	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072904-DCR-187

GC/MS Volatiles

Lot-Sample #...: A4G300129-005 Work Order #...: GL6LR1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	3.5 B	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	1.6 J	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	92	(73 - 122)
1,2-Dichloroethane-d4	86	(61 - 128)
Toluene-d8	88	(76 - 110)
4-Bromofluorobenzene	78	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072904-DCR-188

GC/MS Volatiles

Lot-Sample #....: A4G300129-006 Work Order #....: GL6LV1AA Matrix.....: WG
 Date Sampled....: 07/29/04 13:30 Date Received...: 07/30/04
 Prep Date.....: 07/31/04 Analysis Date...: 07/31/04
 Prep Batch #....: 4213117
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	0.74
Benzene	0.41 J	1.0	ug/L	0.22
Bromodichloromethane	2.1	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	4.0	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	0.65 J	1.0	ug/L	0.12
Dibromochloromethane	1.2	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	0.60 J	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	0.76 J	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072904-DCR-188

GC/MS Volatiles

Lot-Sample #....: A4G300129-006 Work Order #....: GL6LV1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	2.7 B	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	1.7 J	3.0	ug/L	0.44

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	93	(73 - 122)
1,2-Dichloroethane-d4	90	(61 - 128)
Toluene-d8	88	(76 - 110)
4-Bromofluorobenzene	76	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072904-DCR-189

GC/MS Volatiles

Lot-Sample #....: A4G300129-007 Work Order #....: GL6LX1AA Matrix.....: WG
 Date Sampled....: 07/29/04 14:45 Date Received...: 07/30/04
 Prep Date.....: 07/31/04 Analysis Date...: 07/31/04
 Prep Batch #....: 4213117
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	1.0 J	25	ug/L	0.74
Benzene	0.35 J	1.0	ug/L	0.22
Bromodichloromethane	3.0	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	0.53 J	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	6.4	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	0.52 J	1.0	ug/L	0.12
Dibromochloromethane	1.7	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	0.59 J	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	0.71 J	1.0	ug/L	0.50
4-Methyl-2-pentanone	0.92 J	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

(Continued on next page)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072904-DCR-189

GC/MS Volatiles

Lot-Sample #...: A4G300129-007 Work Order #...: GL6LX1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	4.5 B	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	1.7 J	3.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(73 - 122)
1,2-Dichloroethane-d4	88	(61 - 128)
Toluene-d8	90	(76 - 110)
4-Bromofluorobenzene	81	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072904-DCR-190

GC/MS Volatiles

Lot-Sample #....: A4G300129-008 Work Order #....: GL6L11AA Matrix.....: WG
 Date Sampled....: 07/29/04 16:00 Date Received...: 07/30/04
 Prep Date.....: 07/31/04 Analysis Date...: 07/31/04
 Prep Batch #....: 4213117
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	1.0 J	25	ug/L	0.74
Benzene	0.32 J	1.0	ug/L	0.22
Bromodichloromethane	3.1	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	0.56 J	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	6.0	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	0.47 J	1.0	ug/L	0.12
Dibromochloromethane	1.7	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	0.57 J	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	0.71 J	1.0	ug/L	0.50
4-Methyl-2-pentanone	0.90 J	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

(Continued on next page)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-072904-DCR-190

GC/MS Volatiles

Lot-Sample #...: A4G300129-008 Work Order #...: GL6L11AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	4.8 B	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	1.7 J	3.0	ug/L	0.44

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	88	(73 - 122)
1,2-Dichloroethane-d4	86	(61 - 128)
Toluene-d8	86	(76 - 110)
4-Bromofluorobenzene	76	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4G300129
 MB Lot-Sample #: A4G310000-117
 Analysis Date...: 07/31/04
 Dilution Factor: 1

Work Order #...: GL9141AA
 Prep Date...: 07/31/04
 Prep Batch #...: 4213117
 Initial Wgt/Vol: 5 mL

Matrix...: WATER
 Final Wgt/Vol...: 5 mL

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	ND	25	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	25	ug/L	SW846 8260B
Carbon disulfide	ND	5.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Cyclohexane	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	50	ug/L	SW846 8260B
Isopropylbenzene	ND	5.0	ug/L	SW846 8260B
Methyl acetate	ND	10	ug/L	SW846 8260B
Methylene chloride	ND	5.0	ug/L	SW846 8260B
Methylcyclohexane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	50	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	0.46 J	1.0	ug/L	SW846 8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A4G300129

Work Order #....: GL9141AA

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
1,2,4-Trichloro- benzene	0.89 J	5.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	3.0	ug/L	SW846 8260B
	<u>PERCENT</u>	<u>RECOVERY</u>		
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>		
Dibromofluoromethane	91	(73 - 122)		
1,2-Dichloroethane-d4	87	(61 - 128)		
Toluene-d8	89	(76 - 110)		
4-Bromofluorobenzene	76	(74 - 116)		

NOTE(S) :

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

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A4G300129 Work Order #...: GL9141AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4G310000-117 GL9141AD-LCSD
 Prep Date.....: 07/31/04 Analysis Date...: 07/31/04
 Prep Batch #...: 4213117
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

<u>PARAMETER</u>	<u>SPIKE</u>	<u>MEASURED</u>	<u>PERCENT</u>	<u>RPD</u>	<u>METHOD</u>
	<u>AMOUNT</u>	<u>AMOUNT</u>	<u>UNITS</u>	<u>RECOVERY</u>	
Benzene	10	11	ug/L	112	
	10	11	ug/L	110	1.3
Chlorobenzene	10	11	ug/L	110	
	10	11	ug/L	106	3.8
1,1-Dichloroethene	10	12	ug/L	119	
	10	12	ug/L	116	2.3
Toluene	10	10	ug/L	103	
	10	9.9	ug/L	99	3.2
Trichloroethene	10	11	ug/L	112	
	10	11	ug/L	110	1.7

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	86	(73 - 122)
	86	(73 - 122)
1,2-Dichloroethane-d4	88	(61 - 128)
	86	(61 - 128)
Toluene-d8	91	(76 - 110)
	90	(76 - 110)
4-Bromofluorobenzene	87	(74 - 116)
	85	(74 - 116)

NOTE(S) :

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A4G300129 Work Order #....: GL9141AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4G310000-117 GL9141AD-LCSD
 Prep Date.....: 07/31/04 Analysis Date...: 07/31/04
 Prep Batch #....: 4213117
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	112	(80 - 116)			SW846 8260B
	110	(80 - 116)	1.3	(0-20)	SW846 8260B
Chlorobenzene	110	(76 - 117)			SW846 8260B
	106	(76 - 117)	3.8	(0-20)	SW846 8260B
1,1-Dichloroethene	119	(63 - 130)			SW846 8260B
	116	(63 - 130)	2.3	(0-20)	SW846 8260B
Toluene	103	(74 - 119)			SW846 8260B
	99	(74 - 119)	3.2	(0-20)	SW846 8260B
Trichloroethene	112	(75 - 122)			SW846 8260B
	110	(75 - 122)	1.7	(0-20)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	86	(73 - 122)
	86	(73 - 122)
1,2-Dichloroethane-d4	88	(61 - 128)
	86	(61 - 128)
Toluene-d8	91	(76 - 110)
	90	(76 - 110)
4-Bromofluorobenzene	87	(74 - 116)
	85	(74 - 116)

NOTE (S) :

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

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A4G300129 Work Order #....: GL6LV1AC-MS Matrix.....: WG
 MS Lot-Sample #: A4G300129-006 GL6LV1AD-MSD
 Date Sampled...: 07/29/04 13:30 Date Received...: 07/30/04
 Prep Date.....: 07/31/04 Analysis Date...: 07/31/04
 Prep Batch #...: 4213117
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Benzene	0.41	10	12	ug/L	113		SW846 8260B
	0.41	10	12	ug/L	116	2.7	SW846 8260B
Chlorobenzene	ND	10	11	ug/L	106		SW846 8260B
	ND	10	10	ug/L	104	1.4	SW846 8260B
1,1-Dichloroethene	ND	10	12	ug/L	121		SW846 8260B
	ND	10	12	ug/L	123	1.9	SW846 8260B
Toluene	2.7	10	12	ug/L	98		SW846 8260B
	2.7	10	13	ug/L	100	2.1	SW846 8260B
Trichloroethene	ND	10	11	ug/L	112		SW846 8260B
	ND	10	12	ug/L	114	1.4	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	89	(73 - 122)
	90	(73 - 122)
1,2-Dichloroethane-d4	90	(61 - 128)
	91	(61 - 128)
Toluene-d8	92	(76 - 110)
	92	(76 - 110)
4-Bromofluorobenzene	86	(74 - 116)
	86	(74 - 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 Volatiles

Client Lot #....: A4G300129 Work Order #....: GL6LV1AC-MS Matrix.....: WG
 MS Lot-Sample #: A4G300129-006 GL6LV1AD-MSD
 Date Sampled...: 07/29/04 13:30 Date Received...: 07/30/04
 Prep Date.....: 07/31/04 Analysis Date...: 07/31/04
 Prep Batch #....: 4213117
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	113	(78 - 118)			SW846 8260B
	116	(78 - 118)	2.7	(0-20)	SW846 8260B
Chlorobenzene	106	(76 - 117)			SW846 8260B
	104	(76 - 117)	1.4	(0-20)	SW846 8260B
1,1-Dichloroethene	121	(62 - 130)			SW846 8260B
	123	(62 - 130)	1.9	(0-20)	SW846 8260B
Toluene	98	(70 - 119)			SW846 8260B
	100	(70 - 119)	2.1	(0-20)	SW846 8260B
Trichloroethene	112	(62 - 130)			SW846 8260B
	114	(62 - 130)	1.4	(0-20)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	89	(73 - 122)
	90	(73 - 122)
1,2-Dichloroethane-d4	90	(61 - 128)
	91	(61 - 128)
Toluene-d8	92	(76 - 110)
	92	(76 - 110)
4-Bromofluorobenzene	86	(74 - 116)
	86	(74 - 116)

NOTE(S) :

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

END OF REPORT

REC'D CRA
AUG - 4 2004
CRA SDG G-13

SEVERN
TRENT

STL

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720

Tel: 330 497 9396 Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 17360-09

GM-GRAND RAPIDS

Lot #: A4G150200

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT

Project#: 17360-09 Lab#: A4G150200

Name: GM GRAND RAPIDS

Description

SEVERN TRENT LABORATORIES, INC.

Event: VAS Sampling

Samples: 22 solids DCR 078-099

Analysis: TCL VOCs

TAT: STANDARD TAT

Lab: STL-NC

Amy L. McCormick

Amy L. McCormick
Project Manager

Checked Against Preliminary Data:

Date: N/A Init.: N/A

Date of Validation Memo: 10/20/04

Invoice Approval Date:

Comments:

July 30, 2004

1012

CRA
CONESTOGA-ROVERS & ASSOCIATES, INC.
 14496 Sheldon Road, Suite 200
 Plymouth, MI 48170 • (734) 453-5123

SHIPPED TO (Laboratory Name): STZ - North Canton
 REFERENCE NUMBER: 17360-09

PROJECT NAME: GM-Grand Rapids

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: [Signature] PRINTED NAME: David C. Powers

PARAMETERS: TRV

SEQ. No.	DATE	TIME	CONTAINERS	SAMPLE TYPE	REMARKS
	7/14/04	1050	2	5011	STD TRV
		1055	2		
		1100	2		
		1105	2		
		1110	2		
		1115	2		
		1125	2		
		1130	2		
		1140	2		
		1150	2		
		1200	2		
		1355	2		
		1400	2		
		1405	2		

TOTAL NUMBER OF CONTAINERS: 28

RELINQUISHED BY: [Signature] DATE: 7-18-04 TIME: 1915
 RELINQUISHED BY: _____ DATE: _____ TIME: _____
 RELINQUISHED BY: _____ DATE: _____ TIME: _____

METHOD OF SHIPMENT: FED EX AIR BILL No. 831896653065

RECEIVED FOR LABORATORY BY: [Signature] DATE: 7-15-04 TIME: 10:00
 SAMPLE TEAM: David C. Powers

CRA
CONESTOGA-ROVERS & ASSOCIATES, INC.
 14496 Sheldon Road, Suite 200
 Plymouth, MI 48170 • (734) 453-5123

SHIPPED TO (Laboratory Name): **STZ - North Canton**

REFERENCE NUMBER:
17360-09

PROJECT NAME: **GM - Grand Rapids**

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: *[Signature]* PRINTED NAME: **David C Russ**

SEQ. No.	DATE	TIME	SAMPLE TYPE	NO OF CONTAINERS	PARAMETERS	REMARKS
	7/14/04	1410	Sol	2	X	STD TRAF
		1415		2	X	
		1420		2	X	
		1430		2	X	
		1440		2	X	
		1445		2	X	
		1455		2	X	
		1505		2	X	

TOTAL NUMBER OF CONTAINERS **16**

RELINQUISHED BY: <i>[Signature]</i>	DATE: 7-14-04	RECEIVED BY: 1. _____	DATE: _____
RELINQUISHED BY: _____	TIME: 1915	RECEIVED BY: 2. _____	DATE: _____
RELINQUISHED BY: _____	DATE: _____	RECEIVED BY: 1. _____	DATE: _____
RELINQUISHED BY: _____	TIME: _____	RECEIVED BY: _____	TIME: _____

METHOD OF SHIPMENT: **FED EX** AIR BILL No. **8318 9665 3065**

RECEIVED FOR LABORATORY BY: *[Signature]*
 DATE: **7-15-04** TIME: **10:00**

SAMPLE TEAM: **David C Russ**

White - Fully Executed Copy Pink - Shipper Copy
 Yellow - Receiving Laboratory Copy Goldenrod - Sampler Copy

27171

CASE NARRATIVE

CASE NARRATIVE

A4G150200

The following report contains the analytical results for twenty-two solid samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Grand Rapids Site, project number 17360-09. The samples were received July 15, 2004, according to documented sample acceptance procedures.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to the Chemistry Department on July 29, 2004. A summary of QC data for these analyses is included at the back of the report.

STL North Canton attests to the validity of the laboratory data generated by STL facilities reported herein. All analyses performed by STL facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. STL's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

If you have any questions, please call the Project Manager, Amy L. McCormick, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 5.8°C.

CASE NARRATIVE (continued)

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed below.)

Volatile (GC or GC/MS)

Methylene chloride
Acetone
2-Butanone

Semivolatile (GC/MS)

Phthalate Esters

Metals

Copper
Iron
Zinc
Lead*

- *for analyses run on TJA Trace ICP, ICPMS or GFAA only*

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria do not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is repped and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be repped and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide, PCB, and PAH methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria.



STL North Canton Certifications and Approvals:

Alabama (#41170), California (#01144CA), Connecticut (#PH-0590), Florida (#E87225), Illinois (#100439), Kansas (#E10336), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Ohio (#6090), OhioVAP (#CLO024), Rhode Island (#237), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), Utah (#QUAN9), Virginia (#00011), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence – Participating Lab Status Award (#82)

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***EXECUTIVE
SUMMARY***

EXECUTIVE SUMMARY - Detection Highlights

A4G150200

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
S-17360-071404-DCR-078 07/14/04 10:50 001				
Chloromethane	25 J,B	540	ug/kg	SW846 8260B
Cyclohexane	18 J	2600	ug/kg	SW846 8260B
Methylcyclohexane	100 J	2600	ug/kg	SW846 8260B
Toluene	42 J	220	ug/kg	SW846 8260B
Trichloroethene	2800	110	ug/kg	SW846 8260B
Xylenes (total)	84 J	330	ug/kg	SW846 8260B
Percent Solids	95.8	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-079 07/14/04 10:55 002				
Chloromethane	33 J,B	320	ug/kg	SW846 8260B
Percent Solids	98.2	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-080 07/14/04 11:00 003				
Trichloroethene	20 J	59	ug/kg	SW846 8260B
Percent Solids	98.2	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-081 07/14/04 11:05 004				
Chloromethane	46 J,B	400	ug/kg	SW846 8260B
Percent Solids	95.9	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-082 07/14/04 11:10 005				
Chloromethane	26 J,B	270	ug/kg	SW846 8260B
Trichloroethene	78	53	ug/kg	SW846 8260B
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-083 07/14/04 11:15 006				
Chloromethane	24 J,B	260	ug/kg	SW846 8260B
Trichloroethene	24 J	51	ug/kg	SW846 8260B
Percent Solids	97.7	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-084 07/14/04 11:25 007				
Chloromethane	23 J,B	250	ug/kg	SW846 8260B
Trichloroethene	40 J	50	ug/kg	SW846 8260B
Percent Solids	97.9	10.0	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4G150200

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-17360-071404-DCR-085 07/14/04 11:30 008				
Chloromethane	24 J,B	260	ug/kg	SW846 8260B
Trichloroethene	31 J	53	ug/kg	SW846 8260B
Percent Solids	98.0	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-086 07/14/04 11:40 009				
Chloromethane	24 J,B	290	ug/kg	SW846 8260B
Percent Solids	98.0	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-087 07/14/04 11:50 010				
Chloromethane	22 J,B	270	ug/kg	SW846 8260B
Trichloroethene	20 J	55	ug/kg	SW846 8260B
Percent Solids	96.3	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-088 07/14/04 12:00 011				
Chloromethane	20 J,B	260	ug/kg	SW846 8260B
Percent Solids	96.7	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-089 07/14/04 13:55 012				
Methylcyclohexane	200 J	10000	ug/kg	SW846 8260B
Toluene	160 J	860	ug/kg	SW846 8260B
Trichloroethene	12000	430	ug/kg	SW846 8260B
Xylenes (total)	280 J	1300	ug/kg	SW846 8260B
Percent Solids	95.0	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-090 07/14/04 14:00 013				
Chloromethane	22 J,B	290	ug/kg	SW846 8260B
Percent Solids	97.5	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-091 07/14/04 14:05 014				
Percent Solids	97.6	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-092 07/14/04 14:10 015				
Percent Solids	97.0	10.0	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4G150200

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-17360-071404-DCR-093 07/14/04 14:15 016				
Trichloroethene	40 J	58	ug/kg	SW846 8260B
Percent Solids	95.0	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-094 07/14/04 14:20 017				
Trichloroethene	22 J	61	ug/kg	SW846 8260B
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-095 07/14/04 14:30 018				
Chloromethane	19 J,B	270	ug/kg	SW846 8260B
Trichloroethene	22 J	55	ug/kg	SW846 8260B
Percent Solids	96.3	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-096 07/14/04 14:40 019				
Chloromethane	18 J,B	290	ug/kg	SW846 8260B
Trichloroethene	87	57	ug/kg	SW846 8260B
Percent Solids	96.8	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-097 07/14/04 14:45 020				
Trichloroethene	63	55	ug/kg	SW846 8260B
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-098 07/14/04 14:55 021				
Trichloroethene	27 J	59	ug/kg	SW846 8260B
Percent Solids	97.0	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-099 07/14/04 15:05 022				
Trichloroethene	46 J	55	ug/kg	SW846 8260B
Percent Solids	97.5	10.0	%	MCAWW 160.3 MOD

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A4G150200

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Total Residue as Percent Solids	MCAWW 160.3 MOD
Volatile Organics by GC/MS	SW846 8260B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SAMPLE SUMMARY

A4G150200

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
GK5LT	001	S-17360-071404-DCR-078	07/14/04	10:50
GK5L7	002	S-17360-071404-DCR-079	07/14/04	10:55
GK5L9	003	S-17360-071404-DCR-080	07/14/04	11:00
GK5MC	004	S-17360-071404-DCR-081	07/14/04	11:05
GK566	005	S-17360-071404-DCR-082	07/14/04	11:10
GK568	006	S-17360-071404-DCR-083	07/14/04	11:15
GK57C	007	S-17360-071404-DCR-084	07/14/04	11:25
GK57D	008	S-17360-071404-DCR-085	07/14/04	11:30
GK57E	009	S-17360-071404-DCR-086	07/14/04	11:40
GK57F	010	S-17360-071404-DCR-087	07/14/04	11:50
GK57H	011	S-17360-071404-DCR-088	07/14/04	12:00
GK57J	012	S-17360-071404-DCR-089	07/14/04	13:55
GK57K	013	S-17360-071404-DCR-090	07/14/04	14:00
GK57M	014	S-17360-071404-DCR-091	07/14/04	14:05
GK57N	015	S-17360-071404-DCR-092	07/14/04	14:10
GK57P	016	S-17360-071404-DCR-093	07/14/04	14:15
GK57Q	017	S-17360-071404-DCR-094	07/14/04	14:20
GK57R	018	S-17360-071404-DCR-095	07/14/04	14:30
GK57T	019	S-17360-071404-DCR-096	07/14/04	14:40
GK57V	020	S-17360-071404-DCR-097	07/14/04	14:45
GK57W	021	S-17360-071404-DCR-098	07/14/04	14:55
GK57X	022	S-17360-071404-DCR-099	07/14/04	15:05

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 filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

***SHIPPING
AND
RECEIVING DOCUMENTS***

1 of 2

CRA
CONESTOGA-ROVERS & ASSOCIATES, INC.
14496 Sheldon Road, Suite 200
Plymouth, MI 48170 • (734) 453-5123

SHIPPED TO (Laboratory Name): STL - North Canton

REFERENCE NUMBER:
17360-09

PROJECT NAME: GM-Grand Rapids

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: [Signature] PRINTED NAME: David Powers

PARAMETERS CONTAINED:
RV

SEQ. No.	DATE	TIME	SAMPLE TYPE	CONTAINERS	REMARKS
	7/14/94	1050	S-17360-071404-DEIR-078	2	
		1055	-079	2	STD TRAT
		1100	-080	2	
		1105	-081	2	
		1110	-082	2	
		1115	-083	2	
		1125	-084	2	
		1130	-085	2	
		1140	-086	2	
		1150	-087	2	
		1200	-088	2	
		1355	-089	2	
		1400	-090	2	
		1405	-091	2	
TOTAL NUMBER OF CONTAINERS				28	

CRA Contact
Paul Wiseman

RELINQUISHED BY: 1. <u>[Signature]</u>	DATE: <u>7-19-94</u>	RECEIVED BY: 1. _____	DATE: _____
RELINQUISHED BY: 2. _____	TIME: <u>1915</u>	RECEIVED BY: 2. _____	DATE: _____
RELINQUISHED BY: 3. _____	DATE: _____	RECEIVED BY: 1. _____	DATE: _____
	TIME: _____		TIME: _____

METHOD OF SHIPMENT: Fed Ex AIR BILL NO. 837896653065

White - Fully Executed Copy
Yellow - Receiving Laboratory Copy
Pink - Shipper Copy
Goldendrod - Sampler Copy

SAMPLE TEAM:
David Powers

27170

RECEIVED FOR LABORATORY BY:
[Signature]
DATE: 7-15-94 TIME: 10:00

STL NORTH CANTON

CRA
CONESTOGA-ROVERS & ASSOCIATES, INC.
14496 Sheldon Road, Suite 200
Plymouth, MI 48170 • (734) 453-5123

SHIPPED TO (Laboratory Name): **STZ - North Canton**
PROJECT NAME: **GM - Grand Rapids**

CHAIN OF CUSTODY RECORD
SAMPLER'S SIGNATURE: *[Signature]* PRINTED NAME: **David C Rivers**

REFERENCE NUMBER:
17360-09

SEQ. No.	DATE	TIME	SAMPLE TYPE	NO. OF CONTAINERS	PARAMETERS	REMARKS
	7/14/09	1410	S-1	2	TCL TOX	STD TRAF
		1415		2		
		1420		2		
		1430		2		
		1440		2		
		1445		2		
		1455		2		
		1505		2		

TOTAL NUMBER OF CONTAINERS: **16**

RELINQUISHED BY: <i>[Signature]</i>	DATE: 7-14-09	RECEIVED BY: _____	DATE: _____
	TIME: 1415	RECEIVED BY: _____	DATE: _____
RELINQUISHED BY: _____	DATE: _____	RECEIVED BY: _____	DATE: _____
	TIME: _____	RECEIVED BY: _____	DATE: _____
RELINQUISHED BY: _____	DATE: _____	RECEIVED BY: _____	DATE: _____
	TIME: _____	RECEIVED BY: _____	DATE: _____

METHOD OF SHIPMENT: **FED EX** AIR BILL NO. **0318 9665 3065**

White - Fully Executed Copy Pink - Shipper Copy
 Yellow - Receiving Laboratory Copy Gold/Red - Sampler Copy

SAMPLE TEAM: **David Rivers**

RECEIVED FOR LABORATORY BY: *[Signature]*
 DATE: 7-15-09 TIME: 10:00

27171

RSR280

Client: 57787

Lot #: A4G150200

Case Number/SDG: 17360-09

Storage Location: C116 MS

Severn Trent Laboratories, Inc.
Sample Control Record.

Laboratory Sample I.D.	Transferred By	Date	Entered	Removed	Reason	Date Returned
GK5LT	STILLERJ	7/15/04	Yes		Storage	
GK5L7	STILLERJ	7/15/04	Yes		Storage	
GK5L9	STILLERJ	7/15/04	Yes		Storage	
GK5MC	STILLERJ	7/15/04	Yes		Storage	
GK566	STILLERJ	7/15/04	Yes		Storage	
GK568	STILLERJ	7/15/04	Yes		Storage	
GK57C	STILLERJ	7/15/04	Yes		Storage	
GK57D	STILLERJ	7/15/04	Yes		Storage	
GK57E	STILLERJ	7/15/04	Yes		Storage	
GK57F	STILLERJ	7/15/04	Yes		Storage	
GK57H	STILLERJ	7/15/04	Yes		Storage	
GK57J	STILLERJ	7/15/04	Yes		Storage	
GK57K	STILLERJ	7/15/04	Yes		Storage	
GK57M	STILLERJ	7/15/04	Yes		Storage	
GK57N	STILLERJ	7/15/04	Yes		Storage	
GK57P	STILLERJ	7/15/04	Yes		Storage	
GK57Q	STILLERJ	7/15/04	Yes		Storage	
GK57R	STILLERJ	7/15/04	Yes		Storage	
GK57T	STILLERJ	7/15/04	Yes		Storage	
GK57V	STILLERJ	7/15/04	Yes		Storage	
GK57W	STILLERJ	7/15/04	Yes		Storage	
GK57X	STILLERJ	7/15/04	Yes		Storage	

STL Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: A46150200

Client: CRA

Project: GM - Grand Rapids

Quote#:

Cooler Received on: 7-15-04

Opened on: 7-15-04

by: Angela Matthews
 (Signature)

Fedx Client Drop Off UPS DHL FAS Other: _____

STL Cooler No# _____ Foam Box Client Cooler Other _____

1. Were custody seals on the outside of the cooler? Yes No Intact? Yes No NA

If YES, Quantity _____

Were the custody seals signed and dated?

Yes No NA

2. Shipper's packing slip attached to this form?

Yes No NA

3. Did custody papers accompany the samples? Yes No

Relinquished by client? Yes No

4. Did you sign the custody papers in the appropriate place?

Yes No

5. Packing material used: Bubble Wrap Foam None Other: _____

6. Cooler temperature upon receipt 5.8 °C (see back of form for multiple coolers/temp)

METHOD: Temp Vial Coolant & Sample Against Bottles IR ICE/H₂O Slurry

COOLANT: Wet Ice Blue Ice Dry Ice Water None

7. Did all bottles arrive in good condition (Unbroken)?

Yes No

8. Could all bottle labels and/or tags be reconciled with the COC?

Yes No

9. Were samples at the correct pH? (record below/on back)

Yes No NA

10. Were correct bottles used for the tests indicated?

Yes No

11. Were air bubbles >6 mm in any VOA vials?

Yes No NA

12. Sufficient quantity received to perform indicated analyses?

Yes No

Contacted PM _____ Date: _____ by: _____ via Voice Mail Verbal Other

Concerning:

1. CHAIN OF CUSTODY

The following discrepancies occurred:

2. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). Nitric Acid Lot #122603-HNO₃; Sulfuric Acid Lot # 011-504-H₂SO₄; Sodium Hydroxide Lot # 111401-NaOH; Hydrochloric Acid Lot # 100902-HCl; Sodium Hydroxide and Zinc Acetate Lot # 112801-CH₃COO₂ZN/NaOH

Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. Other (see below or back)

Client ID	pH	Date	Initials

GCMS VOLATILE DATA

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-078

GC/MS Volatiles

Lot-Sample #...: A4G150200-001 Work Order #...: GK5LT1AA Matrix.....: SO
 Date Sampled...: 07/14/04 10:50 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/20/04
 Prep Batch #...: 4202313
 Dilution Factor: 2.08 Initial Wgt/Vol: 24 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 4.2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	1600	ug/kg	220
Benzene	ND	110	ug/kg	14
Bromodichloromethane	ND	220	ug/kg	26
Bromoform	ND	220	ug/kg	28
Bromomethane	ND	540	ug/kg	54
2-Butanone	ND	1600	ug/kg	110
Carbon disulfide	ND	540	ug/kg	43
Carbon tetrachloride	ND	110	ug/kg	26
Chlorobenzene	ND	110	ug/kg	14
Chloroethane	ND	540	ug/kg	140
Chloroform	ND	110	ug/kg	26
Chloromethane	25 J,B	540	ug/kg	11
Cyclohexane	18 J	2600	ug/kg	17
Dibromochloromethane	ND	110	ug/kg	15
1,2-Dibromo-3-chloro- propane	ND	540	ug/kg	130
1,2-Dibromoethane	ND	540	ug/kg	22
1,2-Dichlorobenzene	ND	220	ug/kg	37
1,3-Dichlorobenzene	ND	220	ug/kg	16
1,4-Dichlorobenzene	ND	220	ug/kg	17
Dichlorodifluoromethane	ND	220	ug/kg	12
1,1-Dichloroethane	ND	110	ug/kg	16
1,2-Dichloroethane	ND	110	ug/kg	20
1,1-Dichloroethene	ND	110	ug/kg	18
cis-1,2-Dichloroethene	ND	110	ug/kg	30
trans-1,2-Dichloroethene	ND	110	ug/kg	24
1,2-Dichloropropane	ND	110	ug/kg	16
cis-1,3-Dichloropropene	ND	110	ug/kg	12
trans-1,3-Dichloropropene	ND	110	ug/kg	12
Ethylbenzene	ND	110	ug/kg	15
2-Hexanone	ND	5400	ug/kg	52
Isopropylbenzene	ND	540	ug/kg	11
Methyl acetate	ND	2600	ug/kg	110
Methylene chloride	ND	540	ug/kg	220
Methylcyclohexane	100 J	2600	ug/kg	12
4-Methyl-2-pentanone	ND	5400	ug/kg	24
Methyl tert-butyl ether	ND	540	ug/kg	22
Styrene	ND	110	ug/kg	61

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-078

GC/MS Volatiles

Lot-Sample #...: A4G150200-001 Work Order #...: GK5LT1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	220	ug/kg	18
Tetrachloroethene	ND	110	ug/kg	20
Toluene	42 J	220	ug/kg	20
1,2,4-Trichloro-benzene	ND	540	ug/kg	26
1,1,1-Trichloroethane	ND	110	ug/kg	21
1,1,2-Trichloroethane	ND	110	ug/kg	22
Trichloroethene	2800	110	ug/kg	26
Trichlorofluoromethane	ND	220	ug/kg	18
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	540	ug/kg	22
Vinyl chloride	ND	220	ug/kg	35
Xylenes (total)	84 J	330	ug/kg	33

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	71 DIL	(59 - 138)
1,2-Dichloroethane-d4	78 DIL	(61 - 130)
Toluene-d8	91 DIL	(60 - 143)
4-Bromofluorobenzene	82 DIL	(47 - 158)

NOTE (S) :

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-079

GC/MS Volatiles

Lot-Sample #...: A4G150200-002 Work Order #...: GK5L71AA Matrix.....: SO
 Date Sampled...: 07/14/04 10:55 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/19/04
 Prep Batch #...: 4202313
 Dilution Factor: 1.24 Initial Wgt/Vol: 20.2 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 1.8 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	950	ug/kg	130
Benzene	ND	63	ug/kg	8.1
Bromodichloromethane	ND	130	ug/kg	15
Bromoform	ND	130	ug/kg	16
Bromomethane	ND	320	ug/kg	32
2-Butanone	ND	950	ug/kg	62
Carbon disulfide	ND	320	ug/kg	25
Carbon tetrachloride	ND	63	ug/kg	15
Chlorobenzene	ND	63	ug/kg	8.0
Chloroethane	ND	320	ug/kg	82
Chloroform	ND	63	ug/kg	15
Chloromethane	33 J,B	320	ug/kg	6.6
Cyclohexane	ND	1500	ug/kg	9.7
Dibromochloromethane	ND	63	ug/kg	8.7
1,2-Dibromo-3-chloro- propane	ND	320	ug/kg	76
1,2-Dibromoethane	ND	320	ug/kg	13
1,2-Dichlorobenzene	ND	130	ug/kg	21
1,3-Dichlorobenzene	ND	130	ug/kg	9.1
1,4-Dichlorobenzene	ND	130	ug/kg	10
Dichlorodifluoromethane	ND	130	ug/kg	6.8
1,1-Dichloroethane	ND	63	ug/kg	9.2
1,2-Dichloroethane	ND	63	ug/kg	12
1,1-Dichloroethene	ND	63	ug/kg	10
cis-1,2-Dichloroethene	ND	63	ug/kg	18
trans-1,2-Dichloroethene	ND	63	ug/kg	14
1,2-Dichloropropane	ND	63	ug/kg	9.3
cis-1,3-Dichloropropene	ND	63	ug/kg	6.9
trans-1,3-Dichloropropene	ND	63	ug/kg	6.8
Ethylbenzene	ND	63	ug/kg	8.6
2-Hexanone	ND	3200	ug/kg	30
Isopropylbenzene	ND	320	ug/kg	6.4
Methyl acetate	ND	1500	ug/kg	66
Methylene chloride	ND	320	ug/kg	130
Methylcyclohexane	ND	1500	ug/kg	7.2
4-Methyl-2-pentanone	ND	3200	ug/kg	14
Methyl tert-butyl ether	ND	320	ug/kg	13
Styrene	ND	63	ug/kg	35

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-079

GC/MS Volatiles

Lot-Sample #...: A4G150200-002 Work Order #...: GK5L71AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	130	ug/kg	10
Tetrachloroethene	ND	63	ug/kg	11
Toluene	ND	130	ug/kg	11
1,2,4-Trichloro- benzene	ND	320	ug/kg	15
1,1,1-Trichloroethane	ND	63	ug/kg	12
1,1,2-Trichloroethane	ND	63	ug/kg	13
Trichloroethene	ND	63	ug/kg	15
Trichlorofluoromethane	ND	130	ug/kg	10
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	320	ug/kg	13
Vinyl chloride	ND	130	ug/kg	20
Xylenes (total)	ND	190	ug/kg	19

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	76	(59 - 138)
1,2-Dichloroethane-d4	80	(61 - 130)
Toluene-d8	93	(60 - 143)
4-Bromofluorobenzene	86	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-080

GC/MS Volatiles

Lot-Sample #....: A4G150200-003 Work Order #....: GK5L91AA Matrix.....: SO
 Date Sampled....: 07/14/04 11:00 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4202313
 Dilution Factor: 1.16 Initial Wgt/Vol: 21.6 g Final Wgt/Vol...: 25 mL
 ‡ Moisture.....: 1.8 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	890	ug/kg	120
Benzene	ND	59	ug/kg	7.6
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	300	ug/kg	30
2-Butanone	ND	890	ug/kg	58
Carbon disulfide	ND	300	ug/kg	24
Carbon tetrachloride	ND	59	ug/kg	14
Chlorobenzene	ND	59	ug/kg	7.4
Chloroethane	ND	300	ug/kg	77
Chloroform	ND	59	ug/kg	14
Chloromethane	ND	300	ug/kg	6.1
Cyclohexane	ND	1400	ug/kg	9.1
Dibromochloromethane	ND	59	ug/kg	8.1
1,2-Dibromo-3-chloro- propane	ND	300	ug/kg	71
1,2-Dibromoethane	ND	300	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.5
1,4-Dichlorobenzene	ND	120	ug/kg	9.3
Dichlorodifluoromethane	ND	120	ug/kg	6.4
1,1-Dichloroethane	ND	59	ug/kg	8.6
1,2-Dichloroethane	ND	59	ug/kg	11
1,1-Dichloroethene	ND	59	ug/kg	9.8
cis-1,2-Dichloroethene	ND	59	ug/kg	17
trans-1,2-Dichloroethene	ND	59	ug/kg	13
1,2-Dichloropropane	ND	59	ug/kg	8.7
cis-1,3-Dichloropropene	ND	59	ug/kg	6.5
trans-1,3-Dichloropropene	ND	59	ug/kg	6.4
Ethylbenzene	ND	59	ug/kg	8.0
2-Hexanone	ND	3000	ug/kg	28
Isopropylbenzene	ND	300	ug/kg	6.0
Methyl acetate	ND	1400	ug/kg	61
Methylene chloride	ND	300	ug/kg	120
Methylcyclohexane	ND	1400	ug/kg	6.7
4-Methyl-2-pentanone	ND	3000	ug/kg	13
Methyl tert-butyl ether	ND	300	ug/kg	12
Styrene	ND	59	ug/kg	33

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-080

GC/MS Volatiles

Lot-Sample #...: A4G150200-003 Work Order #...: GK5L91AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.7
Tetrachloroethene	ND	59	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	300	ug/kg	14
1,1,1-Trichloroethane	ND	59	ug/kg	11
1,1,2-Trichloroethane	ND	59	ug/kg	12
Trichloroethene	20 J	59	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.8
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	300	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	180	ug/kg	18

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	71	(59 - 138)
1,2-Dichloroethane-d4	81	(61 - 130)
Toluene-d8	95	(60 - 143)
4-Bromofluorobenzene	86	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-081

GC/MS Volatiles

Lot-Sample #...: A4G150200-004 Work Order #...: GK5MC1AA Matrix.....: SO
 Date Sampled...: 07/14/04 11:05 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/19/04
 Prep Batch #...: 4202313
 Dilution Factor: 1.52 Initial Wgt/Vol: 16.4 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 4.1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	1200	ug/kg	160
Benzene	ND	79	ug/kg	10
Bromodichloromethane	ND	160	ug/kg	19
Bromoform	ND	160	ug/kg	21
Bromomethane	ND	400	ug/kg	40
2-Butanone	ND	1200	ug/kg	78
Carbon disulfide	ND	400	ug/kg	32
Carbon tetrachloride	ND	79	ug/kg	19
Chlorobenzene	ND	79	ug/kg	10
Chloroethane	ND	400	ug/kg	100
Chloroform	ND	79	ug/kg	19
Chloromethane	46 J,B	400	ug/kg	8.2
Cyclohexane	ND	1900	ug/kg	12
Dibromochloromethane	ND	79	ug/kg	11
1,2-Dibromo-3-chloro- propane	ND	400	ug/kg	95
1,2-Dibromoethane	ND	400	ug/kg	16
1,2-Dichlorobenzene	ND	160	ug/kg	27
1,3-Dichlorobenzene	ND	160	ug/kg	11
1,4-Dichlorobenzene	ND	160	ug/kg	13
Dichlorodifluoromethane	ND	160	ug/kg	8.6
1,1-Dichloroethane	ND	79	ug/kg	12
1,2-Dichloroethane	ND	79	ug/kg	15
1,1-Dichloroethene	ND	79	ug/kg	13
cis-1,2-Dichloroethene	ND	79	ug/kg	22
trans-1,2-Dichloroethene	ND	79	ug/kg	17
1,2-Dichloropropane	ND	79	ug/kg	12
cis-1,3-Dichloropropene	ND	79	ug/kg	8.7
trans-1,3-Dichloropropene	ND	79	ug/kg	8.6
Ethylbenzene	ND	79	ug/kg	11
2-Hexanone	ND	4000	ug/kg	38
Isopropylbenzene	ND	400	ug/kg	8.1
Methyl acetate	ND	1900	ug/kg	82
Methylene chloride	ND	400	ug/kg	160
Methylcyclohexane	ND	1900	ug/kg	9.0
4-Methyl-2-pentanone	ND	4000	ug/kg	17
Methyl tert-butyl ether	ND	400	ug/kg	16
Styrene	ND	79	ug/kg	44

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-081

GC/MS Volatiles

Lot-Sample #...: A4G150200-004 Work Order #...: GK5MC1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	160	ug/kg	13
Tetrachloroethene	ND	79	ug/kg	14
Toluene	ND	160	ug/kg	14
1,2,4-Trichloro- benzene	ND	400	ug/kg	19
1,1,1-Trichloroethane	ND	79	ug/kg	15
1,1,2-Trichloroethane	ND	79	ug/kg	16
Trichloroethene	ND	79	ug/kg	19
Trichlorofluoromethane	ND	160	ug/kg	13
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	400	ug/kg	16
Vinyl chloride	ND	160	ug/kg	25
Xylenes (total)	ND	240	ug/kg	24

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	76	(59 - 138)
1,2-Dichloroethane-d4	80	(61 - 130)
Toluene-d8	97	(60 - 143)
4-Bromofluorobenzene	90	(47 - 158)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-082

GC/MS Volatiles

Lot-Sample #...: A4G150200-005 Work Order #...: GK5661AA Matrix.....: SO
 Date Sampled...: 07/14/04 11:10 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/19/04
 Prep Batch #...: 4202313
 Dilution Factor: 1.05 Initial Wgt/Vol: 23.7 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 1.9 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	800	ug/kg	110
Benzene	ND	53	ug/kg	6.8
Bromodichloromethane	ND	110	ug/kg	13
Bromoform	ND	110	ug/kg	14
Bromomethane	ND	270	ug/kg	27
2-Butanone	ND	800	ug/kg	52
Carbon disulfide	ND	270	ug/kg	21
Carbon tetrachloride	ND	53	ug/kg	13
Chlorobenzene	ND	53	ug/kg	6.7
Chloroethane	ND	270	ug/kg	70
Chloroform	ND	53	ug/kg	13
Chloromethane	26 J, B	270	ug/kg	5.6
Cyclohexane	ND	1300	ug/kg	8.2
Dibromochloromethane	ND	53	ug/kg	7.4
1,2-Dibromo-3-chloro- propane	ND	270	ug/kg	64
1,2-Dibromoethane	ND	270	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	18
1,3-Dichlorobenzene	ND	110	ug/kg	7.7
1,4-Dichlorobenzene	ND	110	ug/kg	8.5
Dichlorodifluoromethane	ND	110	ug/kg	5.8
1,1-Dichloroethane	ND	53	ug/kg	7.8
1,2-Dichloroethane	ND	53	ug/kg	10
1,1-Dichloroethene	ND	53	ug/kg	8.9
cis-1,2-Dichloroethene	ND	53	ug/kg	15
trans-1,2-Dichloroethene	ND	53	ug/kg	12
1,2-Dichloropropane	ND	53	ug/kg	7.9
cis-1,3-Dichloropropene	ND	53	ug/kg	5.9
trans-1,3-Dichloropropene	ND	53	ug/kg	5.8
Ethylbenzene	ND	53	ug/kg	7.3
2-Hexanone	ND	2700	ug/kg	26
Isopropylbenzene	ND	270	ug/kg	5.5
Methyl acetate	ND	1300	ug/kg	56
Methylene chloride	ND	270	ug/kg	110
Methylcyclohexane	ND	1300	ug/kg	6.1
4-Methyl-2-pentanone	ND	2700	ug/kg	12
Methyl tert-butyl ether	ND	270	ug/kg	11
Styrene	ND	53	ug/kg	30

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-082

GC/MS Volatiles

Lot-Sample #...: A4G150200-005 Work Order #...: GK5661AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	8.8
Tetrachloroethene	ND	53	ug/kg	9.6
Toluene	ND	110	ug/kg	9.7
1,2,4-Trichloro-benzene	ND	270	ug/kg	13
1,1,1-Trichloroethane	ND	53	ug/kg	10
1,1,2-Trichloroethane	ND	53	ug/kg	11
Trichloroethene	78	53	ug/kg	13
Trichlorofluoromethane	ND	110	ug/kg	8.9
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	270	ug/kg	11
Vinyl chloride	ND	110	ug/kg	17
Xylenes (total)	ND	160	ug/kg	16

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	73	(59 - 138)
1,2-Dichloroethane-d4	78	(61 - 130)
Toluene-d8	94	(60 - 143)
4-Bromofluorobenzene	86	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-083

GC/MS Volatiles

Lot-Sample #...: A4G150200-006 Work Order #...: GK5681AA Matrix.....: SO
 Date Sampled...: 07/14/04 11:15 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/19/04
 Prep Batch #...: 4202313
 Dilution Factor: 1 Initial Wgt/Vol: 24.9 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 2.3 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	770	ug/kg	100
Benzene	ND	51	ug/kg	6.5
Bromodichloromethane	ND	100	ug/kg	12
Bromoform	ND	100	ug/kg	13
Bromomethane	ND	260	ug/kg	26
2-Butanone	ND	770	ug/kg	50
Carbon disulfide	ND	260	ug/kg	20
Carbon tetrachloride	ND	51	ug/kg	12
Chlorobenzene	ND	51	ug/kg	6.4
Chloroethane	ND	260	ug/kg	67
Chloroform	ND	51	ug/kg	12
Chloromethane	24 J, B	260	ug/kg	5.3
Cyclohexane	ND	1200	ug/kg	7.9
Dibromochloromethane	ND	51	ug/kg	7.1
1,2-Dibromo-3-chloro- propane	ND	260	ug/kg	61
1,2-Dibromoethane	ND	260	ug/kg	10
1,2-Dichlorobenzene	ND	100	ug/kg	17
1,3-Dichlorobenzene	ND	100	ug/kg	7.4
1,4-Dichlorobenzene	ND	100	ug/kg	8.1
Dichlorodifluoromethane	ND	100	ug/kg	5.5
1,1-Dichloroethane	ND	51	ug/kg	7.5
1,2-Dichloroethane	ND	51	ug/kg	9.5
1,1-Dichloroethene	ND	51	ug/kg	8.5
cis-1,2-Dichloroethene	ND	51	ug/kg	14
trans-1,2-Dichloroethene	ND	51	ug/kg	11
1,2-Dichloropropane	ND	51	ug/kg	7.6
cis-1,3-Dichloropropene	ND	51	ug/kg	5.6
trans-1,3-Dichloropropene	ND	51	ug/kg	5.5
Ethylbenzene	ND	51	ug/kg	7.0
2-Hexanone	ND	2600	ug/kg	25
Isopropylbenzene	ND	260	ug/kg	5.2
Methyl acetate	ND	1200	ug/kg	53
Methylene chloride	ND	260	ug/kg	100
Methylcyclohexane	ND	1200	ug/kg	5.8
4-Methyl-2-pentanone	ND	2600	ug/kg	11
Methyl tert-butyl ether	ND	260	ug/kg	10
Styrene	ND	51	ug/kg	29

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-083

GC/MS Volatiles

Lot-Sample #...: A4G150200-006 Work Order #...: GK5681AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	100	ug/kg	8.4
Tetrachloroethene	ND	51	ug/kg	9.2
Toluene	ND	100	ug/kg	9.3
1,2,4-Trichloro- benzene	ND	260	ug/kg	12
1,1,1-Trichloroethane	ND	51	ug/kg	9.7
1,1,2-Trichloroethane	ND	51	ug/kg	10
Trichloroethene	24 J	51	ug/kg	12
Trichlorofluoromethane	ND	100	ug/kg	8.5
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	260	ug/kg	10
Vinyl chloride	ND	100	ug/kg	16
Xylenes (total)	ND	150	ug/kg	15

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	72	(59 - 138)
1,2-Dichloroethane-d4	78	(61 - 130)
Toluene-d8	94	(60 - 143)
4-Bromofluorobenzene	83	(47 - 158)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-084

GC/MS Volatiles

Lot-Sample #....: A4G150200-007 Work Order #....: GK57C1AA Matrix.....: SO
 Date Sampled....: 07/14/04 11:25 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/19/04
 Prep Batch #....: 4202313
 Dilution Factor: 0.98 Initial Wgt/Vol: 25.6 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 2.2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	750	ug/kg	99
Benzene	ND	50	ug/kg	6.4
Bromodichloromethane	ND	100	ug/kg	12
Bromoform	ND	100	ug/kg	13
Bromomethane	ND	250	ug/kg	25
2-Butanone	ND	750	ug/kg	49
Carbon disulfide	ND	250	ug/kg	20
Carbon tetrachloride	ND	50	ug/kg	12
Chlorobenzene	ND	50	ug/kg	6.3
Chloroethane	ND	250	ug/kg	65
Chloroform	ND	50	ug/kg	12
Chloromethane	23 J,B	250	ug/kg	5.2
Cyclohexane	ND	1200	ug/kg	7.7
Dibromochloromethane	ND	50	ug/kg	6.9
1,2-Dibromo-3-chloro- propane	ND	250	ug/kg	60
1,2-Dibromoethane	ND	250	ug/kg	9.9
1,2-Dichlorobenzene	ND	100	ug/kg	17
1,3-Dichlorobenzene	ND	100	ug/kg	7.2
1,4-Dichlorobenzene	ND	100	ug/kg	7.9
Dichlorodifluoromethane	ND	100	ug/kg	5.4
1,1-Dichloroethane	ND	50	ug/kg	7.3
1,2-Dichloroethane	ND	50	ug/kg	9.3
1,1-Dichloroethene	ND	50	ug/kg	8.3
cis-1,2-Dichloroethene	ND	50	ug/kg	14
trans-1,2-Dichloroethene	ND	50	ug/kg	11
1,2-Dichloropropane	ND	50	ug/kg	7.4
cis-1,3-Dichloropropene	ND	50	ug/kg	5.5
trans-1,3-Dichloropropene	ND	50	ug/kg	5.4
Ethylbenzene	ND	50	ug/kg	6.8
2-Hexanone	ND	2500	ug/kg	24
Isopropylbenzene	ND	250	ug/kg	5.1
Methyl acetate	ND	1200	ug/kg	52
Methylene chloride	ND	250	ug/kg	99
Methylcyclohexane	ND	1200	ug/kg	5.7
4-Methyl-2-pentanone	ND	2500	ug/kg	11
Methyl tert-butyl ether	ND	250	ug/kg	10
Styrene	ND	50	ug/kg	28

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-084

GC/MS Volatiles

Lot-Sample #...: A4G150200-007 Work Order #...: GK57C1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	100	ug/kg	8.2
Tetrachloroethene	ND	50	ug/kg	9.0
Toluene	ND	100	ug/kg	9.1
1,2,4-Trichloro- benzene	ND	250	ug/kg	12
1,1,1-Trichloroethane	ND	50	ug/kg	9.5
1,1,2-Trichloroethane	ND	50	ug/kg	9.9
Trichloroethene	40 J	50	ug/kg	12
Trichlorofluoromethane	ND	100	ug/kg	8.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	250	ug/kg	10
Vinyl chloride	ND	100	ug/kg	16
Xylenes (total)	ND	150	ug/kg	15

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	74	(59 - 138)
1,2-Dichloroethane-d4	83	(61 - 130)
Toluene-d8	96	(60 - 143)
4-Bromofluorobenzene	87	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-085

GC/MS Volatiles

Lot-Sample #....: A4G150200-008 Work Order #....: GK57D1AA Matrix.....: SO
 Date Sampled....: 07/14/04 11:30 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/19/04
 Prep Batch #....: 4202313
 Dilution Factor: 1.03 Initial Wgt/Vol: 24.3 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 2.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	790	ug/kg	100
Benzene	ND	53	ug/kg	6.7
Bromodichloromethane	ND	110	ug/kg	13
Bromoform	ND	110	ug/kg	14
Bromomethane	ND	260	ug/kg	26
2-Butanone	ND	790	ug/kg	52
Carbon disulfide	ND	260	ug/kg	21
Carbon tetrachloride	ND	53	ug/kg	13
Chlorobenzene	ND	53	ug/kg	6.6
Chloroethane	ND	260	ug/kg	68
Chloroform	ND	53	ug/kg	13
Chloromethane	24 J,B	260	ug/kg	5.5
Cyclohexane	ND	1300	ug/kg	8.1
Dibromochloromethane	ND	53	ug/kg	7.3
1,2-Dibromo-3-chloro- propane	ND	260	ug/kg	63
1,2-Dibromoethane	ND	260	ug/kg	10
1,2-Dichlorobenzene	ND	110	ug/kg	18
1,3-Dichlorobenzene	ND	110	ug/kg	7.6
1,4-Dichlorobenzene	ND	110	ug/kg	8.3
Dichlorodifluoromethane	ND	110	ug/kg	5.7
1,1-Dichloroethane	ND	53	ug/kg	7.7
1,2-Dichloroethane	ND	53	ug/kg	9.8
1,1-Dichloroethene	ND	53	ug/kg	8.7
cis-1,2-Dichloroethene	ND	53	ug/kg	15
trans-1,2-Dichloroethene	ND	53	ug/kg	12
1,2-Dichloropropane	ND	53	ug/kg	7.8
cis-1,3-Dichloropropene	ND	53	ug/kg	5.8
trans-1,3-Dichloropropene	ND	53	ug/kg	5.7
Ethylbenzene	ND	53	ug/kg	7.2
2-Hexanone	ND	2600	ug/kg	25
Isopropylbenzene	ND	260	ug/kg	5.4
Methyl acetate	ND	1300	ug/kg	55
Methylene chloride	ND	260	ug/kg	100
Methylcyclohexane	ND	1300	ug/kg	6.0
4-Methyl-2-pentanone	ND	2600	ug/kg	12
Methyl tert-butyl ether	ND	260	ug/kg	11
Styrene	ND	53	ug/kg	29

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-085

GC/MS Volatiles

Lot-Sample #...: A4G150200-008 Work Order #...: GK57D1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	8.6
Tetrachloroethene	ND	53	ug/kg	9.5
Toluene	ND	110	ug/kg	9.6
1,2,4-Trichloro- benzene	ND	260	ug/kg	13
1,1,1-Trichloroethane	ND	53	ug/kg	10
1,1,2-Trichloroethane	ND	53	ug/kg	10
Trichloroethene	31 J	53	ug/kg	13
Trichlorofluoromethane	ND	110	ug/kg	8.7
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	260	ug/kg	11
Vinyl chloride	ND	110	ug/kg	17
Xylenes (total)	ND	160	ug/kg	16

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	73	(59 - 138)
1,2-Dichloroethane-d4	83	(61 - 130)
Toluene-d8	96	(60 - 143)
4-Bromofluorobenzene	87	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-086

GC/MS Volatiles

Lot-Sample #...: A4G150200-009 Work Order #...: GK57E1AA Matrix.....: SO
 Date Sampled...: 07/14/04 11:40 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/19/04
 Prep Batch #...: 4202313
 Dilution Factor: 1.13 Initial Wgt/Vol: 22.2 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 2.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	860	ug/kg	110
Benzene	ND	58	ug/kg	7.4
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	290	ug/kg	29
2-Butanone	ND	860	ug/kg	56
Carbon disulfide	ND	290	ug/kg	23
Carbon tetrachloride	ND	58	ug/kg	14
Chlorobenzene	ND	58	ug/kg	7.3
Chloroethane	ND	290	ug/kg	75
Chloroform	ND	58	ug/kg	14
Chloromethane	24 J, B	290	ug/kg	6.0
Cyclohexane	ND	1400	ug/kg	8.9
Dibromochloromethane	ND	58	ug/kg	8.0
1,2-Dibromo-3-chloro- propane	ND	290	ug/kg	69
1,2-Dibromoethane	ND	290	ug/kg	11
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.3
1,4-Dichlorobenzene	ND	120	ug/kg	9.1
Dichlorodifluoromethane	ND	120	ug/kg	6.2
1,1-Dichloroethane	ND	58	ug/kg	8.4
1,2-Dichloroethane	ND	58	ug/kg	11
1,1-Dichloroethene	ND	58	ug/kg	9.6
cis-1,2-Dichloroethene	ND	58	ug/kg	16
trans-1,2-Dichloroethene	ND	58	ug/kg	13
1,2-Dichloropropane	ND	58	ug/kg	8.5
cis-1,3-Dichloropropene	ND	58	ug/kg	6.3
trans-1,3-Dichloropropene	ND	58	ug/kg	6.2
Ethylbenzene	ND	58	ug/kg	7.8
2-Hexanone	ND	2900	ug/kg	28
Isopropylbenzene	ND	290	ug/kg	5.9
Methyl acetate	ND	1400	ug/kg	60
Methylene chloride	ND	290	ug/kg	110
Methylcyclohexane	ND	1400	ug/kg	6.6
4-Methyl-2-pentanone	ND	2900	ug/kg	13
Methyl tert-butyl ether	ND	290	ug/kg	12
Styrene	ND	58	ug/kg	32

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-086

GC/MS Volatiles

Lot-Sample #...: A4G150200-009 Work Order #...: GK57E1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.5
Tetrachloroethene	ND	58	ug/kg	10
Toluene	ND	120	ug/kg	10
1,2,4-Trichloro- benzene	ND	290	ug/kg	14
1,1,1-Trichloroethane	ND	58	ug/kg	11
1,1,2-Trichloroethane	ND	58	ug/kg	11
Trichloroethene	ND	58	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.6
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	290	ug/kg	12
Vinyl chloride	ND	120	ug/kg	18
Xylenes (total)	ND	170	ug/kg	17

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	72	(59 - 138)
1,2-Dichloroethane-d4	78	(61 - 130)
Toluene-d8	94	(60 - 143)
4-Bromofluorobenzene	83	(47 - 158)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-087

GC/MS Volatiles

Lot-Sample #...: A4G150200-010 Work Order #...: GK57F1AA Matrix.....: SO
 Date Sampled...: 07/14/04 11:50 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/19/04
 Prep Batch #...: 4202313
 Dilution Factor: 1.05 Initial Wgt/Vol: 23.8 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 3.8 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	820	ug/kg	110
Benzene	ND	55	ug/kg	7.0
Bromodichloromethane	ND	110	ug/kg	13
Bromoform	ND	110	ug/kg	14
Bromomethane	ND	270	ug/kg	27
2-Butanone	ND	820	ug/kg	53
Carbon disulfide	ND	270	ug/kg	22
Carbon tetrachloride	ND	55	ug/kg	13
Chlorobenzene	ND	55	ug/kg	6.9
Chloroethane	ND	270	ug/kg	71
Chloroform	ND	55	ug/kg	13
Chloromethane	22 J,B	270	ug/kg	5.7
Cyclohexane	ND	1300	ug/kg	8.4
Dibromochloromethane	ND	55	ug/kg	7.5
1,2-Dibromo-3-chloro- propane	ND	270	ug/kg	65
1,2-Dibromoethane	ND	270	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	19
1,3-Dichlorobenzene	ND	110	ug/kg	7.9
1,4-Dichlorobenzene	ND	110	ug/kg	8.6
Dichlorodifluoromethane	ND	110	ug/kg	5.9
1,1-Dichloroethane	ND	55	ug/kg	8.0
1,2-Dichloroethane	ND	55	ug/kg	10
1,1-Dichloroethene	ND	55	ug/kg	9.1
cis-1,2-Dichloroethene	ND	55	ug/kg	15
trans-1,2-Dichloroethene	ND	55	ug/kg	12
1,2-Dichloropropane	ND	55	ug/kg	8.1
cis-1,3-Dichloropropene	ND	55	ug/kg	6.0
trans-1,3-Dichloropropene	ND	55	ug/kg	5.9
Ethylbenzene	ND	55	ug/kg	7.4
2-Hexanone	ND	2700	ug/kg	26
Isopropylbenzene	ND	270	ug/kg	5.6
Methyl acetate	ND	1300	ug/kg	57
Methylene chloride	ND	270	ug/kg	110
Methylcyclohexane	ND	1300	ug/kg	6.2
4-Methyl-2-pentanone	ND	2700	ug/kg	12
Methyl tert-butyl ether	ND	270	ug/kg	11
Styrene	ND	55	ug/kg	31

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-087

GC/MS Volatiles

Lot-Sample #....: A4G150200-010 Work Order #....: GK57F1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	8.9
Tetrachloroethene	ND	55	ug/kg	9.8
Toluene	ND	110	ug/kg	9.9
1,2,4-Trichloro- benzene	ND	270	ug/kg	13
1,1,1-Trichloroethane	ND	55	ug/kg	10
1,1,2-Trichloroethane	ND	55	ug/kg	11
Trichloroethene	20 J	55	ug/kg	13
Trichlorofluoromethane	ND	110	ug/kg	9.1
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	270	ug/kg	11
Vinyl chloride	ND	110	ug/kg	17
Xylenes (total)	ND	160	ug/kg	16

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	69	(59 - 138)
1,2-Dichloroethane-d4	79	(61 - 130)
Toluene-d8	94	(60 - 143)
4-Bromofluorobenzene	87	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-088

GC/MS Volatiles

Lot-Sample #...: A4G150200-011 Work Order #...: GK57H1AA Matrix.....: SO
 Date Sampled...: 07/14/04 12:00 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/19/04
 Prep Batch #...: 4202313
 Dilution Factor: 1.02 Initial Wgt/Vol: 24.6 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 3.3 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	790	ug/kg	100
Benzene	ND	53	ug/kg	6.8
Bromodichloromethane	ND	110	ug/kg	13
Bromoform	ND	110	ug/kg	14
Bromomethane	ND	260	ug/kg	26
2-Butanone	ND	790	ug/kg	52
Carbon disulfide	ND	260	ug/kg	21
Carbon tetrachloride	ND	53	ug/kg	13
Chlorobenzene	ND	53	ug/kg	6.6
Chloroethane	ND	260	ug/kg	69
Chloroform	ND	53	ug/kg	13
Chloromethane	20 J, B	260	ug/kg	5.5
Cyclohexane	ND	1300	ug/kg	8.1
Dibromochloromethane	ND	53	ug/kg	7.3
1,2-Dibromo-3-chloro- propane	ND	260	ug/kg	63
1,2-Dibromoethane	ND	260	ug/kg	10
1,2-Dichlorobenzene	ND	110	ug/kg	18
1,3-Dichlorobenzene	ND	110	ug/kg	7.6
1,4-Dichlorobenzene	ND	110	ug/kg	8.3
Dichlorodifluoromethane	ND	110	ug/kg	5.7
1,1-Dichloroethane	ND	53	ug/kg	7.7
1,2-Dichloroethane	ND	53	ug/kg	9.8
1,1-Dichloroethene	ND	53	ug/kg	8.8
cis-1,2-Dichloroethene	ND	53	ug/kg	15
trans-1,2-Dichloroethene	ND	53	ug/kg	12
1,2-Dichloropropane	ND	53	ug/kg	7.8
cis-1,3-Dichloropropene	ND	53	ug/kg	5.8
trans-1,3-Dichloropropene	ND	53	ug/kg	5.7
Ethylbenzene	ND	53	ug/kg	7.2
2-Hexanone	ND	2600	ug/kg	25
Isopropylbenzene	ND	260	ug/kg	5.4
Methyl acetate	ND	1300	ug/kg	55
Methylene chloride	ND	260	ug/kg	100
Methylcyclohexane	ND	1300	ug/kg	6.0
4-Methyl-2-pentanone	ND	2600	ug/kg	12
Methyl tert-butyl ether	ND	260	ug/kg	11
Styrene	ND	53	ug/kg	30

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-088

GC/MS Volatiles

Lot-Sample #...: A4G150200-011 Work Order #...: GK57H1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	8.7
Tetrachloroethene	ND	53	ug/kg	9.5
Toluene	ND	110	ug/kg	9.6
1,2,4-Trichloro- benzene	ND	260	ug/kg	13
1,1,1-Trichloroethane	ND	53	ug/kg	10
1,1,2-Trichloroethane	ND	53	ug/kg	10
Trichloroethene	ND	53	ug/kg	13
Trichlorofluoromethane	ND	110	ug/kg	8.8
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	260	ug/kg	11
Vinyl chloride	ND	110	ug/kg	17
Xylenes (total)	ND	160	ug/kg	16

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	66	(59 - 138)
1,2-Dichloroethane-d4	73	(61 - 130)
Toluene-d8	85	(60 - 143)
4-Bromofluorobenzene	81	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-089

GC/MS Volatiles

Lot-Sample #...: A4G150200-012 Work Order #...: GK57J1AA Matrix.....: SO
 Date Sampled...: 07/14/04 13:55 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/20/04
 Prep Batch #...: 4202313
 Dilution Factor: 8.17 Initial Wgt/Vol: 20.4 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 5.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	6500	ug/kg	850
Benzene	ND	430	ug/kg	55
Bromodichloromethane	ND	860	ug/kg	100
Bromoform	ND	860	ug/kg	110
Bromomethane	ND	2200	ug/kg	220
2-Butanone	ND	6500	ug/kg	420
Carbon disulfide	ND	2200	ug/kg	170
Carbon tetrachloride	ND	430	ug/kg	100
Chlorobenzene	ND	430	ug/kg	54
Chloroethane	ND	2200	ug/kg	560
Chloroform	ND	430	ug/kg	100
Chloromethane	ND	2200	ug/kg	45
Cyclohexane	ND	10000	ug/kg	66
Dibromochloromethane	ND	430	ug/kg	59
1,2-Dibromo-3-chloro- propane	ND	2200	ug/kg	520
1,2-Dibromoethane	ND	2200	ug/kg	85
1,2-Dichlorobenzene	ND	860	ug/kg	150
1,3-Dichlorobenzene	ND	860	ug/kg	62
1,4-Dichlorobenzene	ND	860	ug/kg	68
Dichlorodifluoromethane	ND	860	ug/kg	46
1,1-Dichloroethane	ND	430	ug/kg	63
1,2-Dichloroethane	ND	430	ug/kg	80
1,1-Dichloroethene	ND	430	ug/kg	71
cis-1,2-Dichloroethene	ND	430	ug/kg	120
trans-1,2-Dichloroethene	ND	430	ug/kg	95
1,2-Dichloropropane	ND	430	ug/kg	64
cis-1,3-Dichloropropene	ND	430	ug/kg	47
trans-1,3-Dichloropropene	ND	430	ug/kg	46
Ethylbenzene	ND	430	ug/kg	59
2-Hexanone	ND	22000	ug/kg	210
Isopropylbenzene	ND	2200	ug/kg	44
Methyl acetate	ND	10000	ug/kg	450
Methylene chloride	ND	2200	ug/kg	850
Methylcyclohexane	200 J	10000	ug/kg	49
4-Methyl-2-pentanone	ND	22000	ug/kg	95
Methyl tert-butyl ether	ND	2200	ug/kg	86
Styrene	ND	430	ug/kg	240

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-089

GC/MS Volatiles

Lot-Sample #...: A4G150200-012 Work Order #...: GK57J1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	860	ug/kg	71
Tetrachloroethene	ND	430	ug/kg	77
Toluene	160 J	860	ug/kg	78
1,2,4-Trichloro-benzene	ND	2200	ug/kg	100
1,1,1-Trichloroethane	ND	430	ug/kg	82
1,1,2-Trichloroethane	ND	430	ug/kg	85
Trichloroethene	12000	430	ug/kg	100
Trichlorofluoromethane	ND	860	ug/kg	71
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2200	ug/kg	86
Vinyl chloride	ND	860	ug/kg	140
Xylenes (total)	280 J	1300	ug/kg	130

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	72 DIL	(59 - 138)
1,2-Dichloroethane-d4	74 DIL	(61 - 130)
Toluene-d8	87 DIL	(60 - 143)
4-Bromofluorobenzene	79 DIL	(47 - 158)

NOTE (S) :

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-090

GC/MS Volatiles

Lot-Sample #....: A4G150200-013 Work Order #....: GK57K1AA Matrix.....: SO
 Date Sampled....: 07/14/04 14:00 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/19/04
 Prep Batch #....: 4202313
 Dilution Factor: 1.13 Initial Wgt/Vol: 22.2 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 2.5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	870	ug/kg	110
Benzene	ND	58	ug/kg	7.4
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	290	ug/kg	29
2-Butanone	ND	870	ug/kg	57
Carbon disulfide	ND	290	ug/kg	23
Carbon tetrachloride	ND	58	ug/kg	14
Chlorobenzene	ND	58	ug/kg	7.3
Chloroethane	ND	290	ug/kg	75
Chloroform	ND	58	ug/kg	14
Chloromethane	22 J, B	290	ug/kg	6.0
Cyclohexane	ND	1400	ug/kg	8.9
Dibromochloromethane	ND	58	ug/kg	8.0
1,2-Dibromo-3-chloro- propane	ND	290	ug/kg	70
1,2-Dibromoethane	ND	290	ug/kg	11
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.3
1,4-Dichlorobenzene	ND	120	ug/kg	9.2
Dichlorodifluoromethane	ND	120	ug/kg	6.3
1,1-Dichloroethane	ND	58	ug/kg	8.5
1,2-Dichloroethane	ND	58	ug/kg	11
1,1-Dichloroethene	ND	58	ug/kg	9.6
cis-1,2-Dichloroethene	ND	58	ug/kg	16
trans-1,2-Dichloroethene	ND	58	ug/kg	13
1,2-Dichloropropane	ND	58	ug/kg	8.6
cis-1,3-Dichloropropene	ND	58	ug/kg	6.4
trans-1,3-Dichloropropene	ND	58	ug/kg	6.3
Ethylbenzene	ND	58	ug/kg	7.9
2-Hexanone	ND	2900	ug/kg	28
Isopropylbenzene	ND	290	ug/kg	5.9
Methyl acetate	ND	1400	ug/kg	60
Methylene chloride	ND	290	ug/kg	110
Methylcyclohexane	ND	1400	ug/kg	6.6
4-Methyl-2-pentanone	ND	2900	ug/kg	13
Methyl tert-butyl ether	ND	290	ug/kg	12
Styrene	ND	58	ug/kg	32

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-090

GC/MS Volatiles

Lot-Sample #...: A4G150200-013 Work Order #...: GK57K1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.5
Tetrachloroethene	ND	58	ug/kg	10
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	290	ug/kg	14
1,1,1-Trichloroethane	ND	58	ug/kg	11
1,1,2-Trichloroethane	ND	58	ug/kg	11
Trichloroethene	ND	58	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.6
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	290	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	170	ug/kg	17

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	72	(59 - 138)
1,2-Dichloroethane-d4	81	(61 - 130)
Toluene-d8	94	(60 - 143)
4-Bromofluorobenzene	86	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-091

GC/MS Volatiles

Lot-Sample #...: A4G150200-014 Work Order #...: GK57M1AA Matrix.....: SO
 Date Sampled...: 07/14/04 14:05 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/19/04
 Prep Batch #...: 4202313
 Dilution Factor: 1.2 Initial Wgt/Vol: 20.9 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 2.4 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	920	ug/kg	120
Benzene	ND	61	ug/kg	7.9
Bromodichloromethane	ND	120	ug/kg	15
Bromoform	ND	120	ug/kg	16
Bromomethane	ND	310	ug/kg	31
2-Butanone	ND	920	ug/kg	60
Carbon disulfide	ND	310	ug/kg	25
Carbon tetrachloride	ND	61	ug/kg	15
Chlorobenzene	ND	61	ug/kg	7.7
Chloroethane	ND	310	ug/kg	80
Chloroform	ND	61	ug/kg	15
Chloromethane	ND	310	ug/kg	6.4
Cyclohexane	ND	1500	ug/kg	9.5
Dibromochloromethane	ND	61	ug/kg	8.5
1,2-Dibromo-3-chloro- propane	ND	310	ug/kg	74
1,2-Dibromoethane	ND	310	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	21
1,3-Dichlorobenzene	ND	120	ug/kg	8.8
1,4-Dichlorobenzene	ND	120	ug/kg	9.7
Dichlorodifluoromethane	ND	120	ug/kg	6.6
1,1-Dichloroethane	ND	61	ug/kg	9.0
1,2-Dichloroethane	ND	61	ug/kg	11
1,1-Dichloroethene	ND	61	ug/kg	10
cis-1,2-Dichloroethene	ND	61	ug/kg	17
trans-1,2-Dichloroethene	ND	61	ug/kg	14
1,2-Dichloropropane	ND	61	ug/kg	9.1
cis-1,3-Dichloropropene	ND	61	ug/kg	6.8
trans-1,3-Dichloropropene	ND	61	ug/kg	6.6
Ethylbenzene	ND	61	ug/kg	8.4
2-Hexanone	ND	3100	ug/kg	29
Isopropylbenzene	ND	310	ug/kg	6.3
Methyl acetate	ND	1500	ug/kg	64
Methylene chloride	ND	310	ug/kg	120
Methylcyclohexane	ND	1500	ug/kg	7.0
4-Methyl-2-pentanone	ND	3100	ug/kg	14
Methyl tert-butyl ether	ND	310	ug/kg	12
Styrene	ND	61	ug/kg	34

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-091

GC/MS Volatiles

Lot-Sample #...: A4G150200-014 Work Order #...: GK57M1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	10
Tetrachloroethene	ND	61	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	310	ug/kg	15
1,1,1-Trichloroethane	ND	61	ug/kg	12
1,1,2-Trichloroethane	ND	61	ug/kg	12
Trichloroethene	ND	61	ug/kg	15
Trichlorofluoromethane	ND	120	ug/kg	10
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	310	ug/kg	12
Vinyl chloride	ND	120	ug/kg	20
Xylenes (total)	ND	180	ug/kg	18

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	75	(59 - 138)
1,2-Dichloroethane-d4	81	(61 - 130)
Toluene-d8	93	(60 - 143)
4-Bromofluorobenzene	85	(47 - 158)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-092

GC/MS Volatiles

Lot-Sample #....: A4G150200-015 Work Order #....: GK57N1AA Matrix.....: SO
 Date Sampled....: 07/14/04 14:10 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/19/04
 Prep Batch #....: 4202313
 Dilution Factor: 1.14 Initial Wgt/Vol: 21.9 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 3.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	880	ug/kg	120
Benzene	ND	59	ug/kg	7.5
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	290	ug/kg	29
2-Butanone	ND	880	ug/kg	58
Carbon disulfide	ND	290	ug/kg	24
Carbon tetrachloride	ND	59	ug/kg	14
Chlorobenzene	ND	59	ug/kg	7.4
Chloroethane	ND	290	ug/kg	76
Chloroform	ND	59	ug/kg	14
Chloromethane	ND	290	ug/kg	6.1
Cyclohexane	ND	1400	ug/kg	9.0
Dibromochloromethane	ND	59	ug/kg	8.1
1,2-Dibromo-3-chloro- propane	ND	290	ug/kg	71
1,2-Dibromoethane	ND	290	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.5
1,4-Dichlorobenzene	ND	120	ug/kg	9.3
Dichlorodifluoromethane	ND	120	ug/kg	6.3
1,1-Dichloroethane	ND	59	ug/kg	8.6
1,2-Dichloroethane	ND	59	ug/kg	11
1,1-Dichloroethene	ND	59	ug/kg	9.8
cis-1,2-Dichloroethene	ND	59	ug/kg	16
trans-1,2-Dichloroethene	ND	59	ug/kg	13
1,2-Dichloropropane	ND	59	ug/kg	8.7
cis-1,3-Dichloropropene	ND	59	ug/kg	6.5
trans-1,3-Dichloropropene	ND	59	ug/kg	6.3
Ethylbenzene	ND	59	ug/kg	8.0
2-Hexanone	ND	2900	ug/kg	28
Isopropylbenzene	ND	290	ug/kg	6.0
Methyl acetate	ND	1400	ug/kg	61
Methylene chloride	ND	290	ug/kg	120
Methylcyclohexane	ND	1400	ug/kg	6.7
4-Methyl-2-pentanone	ND	2900	ug/kg	13
Methyl tert-butyl ether	ND	290	ug/kg	12
Styrene	ND	59	ug/kg	33

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-092

GC/MS Volatiles

Lot-Sample #...: A4G150200-015 Work Order #...: GK57N1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.6
Tetrachloroethene	ND	59	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	290	ug/kg	14
1,1,1-Trichloroethane	ND	59	ug/kg	11
1,1,2-Trichloroethane	ND	59	ug/kg	12
Trichloroethene	ND	59	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.8
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	290	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	180	ug/kg	18

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	82	(59 - 138)
1,2-Dichloroethane-d4	89	(61 - 130)
Toluene-d8	104	(60 - 143)
4-Bromofluorobenzene	93	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-093

GC/MS Volatiles

Lot-Sample #...: A4G150200-016 Work Order #...: GK57P1AA Matrix.....: SO
 Date Sampled...: 07/14/04 14:15 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/19/04
 Prep Batch #...: 4202313
 Dilution Factor: 1.11 Initial Wgt/Vol: 22.6 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 5.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	880	ug/kg	120
Benzene	ND	58	ug/kg	7.5
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	290	ug/kg	29
2-Butanone	ND	880	ug/kg	57
Carbon disulfide	ND	290	ug/kg	23
Carbon tetrachloride	ND	58	ug/kg	14
Chlorobenzene	ND	58	ug/kg	7.4
Chloroethane	ND	290	ug/kg	76
Chloroform	ND	58	ug/kg	14
Chloromethane	ND	290	ug/kg	6.1
Cyclohexane	ND	1400	ug/kg	9.0
Dibromochloromethane	ND	58	ug/kg	8.1
1,2-Dibromo-3-chloro- propane	ND	290	ug/kg	70
1,2-Dibromoethane	ND	290	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.4
1,4-Dichlorobenzene	ND	120	ug/kg	9.2
Dichlorodifluoromethane	ND	120	ug/kg	6.3
1,1-Dichloroethane	ND	58	ug/kg	8.5
1,2-Dichloroethane	ND	58	ug/kg	11
1,1-Dichloroethene	ND	58	ug/kg	9.7
cis-1,2-Dichloroethene	ND	58	ug/kg	16
trans-1,2-Dichloroethene	ND	58	ug/kg	13
1,2-Dichloropropane	ND	58	ug/kg	8.6
cis-1,3-Dichloropropene	ND	58	ug/kg	6.4
trans-1,3-Dichloropropene	ND	58	ug/kg	6.3
Ethylbenzene	ND	58	ug/kg	7.9
2-Hexanone	ND	2900	ug/kg	28
Isopropylbenzene	ND	290	ug/kg	6.0
Methyl acetate	ND	1400	ug/kg	61
Methylene chloride	ND	290	ug/kg	120
Methylcyclohexane	ND	1400	ug/kg	6.7
4-Methyl-2-pentanone	ND	2900	ug/kg	13
Methyl tert-butyl ether	ND	290	ug/kg	12
Styrene	ND	58	ug/kg	33

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: 8-17360-071404-DCR-093

GC/MS Volatiles

Lot-Sample #...: A4G150200-016 Work Order #...: GK57P1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.6
Tetrachloroethene	ND	58	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	290	ug/kg	14
1,1,1-Trichloroethane	ND	58	ug/kg	11
1,1,2-Trichloroethane	ND	58	ug/kg	12
Trichloroethene	40 J	58	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.7
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	290	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	180	ug/kg	18

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	74	(59 - 138)
1,2-Dichloroethane-d4	80	(61 - 130)
Toluene-d8	93	(60 - 143)
4-Bromofluorobenzene	85	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-094

GC/MS Volatiles

Lot-Sample #....: A4G150200-017 Work Order #....: GK57Q1AA Matrix.....: SO
 Date Sampled...: 07/14/04 14:20 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4202313
 Dilution Factor: 1.2 Initial Wgt/Vol: 20.9 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 1.9 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	920	ug/kg	120
Benzene	ND	61	ug/kg	7.8
Bromodichloromethane	ND	120	ug/kg	15
Bromoform	ND	120	ug/kg	16
Bromomethane	ND	310	ug/kg	31
2-Butanone	ND	920	ug/kg	60
Carbon disulfide	ND	310	ug/kg	24
Carbon tetrachloride	ND	61	ug/kg	15
Chlorobenzene	ND	61	ug/kg	7.7
Chloroethane	ND	310	ug/kg	80
Chloroform	ND	61	ug/kg	15
Chloromethane	ND	310	ug/kg	6.4
Cyclohexane	ND	1500	ug/kg	9.4
Dibromochloromethane	ND	61	ug/kg	8.4
1,2-Dibromo-3-chloro- propane	ND	310	ug/kg	73
1,2-Dibromoethane	ND	310	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	21
1,3-Dichlorobenzene	ND	120	ug/kg	8.8
1,4-Dichlorobenzene	ND	120	ug/kg	9.7
Dichlorodifluoromethane	ND	120	ug/kg	6.6
1,1-Dichloroethane	ND	61	ug/kg	8.9
1,2-Dichloroethane	ND	61	ug/kg	11
1,1-Dichloroethene	ND	61	ug/kg	10
cis-1,2-Dichloroethene	ND	61	ug/kg	17
trans-1,2-Dichloroethene	ND	61	ug/kg	13
1,2-Dichloropropane	ND	61	ug/kg	9.1
cis-1,3-Dichloropropene	ND	61	ug/kg	6.7
trans-1,3-Dichloropropene	ND	61	ug/kg	6.6
Ethylbenzene	ND	61	ug/kg	8.3
2-Hexanone	ND	3100	ug/kg	29
Isopropylbenzene	ND	310	ug/kg	6.2
Methyl acetate	ND	1500	ug/kg	64
Methylene chloride	ND	310	ug/kg	120
Methylcyclohexane	ND	1500	ug/kg	7.0
4-Methyl-2-pentanone	ND	3100	ug/kg	13
Methyl tert-butyl ether	ND	310	ug/kg	12
Styrene	ND	61	ug/kg	34

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-094

GC/MS Volatiles

Lot-Sample #...: A4G150200-017 Work Order #...: GK57Q1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	10
Tetrachloroethene	ND	61	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	310	ug/kg	15
1,1,1-Trichloroethane	ND	61	ug/kg	12
1,1,2-Trichloroethane	ND	61	ug/kg	12
Trichloroethene	22 J	61	ug/kg	15
Trichlorofluoromethane	ND	120	ug/kg	10
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	310	ug/kg	12
Vinyl chloride	ND	120	ug/kg	20
Xylenes (total)	ND	180	ug/kg	18
	<u>PERCENT</u>	<u>RECOVERY</u>		
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>		
Dibromofluoromethane	68	(59 - 138)		
1,2-Dichloroethane-d4	81	(61 - 130)		
Toluene-d8	94	(60 - 143)		
4-Bromofluorobenzene	85	(47 - 158)		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-095

GC/MS Volatiles

Lot-Sample #....: A4G150200-018 Work Order #....: GK57R1AA Matrix.....: SO
 Date Sampled....: 07/14/04 14:30 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4202313
 Dilution Factor: 1.05 Initial Wgt/Vol: 23.7 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 3.8 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	820	ug/kg	110
Benzene	ND	55	ug/kg	7.0
Bromodichloromethane	ND	110	ug/kg	13
Bromoform	ND	110	ug/kg	14
Bromomethane	ND	270	ug/kg	27
2-Butanone	ND	820	ug/kg	53
Carbon disulfide	ND	270	ug/kg	22
Carbon tetrachloride	ND	55	ug/kg	13
Chlorobenzene	ND	55	ug/kg	6.9
Chloroethane	ND	270	ug/kg	71
Chloroform	ND	55	ug/kg	13
Chloromethane	19 J,B	270	ug/kg	5.7
Cyclohexane	ND	1300	ug/kg	8.4
Dibromochloromethane	ND	55	ug/kg	7.5
1,2-Dibromo-3-chloro- propane	ND	270	ug/kg	65
1,2-Dibromoethane	ND	270	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	19
1,3-Dichlorobenzene	ND	110	ug/kg	7.9
1,4-Dichlorobenzene	ND	110	ug/kg	8.6
Dichlorodifluoromethane	ND	110	ug/kg	5.9
1,1-Dichloroethane	ND	55	ug/kg	8.0
1,2-Dichloroethane	ND	55	ug/kg	10
1,1-Dichloroethene	ND	55	ug/kg	9.1
cis-1,2-Dichloroethene	ND	55	ug/kg	15
trans-1,2-Dichloroethene	ND	55	ug/kg	12
1,2-Dichloropropane	ND	55	ug/kg	8.1
cis-1,3-Dichloropropene	ND	55	ug/kg	6.0
trans-1,3-Dichloropropene	ND	55	ug/kg	5.9
Ethylbenzene	ND	55	ug/kg	7.4
2-Hexanone	ND	2700	ug/kg	26
Isopropylbenzene	ND	270	ug/kg	5.6
Methyl acetate	ND	1300	ug/kg	57
Methylene chloride	ND	270	ug/kg	110
Methylcyclohexane	ND	1300	ug/kg	6.2
4-Methyl-2-pentanone	ND	2700	ug/kg	12
Methyl tert-butyl ether	ND	270	ug/kg	11
Styrene	ND	55	ug/kg	31

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-095

GC/MS Volatiles

Lot-Sample #....: A4G150200-018 Work Order #....: GK57R1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	8.9
Tetrachloroethene	ND	55	ug/kg	9.8
Toluene	ND	110	ug/kg	9.9
1,2,4-Trichloro- benzene	ND	270	ug/kg	13
1,1,1-Trichloroethane	ND	55	ug/kg	10
1,1,2-Trichloroethane	ND	55	ug/kg	11
Trichloroethene	22 J	55	ug/kg	13
Trichlorofluoromethane	ND	110	ug/kg	9.1
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	270	ug/kg	11
Vinyl chloride	ND	110	ug/kg	17
Xylenes (total)	ND	160	ug/kg	16
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	64	(59 - 138)		
1,2-Dichloroethane-d4	79	(61 - 130)		
Toluene-d8	95	(60 - 143)		
4-Bromofluorobenzene	86	(47 - 158)		

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-096

GC/MS Volatiles

Lot-Sample #....: A4G150200-019 Work Order #....: GK57T1AA Matrix.....: SO
 Date Sampled...: 07/14/04 14:40 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4202313
 Dilution Factor: 1.11 Initial Wgt/Vol: 22.6 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 3.2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	860	ug/kg	110
Benzene	ND	57	ug/kg	7.3
Bromodichloromethane	ND	110	ug/kg	14
Bromoform	ND	110	ug/kg	15
Bromomethane	ND	290	ug/kg	29
2-Butanone	ND	860	ug/kg	56
Carbon disulfide	ND	290	ug/kg	23
Carbon tetrachloride	ND	57	ug/kg	14
Chlorobenzene	ND	57	ug/kg	7.2
Chloroethane	ND	290	ug/kg	75
Chloroform	ND	57	ug/kg	14
Chloromethane	18 J,B	290	ug/kg	6.0
Cyclohexane	ND	1400	ug/kg	8.8
Dibromochloromethane	ND	57	ug/kg	7.9
1,2-Dibromo-3-chloro- propane	ND	290	ug/kg	69
1,2-Dibromoethane	ND	290	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	19
1,3-Dichlorobenzene	ND	110	ug/kg	8.3
1,4-Dichlorobenzene	ND	110	ug/kg	9.1
Dichlorodifluoromethane	ND	110	ug/kg	6.2
1,1-Dichloroethane	ND	57	ug/kg	8.4
1,2-Dichloroethane	ND	57	ug/kg	11
1,1-Dichloroethene	ND	57	ug/kg	9.5
cis-1,2-Dichloroethene	ND	57	ug/kg	16
trans-1,2-Dichloroethene	ND	57	ug/kg	13
1,2-Dichloropropane	ND	57	ug/kg	8.5
cis-1,3-Dichloropropene	ND	57	ug/kg	6.3
trans-1,3-Dichloropropene	ND	57	ug/kg	6.2
Ethylbenzene	ND	57	ug/kg	7.8
2-Hexanone	ND	2900	ug/kg	28
Isopropylbenzene	ND	290	ug/kg	5.8
Methyl acetate	ND	1400	ug/kg	60
Methylene chloride	ND	290	ug/kg	110
Methylcyclohexane	ND	1400	ug/kg	6.5
4-Methyl-2-pentanone	ND	2900	ug/kg	13
Methyl tert-butyl ether	ND	290	ug/kg	11
Styrene	ND	57	ug/kg	32

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-096

GC/MS Volatiles

Lot-Sample #...: A4G150200-019 Work Order #...: GK57T1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	9.4
Tetrachloroethene	ND	57	ug/kg	10
Toluene	ND	110	ug/kg	10
1,2,4-Trichloro- benzene	ND	290	ug/kg	14
1,1,1-Trichloroethane	ND	57	ug/kg	11
1,1,2-Trichloroethane	ND	57	ug/kg	11
Trichloroethene	87	57	ug/kg	14
Trichlorofluoromethane	ND	110	ug/kg	9.5
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	290	ug/kg	11
Vinyl chloride	ND	110	ug/kg	18
Xylenes (total)	ND	170	ug/kg	17

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	64	(59 - 138)
1,2-Dichloroethane-d4	79	(61 - 130)
Toluene-d8	92	(60 - 143)
4-Bromofluorobenzene	84	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-097

GC/MS Volatiles

Lot-Sample #...: A4G150200-020 Work Order #...: GK57V1AA Matrix.....: SO
 Date Sampled...: 07/14/04 14:45 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/20/04
 Prep Batch #...: 4202313
 Dilution Factor: 1.08 Initial Wgt/Vol: 23.2 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 1.9 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	830	ug/kg	110
Benzene	ND	55	ug/kg	7.0
Bromodichloromethane	ND	110	ug/kg	13
Bromoform	ND	110	ug/kg	14
Bromomethane	ND	280	ug/kg	28
2-Butanone	ND	830	ug/kg	54
Carbon disulfide	ND	280	ug/kg	22
Carbon tetrachloride	ND	55	ug/kg	13
Chlorobenzene	ND	55	ug/kg	6.9
Chloroethane	ND	280	ug/kg	72
Chloroform	ND	55	ug/kg	13
Chloromethane	ND	280	ug/kg	5.7
Cyclohexane	ND	1300	ug/kg	8.5
Dibromochloromethane	ND	55	ug/kg	7.6
1,2-Dibromo-3-chloro- propane	ND	280	ug/kg	66
1,2-Dibromoethane	ND	280	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	19
1,3-Dichlorobenzene	ND	110	ug/kg	7.9
1,4-Dichlorobenzene	ND	110	ug/kg	8.7
Dichlorodifluoromethane	ND	110	ug/kg	5.9
1,1-Dichloroethane	ND	55	ug/kg	8.0
1,2-Dichloroethane	ND	55	ug/kg	10
1,1-Dichloroethene	ND	55	ug/kg	9.1
cis-1,2-Dichloroethene	ND	55	ug/kg	15
trans-1,2-Dichloroethene	ND	55	ug/kg	12
1,2-Dichloropropane	ND	55	ug/kg	8.1
cis-1,3-Dichloropropene	ND	55	ug/kg	6.1
trans-1,3-Dichloropropene	ND	55	ug/kg	5.9
Ethylbenzene	ND	55	ug/kg	7.5
2-Hexanone	ND	2800	ug/kg	26
Isopropylbenzene	ND	280	ug/kg	5.6
Methyl acetate	ND	1300	ug/kg	57
Methylene chloride	ND	280	ug/kg	110
Methylcyclohexane	ND	1300	ug/kg	6.3
4-Methyl-2-pentanone	ND	2800	ug/kg	12
Methyl tert-butyl ether	ND	280	ug/kg	11
Styrene	ND	55	ug/kg	31

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-097

GC/MS Volatiles

Lot-Sample #...: A4G150200-020 Work Order #...: GK57V1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	9.0
Tetrachloroethene	ND	55	ug/kg	9.9
Toluene	ND	110	ug/kg	10
1,2,4-Trichloro- benzene	ND	280	ug/kg	13
1,1,1-Trichloroethane	ND	55	ug/kg	10
1,1,2-Trichloroethane	ND	55	ug/kg	11
Trichloroethene	63	55	ug/kg	13
Trichlorofluoromethane	ND	110	ug/kg	9.1
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	280	ug/kg	11
Vinyl chloride	ND	110	ug/kg	18
Xylenes (total)	ND	170	ug/kg	17

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	66	(59 - 138)
1,2-Dichloroethane-d4	82	(61 - 130)
Toluene-d8	93	(60 - 143)
4-Bromofluorobenzene	86	(47 - 158)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-098

GC/MS Volatiles

Lot-Sample #...: A4G150200-021 Work Order #...: GK57WLAA Matrix.....: SO
 Date Sampled...: 07/14/04 14:55 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #...: 4203414
 Dilution Factor: 1.15 Initial Wgt/Vol: 21.7 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 3.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	890	ug/kg	120
Benzene	ND	59	ug/kg	7.6
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	300	ug/kg	30
2-Butanone	ND	890	ug/kg	58
Carbon disulfide	ND	300	ug/kg	24
Carbon tetrachloride	ND	59	ug/kg	14
Chlorobenzene	ND	59	ug/kg	7.5
Chloroethane	ND	300	ug/kg	77
Chloroform	ND	59	ug/kg	14
Chloromethane	ND	300	ug/kg	6.2
Cyclohexane	ND	1400	ug/kg	9.1
Dibromochloromethane	ND	59	ug/kg	8.2
1,2-Dibromo-3-chloro- propane	ND	300	ug/kg	71
1,2-Dibromoethane	ND	300	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.5
1,4-Dichlorobenzene	ND	120	ug/kg	9.4
Dichlorodifluoromethane	ND	120	ug/kg	6.4
1,1-Dichloroethane	ND	59	ug/kg	8.7
1,2-Dichloroethane	ND	59	ug/kg	11
1,1-Dichloroethene	ND	59	ug/kg	9.8
cis-1,2-Dichloroethene	ND	59	ug/kg	17
trans-1,2-Dichloroethene	ND	59	ug/kg	13
1,2-Dichloropropane	ND	59	ug/kg	8.8
cis-1,3-Dichloropropene	ND	59	ug/kg	6.5
trans-1,3-Dichloropropene	ND	59	ug/kg	6.4
Ethylbenzene	ND	59	ug/kg	8.1
2-Hexanone	ND	3000	ug/kg	28
Isopropylbenzene	ND	300	ug/kg	6.0
Methyl acetate	ND	1400	ug/kg	62
Methylene chloride	ND	300	ug/kg	120
Methylcyclohexane	ND	1400	ug/kg	6.8
4-Methyl-2-pentanone	ND	3000	ug/kg	13
Methyl tert-butyl ether	ND	300	ug/kg	12
Styrene	ND	59	ug/kg	33

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-098

GC/MS Volatiles

Lot-Sample #....: A4G150200-021 Work Order #....: GK57W1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.7
Tetrachloroethene	ND	59	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	300	ug/kg	14
1,1,1-Trichloroethane	ND	59	ug/kg	11
1,1,2-Trichloroethane	ND	59	ug/kg	12
Trichloroethene	27 J	59	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.8
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	300	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	180	ug/kg	18

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	74	(59 - 138)
1,2-Dichloroethane-d4	84	(61 - 130)
Toluene-d8	96	(60 - 143)
4-Bromofluorobenzene	86	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-099

GC/MS Volatiles

Lot-Sample #....: A4G150200-022 Work Order #....: GK57X1AA Matrix.....: SO
 Date Sampled....: 07/14/04 15:05 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203414
 Dilution Factor: 1.08 Initial Wgt/Vol: 23.1 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 2.5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	830	ug/kg	110
Benzene	ND	55	ug/kg	7.1
Bromodichloromethane	ND	110	ug/kg	13
Bromoform	ND	110	ug/kg	14
Bromomethane	ND	280	ug/kg	28
2-Butanone	ND	830	ug/kg	54
Carbon disulfide	ND	280	ug/kg	22
Carbon tetrachloride	ND	55	ug/kg	13
Chlorobenzene	ND	55	ug/kg	7.0
Chloroethane	ND	280	ug/kg	72
Chloroform	ND	55	ug/kg	13
Chloromethane	ND	280	ug/kg	5.8
Cyclohexane	ND	1300	ug/kg	8.5
Dibromochloromethane	ND	55	ug/kg	7.6
1,2-Dibromo-3-chloro- propane	ND	280	ug/kg	66
1,2-Dibromoethane	ND	280	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	19
1,3-Dichlorobenzene	ND	110	ug/kg	8.0
1,4-Dichlorobenzene	ND	110	ug/kg	8.7
Dichlorodifluoromethane	ND	110	ug/kg	6.0
1,1-Dichloroethane	ND	55	ug/kg	8.1
1,2-Dichloroethane	ND	55	ug/kg	10
1,1-Dichloroethene	ND	55	ug/kg	9.2
cis-1,2-Dichloroethene	ND	55	ug/kg	16
trans-1,2-Dichloroethene	ND	55	ug/kg	12
1,2-Dichloropropane	ND	55	ug/kg	8.2
cis-1,3-Dichloropropene	ND	55	ug/kg	6.1
trans-1,3-Dichloropropene	ND	55	ug/kg	6.0
Ethylbenzene	ND	55	ug/kg	7.5
2-Hexanone	ND	2800	ug/kg	27
Isopropylbenzene	ND	280	ug/kg	5.6
Methyl acetate	ND	1300	ug/kg	58
Methylene chloride	ND	280	ug/kg	110
Methylcyclohexane	ND	1300	ug/kg	6.3
4-Methyl-2-pentanone	ND	2800	ug/kg	12
Methyl tert-butyl ether	ND	280	ug/kg	11
Styrene	ND	55	ug/kg	31

(Continued on next page)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-099

GC/MS Volatiles

Lot-Sample #...: A4G150200-022 Work Order #...: GK57X1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	9.1
Tetrachloroethene	ND	55	ug/kg	10
Toluene	ND	110	ug/kg	10
1,2,4-Trichloro-benzene	ND	280	ug/kg	13
1,1,1-Trichloroethane	ND	55	ug/kg	11
1,1,2-Trichloroethane	ND	55	ug/kg	11
Trichloroethene	46 J	55	ug/kg	13
Trichlorofluoromethane	ND	110	ug/kg	9.2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	280	ug/kg	11
Vinyl chloride	ND	110	ug/kg	18
Xylenes (total)	ND	170	ug/kg	17

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	68	(59 - 138)
1,2-Dichloroethane-d4	81	(61 - 130)
Toluene-d8	93	(60 - 143)
4-Bromofluorobenzene	86	(47 - 158)

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 Volatiles

Client Lot #...: A4G150200
 MB Lot-Sample #: A4G200000-313

Work Order #...: GLE581AA

Matrix.....: SOLID

Analysis Date...: 07/19/04
 Dilution Factor: 1

Prep Date.....: 07/16/04

Final Wgt/Vol...: 25 mL

Prep Batch #...: 4202313

Initial Wgt/Vol: 25 g

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	ND	750	ug/kg	SW846 8260B
Benzene	ND	50	ug/kg	SW846 8260B
Bromodichloromethane	ND	100	ug/kg	SW846 8260B
Bromoform	ND	100	ug/kg	SW846 8260B
Bromomethane	ND	250	ug/kg	SW846 8260B
2-Butanone	ND	750	ug/kg	SW846 8260B
Carbon disulfide	ND	250	ug/kg	SW846 8260B
Carbon tetrachloride	ND	50	ug/kg	SW846 8260B
Chlorobenzene	ND	50	ug/kg	SW846 8260B
Chloroethane	ND	250	ug/kg	SW846 8260B
Chloroform	ND	50	ug/kg	SW846 8260B
Chloromethane	24 J	250	ug/kg	SW846 8260B
Cyclohexane	ND	1200	ug/kg	SW846 8260B
Dibromochloromethane	ND	50	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	250	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	250	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	100	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	100	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	100	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	50	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	50	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	50	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	50	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	50	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	50	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	50	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	50	ug/kg	SW846 8260B
Ethylbenzene	ND	50	ug/kg	SW846 8260B
2-Hexanone	ND	2500	ug/kg	SW846 8260B
Isopropylbenzene	ND	250	ug/kg	SW846 8260B
Methyl acetate	ND	1200	ug/kg	SW846 8260B
Methylene chloride	ND	250	ug/kg	SW846 8260B
Methylcyclohexane	ND	1200	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	2500	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	250	ug/kg	SW846 8260B
Styrene	ND	50	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	100	ug/kg	SW846 8260B
Tetrachloroethene	ND	50	ug/kg	SW846 8260B
Toluene	ND	100	ug/kg	SW846 8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4G150200

Work Order #...: GLE581AA

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
1,2,4-Trichloro- benzene	ND	250	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	50	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	50	ug/kg	SW846 8260B
Trichloroethene	ND	50	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	100	ug/kg	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	250	ug/kg	SW846 8260B
Vinyl chloride	ND	100	ug/kg	SW846 8260B
Xylenes (total)	ND	150	ug/kg	SW846 8260B
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		
Dibromofluoromethane	82	(59 - 138)		
1,2-Dichloroethane-d4	84	(61 - 130)		
Toluene-d8	96	(60 - 143)		
4-Bromofluorobenzene	89	(47 - 158)		

NOTE (S) :

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

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A4G150200
 MB Lot-Sample #: A4G210000-414

Work Order #....: GLJF51AA
 Prep Date.....: 07/16/04
 Prep Batch #....: 4203414
 Initial Wgt/Vol: 25 g

Matrix.....: SOLID
 Final Wgt/Vol...: 25 mL

Analysis Date...: 07/21/04
 Dilution Factor: 1

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	ND	750	ug/kg	SW846 8260B
Benzene	ND	50	ug/kg	SW846 8260B
Bromodichloromethane	ND	100	ug/kg	SW846 8260B
Bromoform	ND	100	ug/kg	SW846 8260B
Bromomethane	ND	250	ug/kg	SW846 8260B
2-Butanone	ND	750	ug/kg	SW846 8260B
Carbon disulfide	ND	250	ug/kg	SW846 8260B
Carbon tetrachloride	ND	50	ug/kg	SW846 8260B
Chlorobenzene	ND	50	ug/kg	SW846 8260B
Chloroethane	ND	250	ug/kg	SW846 8260B
Chloroform	ND	50	ug/kg	SW846 8260B
Chloromethane	15 J	250	ug/kg	SW846 8260B
Cyclohexane	ND	1200	ug/kg	SW846 8260B
Dibromochloromethane	ND	50	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	250	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	250	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	100	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	100	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	100	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	50	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	50	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	50	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	50	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	50	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	50	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	50	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	50	ug/kg	SW846 8260B
Ethylbenzene	ND	50	ug/kg	SW846 8260B
2-Hexanone	ND	2500	ug/kg	SW846 8260B
Isopropylbenzene	ND	250	ug/kg	SW846 8260B
Methyl acetate	ND	1200	ug/kg	SW846 8260B
Methylene chloride	ND	250	ug/kg	SW846 8260B
Methylcyclohexane	ND	1200	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	2500	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	250	ug/kg	SW846 8260B
Styrene	ND	50	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	100	ug/kg	SW846 8260B
Tetrachloroethene	ND	50	ug/kg	SW846 8260B
Toluene	ND	100	ug/kg	SW846 8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4G150200

Work Order #...: GLJF51AA

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
1,2,4-Trichloro-benzene	13 J	250	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	50	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	50	ug/kg	SW846 8260B
Trichloroethene	ND	50	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	100	ug/kg	SW846 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	250	ug/kg	SW846 8260B
Vinyl chloride	ND	100	ug/kg	SW846 8260B
Xylenes (total)	ND	150	ug/kg	SW846 8260B
		PERCENT RECOVERY	RECOVERY LIMITS	
SURROGATE				
Dibromofluoromethane	82		(59 - 138)	
1,2-Dichloroethane-d4	87		(61 - 130)	
Toluene-d8	99		(60 - 143)	
4-Bromofluorobenzene	91		(47 - 158)	

NOTE(S):

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

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A4G150200 Work Order #...: GLE581AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A4G200000-313 GLE581AD-LCSD
 Prep Date.....: 07/16/04 Analysis Date...: 07/19/04
 Prep Batch #...: 4202313
 Dilution Factor: 1 Final Wgt/Vol...: 25 mL
 Initial Wgt/Vol: 25 g

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Benzene	200	190	ug/kg	95		SW846 8260B
	200	190	ug/kg	95	0.010	SW846 8260B
Chlorobenzene	200	200	ug/kg	99		SW846 8260B
	200	200	ug/kg	98	1.0	SW846 8260B
1,1-Dichloroethene	200	200	ug/kg	100		SW846 8260B
	200	200	ug/kg	100	0.080	SW846 8260B
Toluene	200	200	ug/kg	100		SW846 8260B
	200	200	ug/kg	101	0.96	SW846 8260B
Trichloroethene	200	190	ug/kg	93		SW846 8260B
	200	190	ug/kg	97	3.6	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	90	(59 - 138)
	85	(59 - 138)
1,2-Dichloroethane-d4	89	(61 - 130)
	85	(61 - 130)
Toluene-d8	99	(60 - 143)
	94	(60 - 143)
4-Bromofluorobenzene	95	(47 - 158)
	87	(47 - 158)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A4G150200 Work Order #...: GLE581AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A4G200000-313 GLE581AD-LCSD
 Prep Date.....: 07/16/04 Analysis Date...: 07/19/04
 Prep Batch #...: 4202313
 Dilution Factor: 1 Final Wgt/Vol...: 25 mL
 Initial Wgt/Vol: 25 g

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	95	(75 - 129)			SW846 8260B
Chlorobenzene	99	(75 - 127)	0.010	(0-20)	SW846 8260B
1,1-Dichloroethene	98	(75 - 127)	1.0	(0-22)	SW846 8260B
Toluene	100	(55 - 142)	0.080	(0-27)	SW846 8260B
Trichloroethene	101	(71 - 130)	0.96	(0-24)	SW846 8260B
	93	(70 - 131)			SW846 8260B
	97	(70 - 131)	3.6	(0-23)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	90	(59 - 138)
1,2-Dichloroethane-d4	85	(59 - 138)
Toluene-d8	89	(61 - 130)
4-Bromofluorobenzene	85	(61 - 130)
	99	(60 - 143)
	94	(60 - 143)
	95	(47 - 158)
	87	(47 - 158)

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A4G150200 Work Order #....: GLJF51AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A4G210000-414 GLJF51AD-LCSD
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203414
 Dilution Factor: 1 Final Wgt/Vol...: 25 mL
 Initial Wgt/Vol: 25 g

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Benzene	200	180	ug/kg	92		SW846 8260B
	200	200	ug/kg	99	7.2	SW846 8260B
Chlorobenzene	200	190	ug/kg	97		SW846 8260B
	200	200	ug/kg	101	4.6	SW846 8260B
1,1-Dichloroethene	200	180	ug/kg	91		SW846 8260B
	200	190	ug/kg	96	5.8	SW846 8260B
Toluene	200	200	ug/kg	99		SW846 8260B
	200	210	ug/kg	103	3.7	SW846 8260B
Trichloroethene	200	180	ug/kg	92		SW846 8260B
	200	200	ug/kg	99	7.2	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	84	(59 - 138)
	86	(59 - 138)
1,2-Dichloroethane-d4	84	(61 - 130)
	89	(61 - 130)
Toluene-d8	95	(60 - 143)
	100	(60 - 143)
4-Bromofluorobenzene	90	(47 - 158)
	92	(47 - 158)

NOTE (S) :

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A4G150200 Work Order #...: GLJF51AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A4G210000-414 GLJF51AD-LCSD
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #...: 4203414
 Dilution Factor: 1 Final Wgt/Vol...: 25 mL
 Initial Wgt/Vol: 25 g

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	92	(75 - 129)			SW846 8260B
	99	(75 - 129)	7.2	(0-20)	SW846 8260B
Chlorobenzene	97	(75 - 127)			SW846 8260B
	101	(75 - 127)	4.6	(0-22)	SW846 8260B
1,1-Dichloroethene	91	(55 - 142)			SW846 8260B
	96	(55 - 142)	5.8	(0-27)	SW846 8260B
Toluene	99	(71 - 130)			SW846 8260B
	103	(71 - 130)	3.7	(0-24)	SW846 8260B
Trichloroethene	92	(70 - 131)			SW846 8260B
	99	(70 - 131)	7.2	(0-23)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	84	(59 - 138)
	86	(59 - 138)
1,2-Dichloroethane-d4	84	(61 - 130)
	89	(61 - 130)
Toluene-d8	95	(60 - 143)
	100	(60 - 143)
4-Bromofluorobenzene	90	(47 - 158)
	92	(47 - 158)

NOTE (S) :

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

Bold print denotes control parameters

GENERAL CHEMISTRY DATA

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-078

General Chemistry

Lot-Sample #...: A4G150200-001 Work Order #...: GKSLT Matrix.....: SO
Date Sampled...: 07/14/04 10:50 Date Received...: 07/15/04
% Moisture.....: 4.2

<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	95.8	10.0	%	MCAWW 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-079

General Chemistry

Lot-Sample #....: A4G150200-002 Work Order #....: GK5L7 Matrix.....: SO
Date Sampled....: 07/14/04 10:55 Date Received...: 07/15/04
% Moisture.....: 1.8

<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	98.2	10.0	%	MCAWW 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-080

General Chemistry

Lot-Sample #....: A4G150200-003 Work Order #....: GK5L9 Matrix.....: SO
Date Sampled....: 07/14/04 11:00 Date Received...: 07/15/04
% Moisture.....: 1.8

<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	98.2	10.0	%	MCAWW 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-081

General Chemistry

Lot-Sample #...: A4G150200-004 Work Order #...: GK5MC Matrix.....: SO
Date Sampled...: 07/14/04 11:05 Date Received...: 07/15/04
% Moisture.....: 4.1

<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	95.9	10.0	%	MCAWW 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-082

General Chemistry

Lot-Sample #...: A4G150200-005 Work Order #...: GK566 Matrix.....: SO
Date Sampled...: 07/14/04 11:10 Date Received...: 07/15/04
% Moisture.....: 1.9

<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	98.1	10.0	%	MCAWW 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-083

General Chemistry

Lot-Sample #...: A4G150200-006 Work Order #...: GK568 Matrix.....: SO
Date Sampled...: 07/14/04 11:15 Date Received...: 07/15/04
% Moisture.....: 2.3

<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	97.7	10.0	%	MCAWW 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-084

General Chemistry

Lot-Sample #...: A4G150200-007 Work Order #...: GK57C Matrix.....: SO
Date Sampled...: 07/14/04 11:25 Date Received...: 07/15/04
% Moisture.....: 2.2

<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	97.9	10.0	%	MCAWW 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-085

General Chemistry

Lot-Sample #...: A4G150200-008 Work Order #...: GK57D Matrix.....: SO
Date Sampled...: 07/14/04 11:30 Date Received...: 07/15/04
% Moisture.....: 2.0

<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	98.0	10.0	%	MCAW 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-086

General Chemistry

Lot-Sample #...: A4G150200-009 Work Order #...: GK57E Matrix.....: SO
Date Sampled...: 07/14/04 11:40 Date Received...: 07/15/04
% Moisture.....: 2.0

<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	98.0	10.0	%	MCAWW 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-087

General Chemistry

Lot-Sample #...: A4G150200-010 Work Order #...: GK57F Matrix.....: SO
Date Sampled...: 07/14/04 11:50 Date Received...: 07/15/04
% Moisture.....: 3.8

<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	96.3	10.0	%	MCAWW 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-088

General Chemistry

Lot-Sample #....: A4G150200-011 Work Order #....: GK57H Matrix.....: SO
Date Sampled....: 07/14/04 12:00 Date Received...: 07/15/04
% Moisture.....: 3.3

<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	96.7	10.0	%	MCAWW 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-089

General Chemistry

Lot-Sample #...: A4G150200-012 Work Order #...: GK57J Matrix.....: SO
Date Sampled...: 07/14/04 13:55 Date Received...: 07/15/04
% Moisture.....: 5.0

<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	95.0	10.0	%	MCAWW 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-090

General Chemistry

Lot-Sample #....: A4G150200-013 Work Order #....: GK57K Matrix.....: SO
Date Sampled....: 07/14/04 14:00 Date Received...: 07/15/04
% Moisture.....: 2.5

<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	97.5	10.0	%	MCAWW 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-091

General Chemistry

Lot-Sample #...: A4G150200-014 Work Order #...: GK57M Matrix.....: SO
Date Sampled...: 07/14/04 14:05 Date Received...: 07/15/04
% Moisture.....: 2.4

<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	97.6	10.0	%	MCAWW 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-092

General Chemistry

Lot-Sample #....: A4G150200-015 Work Order #....: GK57N Matrix.....: SO
Date Sampled....: 07/14/04 14:10 Date Received...: 07/15/04
% Moisture.....: 3.0

<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	97.0	10.0	%	MCAW 160.3 MOD	07/16-07/19/04	4198073
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-093

General Chemistry

Lot-Sample #...: A4G150200-016 Work Order #...: GK57P Matrix.....: SO
Date Sampled...: 07/14/04 14:15 Date Received...: 07/15/04
% Moisture.....: 5.0

<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	95.0	10.0	%	MCAW 160.3 MOD	07/16-07/19/04	4198073
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-094

General Chemistry

Lot-Sample #...: A4G150200-017 Work Order #...: GK57Q Matrix.....: SO
Date Sampled...: 07/14/04 14:20 Date Received...: 07/15/04
% Moisture.....: 1.9

<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	98.1	10.0	%	MCAWW 160.3 MOD	07/16-07/19/04	4198073
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-095

General Chemistry

Lot-Sample #....: A4G150200-018 Work Order #....: GK57R Matrix.....: SO
Date Sampled....: 07/14/04 14:30 Date Received...: 07/15/04
% Moisture.....: 3.8

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Percent Solids	96.3	10.0	%	MCAWW 160.3 MOD	07/16-07/19/04	4198073
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-096

General Chemistry

Lot-Sample #....: A4G150200-019 Work Order #....: GK57T Matrix.....: SO
Date Sampled....: 07/14/04 14:40 Date Received...: 07/15/04
‡ Moisture.....: 3.2

<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	96.8	10.0	‡	MCAWW 160.3 MOD	07/16-07/19/04	4198073
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-097

General Chemistry

Lot-Sample #...: A4G150200-020 Work Order #...: GK57V Matrix.....: SO
Date Sampled...: 07/14/04 14:45 Date Received...: 07/15/04
% Moisture.....: 1.9

<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	98.1	10.0	%	MCAWW 160.3 MOD	07/16-07/19/04	4198073
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-098

General Chemistry

Lot-Sample #...: A4G150200-021 Work Order #...: GK57W Matrix.....: SO
Date Sampled...: 07/14/04 14:55 Date Received...: 07/15/04
% Moisture.....: 3.0

<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	97.0	10.0	%	MCAWW 160.3 MOD	07/16-07/19/04	4198073
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-099

General Chemistry

Lot-Sample #....: A4G150200-022 Work Order #....: GK57X Matrix.....: SO
Date Sampled....: 07/14/04 15:05 Date Received...: 07/15/04
% Moisture.....: 2.5

<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	97.5	10.0	%	MCAWW 160.3 MOD	07/16-07/19/04	4198073
		Dilution Factor: 1		MDL.....: 10.0		

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A4G150200

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Percent Solids	ND	Work Order #: GK7K51AA 10.0	%	MB Lot-Sample #: A4G160000-072 MCAWW 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1				
Percent Solids	ND	Work Order #: GK7K41AA 10.0	%	MB Lot-Sample #: A4G160000-073 MCAWW 160.3 MOD	07/16-07/19/04	4198073
		Dilution Factor: 1				

NOTE(S):

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

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A4G150200 Work Order #....: GKSLT-SMP Matrix.....: SO

GKSLT-DUP

Date Sampled....: 07/14/04 10:50 Date Received...: 07/15/04

% Moisture.....: 4.2

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
		<u>RESULT</u>		<u>RPD</u>	<u>LIMIT</u>		<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Percent Solids	95.8	96.0	%	0.28	(0-20)	SD Lot-Sample #: A4G150200-001	07/16-07/19/04	4198072
				Dilution Factor: 1				

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A4G150200 Work Order #...: GK57M-SMP Matrix.....: SO

GK57M-DUP

Date Sampled...: 07/14/04 14:05 Date Received...: 07/15/04

% Moisture.....: 2.4

<u>PARAM RESULT</u>	<u>DUPLICATE RESULT</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD LIMIT</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.4	%	0.25	(0-20)	SD Lot-Sample #: A4G150200-014 MCAWW 160.3 MOD	07/16-07/19/04	4198072
	97.6						

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A4G150200

Work Order #....: GK57N-SMP
GK57N-DUP

Matrix.....: SO

Date Sampled....: 07/14/04 14:10 Date Received...: 07/15/04

% Moisture.....: 3.0

<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>RPD</u>			<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Percent Solids	97.0	96.8	%	0.19	(0-20)	SD Lot-Sample #: A4G150200-015 MCAWW 160.3 MOD	07/16-07/19/04	4198073

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A4G150200 Work Order #....: GK57X-SMP Matrix.....: SO

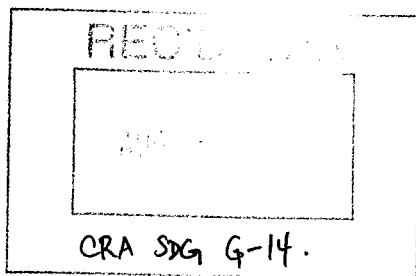
GK57X-DUP

Date Sampled....: 07/14/04 15:05 Date Received...: 07/15/04

% Moisture.....: 2.5

<u>PARAM RESULT</u>	<u>DUPLICATE RESULT</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD LIMIT</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.7	%	0.12	(0-20)	SD Lot-Sample #: A4G150200-022	07/16-07/19/04	4198073
97.5					MCAWW 160.3 MOD		
Dilution Factor: 1							

END OF REPORT



STL

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720

Tel: 330 497 9396 Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 17360-09

GM-GRAND RAPIDS

Lot #: A4G160169

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT

Project#: 17360-09 Lab#: A4G160169

Name: GM GRAND RAPIDS.

SEVERN TRENT LABORATORIES, INC
Description
Event: VAS Sampling
Samples: 33 soils DCR 100-132.
Analysis: TCL VOCs.

TAT: STANDARD TAT

Lab: STL-NC

Amy L. McCormick

Amy L. McCormick
Project Manager

Checked Against Preliminary Data:

Date: N/A Init.: N/A.

Date of Validation Memo: 10/20/04

Invoice Approval Date: _____

Comments: _____

July 30, 2004

CRA
CONESTOGA-ROVERS & ASSOCIATES, INC.
 14496 Sheldon Road, Suite 200
 Plymouth, MI 48170 • (734) 453-5123

SHIPPED TO (Laboratory Name): **STL- North Carter**

REFERENCE NUMBER:
17360-09

PROJECT NAME: **Gm- Grand Rapids**

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: *[Signature]* PRINTED NAME: **David C Rivers**

SEQ. No.	DATE	TIME	SAMPLE TYPE	CONTAINERS	PARAMETERS	REMARKS
	7/15/04	800	Soil	2		STD TAT
		805		2		
		810		2		
		820		2		
		825		2		
		830		2		
		835		2		
		840		2		
		845		2		
		855		2		
		900		2		
		1050		2		
		1055		2		
		1100		2		
				20		

RELINQUISHED BY: *[Signature]* DATE: 7-75-04 TIME: 1900
 RECEIVED BY: 1. _____ DATE: _____ TIME: _____
 2. _____ DATE: _____ TIME: _____
 3. _____ DATE: _____ TIME: _____

METHOD OF SHIPMENT: **FED EX** AIR BILL No. **845068047947**

White - Fully Executed Copy
 Yellow - Receiving Laboratory Copy
 Pink - Shipper Copy
 Goldentrod - Sampler Copy

RECEIVED FOR LABORATORY BY:
[Signature]
 DATE: 7-16-04 TIME: 0925

SAMPLE TEAM:
David C Rivers

27172

Cover - MT 584 2 of 3

CRA
CONESTOGA-ROVERS & ASSOCIATES, INC.
14496 Sheldon Road, Suite 200
Plymouth, MI 48170 • (734) 453-5123

SHIPPED TO (Laboratory Name): STR - North Center

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER:
17360-09

PROJECT NAME: GM - Grand Rapids

SAMPLER'S SIGNATURE: [Signature] PRINTED NAME: David C. Rivers

PARAMETERS
TCL Vols

SEQ. No.	DATE	TIME	SAMPLE TYPE	NO OF CONTAINERS	REMARKS
	7/15/04	1105	S-17360-071504-DCE-114	2	STD TAT
		1110	-115	2	
		1120	-116	2	
		1125	-117	2	
		1130	-118	2	
		1140	-119	2	
		1150	-120	2	
		1200	-121	2	
		1235	-122	2	
		1240	-123	2	
		1245	-124	2	
		1250	-125	2	
		1330	-126	2	
		1335	-127	2	

CRA Contact
Paul Wiseman

TOTAL NUMBER OF CONTAINERS 28

RELINQUISHED BY: <u>[Signature]</u>	DATE: <u>7-15-04</u>	RECEIVED BY: _____	DATE: _____
RELINQUISHED BY: _____	TIME: <u>1900</u>	RECEIVED BY: _____	TIME: _____
RELINQUISHED BY: _____	DATE: _____	RECEIVED BY: _____	DATE: _____
RELINQUISHED BY: _____	TIME: _____	RECEIVED BY: _____	TIME: _____
RELINQUISHED BY: _____	DATE: _____	RECEIVED BY: _____	DATE: _____
RELINQUISHED BY: _____	TIME: _____	RECEIVED BY: _____	TIME: _____

METHOD OF SHIPMENT: FED EX AIR BILL No. 0450 6864 7947

SAMPLE TEAM: David C. Rivers

RECEIVED FOR LABORATORY BY:
[Signature]
DATE: 7-16-04 TIME: 0925

27173



STL

CASE NARRATIVE

CASE NARRATIVE

A4G160169

The following report contains the analytical results for thirty-three solid samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Grand Rapids Site, project number 17360-09. The samples were received July 16, 2004, according to documented sample acceptance procedures.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to the Chemistry Department on July 30, 2004. A summary of QC data for these analyses is included at the back of the report.

STL North Canton attests to the validity of the laboratory data generated by STL facilities reported herein. All analyses performed by STL facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. STL's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

If you have any questions, please call the Project Manager, Amy L. McCormick, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 4.6°C.

CASE NARRATIVE (continued)

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed below.)

Volatile (GC or GC/MS)

Methylene chloride
Acetone
2-Butanone

Semivolatile (GC/MS)

Phthalate Esters

Metals

Copper
Iron
Zinc
Lead*

- *for analyses run on TJA Trace ICP, ICPMS or GFAA only*

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria do not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprep and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprep and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide, PCB, and PAH methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria.

STL North Canton Certifications and Approvals:

Alabama (#41170), California (#01144CA), Connecticut (#PH-0590), Florida (#E87225), Illinois (#100439), Kansas (#E10336), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Ohio (#6090), OhioVAP (#CL0024), Rhode Island (#237), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), Utah (#QUAN9), Virginia (#00011), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence – Participating Lab Status Award (#82)





STL

***EXECUTIVE
SUMMARY***

EXECUTIVE SUMMARY - Detection Highlights

A4G160169

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
S-17360-071504-DCR-100 07/15/04 08:00 001				
Benzene	33 J	200	ug/kg	SW846 8260B
Cyclohexane	31 J	4800	ug/kg	SW846 8260B
Isopropylbenzene	25 J	1000	ug/kg	SW846 8260B
Methylcyclohexane	200 J	4800	ug/kg	SW846 8260B
Toluene	140 J	400	ug/kg	SW846 8260B
Trichloroethene	5700	200	ug/kg	SW846 8260B
Xylenes (total)	200 J	600	ug/kg	SW846 8260B
Percent Solids	95.1	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-101 07/15/04 08:05 002				
Percent Solids	97.5	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-102 07/15/04 08:10 003				
Chloromethane	18 J,B	330	ug/kg	SW846 8260B
Percent Solids	97.9	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-103 07/15/04 08:20 004				
2-Butanone	59 J	910	ug/kg	SW846 8260B
Percent Solids	97.5	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-104 07/15/04 08:25 005				
Percent Solids	97.2	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-105 07/15/04 08:30 006				
Trichloroethene	25 J	56	ug/kg	SW846 8260B
Percent Solids	98.0	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-106 07/15/04 08:35 007				
Percent Solids	96.6	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-107 07/15/04 08:40 008				
Chloromethane	21 J,B	280	ug/kg	SW846 8260B
Trichloroethene	20 J	56	ug/kg	SW846 8260B
Percent Solids	97.7	10.0	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4G160169

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
S-17360-071504-DCR-108 07/15/04 08:45 009				
Trichloroethene	25 J	55	ug/kg	SW846 8260B
Percent Solids	97.4	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-109 07/15/04 08:55 010				
Percent Solids	97.0	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-110 07/15/04 09:00 011				
Percent Solids	93.0	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-111 07/15/04 10:50 012				
Trichloroethene	190	66	ug/kg	SW846 8260B
Percent Solids	94.3	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-112 07/15/04 10:55 013				
Chloromethane	27 J	380	ug/kg	SW846 8260B
Percent Solids	96.8	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-113 07/15/04 11:00 014				
Percent Solids	98.3	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-114 07/15/04 11:05 015				
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-115 07/15/04 11:10 016				
Percent Solids	97.1	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-116 07/15/04 11:20 017				
Chloromethane	21 J	330	ug/kg	SW846 8260B
Percent Solids	95.2	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-117 07/15/04 11:25 018				
Chloromethane	18 J	280	ug/kg	SW846 8260B
Percent Solids	96.2	10.0	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4G160169

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-17360-071504-DCR-118 07/15/04 11:30	019			
Trichloroethene	41 J	61	ug/kg	SW846 8260B
Percent Solids	97.2	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-119 07/15/04 11:40	020			
Percent Solids	98.5	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-120 07/15/04 11:50	021			
Percent Solids	97.4	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-121 07/15/04 12:00	022			
Chloromethane	23 J	270	ug/kg	SW846 8260B
Trichloroethene	18 J	53	ug/kg	SW846 8260B
Percent Solids	95.5	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-122 07/15/04 12:35	023			
Methylcyclohexane	39 J	1400	ug/kg	SW846 8260B
Toluene	21 J	120	ug/kg	SW846 8260B
Trichloroethene	2000	59	ug/kg	SW846 8260B
Xylenes (total)	38 J	180	ug/kg	SW846 8260B
Percent Solids	94.7	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-123 07/15/04 12:40	024			
Percent Solids	96.9	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-124 07/15/04 12:45	025			
Chloromethane	24 J, B	280	ug/kg	SW846 8260B
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-125 07/15/04 12:50	026			
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-126 07/15/04 13:30	027			
1,2,4-Trichloro- benzene	30 J	300	ug/kg	SW846 8260B
Percent Solids	97.7	10.0	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4G160169

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
S-17360-071504-DCR-127 07/15/04 13:35	028			
Percent Solids	95.8	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-128 07/15/04 13:40	029			
Chloromethane	19 J,B	290	ug/kg	SW846 8260B
Trichloroethene	16 J	58	ug/kg	SW846 8260B
Percent Solids	97.5	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-129 07/15/04 13:45	030			
Trichloroethene	14 J	57	ug/kg	SW846 8260B
Percent Solids	96.7	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-130 07/15/04 13:50	031			
Percent Solids	97.6	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-131 07/15/04 14:00	032			
Percent Solids	98.0	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-132 07/15/04 14:10	033			
Percent Solids	87.1	10.0	%	MCAWW 160.3 MOD

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A4G160169

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Total Residue as Percent Solids	MCAWW 160.3 MOD
Volatile Organics by GC/MS	SW846 8260B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.



STL

SAMPLE SUMMARY

SAMPLE SUMMARY

A4G160169

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
GK78C	001	S-17360-071504-DCR-100	07/15/04	08:00
GK78G	002	S-17360-071504-DCR-101	07/15/04	08:05
GK78L	003	S-17360-071504-DCR-102	07/15/04	08:10
GK78N	004	S-17360-071504-DCR-103	07/15/04	08:20
GK78R	005	S-17360-071504-DCR-104	07/15/04	08:25
GK78W	006	S-17360-071504-DCR-105	07/15/04	08:30
GK78X	007	S-17360-071504-DCR-106	07/15/04	08:35
GK781	008	S-17360-071504-DCR-107	07/15/04	08:40
GK783	009	S-17360-071504-DCR-108	07/15/04	08:45
GK784	010	S-17360-071504-DCR-109	07/15/04	08:55
GK786	011	S-17360-071504-DCR-110	07/15/04	09:00
GK788	012	S-17360-071504-DCR-111	07/15/04	10:50
GK789	013	S-17360-071504-DCR-112	07/15/04	10:55
GK79C	014	S-17360-071504-DCR-113	07/15/04	11:00
GK79D	015	S-17360-071504-DCR-114	07/15/04	11:05
GK79H	016	S-17360-071504-DCR-115	07/15/04	11:10
GK79J	017	S-17360-071504-DCR-116	07/15/04	11:20
GK79K	018	S-17360-071504-DCR-117	07/15/04	11:25
GK79M	019	S-17360-071504-DCR-118	07/15/04	11:30
GK79P	020	S-17360-071504-DCR-119	07/15/04	11:40
GK79T	021	S-17360-071504-DCR-120	07/15/04	11:50
GK79W	022	S-17360-071504-DCR-121	07/15/04	12:00
GK791	023	S-17360-071504-DCR-122	07/15/04	12:35
GK793	024	S-17360-071504-DCR-123	07/15/04	12:40
GK795	025	S-17360-071504-DCR-124	07/15/04	12:45
GK798	026	S-17360-071504-DCR-125	07/15/04	12:50
GK8AD	027	S-17360-071504-DCR-126	07/15/04	13:30
GK8AE	028	S-17360-071504-DCR-127	07/15/04	13:35
GK8AF	029	S-17360-071504-DCR-128	07/15/04	13:40
GK8AG	030	S-17360-071504-DCR-129	07/15/04	13:45
GK8AH	031	S-17360-071504-DCR-130	07/15/04	13:50
GK8AJ	032	S-17360-071504-DCR-131	07/15/04	14:00
GK8AK	033	S-17360-071504-DCR-132	07/15/04	14:10

(Continued on next page)

SAMPLE SUMMARY

A4G160169

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
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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 filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.



STL

***SHIPPING
AND
RECEIVING DOCUMENTS***

CRA

CONESTOGA-ROVERS & ASSOCIATES, INC.
 14496 Sheldon Road, Suite 200
 Plymouth, MI 48170 • (734) 453-5123

SHIPPED TO (Laboratory Name): *STL-North Canton*

Coals - MI SE 4 1 of 3

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER:
17368-09

PROJECT NAME: *Gm - Grand Rapids*

SAMPLER'S SIGNATURE: *[Signature]* PRINTED NAME: *David C Rivers*

PARAMETERS

REMARKS

SEQ. No.	DATE	TIME		SAMPLE TYPE	NO. OF CONTAINERS	PARAMETERS	REMARKS
	<i>7/15/64</i>	<i>8:00</i>	<i>S-17368-6</i>	<i>71524-D</i>	<i>100</i>	<i>Soil</i>	<i>STD TR-T</i>
		<i>8:05</i>			<i>2</i>		
		<i>8:10</i>			<i>2</i>		
		<i>8:20</i>			<i>2</i>		
		<i>8:25</i>			<i>2</i>		
		<i>8:30</i>			<i>2</i>		
		<i>8:35</i>			<i>2</i>		
		<i>8:40</i>			<i>2</i>		
		<i>8:45</i>			<i>2</i>		
		<i>8:55</i>			<i>2</i>		
		<i>9:00</i>			<i>2</i>		
		<i>10:50</i>			<i>2</i>		
		<i>10:55</i>			<i>2</i>		
		<i>11:00</i>			<i>2</i>		
		<i>11:10</i>			<i>2</i>		
		<i>11:12</i>			<i>2</i>		
		<i>11:13</i>			<i>2</i>		
TOTAL NUMBER OF CONTAINERS					<i>28</i>		<i>GLA Contact Paul Wiseman</i>

RELINQUISHED BY: 1. *[Signature]* DATE: *7-15-64* TIME: *1900* RECEIVED BY: 1. _____ DATE: _____ TIME: _____

RELINQUISHED BY: 2. _____ DATE: _____ TIME: _____ RECEIVED BY: 2. _____ DATE: _____ TIME: _____

RELINQUISHED BY: 3. _____ DATE: _____ TIME: _____ RECEIVED BY: 3. _____ DATE: _____ TIME: _____

METHOD OF SHIPMENT: *FEDEX* AIR BILL No. *845068647947*

White - Fully Executed Copy Pink - Shipper Copy
 Yellow - Receiving Laboratory Copy Goldendred - Sampler Copy

SAMPLE TEAM: *David C Rivers* RECEIVED FOR LABORATORY BY: *[Signature]*
 DATE: *7-16-64* TIME: *0925*

CRA

CONESTOGA-ROVERS & ASSOCIATES, INC.
 14496 Sheldon Road, Suite 200
 Plymouth, MI 48170 • (734) 453-5123

SHIPPED TO (Laboratory Name):

STL - North Canton

Color - MI S84 2 of 3

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER:
17365-09

PROJECT NAME: GM - Grand Rapids

SAMPLERS SIGNATURE: *[Signature]*

PRINTED NAME: David C. Rivers

PARAMETERS
TCL V²

REMARKS

SEQ. No.	DATE	TIME	SAMPLE TYPE	# OF CONTAINERS	REMARKS
	7/15/04	1105	Soil	2	
		1110		2	
		1120		2	
		1125		2	
		1130		2	
		1140		2	
		1150		2	
		1200		2	
		1235		2	
		1240		2	
		1245		2	
		1320		2	
		1330		2	
		1335		2	
TOTAL NUMBER OF CONTAINERS				28	

SEA contact
Paul Wiseman

RELINQUISHED BY: *[Signature]*

RELINQUISHED BY: _____

RELINQUISHED BY: _____

DATE: 7-15-04
TIME: 1900

RECEIVED BY: 1. _____
DATE: _____
TIME: _____

RECEIVED BY: 2. _____
DATE: _____
TIME: _____

RECEIVED BY: 1. _____
DATE: _____
TIME: _____

METHOD OF SHIPMENT: **FED EX**

AIR BILL NO. 045068647947

White - Fully Executed Copy
Yellow - Receiving Laboratory Copy

Pink - Shipper Copy
Goldendrod - Sampler Copy

SAMPLE TEAM: David C. Rivers

RECEIVED FOR LABORATORY BY: *[Signature]*
DATE: 7-16-04 TIME: 0925

CRA

CONESTOGA-ROVERS & ASSOCIATES, INC.

14496 Sheldon Road, Suite 200
Plymouth, MI 48170 • (734) 453-5123

Color - MPE 584 3 of 3

SHIPPED TO (Laboratory Name): STL North Canton

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER: 17360-09

PROJECT NAME: GM - Grand Rapids

SAMPLER'S SIGNATURE: *[Signature]* PRINTED NAME: David C Rivers

SEQ. No.	DATE	TIME	SAMPLE TYPE	NO. OF CONTAINERS		PARAMETERS	REMARKS
				1	2		
	7/9/04	1340	S-17360-071504-Duce-128	2	2	TCU VCS	
		1345		2	2		STD TAR
		1350		2	2		
		1400		2	2		
		1410		2	2		

TOTAL NUMBER OF CONTAINERS 10

CKA contact Paul Wiseman

RELINQUISHED BY: <i>[Signature]</i>	DATE: 7-15-04	RECEIVED BY: 1.	DATE: _____
RELINQUISHED BY: _____	DATE: 7-20	RECEIVED BY: 2.	DATE: _____
RELINQUISHED BY: _____	DATE: _____	RECEIVED BY: 1.	DATE: _____

METHOD OF SHIPMENT: Fed Ex AIR BILL No. 84526064 7947

White - Fully Executed Copy
Yellow - Receiving Laboratory Copy

Pink - Shipper Copy
Goldendrod - Sampler Copy

SAMPLE TEAM: David C. Rivers

RECEIVED FOR LABORATORY BY: *[Signature]*

27174

DATE: 7-16-04 TIME: 0925

RSR280
 Client: 57787
 Lot #: AAG160169
 Case Number/SDG: 17360-09
 Storage Location: C119 MS

Severn Trent Laboratories, Inc.
 Sample Control Record

Laboratory Sample I.D.	Transferred By	Date	Entered	Removed	Reason	Date Returned
GK78C	STILLERJ	7/16/04	Yes		Storage	
GK78G	STILLERJ	7/16/04	Yes		Storage	
GK78L	STILLERJ	7/16/04	Yes		Storage	
GK78N	STILLERJ	7/16/04	Yes		Storage	
GK78R	STILLERJ	7/16/04	Yes		Storage	
GK78W	STILLERJ	7/16/04	Yes		Storage	
GK78X	STILLERJ	7/16/04	Yes		Storage	
GK781	STILLERJ	7/16/04	Yes		Storage	
GK783	STILLERJ	7/16/04	Yes		Storage	
GK784	STILLERJ	7/16/04	Yes		Storage	
GK786	STILLERJ	7/16/04	Yes		Storage	
GK788	STILLERJ	7/16/04	Yes		Storage	
GK789	STILLERJ	7/16/04	Yes		Storage	
GK79C	STILLERJ	7/16/04	Yes		Storage	
GK79D	STILLERJ	7/16/04	Yes		Storage	
GK79H	STILLERJ	7/16/04	Yes		Storage	
GK79J	STILLERJ	7/16/04	Yes		Storage	
GK79K	STILLERJ	7/16/04	Yes		Storage	
GK79M	STILLERJ	7/16/04	Yes		Storage	
GK79P	STILLERJ	7/16/04	Yes		Storage	
GK79T	STILLERJ	7/16/04	Yes		Storage	
GK79W	STILLERJ	7/16/04	Yes		Storage	
GK791	STILLERJ	7/16/04	Yes		Storage	

RSR280

Client:

57787

Lot #:

A4G160169

Case Number/SDG:

17360-09

Storage Location:

C119 MS

Severn Trent Laboratories, Inc.
Sample Control Record

Laboratory Sample I.D.	Transferred By	Date	Entered	Removed	Reason	Date Returned
GK793	STILLERJ	7/16/04	Yes		Storage	
GK795	STILLERJ	7/16/04	Yes		Storage	
GK798	STILLERJ	7/16/04	Yes		Storage	
GK8AD	STILLERJ	7/16/04	Yes		Storage	
GK8AE	STILLERJ	7/16/04	Yes		Storage	
GK8AF	STILLERJ	7/16/04	Yes		Storage	
GK8AG	STILLERJ	7/16/04	Yes		Storage	
GK8AH	STILLERJ	7/16/04	Yes		Storage	
GK8AJ	STILLERJ	7/16/04	Yes		Storage	
GK8AK	STILLERJ	7/16/04	Yes		Storage	

STL Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: A4G/60169

Client: CRA Project: GM-Grand Rapids Quote#: 50154
 Cooler Received on: 7-16-04 Opened on: 7-16-04 by: Cupla Mathew
 (Signature)

Fedx Client Drop Off UPS DHL FAS Other: _____
 STL Cooler No# M1584 Foam Box Client Cooler Other _____

1. Were custody seals on the outside of the cooler? Yes No Intact? Yes No NA
 If YES, Quantity _____
 Were the custody seals signed and dated? Yes No NA
 2. Shipper's packing slip attached to this form? Yes No NA
 3. Did custody papers accompany the samples? Yes No Relinquished by client? Yes No
 4. Did you sign the custody papers in the appropriate place? Yes No
 5. Packing material used: Bubble Wrap Foam None Other: _____
 6. Cooler temperature upon receipt 4.6 °C (see back of form for multiple coolers/temp)
 METHOD: Temp Vial Coolant & Sample Against Bottles IR ICE/H₂O Slurry
 COOLANT: Wet Ice Blue Ice Dry Ice Water None
 7. Did all bottles arrive in good condition (Unbroken)? Yes No
 8. Could all bottle labels and/or tags be reconciled with the COC? Yes No
 9. Were samples at the correct pH? (record below/on back) Yes No NA
 10. Were correct bottles used for the tests indicated? Yes No
 11. Were air bubbles >6 mm in any VOA vials? Yes No NA
 12. Sufficient quantity received to perform indicated analyses? Yes No
- Contacted PM _____ Date: _____ by: _____ via Voice Mail Verbal Other
 Concerning: _____

✓
1. CHAIN OF CUSTODY
 The following discrepancies occurred:

2. SAMPLE CONDITION
 Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION
 Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). Nitric Acid Lot #122603-HNO₃; Sulfuric Acid Lot # 011-304-H₂SO₄; Sodium Hydroxide Lot # 111401-NaOH; Hydrochloric Acid Lot # 100902-HCl; Sodium Hydroxide and Zinc Acetate Lot # 112801-CH₃COO₂ZN/NaOH
 Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. Other (see below or back)

Client ID	pH	Date	Initials

SOP: NC-SC-0005, Sample Receiving
 N:\QAQCWARRANTY\STL\Cooler Receipt\STL\COOLER_STL_Rev39_061104.doc



STL

GCMS VOLATILE DATA

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-100

GC/MS Volatiles

Lot-Sample #...: A4G160169-001 Work Order #...: GK78C1AA Matrix.....: SO
 Date Sampled...: 07/15/04 08:00 Date Received...: 07/16/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/22/04
 Prep Batch #...: 4203414
 Dilution Factor: 3.82 Initial Wgt/Vol: 21.8 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 4.9 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	3000	ug/kg	400
Benzene	33 J	200	ug/kg	26
Bromodichloromethane	ND	400	ug/kg	48
Bromoform	ND	400	ug/kg	52
Bromomethane	ND	1000	ug/kg	100
2-Butanone	ND	3000	ug/kg	200
Carbon disulfide	ND	1000	ug/kg	80
Carbon tetrachloride	ND	200	ug/kg	48
Chlorobenzene	ND	200	ug/kg	25
Chloroethane	ND	1000	ug/kg	260
Chloroform	ND	200	ug/kg	48
Chloromethane	ND	1000	ug/kg	21
Cyclohexane	31 J	4800	ug/kg	31
Dibromochloromethane	ND	200	ug/kg	28
1,2-Dibromo-3-chloro- propane	ND	1000	ug/kg	240
1,2-Dibromoethane	ND	1000	ug/kg	40
1,2-Dichlorobenzene	ND	400	ug/kg	68
1,3-Dichlorobenzene	ND	400	ug/kg	29
1,4-Dichlorobenzene	ND	400	ug/kg	32
Dichlorodifluoromethane	ND	400	ug/kg	22
1,1-Dichloroethane	ND	200	ug/kg	29
1,2-Dichloroethane	ND	200	ug/kg	37
1,1-Dichloroethene	ND	200	ug/kg	33
cis-1,2-Dichloroethene	ND	200	ug/kg	56
trans-1,2-Dichloroethene	ND	200	ug/kg	44
1,2-Dichloropropane	ND	200	ug/kg	30
cis-1,3-Dichloropropene	ND	200	ug/kg	22
trans-1,3-Dichloropropene	ND	200	ug/kg	22
Ethylbenzene	ND	200	ug/kg	27
2-Hexanone	ND	10000	ug/kg	96
Isopropylbenzene	25 J	1000	ug/kg	20
Methyl acetate	ND	4800	ug/kg	210
Methylene chloride	ND	1000	ug/kg	400
Methylcyclohexane	200 J	4800	ug/kg	23
4-Methyl-2-pentanone	ND	10000	ug/kg	44
Methyl tert-butyl ether	ND	1000	ug/kg	40
Styrene	ND	200	ug/kg	110

(Continued on next page)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-100

GC/MS Volatiles

Lot-Sample #...: A4G160169-001 Work Order #...: GK78C1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	400	ug/kg	33
Tetrachloroethene	ND	200	ug/kg	36
Toluene	140 J	400	ug/kg	37
1,2,4-Trichloro- benzene	ND	1000	ug/kg	48
1,1,1-Trichloroethane	ND	200	ug/kg	38
1,1,2-Trichloroethane	ND	200	ug/kg	40
Trichloroethene	5700	200	ug/kg	48
Trichlorofluoromethane	ND	400	ug/kg	33
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1000	ug/kg	40
Vinyl chloride	ND	400	ug/kg	64
Xylenes (total)	200 J	600	ug/kg	60

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	75 DIL	(59 - 138)
1,2-Dichloroethane-d4	81 DIL	(61 - 130)
Toluene-d8	91 DIL	(60 - 143)
4-Bromofluorobenzene	83 DIL	(47 - 158)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-101

GC/MS Volatiles

Lot-Sample #....: A4G160169-002 Work Order #....: GK78G1AA Matrix.....: SO
 Date Sampled....: 07/15/04 08:05 Date Received...: 07/16/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203414
 Dilution Factor: 2.21 Initial Wgt/Vol: 11.3 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 2.5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	1700	ug/kg	220
Benzene	ND	110	ug/kg	15
Bromodichloromethane	ND	230	ug/kg	27
Bromoform	ND	230	ug/kg	29
Bromomethane	ND	570	ug/kg	57
2-Butanone	ND	1700	ug/kg	110
Carbon disulfide	ND	570	ug/kg	45
Carbon tetrachloride	ND	110	ug/kg	27
Chlorobenzene	ND	110	ug/kg	14
Chloroethane	ND	570	ug/kg	150
Chloroform	ND	110	ug/kg	27
Chloromethane	ND	570	ug/kg	12
Cyclohexane	ND	2700	ug/kg	17
Dibromochloromethane	ND	110	ug/kg	16
1,2-Dibromo-3-chloro- propane	ND	570	ug/kg	140
1,2-Dibromoethane	ND	570	ug/kg	22
1,2-Dichlorobenzene	ND	230	ug/kg	39
1,3-Dichlorobenzene	ND	230	ug/kg	16
1,4-Dichlorobenzene	ND	230	ug/kg	18
Dichlorodifluoromethane	ND	230	ug/kg	12
1,1-Dichloroethane	ND	110	ug/kg	17
1,2-Dichloroethane	ND	110	ug/kg	21
1,1-Dichloroethene	ND	110	ug/kg	19
cis-1,2-Dichloroethene	ND	110	ug/kg	32
trans-1,2-Dichloroethene	ND	110	ug/kg	25
1,2-Dichloropropane	ND	110	ug/kg	17
cis-1,3-Dichloropropene	ND	110	ug/kg	12
trans-1,3-Dichloropropene	ND	110	ug/kg	12
Ethylbenzene	ND	110	ug/kg	15
2-Hexanone	ND	5700	ug/kg	54
Isopropylbenzene	ND	570	ug/kg	12
Methyl acetate	ND	2700	ug/kg	120
Methylene chloride	ND	570	ug/kg	220
Methylcyclohexane	ND	2700	ug/kg	13
4-Methyl-2-pentanone	ND	5700	ug/kg	25
Methyl tert-butyl ether	ND	570	ug/kg	23
Styrene	ND	110	ug/kg	63

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-101

GC/MS Volatiles

Lot-Sample #...: A4G160169-002 Work Order #...: GK78G1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	230	ug/kg	19
Tetrachloroethene	ND	110	ug/kg	20
Toluene	ND	230	ug/kg	21
1,2,4-Trichloro- benzene	ND	570	ug/kg	27
1,1,1-Trichloroethane	ND	110	ug/kg	22
1,1,2-Trichloroethane	ND	110	ug/kg	22
Trichloroethene	ND	110	ug/kg	27
Trichlorofluoromethane	ND	230	ug/kg	19
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	570	ug/kg	23
Vinyl chloride	ND	230	ug/kg	36
Xylenes (total)	ND	340	ug/kg	34

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	75	(59 - 138)
1,2-Dichloroethane-d4	84	(61 - 130)
Toluene-d8	96	(60 - 143)
4-Bromofluorobenzene	88	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-102

GC/MS Volatiles

Lot-Sample #...: A4G160169-003 Work Order #...: GK78L1AA Matrix.....: SO
 Date Sampled...: 07/15/04 08:10 Date Received...: 07/16/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #...: 4203414
 Dilution Factor: 1.29 Initial Wgt/Vol: 19.4 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 2.1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	990	ug/kg	130
Benzene	ND	66	ug/kg	8.4
Bromodichloromethane	ND	130	ug/kg	16
Bromoform	ND	130	ug/kg	17
Bromomethane	ND	330	ug/kg	33
2-Butanone	ND	990	ug/kg	65
Carbon disulfide	ND	330	ug/kg	26
Carbon tetrachloride	ND	66	ug/kg	16
Chlorobenzene	ND	66	ug/kg	8.3
Chloroethane	ND	330	ug/kg	86
Chloroform	ND	66	ug/kg	16
Chloromethane	18 J,B	330	ug/kg	6.9
Cyclohexane	ND	1600	ug/kg	10
Dibromochloromethane	ND	66	ug/kg	9.1
1,2-Dibromo-3-chloro- propane	ND	330	ug/kg	79
1,2-Dibromoethane	ND	330	ug/kg	13
1,2-Dichlorobenzene	ND	130	ug/kg	22
1,3-Dichlorobenzene	ND	130	ug/kg	9.5
1,4-Dichlorobenzene	ND	130	ug/kg	10
Dichlorodifluoromethane	ND	130	ug/kg	7.1
1,1-Dichloroethane	ND	66	ug/kg	9.6
1,2-Dichloroethane	ND	66	ug/kg	12
1,1-Dichloroethene	ND	66	ug/kg	11
cis-1,2-Dichloroethene	ND	66	ug/kg	18
trans-1,2-Dichloroethene	ND	66	ug/kg	14
1,2-Dichloropropane	ND	66	ug/kg	9.7
cis-1,3-Dichloropropene	ND	66	ug/kg	7.2
trans-1,3-Dichloropropene	ND	66	ug/kg	7.1
Ethylbenzene	ND	66	ug/kg	9.0
2-Hexanone	ND	3300	ug/kg	32
Isopropylbenzene	ND	330	ug/kg	6.7
Methyl acetate	ND	1600	ug/kg	69
Methylene chloride	ND	330	ug/kg	130
Methylcyclohexane	ND	1600	ug/kg	7.5
4-Methyl-2-pentanone	ND	3300	ug/kg	14
Methyl tert-butyl ether	ND	330	ug/kg	13
Styrene	ND	66	ug/kg	37

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-102

GC/MS Volatiles

Lot-Sample #...: A4G160169-003 Work Order #...: GK78L1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	130	ug/kg	11
Tetrachloroethene	ND	66	ug/kg	12
Toluene	ND	130	ug/kg	12
1,2,4-Trichloro- benzene	ND	330	ug/kg	16
1,1,1-Trichloroethane	ND	66	ug/kg	13
1,1,2-Trichloroethane	ND	66	ug/kg	13
Trichloroethene	ND	66	ug/kg	16
Trichlorofluoromethane	ND	130	ug/kg	11
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	330	ug/kg	13
Vinyl chloride	ND	130	ug/kg	21
Xylenes (total)	ND	200	ug/kg	20

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	76	(59 - 138)
1,2-Dichloroethane-d4	83	(61 - 130)
Toluene-d8	94	(60 - 143)
4-Bromofluorobenzene	86	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-103

GC/MS Volatiles

Lot-Sample #....: A4G160169-004 Work Order #....: GK78N1AA Matrix.....: SO
 Date Sampled....: 07/15/04 08:20 Date Received...: 07/16/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203414
 Dilution Factor: 1.18 Initial Wgt/Vol: 21.1 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 2.5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	910	ug/kg	120
Benzene	ND	61	ug/kg	7.7
Bromodichloromethane	ND	120	ug/kg	15
Bromoform	ND	120	ug/kg	16
Bromomethane	ND	300	ug/kg	30
2-Butanone	59 J	910	ug/kg	59
Carbon disulfide	ND	300	ug/kg	24
Carbon tetrachloride	ND	61	ug/kg	15
Chlorobenzene	ND	61	ug/kg	7.6
Chloroethane	ND	300	ug/kg	79
Chloroform	ND	61	ug/kg	15
Chloromethane	ND	300	ug/kg	6.3
Cyclohexane	ND	1500	ug/kg	9.3
Dibromochloromethane	ND	61	ug/kg	8.3
1,2-Dibromo-3-chloro- propane	ND	300	ug/kg	73
1,2-Dibromoethane	ND	300	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	21
1,3-Dichlorobenzene	ND	120	ug/kg	8.7
1,4-Dichlorobenzene	ND	120	ug/kg	9.6
Dichlorodifluoromethane	ND	120	ug/kg	6.5
1,1-Dichloroethane	ND	61	ug/kg	8.8
1,2-Dichloroethane	ND	61	ug/kg	11
1,1-Dichloroethene	ND	61	ug/kg	10
cis-1,2-Dichloroethene	ND	61	ug/kg	17
trans-1,2-Dichloroethene	ND	61	ug/kg	13
1,2-Dichloropropane	ND	61	ug/kg	9.0
cis-1,3-Dichloropropene	ND	61	ug/kg	6.7
trans-1,3-Dichloropropene	ND	61	ug/kg	6.5
Ethylbenzene	ND	61	ug/kg	8.2
2-Hexanone	ND	3000	ug/kg	29
Isopropylbenzene	ND	300	ug/kg	6.2
Methyl acetate	ND	1500	ug/kg	63
Methylene chloride	ND	300	ug/kg	120
Methylcyclohexane	ND	1500	ug/kg	6.9
4-Methyl-2-pentanone	ND	3000	ug/kg	13
Methyl tert-butyl ether	ND	300	ug/kg	12
Styrene	ND	61	ug/kg	34

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-103

GC/MS Volatiles

Lot-Sample #...: A4G160169-004 Work Order #...: GK78N1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.9
Tetrachloroethene	ND	61	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	300	ug/kg	15
1,1,1-Trichloroethane	ND	61	ug/kg	11
1,1,2-Trichloroethane	ND	61	ug/kg	12
Trichloroethene	ND	61	ug/kg	15
Trichlorofluoromethane	ND	120	ug/kg	10
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	300	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	180	ug/kg	18

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	78	(59 - 138)
1,2-Dichloroethane-d4	83	(61 - 130)
Toluene-d8	97	(60 - 143)
4-Bromofluorobenzene	88	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-104

GC/MS Volatiles

Lot-Sample #....: A4G160169-005 Work Order #....: GK78R1AA Matrix.....: SO
 Date Sampled...: 07/15/04 08:25 Date Received...: 07/16/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203414
 Dilution Factor: 1.17 Initial Wgt/Vol: 21.4 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 2.8 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	900	ug/kg	120
Benzene	ND	60	ug/kg	7.7
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	16
Bromomethane	ND	300	ug/kg	30
2-Butanone	ND	900	ug/kg	59
Carbon disulfide	ND	300	ug/kg	24
Carbon tetrachloride	ND	60	ug/kg	14
Chlorobenzene	ND	60	ug/kg	7.6
Chloroethane	ND	300	ug/kg	78
Chloroform	ND	60	ug/kg	14
Chloromethane	ND	300	ug/kg	6.3
Cyclohexane	ND	1400	ug/kg	9.3
Dibromochloromethane	ND	60	ug/kg	8.3
1,2-Dibromo-3-chloro- propane	ND	300	ug/kg	72
1,2-Dibromoethane	ND	300	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.7
1,4-Dichlorobenzene	ND	120	ug/kg	9.5
Dichlorodifluoromethane	ND	120	ug/kg	6.5
1,1-Dichloroethane	ND	60	ug/kg	8.8
1,2-Dichloroethane	ND	60	ug/kg	11
1,1-Dichloroethene	ND	60	ug/kg	10
cis-1,2-Dichloroethene	ND	60	ug/kg	17
trans-1,2-Dichloroethene	ND	60	ug/kg	13
1,2-Dichloropropane	ND	60	ug/kg	8.9
cis-1,3-Dichloropropene	ND	60	ug/kg	6.6
trans-1,3-Dichloropropene	ND	60	ug/kg	6.5
Ethylbenzene	ND	60	ug/kg	8.2
2-Hexanone	ND	3000	ug/kg	29
Isopropylbenzene	ND	300	ug/kg	6.1
Methyl acetate	ND	1400	ug/kg	63
Methylene chloride	ND	300	ug/kg	120
Methylcyclohexane	ND	1400	ug/kg	6.9
4-Methyl-2-pentanone	ND	3000	ug/kg	13
Methyl tert-butyl ether	ND	300	ug/kg	12
Styrene	ND	60	ug/kg	34

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-104

GC/MS Volatiles

Lot-Sample #...: A4G160169-005 Work Order #...: GK78R1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.9
Tetrachloroethene	ND	60	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro-benzene	ND	300	ug/kg	14
1,1,1-Trichloroethane	ND	60	ug/kg	11
1,1,2-Trichloroethane	ND	60	ug/kg	12
Trichloroethene	ND	60	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	300	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	180	ug/kg	18

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	75	(59 - 138)
1,2-Dichloroethane-d4	83	(61 - 130)
Toluene-d8	95	(60 - 143)
4-Bromofluorobenzene	87	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-105

GC/MS Volatiles

Lot-Sample #....: A4G160169-006 Work Order #....: GK78W1AA Matrix.....: SO
 Date Sampled...: 07/15/04 08:30 Date Received...: 07/16/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203414
 Dilution Factor: 1.09 Initial Wgt/Vol: 23 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 2.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	830	ug/kg	110
Benzene	ND	56	ug/kg	7.1
Bromodichloromethane	ND	110	ug/kg	13
Bromoform	ND	110	ug/kg	14
Bromomethane	ND	280	ug/kg	28
2-Butanone	ND	830	ug/kg	54
Carbon disulfide	ND	280	ug/kg	22
Carbon tetrachloride	ND	56	ug/kg	13
Chlorobenzene	ND	56	ug/kg	7.0
Chloroethane	ND	280	ug/kg	72
Chloroform	ND	56	ug/kg	13
Chloromethane	ND	280	ug/kg	5.8
Cyclohexane	ND	1300	ug/kg	8.6
Dibromochloromethane	ND	56	ug/kg	7.7
1,2-Dibromo-3-chloro- propane	ND	280	ug/kg	67
1,2-Dibromoethane	ND	280	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	19
1,3-Dichlorobenzene	ND	110	ug/kg	8.0
1,4-Dichlorobenzene	ND	110	ug/kg	8.8
Dichlorodifluoromethane	ND	110	ug/kg	6.0
1,1-Dichloroethane	ND	56	ug/kg	8.1
1,2-Dichloroethane	ND	56	ug/kg	10
1,1-Dichloroethene	ND	56	ug/kg	9.2
cis-1,2-Dichloroethene	ND	56	ug/kg	16
trans-1,2-Dichloroethene	ND	56	ug/kg	12
1,2-Dichloropropane	ND	56	ug/kg	8.2
cis-1,3-Dichloropropene	ND	56	ug/kg	6.1
trans-1,3-Dichloropropene	ND	56	ug/kg	6.0
Ethylbenzene	ND	56	ug/kg	7.6
2-Hexanone	ND	2800	ug/kg	27
Isopropylbenzene	ND	280	ug/kg	5.7
Methyl acetate	ND	1300	ug/kg	58
Methylene chloride	ND	280	ug/kg	110
Methylcyclohexane	ND	1300	ug/kg	6.3
4-Methyl-2-pentanone	ND	2800	ug/kg	12
Methyl tert-butyl ether	ND	280	ug/kg	11
Styrene	ND	56	ug/kg	31

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-105

GC/MS Volatiles

Lot-Sample #...: A4G160169-006 Work Order #...: GK78W1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	9.1
Tetrachloroethene	ND	56	ug/kg	10
Toluene	ND	110	ug/kg	10
1,2,4-Trichloro-benzene	ND	280	ug/kg	13
1,1,1-Trichloroethane	ND	56	ug/kg	11
1,1,2-Trichloroethane	ND	56	ug/kg	11
Trichloroethene	25 J	56	ug/kg	13
Trichlorofluoromethane	ND	110	ug/kg	9.2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	280	ug/kg	11
Vinyl chloride	ND	110	ug/kg	18
Xylenes (total)	ND	170	ug/kg	17

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	74	(59 - 138)
1,2-Dichloroethane-d4	81	(61 - 130)
Toluene-d8	94	(60 - 143)
4-Bromofluorobenzene	86	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-106

GC/MS Volatiles

Lot-Sample #....: A4G160169-007 Work Order #....: GK78X1AA Matrix.....: SO
 Date Sampled....: 07/15/04 08:35 Date Received...: 07/16/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203414
 Dilution Factor: 0.96 Initial Wgt/Vol: 26.1 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 3.4 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	750	ug/kg	98
Benzene	ND	50	ug/kg	6.4
Bromodichloromethane	ND	99	ug/kg	12
Bromoform	ND	99	ug/kg	13
Bromomethane	ND	250	ug/kg	25
2-Butanone	ND	750	ug/kg	49
Carbon disulfide	ND	250	ug/kg	20
Carbon tetrachloride	ND	50	ug/kg	12
Chlorobenzene	ND	50	ug/kg	6.3
Chloroethane	ND	250	ug/kg	65
Chloroform	ND	50	ug/kg	12
Chloromethane	ND	250	ug/kg	5.2
Cyclohexane	ND	1200	ug/kg	7.6
Dibromochloromethane	ND	50	ug/kg	6.9
1,2-Dibromo-3-chloro- propane	ND	250	ug/kg	60
1,2-Dibromoethane	ND	250	ug/kg	9.8
1,2-Dichlorobenzene	ND	99	ug/kg	17
1,3-Dichlorobenzene	ND	99	ug/kg	7.2
1,4-Dichlorobenzene	ND	99	ug/kg	7.8
Dichlorodifluoromethane	ND	99	ug/kg	5.4
1,1-Dichloroethane	ND	50	ug/kg	7.3
1,2-Dichloroethane	ND	50	ug/kg	9.2
1,1-Dichloroethene	ND	50	ug/kg	8.2
cis-1,2-Dichloroethene	ND	50	ug/kg	14
trans-1,2-Dichloroethene	ND	50	ug/kg	11
1,2-Dichloropropane	ND	50	ug/kg	7.4
cis-1,3-Dichloropropene	ND	50	ug/kg	5.5
trans-1,3-Dichloropropene	ND	50	ug/kg	5.4
Ethylbenzene	ND	50	ug/kg	6.8
2-Hexanone	ND	2500	ug/kg	24
Isopropylbenzene	ND	250	ug/kg	5.1
Methyl acetate	ND	1200	ug/kg	52
Methylene chloride	ND	250	ug/kg	98
Methylcyclohexane	ND	1200	ug/kg	5.7
4-Methyl-2-pentanone	ND	2500	ug/kg	11
Methyl tert-butyl ether	ND	250	ug/kg	9.9
Styrene	ND	50	ug/kg	28

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-106

GC/MS Volatiles

Lot-Sample #...: A4G160169-007 Work Order #...: GK78X1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	99	ug/kg	8.1
Tetrachloroethene	ND	50	ug/kg	8.9
Toluene	ND	99	ug/kg	9.0
1,2,4-Trichloro- benzene	ND	250	ug/kg	12
1,1,1-Trichloroethane	ND	50	ug/kg	9.4
1,1,2-Trichloroethane	ND	50	ug/kg	9.8
Trichloroethene	ND	50	ug/kg	12
Trichlorofluoromethane	ND	99	ug/kg	8.2
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	250	ug/kg	9.9
Vinyl chloride	ND	99	ug/kg	16
Xylenes (total)	ND	150	ug/kg	15

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	71	(59 - 138)
1,2-Dichloroethane-d4	82	(61 - 130)
Toluene-d8	93	(60 - 143)
4-Bromofluorobenzene	85	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-107

GC/MS Volatiles

Lot-Sample #...: A4G160169-008 Work Order #...: GK7811AA Matrix.....: SO
 Date Sampled...: 07/15/04 08:40 Date Received...: 07/16/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #...: 4203414
 Dilution Factor: 1.09 Initial Wgt/Vol: 23 g Final Wgt/Vol...: 25 mL
 ‡ Moisture.....: 2.3 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	840	ug/kg	110
Benzene	ND	56	ug/kg	7.1
Bromodichloromethane	ND	110	ug/kg	13
Bromoform	ND	110	ug/kg	15
Bromomethane	ND	280	ug/kg	28
2-Butanone	ND	840	ug/kg	55
Carbon disulfide	ND	280	ug/kg	22
Carbon tetrachloride	ND	56	ug/kg	13
Chlorobenzene	ND	56	ug/kg	7.0
Chloroethane	ND	280	ug/kg	73
Chloroform	ND	56	ug/kg	13
Chloromethane	21 J,B	280	ug/kg	5.8
Cyclohexane	ND	1300	ug/kg	8.6
Dibromochloromethane	ND	56	ug/kg	7.7
1,2-Dibromo-3-chloro- propane	ND	280	ug/kg	67
1,2-Dibromoethane	ND	280	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	19
1,3-Dichlorobenzene	ND	110	ug/kg	8.0
1,4-Dichlorobenzene	ND	110	ug/kg	8.8
Dichlorodifluoromethane	ND	110	ug/kg	6.0
1,1-Dichloroethane	ND	56	ug/kg	8.1
1,2-Dichloroethane	ND	56	ug/kg	10
1,1-Dichloroethene	ND	56	ug/kg	9.3
cis-1,2-Dichloroethene	ND	56	ug/kg	16
trans-1,2-Dichloroethene	ND	56	ug/kg	12
1,2-Dichloropropane	ND	56	ug/kg	8.3
cis-1,3-Dichloropropene	ND	56	ug/kg	6.1
trans-1,3-Dichloropropene	ND	56	ug/kg	6.0
Ethylbenzene	ND	56	ug/kg	7.6
2-Hexanone	ND	2800	ug/kg	27
Isopropylbenzene	ND	280	ug/kg	5.7
Methyl acetate	ND	1300	ug/kg	58
Methylene chloride	ND	280	ug/kg	110
Methylcyclohexane	ND	1300	ug/kg	6.4
4-Methyl-2-pentanone	ND	2800	ug/kg	12
Methyl tert-butyl ether	ND	280	ug/kg	11
Styrene	ND	56	ug/kg	31

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-107

GC/MS Volatiles

Lot-Sample #...: A4G160169-008 Work Order #...: GK7811AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	9.1
Tetrachloroethene	ND	56	ug/kg	10
Toluene	ND	110	ug/kg	10
1,2,4-Trichloro- benzene	ND	280	ug/kg	13
1,1,1-Trichloroethane	ND	56	ug/kg	11
1,1,2-Trichloroethane	ND	56	ug/kg	11
Trichloroethene	20 J	56	ug/kg	13
Trichlorofluoromethane	ND	110	ug/kg	9.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	280	ug/kg	11
Vinyl chloride	ND	110	ug/kg	18
Xylenes (total)	ND	170	ug/kg	17

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	68	(59 - 138)
1,2-Dichloroethane-d4	80	(61 - 130)
Toluene-d8	93	(60 - 143)
4-Bromofluorobenzene	84	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-108

GC/MS Volatiles

Lot-Sample #....: A4G160169-009 Work Order #....: GK7831AA Matrix.....: SO
 Date Sampled...: 07/15/04 08:45 Date Received...: 07/16/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203414
 Dilution Factor: 1.07 Initial Wgt/Vol: 23.4 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 2.6 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	820	ug/kg	110
Benzene	ND	55	ug/kg	7.0
Bromodichloromethane	ND	110	ug/kg	13
Bromoform	ND	110	ug/kg	14
Bromomethane	ND	270	ug/kg	27
2-Butanone	ND	820	ug/kg	54
Carbon disulfide	ND	270	ug/kg	22
Carbon tetrachloride	ND	55	ug/kg	13
Chlorobenzene	ND	55	ug/kg	6.9
Chloroethane	ND	270	ug/kg	71
Chloroform	ND	55	ug/kg	13
Chloromethane	ND	270	ug/kg	5.7
Cyclohexane	ND	1300	ug/kg	8.5
Dibromochloromethane	ND	55	ug/kg	7.6
1,2-Dibromo-3-chloro- propane	ND	270	ug/kg	66
1,2-Dibromoethane	ND	270	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	19
1,3-Dichlorobenzene	ND	110	ug/kg	7.9
1,4-Dichlorobenzene	ND	110	ug/kg	8.7
Dichlorodifluoromethane	ND	110	ug/kg	5.9
1,1-Dichloroethane	ND	55	ug/kg	8.0
1,2-Dichloroethane	ND	55	ug/kg	10
1,1-Dichloroethene	ND	55	ug/kg	9.1
cis-1,2-Dichloroethene	ND	55	ug/kg	15
trans-1,2-Dichloroethene	ND	55	ug/kg	12
1,2-Dichloropropane	ND	55	ug/kg	8.1
cis-1,3-Dichloropropene	ND	55	ug/kg	6.0
trans-1,3-Dichloropropene	ND	55	ug/kg	5.9
Ethylbenzene	ND	55	ug/kg	7.5
2-Hexanone	ND	2700	ug/kg	26
Isopropylbenzene	ND	270	ug/kg	5.6
Methyl acetate	ND	1300	ug/kg	57
Methylene chloride	ND	270	ug/kg	110
Methylcyclohexane	ND	1300	ug/kg	6.3
4-Methyl-2-pentanone	ND	2700	ug/kg	12
Methyl tert-butyl ether	ND	270	ug/kg	11
Styrene	ND	55	ug/kg	31

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-108

GC/MS Volatiles

Lot-Sample #...: A4G160169-009 Work Order #...: GK7831AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	9.0
Tetrachloroethene	ND	55	ug/kg	9.9
Toluene	ND	110	ug/kg	10
1,2,4-Trichloro- benzene	ND	270	ug/kg	13
1,1,1-Trichloroethane	ND	55	ug/kg	10
1,1,2-Trichloroethane	ND	55	ug/kg	11
Trichloroethene	25 J	55	ug/kg	13
Trichlorofluoromethane	ND	110	ug/kg	9.1
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	270	ug/kg	11
Vinyl chloride	ND	110	ug/kg	18
Xylenes (total)	ND	160	ug/kg	16

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	71	(59 - 138)
1,2-Dichloroethane-d4	83	(61 - 130)
Toluene-d8	97	(60 - 143)
4-Bromofluorobenzene	86	(47 - 158)

NOTE (S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-109

GC/MS Volatiles

Lot-Sample #....: A4G160169-010 Work Order #....: GK7841AA Matrix.....: SO
 Date Sampled....: 07/15/04 08:55 Date Received...: 07/16/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203414
 Dilution Factor: 1.2 Initial Wgt/Vol: 20.9 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 3.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	930	ug/kg	120
Benzene	ND	62	ug/kg	7.9
Bromodichloromethane	ND	120	ug/kg	15
Bromoform	ND	120	ug/kg	16
Bromomethane	ND	310	ug/kg	31
2-Butanone	ND	930	ug/kg	61
Carbon disulfide	ND	310	ug/kg	25
Carbon tetrachloride	ND	62	ug/kg	15
Chlorobenzene	ND	62	ug/kg	7.8
Chloroethane	ND	310	ug/kg	80
Chloroform	ND	62	ug/kg	15
Chloromethane	ND	310	ug/kg	6.4
Cyclohexane	ND	1500	ug/kg	9.5
Dibromochloromethane	ND	62	ug/kg	8.5
1,2-Dibromo-3-chloro- propane	ND	310	ug/kg	74
1,2-Dibromoethane	ND	310	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	21
1,3-Dichlorobenzene	ND	120	ug/kg	8.9
1,4-Dichlorobenzene	ND	120	ug/kg	9.8
Dichlorodifluoromethane	ND	120	ug/kg	6.7
1,1-Dichloroethane	ND	62	ug/kg	9.0
1,2-Dichloroethane	ND	62	ug/kg	12
1,1-Dichloroethene	ND	62	ug/kg	10
cis-1,2-Dichloroethene	ND	62	ug/kg	17
trans-1,2-Dichloroethene	ND	62	ug/kg	14
1,2-Dichloropropane	ND	62	ug/kg	9.2
cis-1,3-Dichloropropene	ND	62	ug/kg	6.8
trans-1,3-Dichloropropene	ND	62	ug/kg	6.7
Ethylbenzene	ND	62	ug/kg	8.4
2-Hexanone	ND	3100	ug/kg	30
Isopropylbenzene	ND	310	ug/kg	6.3
Methyl acetate	ND	1500	ug/kg	64
Methylene chloride	ND	310	ug/kg	120
Methylcyclohexane	ND	1500	ug/kg	7.1
4-Methyl-2-pentanone	ND	3100	ug/kg	14
Methyl tert-butyl ether	ND	310	ug/kg	12
Styrene	ND	62	ug/kg	35

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-109

GC/MS Volatiles

Lot-Sample #...: A4G160169-010 Work Order #...: GK7841AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	10
Tetrachloroethene	ND	62	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	310	ug/kg	15
1,1,1-Trichloroethane	ND	62	ug/kg	12
1,1,2-Trichloroethane	ND	62	ug/kg	12
Trichloroethene	ND	62	ug/kg	15
Trichlorofluoromethane	ND	120	ug/kg	10
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	310	ug/kg	12
Vinyl chloride	ND	120	ug/kg	20
Xylenes (total)	ND	190	ug/kg	19

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	67	(59 - 138)
1,2-Dichloroethane-d4	81	(61 - 130)
Toluene-d8	94	(60 - 143)
4-Bromofluorobenzene	86	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-110

GC/MS Volatiles

Lot-Sample #...: A4G160169-011 Work Order #...: GK7861AA Matrix.....: SO
 Date Sampled...: 07/15/04 09:00 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/20/04
 Prep Batch #...: 4203401
 Dilution Factor: 1.32 Initial Wgt/Vol: 3.8 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 7.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	1100	ug/kg	140
Benzene	ND	71	ug/kg	9.1
Bromodichloromethane	ND	140	ug/kg	17
Bromoform	ND	140	ug/kg	18
Bromomethane	ND	350	ug/kg	35
2-Butanone	ND	1100	ug/kg	70
Carbon disulfide	ND	350	ug/kg	28
Carbon tetrachloride	ND	71	ug/kg	17
Chlorobenzene	ND	71	ug/kg	8.9
Chloroethane	ND	350	ug/kg	92
Chloroform	ND	71	ug/kg	17
Chloromethane	ND	350	ug/kg	7.4
Cyclohexane	ND	1700	ug/kg	11
Dibromochloromethane	ND	71	ug/kg	9.8
1,2-Dibromo-3-chloro- propane	ND	350	ug/kg	85
1,2-Dibromoethane	ND	350	ug/kg	14
1,2-Dichlorobenzene	ND	140	ug/kg	24
1,3-Dichlorobenzene	ND	140	ug/kg	10
1,4-Dichlorobenzene	ND	140	ug/kg	11
Dichlorodifluoromethane	ND	140	ug/kg	7.7
1,1-Dichloroethane	ND	71	ug/kg	10
1,2-Dichloroethane	ND	71	ug/kg	13
1,1-Dichloroethene	ND	71	ug/kg	12
cis-1,2-Dichloroethene	ND	71	ug/kg	20
trans-1,2-Dichloroethene	ND	71	ug/kg	16
1,2-Dichloropropane	ND	71	ug/kg	11
cis-1,3-Dichloropropene	ND	71	ug/kg	7.8
trans-1,3-Dichloropropene	ND	71	ug/kg	7.7
Ethylbenzene	ND	71	ug/kg	9.7
2-Hexanone	ND	3500	ug/kg	34
Isopropylbenzene	ND	350	ug/kg	7.2
Methyl acetate	ND	1700	ug/kg	74
Methylene chloride	ND	350	ug/kg	140
Methylcyclohexane	ND	1700	ug/kg	8.1
4-Methyl-2-pentanone	ND	3500	ug/kg	16
Methyl tert-butyl ether	ND	350	ug/kg	14
Styrene	ND	71	ug/kg	40

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-110

GC/MS Volatiles

Lot-Sample #....: A4G160169-011 Work Order #....: GK7861AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	140	ug/kg	12
Tetrachloroethene	ND	71	ug/kg	13
Toluene	ND	140	ug/kg	13
1,2,4-Trichloro- benzene	ND	350	ug/kg	17
1,1,1-Trichloroethane	ND	71	ug/kg	13
1,1,2-Trichloroethane	ND	71	ug/kg	14
Trichloroethene	ND	71	ug/kg	17
Trichlorofluoromethane	ND	140	ug/kg	12
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	350	ug/kg	14
Vinyl chloride	ND	140	ug/kg	23
Xylenes (total)	ND	210	ug/kg	21

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	81	(59 - 138)
1,2-Dichloroethane-d4	82	(61 - 130)
Toluene-d8	98	(60 - 143)
4-Bromofluorobenzene	89	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-111

GC/MS Volatiles

Lot-Sample #...: A4G160169-012 Work Order #...: GK7881AA Matrix.....: SO
 Date Sampled...: 07/15/04 10:50 Date Received..: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date..: 07/20/04
 Prep Batch #...: 4203401
 Dilution Factor: 1.25 Initial Wgt/Vol: 4 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 5.7 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	990	ug/kg	130
Benzene	ND	66	ug/kg	8.5
Bromodichloromethane	ND	130	ug/kg	16
Bromoform	ND	130	ug/kg	17
Bromomethane	ND	330	ug/kg	33
2-Butanone	ND	990	ug/kg	65
Carbon disulfide	ND	330	ug/kg	27
Carbon tetrachloride	ND	66	ug/kg	16
Chlorobenzene	ND	66	ug/kg	8.3
Chloroethane	ND	330	ug/kg	86
Chloroform	ND	66	ug/kg	16
Chloromethane	ND	330	ug/kg	6.9
Cyclohexane	ND	1600	ug/kg	10
Dibromochloromethane	ND	66	ug/kg	9.1
1,2-Dibromo-3-chloro- propane	ND	330	ug/kg	80
1,2-Dibromoethane	ND	330	ug/kg	13
1,2-Dichlorobenzene	ND	130	ug/kg	23
1,3-Dichlorobenzene	ND	130	ug/kg	9.5
1,4-Dichlorobenzene	ND	130	ug/kg	10
Dichlorodifluoromethane	ND	130	ug/kg	7.2
1,1-Dichloroethane	ND	66	ug/kg	9.7
1,2-Dichloroethane	ND	66	ug/kg	12
1,1-Dichloroethene	ND	66	ug/kg	11
cis-1,2-Dichloroethene	ND	66	ug/kg	19
trans-1,2-Dichloroethene	ND	66	ug/kg	15
1,2-Dichloropropane	ND	66	ug/kg	9.8
cis-1,3-Dichloropropene	ND	66	ug/kg	7.3
trans-1,3-Dichloropropene	ND	66	ug/kg	7.2
Ethylbenzene	ND	66	ug/kg	9.0
2-Hexanone	ND	3300	ug/kg	32
Isopropylbenzene	ND	330	ug/kg	6.8
Methyl acetate	ND	1600	ug/kg	69
Methylene chloride	ND	330	ug/kg	130
Methylcyclohexane	ND	1600	ug/kg	7.6
4-Methyl-2-pentanone	ND	3300	ug/kg	15
Methyl tert-butyl ether	ND	330	ug/kg	13
Styrene	ND	66	ug/kg	37

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-111

GC/MS Volatiles

Lot-Sample #...: A4G160169-012 Work Order #...: GK7881AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	130	ug/kg	11
Tetrachloroethene	ND	66	ug/kg	12
Toluene	ND	130	ug/kg	12
1,2,4-Trichloro- benzene	ND	330	ug/kg	16
1,1,1-Trichloroethane	ND	66	ug/kg	13
1,1,2-Trichloroethane	ND	66	ug/kg	13
Trichloroethene	190	66	ug/kg	16
Trichlorofluoromethane	ND	130	ug/kg	11
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	330	ug/kg	13
Vinyl chloride	ND	130	ug/kg	21
Xylenes (total)	ND	200	ug/kg	20

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	79	(59 - 138)
1,2-Dichloroethane-d4	86	(61 - 130)
Toluene-d8	100	(60 - 143)
4-Bromofluorobenzene	93	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-112

GC/MS Volatiles

Lot-Sample #....: A4G160169-013 Work Order #....: GK7891AA Matrix.....: SO
 Date Sampled....: 07/15/04 10:55 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4203401
 Dilution Factor: 1.47 Initial Wgt/Vol: 3.4 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 3.2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	1100	ug/kg	150
Benzene	ND	76	ug/kg	9.7
Bromodichloromethane	ND	150	ug/kg	18
Bromoform	ND	150	ug/kg	20
Bromomethane	ND	380	ug/kg	38
2-Butanone	ND	1100	ug/kg	74
Carbon disulfide	ND	380	ug/kg	30
Carbon tetrachloride	ND	76	ug/kg	18
Chlorobenzene	ND	76	ug/kg	9.6
Chloroethane	ND	380	ug/kg	99
Chloroform	ND	76	ug/kg	18
Chloromethane	27 J	380	ug/kg	7.9
Cyclohexane	ND	1800	ug/kg	12
Dibromochloromethane	ND	76	ug/kg	10
1,2-Dibromo-3-chloro- propane	ND	380	ug/kg	91
1,2-Dibromoethane	ND	380	ug/kg	15
1,2-Dichlorobenzene	ND	150	ug/kg	26
1,3-Dichlorobenzene	ND	150	ug/kg	11
1,4-Dichlorobenzene	ND	150	ug/kg	12
Dichlorodifluoromethane	ND	150	ug/kg	8.2
1,1-Dichloroethane	ND	76	ug/kg	11
1,2-Dichloroethane	ND	76	ug/kg	14
1,1-Dichloroethene	ND	76	ug/kg	13
cis-1,2-Dichloroethene	ND	76	ug/kg	21
trans-1,2-Dichloroethene	ND	76	ug/kg	17
1,2-Dichloropropane	ND	76	ug/kg	11
cis-1,3-Dichloropropene	ND	76	ug/kg	8.3
trans-1,3-Dichloropropene	ND	76	ug/kg	8.2
Ethylbenzene	ND	76	ug/kg	10
2-Hexanone	ND	3800	ug/kg	36
Isopropylbenzene	ND	380	ug/kg	7.7
Methyl acetate	ND	1800	ug/kg	79
Methylene chloride	ND	380	ug/kg	150
Methylcyclohexane	ND	1800	ug/kg	8.7
4-Methyl-2-pentanone	ND	3800	ug/kg	17
Methyl tert-butyl ether	ND	380	ug/kg	15
Styrene	ND	76	ug/kg	43

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-112

GC/MS Volatiles

Lot-Sample #...: A4G160169-013 Work Order #...: GK7891AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	150	ug/kg	12
Tetrachloroethene	ND	76	ug/kg	14
Toluene	ND	150	ug/kg	14
1,2,4-Trichloro- benzene	ND	380	ug/kg	18
1,1,1-Trichloroethane	ND	76	ug/kg	14
1,1,2-Trichloroethane	ND	76	ug/kg	15
Trichloroethene	ND	76	ug/kg	18
Trichlorofluoromethane	ND	150	ug/kg	13
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	380	ug/kg	15
Vinyl chloride	ND	150	ug/kg	24
Xylenes (total)	ND	230	ug/kg	23

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	82	(59 - 138)
1,2-Dichloroethane-d4	88	(61 - 130)
Toluene-d8	104	(60 - 143)
4-Bromofluorobenzene	93	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-113

GC/MS Volatiles

Lot-Sample #....: A4G160169-014 Work Order #....: GK79C1AA Matrix.....: SO
 Date Sampled....: 07/15/04 11:00 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4203401
 Dilution Factor: 1.61 Initial Wgt/Vol: 3.1 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 1.7 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	1200	ug/kg	160
Benzene	ND	82	ug/kg	10
Bromodichloromethane	ND	160	ug/kg	20
Bromoform	ND	160	ug/kg	21
Bromomethane	ND	410	ug/kg	41
2-Butanone	ND	1200	ug/kg	80
Carbon disulfide	ND	410	ug/kg	33
Carbon tetrachloride	ND	82	ug/kg	20
Chlorobenzene	ND	82	ug/kg	10
Chloroethane	ND	410	ug/kg	110
Chloroform	ND	82	ug/kg	20
Chloromethane	ND	410	ug/kg	8.5
Cyclohexane	ND	2000	ug/kg	13
Dibromochloromethane	ND	82	ug/kg	11
1,2-Dibromo-3-chloro- propane	ND	410	ug/kg	98
1,2-Dibromoethane	ND	410	ug/kg	16
1,2-Dichlorobenzene	ND	160	ug/kg	28
1,3-Dichlorobenzene	ND	160	ug/kg	12
1,4-Dichlorobenzene	ND	160	ug/kg	13
Dichlorodifluoromethane	ND	160	ug/kg	8.8
1,1-Dichloroethane	ND	82	ug/kg	12
1,2-Dichloroethane	ND	82	ug/kg	15
1,1-Dichloroethene	ND	82	ug/kg	14
cis-1,2-Dichloroethene	ND	82	ug/kg	23
trans-1,2-Dichloroethene	ND	82	ug/kg	18
1,2-Dichloropropane	ND	82	ug/kg	12
cis-1,3-Dichloropropene	ND	82	ug/kg	9.0
trans-1,3-Dichloropropene	ND	82	ug/kg	8.8
Ethylbenzene	ND	82	ug/kg	11
2-Hexanone	ND	4100	ug/kg	39
Isopropylbenzene	ND	410	ug/kg	8.4
Methyl acetate	ND	2000	ug/kg	85
Methylene chloride	ND	410	ug/kg	160
Methylcyclohexane	ND	2000	ug/kg	9.3
4-Methyl-2-pentanone	ND	4100	ug/kg	18
Methyl tert-butyl ether	ND	410	ug/kg	16
Styrene	ND	82	ug/kg	46

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-113

GC/MS Volatiles

Lot-Sample #...: A4G160169-014 Work Order #...: GK79C1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	160	ug/kg	13
Tetrachloroethene	ND	82	ug/kg	15
Toluene	ND	160	ug/kg	15
1,2,4-Trichloro- benzene	ND	410	ug/kg	20
1,1,1-Trichloroethane	ND	82	ug/kg	16
1,1,2-Trichloroethane	ND	82	ug/kg	16
Trichloroethene	ND	82	ug/kg	20
Trichlorofluoromethane	ND	160	ug/kg	14
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	410	ug/kg	16
Vinyl chloride	ND	160	ug/kg	26
Xylenes (total)	ND	250	ug/kg	25

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	83	(59 - 138)
1,2-Dichloroethane-d4	89	(61 - 130)
Toluene-d8	107	(60 - 143)
4-Bromofluorobenzene	97	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-114

GC/MS Volatiles

Lot-Sample #...: A4G160169-015 Work Order #...: GK79D1AA Matrix.....: SO
 Date Sampled...: 07/15/04 11:05 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/20/04
 Prep Batch #...: 4203401
 Dilution Factor: 1.16 Initial Wgt/Vol: 4.3 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 1.9 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	890	ug/kg	120
Benzene	ND	59	ug/kg	7.6
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	300	ug/kg	30
2-Butanone	ND	890	ug/kg	58
Carbon disulfide	ND	300	ug/kg	24
Carbon tetrachloride	ND	59	ug/kg	14
Chlorobenzene	ND	59	ug/kg	7.4
Chloroethane	ND	300	ug/kg	77
Chloroform	ND	59	ug/kg	14
Chloromethane	ND	300	ug/kg	6.1
Cyclohexane	ND	1400	ug/kg	9.1
Dibromochloromethane	ND	59	ug/kg	8.2
1,2-Dibromo-3-chloro- propane	ND	300	ug/kg	71
1,2-Dibromoethane	ND	300	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.5
1,4-Dichlorobenzene	ND	120	ug/kg	9.3
Dichlorodifluoromethane	ND	120	ug/kg	6.4
1,1-Dichloroethane	ND	59	ug/kg	8.6
1,2-Dichloroethane	ND	59	ug/kg	11
1,1-Dichloroethene	ND	59	ug/kg	9.8
cis-1,2-Dichloroethene	ND	59	ug/kg	17
trans-1,2-Dichloroethene	ND	59	ug/kg	13
1,2-Dichloropropane	ND	59	ug/kg	8.7
cis-1,3-Dichloropropene	ND	59	ug/kg	6.5
trans-1,3-Dichloropropene	ND	59	ug/kg	6.4
Ethylbenzene	ND	59	ug/kg	8.0
2-Hexanone	ND	3000	ug/kg	28
Isopropylbenzene	ND	300	ug/kg	6.0
Methyl acetate	ND	1400	ug/kg	61
Methylene chloride	ND	300	ug/kg	120
Methylcyclohexane	ND	1400	ug/kg	6.7
4-Methyl-2-pentanone	ND	3000	ug/kg	13
Methyl tert-butyl ether	ND	300	ug/kg	12
Styrene	ND	59	ug/kg	33

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-114

GC/MS Volatiles

Lot-Sample #...: A4G160169-015 Work Order #...: GK79D1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.7
Tetrachloroethene	ND	59	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro-benzene	ND	300	ug/kg	14
1,1,1-Trichloroethane	ND	59	ug/kg	11
1,1,2-Trichloroethane	ND	59	ug/kg	12
Trichloroethene	ND	59	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.8
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	300	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	180	ug/kg	18

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	82	(59 - 138)
1,2-Dichloroethane-d4	92	(61 - 130)
Toluene-d8	106	(60 - 143)
4-Bromofluorobenzene	97	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

CONNESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-115

GC/MS Volatiles

Lot-Sample #....: A4G160169-016 Work Order #....: GK79H1AA Matrix.....: SO
 Date Sampled....: 07/15/04 11:10 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4203401
 Dilution Factor: 1.14 Initial Wgt/Vol: 4.4 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 2.9 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	880	ug/kg	120
Benzene	ND	59	ug/kg	7.5
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	290	ug/kg	29
2-Butanone	ND	880	ug/kg	58
Carbon disulfide	ND	290	ug/kg	23
Carbon tetrachloride	ND	59	ug/kg	14
Chlorobenzene	ND	59	ug/kg	7.4
Chloroethane	ND	290	ug/kg	76
Chloroform	ND	59	ug/kg	14
Chloromethane	ND	290	ug/kg	6.1
Cyclohexane	ND	1400	ug/kg	9.0
Dibromochloromethane	ND	59	ug/kg	8.1
1,2-Dibromo-3-chloro- propane	ND	290	ug/kg	70
1,2-Dibromoethane	ND	290	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.4
1,4-Dichlorobenzene	ND	120	ug/kg	9.3
Dichlorodifluoromethane	ND	120	ug/kg	6.3
1,1-Dichloroethane	ND	59	ug/kg	8.6
1,2-Dichloroethane	ND	59	ug/kg	11
1,1-Dichloroethene	ND	59	ug/kg	9.7
cis-1,2-Dichloroethene	ND	59	ug/kg	16
trans-1,2-Dichloroethene	ND	59	ug/kg	13
1,2-Dichloropropane	ND	59	ug/kg	8.7
cis-1,3-Dichloropropene	ND	59	ug/kg	6.5
trans-1,3-Dichloropropene	ND	59	ug/kg	6.3
Ethylbenzene	ND	59	ug/kg	8.0
2-Hexanone	ND	2900	ug/kg	28
Isopropylbenzene	ND	290	ug/kg	6.0
Methyl acetate	ND	1400	ug/kg	61
Methylene chloride	ND	290	ug/kg	120
Methylcyclohexane	ND	1400	ug/kg	6.7
4-Methyl-2-pentanone	ND	2900	ug/kg	13
Methyl tert-butyl ether	ND	290	ug/kg	12
Styrene	ND	59	ug/kg	33

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-115

GC/MS Volatiles

Lot-Sample #...: A4G160169-016 Work Order #...: GK79H1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.6
Tetrachloroethene	ND	59	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	290	ug/kg	14
1,1,1-Trichloroethane	ND	59	ug/kg	11
1,1,2-Trichloroethane	ND	59	ug/kg	12
Trichloroethene	ND	59	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.7
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	290	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	180	ug/kg	18

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	86	(59 - 138)
1,2-Dichloroethane-d4	94	(61 - 130)
Toluene-d8	107	(60 - 143)
4-Bromofluorobenzene	95	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-116

GC/MS Volatiles

Lot-Sample #...: A4G160169-017 Work Order #...: GK79J1AA Matrix.....: SO
 Date Sampled...: 07/15/04 11:20 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/20/04
 Prep Batch #...: 4203401
 Dilution Factor: 1.25 Initial Wgt/Vol: 4 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 4.8 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	980	ug/kg	130
Benzene	ND	66	ug/kg	8.4
Bromodichloromethane	ND	130	ug/kg	16
Bromoform	ND	130	ug/kg	17
Bromomethane	ND	330	ug/kg	33
2-Butanone	ND	980	ug/kg	64
Carbon disulfide	ND	330	ug/kg	26
Carbon tetrachloride	ND	66	ug/kg	16
Chlorobenzene	ND	66	ug/kg	8.3
Chloroethane	ND	330	ug/kg	85
Chloroform	ND	66	ug/kg	16
Chloromethane	21 J	330	ug/kg	6.8
Cyclohexane	ND	1600	ug/kg	10
Dibromochloromethane	ND	66	ug/kg	9.1
1,2-Dibromo-3-chloro- propane	ND	330	ug/kg	79
1,2-Dibromoethane	ND	330	ug/kg	13
1,2-Dichlorobenzene	ND	130	ug/kg	22
1,3-Dichlorobenzene	ND	130	ug/kg	9.5
1,4-Dichlorobenzene	ND	130	ug/kg	10
Dichlorodifluoromethane	ND	130	ug/kg	7.1
1,1-Dichloroethane	ND	66	ug/kg	9.6
1,2-Dichloroethane	ND	66	ug/kg	12
1,1-Dichloroethene	ND	66	ug/kg	11
cis-1,2-Dichloroethene	ND	66	ug/kg	18
trans-1,2-Dichloroethene	ND	66	ug/kg	14
1,2-Dichloropropane	ND	66	ug/kg	9.7
cis-1,3-Dichloropropene	ND	66	ug/kg	7.2
trans-1,3-Dichloropropene	ND	66	ug/kg	7.1
Ethylbenzene	ND	66	ug/kg	8.9
2-Hexanone	ND	3300	ug/kg	32
Isopropylbenzene	ND	330	ug/kg	6.7
Methyl acetate	ND	1600	ug/kg	68
Methylene chloride	ND	330	ug/kg	130
Methylcyclohexane	ND	1600	ug/kg	7.5
4-Methyl-2-pentanone	ND	3300	ug/kg	14
Methyl tert-butyl ether	ND	330	ug/kg	13
Styrene	ND	66	ug/kg	37

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-116

GC/MS Volatiles

Lot-Sample #...: A4G160169-017 Work Order #...: GK79J1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	130	ug/kg	11
Tetrachloroethene	ND	66	ug/kg	12
Toluene	ND	130	ug/kg	12
1,2,4-Trichloro-benzene	ND	330	ug/kg	16
1,1,1-Trichloroethane	ND	66	ug/kg	12
1,1,2-Trichloroethane	ND	66	ug/kg	13
Trichloroethene	ND	66	ug/kg	16
Trichlorofluoromethane	ND	130	ug/kg	11
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	330	ug/kg	13
Vinyl chloride	ND	130	ug/kg	21
Xylenes (total)	ND	200	ug/kg	20

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	81	(59 - 138)
1,2-Dichloroethane-d4	88	(61 - 130)
Toluene-d8	103	(60 - 143)
4-Bromofluorobenzene	93	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-117

GC/MS Volatiles

Lot-Sample #....: A4G160169-018 Work Order #....: GK79K1AA Matrix.....: SO
 Date Sampled....: 07/15/04 11:25 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4203401
 Dilution Factor: 1.09 Initial Wgt/Vol: 4.6 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 3.8 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	850	ug/kg	110
Benzene	ND	57	ug/kg	7.3
Bromodichloromethane	ND	110	ug/kg	14
Bromoform	ND	110	ug/kg	15
Bromomethane	ND	280	ug/kg	28
2-Butanone	ND	850	ug/kg	56
Carbon disulfide	ND	280	ug/kg	23
Carbon tetrachloride	ND	57	ug/kg	14
Chlorobenzene	ND	57	ug/kg	7.1
Chloroethane	ND	280	ug/kg	74
Chloroform	ND	57	ug/kg	14
Chloromethane	18 J	280	ug/kg	5.9
Cyclohexane	ND	1400	ug/kg	8.7
Dibromochloromethane	ND	57	ug/kg	7.8
1,2-Dibromo-3-chloro- propane	ND	280	ug/kg	68
1,2-Dibromoethane	ND	280	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	19
1,3-Dichlorobenzene	ND	110	ug/kg	8.2
1,4-Dichlorobenzene	ND	110	ug/kg	9.0
Dichlorodifluoromethane	ND	110	ug/kg	6.1
1,1-Dichloroethane	ND	57	ug/kg	8.3
1,2-Dichloroethane	ND	57	ug/kg	11
1,1-Dichloroethene	ND	57	ug/kg	9.4
cis-1,2-Dichloroethene	ND	57	ug/kg	16
trans-1,2-Dichloroethene	ND	57	ug/kg	12
1,2-Dichloropropane	ND	57	ug/kg	8.4
cis-1,3-Dichloropropene	ND	57	ug/kg	6.2
trans-1,3-Dichloropropene	ND	57	ug/kg	6.1
Ethylbenzene	ND	57	ug/kg	7.7
2-Hexanone	ND	2800	ug/kg	27
Isopropylbenzene	ND	280	ug/kg	5.8
Methyl acetate	ND	1400	ug/kg	59
Methylene chloride	ND	280	ug/kg	110
Methylcyclohexane	ND	1400	ug/kg	6.5
4-Methyl-2-pentanone	ND	2800	ug/kg	12
Methyl tert-butyl ether	ND	280	ug/kg	11
Styrene	ND	57	ug/kg	32

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-117

GC/MS Volatiles

Lot-Sample #...: A4G160169-018 Work Order #...: GK79K1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	9.3
Tetrachloroethene	ND	57	ug/kg	10
Toluene	ND	110	ug/kg	10
1,2,4-Trichloro- benzene	ND	280	ug/kg	14
1,1,1-Trichloroethane	ND	57	ug/kg	11
1,1,2-Trichloroethane	ND	57	ug/kg	11
Trichloroethene	ND	57	ug/kg	14
Trichlorofluoromethane	ND	110	ug/kg	9.4
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	280	ug/kg	11
Vinyl chloride	ND	110	ug/kg	18
Xylenes (total)	ND	170	ug/kg	17

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	77	(59 - 138)
1,2-Dichloroethane-d4	86	(61 - 130)
Toluene-d8	100	(60 - 143)
4-Bromofluorobenzene	92	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-118

GC/MS Volatiles

Lot-Sample #....: A4G160169-019 Work Order #....: GK79M1AA Matrix.....: SO
 Date Sampled....: 07/15/04 11:30 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4203401
 Dilution Factor: 1.19 Initial Wgt/Vol: 4.2 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 2.8 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	920	ug/kg	120
Benzene	ND	61	ug/kg	7.8
Bromodichloromethane	ND	120	ug/kg	15
Bromoform	ND	120	ug/kg	16
Bromomethane	ND	310	ug/kg	31
2-Butanone	ND	920	ug/kg	60
Carbon disulfide	ND	310	ug/kg	24
Carbon tetrachloride	ND	61	ug/kg	15
Chlorobenzene	ND	61	ug/kg	7.7
Chloroethane	ND	310	ug/kg	80
Chloroform	ND	61	ug/kg	15
Chloromethane	ND	310	ug/kg	6.4
Cyclohexane	ND	1500	ug/kg	9.4
Dibromochloromethane	ND	61	ug/kg	8.4
1,2-Dibromo-3-chloro- propane	ND	310	ug/kg	73
1,2-Dibromoethane	ND	310	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	21
1,3-Dichlorobenzene	ND	120	ug/kg	8.8
1,4-Dichlorobenzene	ND	120	ug/kg	9.7
Dichlorodifluoromethane	ND	120	ug/kg	6.6
1,1-Dichloroethane	ND	61	ug/kg	8.9
1,2-Dichloroethane	ND	61	ug/kg	11
1,1-Dichloroethene	ND	61	ug/kg	10
cis-1,2-Dichloroethene	ND	61	ug/kg	17
trans-1,2-Dichloroethene	ND	61	ug/kg	13
1,2-Dichloropropane	ND	61	ug/kg	9.1
cis-1,3-Dichloropropene	ND	61	ug/kg	6.7
trans-1,3-Dichloropropene	ND	61	ug/kg	6.6
Ethylbenzene	ND	61	ug/kg	6.6
2-Hexanone	ND	61	ug/kg	8.3
Isopropylbenzene	ND	3100	ug/kg	29
Methyl acetate	ND	310	ug/kg	6.2
Methylene chloride	ND	1500	ug/kg	64
Methylcyclohexane	ND	310	ug/kg	120
4-Methyl-2-pentanone	ND	1500	ug/kg	7.0
Methyl tert-butyl ether	ND	3100	ug/kg	13
Styrene	ND	310	ug/kg	12
		61	ug/kg	34

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-118

GC/MS Volatiles

Lot-Sample #...: A4G160169-019 Work Order #...: GK79M1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	10
Tetrachloroethene	ND	61	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	310	ug/kg	15
1,1,1-Trichloroethane	ND	61	ug/kg	12
1,1,2-Trichloroethane	ND	61	ug/kg	12
Trichloroethene	41 J	61	ug/kg	15
Trichlorofluoromethane	ND	120	ug/kg	10
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	310	ug/kg	12
Vinyl chloride	ND	120	ug/kg	20
Xylenes (total)	ND	180	ug/kg	18

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	79	(59 - 138)
1,2-Dichloroethane-d4	87	(61 - 130)
Toluene-d8	102	(60 - 143)
4-Bromofluorobenzene	93	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-119

GC/MS Volatiles

Lot-Sample #...: A4G160169-020 Work Order #...: GK79P1AA Matrix.....: SO
 Date Sampled...: 07/15/04 11:40 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/20/04
 Prep Batch #...: 4203401
 Dilution Factor: 1.16 Initial Wgt/Vol: 4.3 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 1.5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	880	ug/kg	120
Benzene	ND	59	ug/kg	7.5
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	290	ug/kg	29
2-Butanone	ND	880	ug/kg	58
Carbon disulfide	ND	290	ug/kg	24
Carbon tetrachloride	ND	59	ug/kg	14
Chlorobenzene	ND	59	ug/kg	7.4
Chloroethane	ND	290	ug/kg	77
Chloroform	ND	59	ug/kg	14
Chloromethane	ND	290	ug/kg	6.1
Cyclohexane	ND	1400	ug/kg	9.1
Dibromochloromethane	ND	59	ug/kg	8.1
1,2-Dibromo-3-chloro- propane	ND	290	ug/kg	71
1,2-Dibromoethane	ND	290	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.5
1,4-Dichlorobenzene	ND	120	ug/kg	9.3
Dichlorodifluoromethane	ND	120	ug/kg	6.4
1,1-Dichloroethane	ND	59	ug/kg	8.6
1,2-Dichloroethane	ND	59	ug/kg	11
1,1-Dichloroethene	ND	59	ug/kg	9.8
cis-1,2-Dichloroethene	ND	59	ug/kg	16
trans-1,2-Dichloroethene	ND	59	ug/kg	13
1,2-Dichloropropane	ND	59	ug/kg	8.7
cis-1,3-Dichloropropene	ND	59	ug/kg	6.5
trans-1,3-Dichloropropene	ND	59	ug/kg	6.4
Ethylbenzene	ND	59	ug/kg	8.0
2-Hexanone	ND	2900	ug/kg	28
Isopropylbenzene	ND	290	ug/kg	6.0
Methyl acetate	ND	1400	ug/kg	61
Methylene chloride	ND	290	ug/kg	120
Methylcyclohexane	ND	1400	ug/kg	6.7
4-Methyl-2-pentanone	ND	2900	ug/kg	13
Methyl tert-butyl ether	ND	290	ug/kg	12
Styrene	ND	59	ug/kg	33

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-119

GC/MS Volatiles

Lot-Sample #...: A4G160169-020 Work Order #...: GK79P1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.7
Tetrachloroethene	ND	59	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	290	ug/kg	14
1,1,1-Trichloroethane	ND	59	ug/kg	11
1,1,2-Trichloroethane	ND	59	ug/kg	12
Trichloroethene	ND	59	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.8
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	290	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	180	ug/kg	18

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	77	(59 - 138)
1,2-Dichloroethane-d4	89	(61 - 130)
Toluene-d8	102	(60 - 143)
4-Bromofluorobenzene	94	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-120

GC/MS Volatiles

Lot-Sample #....: A4G160169-021 Work Order #....: GK79T1AA Matrix.....: SO
 Date Sampled...: 07/15/04 11:50 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4203401
 Dilution Factor: 1.04 Initial Wgt/Vol: 4.8 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 2.6 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	800	ug/kg	110
Benzene	ND	53	ug/kg	6.8
Bromodichloromethane	ND	110	ug/kg	13
Bromoform	ND	110	ug/kg	14
Bromomethane	ND	270	ug/kg	27
2-Butanone	ND	800	ug/kg	52
Carbon disulfide	ND	270	ug/kg	21
Carbon tetrachloride	ND	53	ug/kg	13
Chlorobenzene	ND	53	ug/kg	6.7
Chloroethane	ND	270	ug/kg	69
Chloroform	ND	53	ug/kg	13
Chloromethane	ND	270	ug/kg	5.6
Cyclohexane	ND	1300	ug/kg	8.2
Dibromochloromethane	ND	53	ug/kg	7.4
1,2-Dibromo-3-chloro- propane	ND	270	ug/kg	64
1,2-Dibromoethane	ND	270	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	18
1,3-Dichlorobenzene	ND	110	ug/kg	7.7
1,4-Dichlorobenzene	ND	110	ug/kg	8.4
Dichlorodifluoromethane	ND	110	ug/kg	5.8
1,1-Dichloroethane	ND	53	ug/kg	7.8
1,2-Dichloroethane	ND	53	ug/kg	9.9
1,1-Dichloroethene	ND	53	ug/kg	8.9
cis-1,2-Dichloroethene	ND	53	ug/kg	15
trans-1,2-Dichloroethene	ND	53	ug/kg	12
1,2-Dichloropropane	ND	53	ug/kg	7.9
cis-1,3-Dichloropropene	ND	53	ug/kg	5.9
trans-1,3-Dichloropropene	ND	53	ug/kg	5.8
Ethylbenzene	ND	53	ug/kg	7.3
2-Hexanone	ND	2700	ug/kg	26
Isopropylbenzene	ND	270	ug/kg	5.4
Methyl acetate	ND	1300	ug/kg	56
Methylene chloride	ND	270	ug/kg	110
Methylcyclohexane	ND	1300	ug/kg	6.1
4-Methyl-2-pentanone	ND	2700	ug/kg	12
Methyl tert-butyl ether	ND	270	ug/kg	11
Styrene	ND	53	ug/kg	30

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-120

GC/MS Volatiles

Lot-Sample #....: A4G160169-021 Work Order #....: GK79T1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	8.8
Tetrachloroethene	ND	53	ug/kg	9.6
Toluene	ND	110	ug/kg	9.7
1,2,4-Trichloro-benzene	ND	270	ug/kg	13
1,1,1-Trichloroethane	ND	53	ug/kg	10
1,1,2-Trichloroethane	ND	53	ug/kg	11
Trichloroethene	ND	53	ug/kg	13
Trichlorofluoromethane	ND	110	ug/kg	8.9
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	270	ug/kg	11
Vinyl chloride	ND	110	ug/kg	17
Xylenes (total)	ND	160	ug/kg	16

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	74	(59 - 138)
1,2-Dichloroethane-d4	84	(61 - 130)
Toluene-d8	96	(60 - 143)
4-Bromofluorobenzene	87	(47 - 158)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-121

GC/MS Volatiles

Lot-Sample #....: A4G160169-022 Work Order #....: GK79W1AA Matrix.....: SO
 Date Sampled....: 07/15/04 12:00 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4203401
 Dilution Factor: 1.02 Initial Wgt/Vol: 4.9 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 4.6 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	800	ug/kg	110
Benzene	ND	53	ug/kg	6.8
Bromodichloromethane	ND	110	ug/kg	13
Bromoform	ND	110	ug/kg	14
Bromomethane	ND	270	ug/kg	27
2-Butanone	ND	800	ug/kg	52
Carbon disulfide	ND	270	ug/kg	21
Carbon tetrachloride	ND	53	ug/kg	13
Chlorobenzene	ND	53	ug/kg	6.7
Chloroethane	ND	270	ug/kg	69
Chloroform	ND	53	ug/kg	13
Chloromethane	23 J	270	ug/kg	5.6
Cyclohexane	ND	1300	ug/kg	8.2
Dibromochloromethane	ND	53	ug/kg	7.4
1,2-Dibromo-3-chloro- propane	ND	270	ug/kg	64
1,2-Dibromoethane	ND	270	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	18
1,3-Dichlorobenzene	ND	110	ug/kg	7.7
1,4-Dichlorobenzene	ND	110	ug/kg	8.4
Dichlorodifluoromethane	ND	110	ug/kg	5.8
1,1-Dichloroethane	ND	53	ug/kg	7.8
1,2-Dichloroethane	ND	53	ug/kg	9.9
1,1-Dichloroethene	ND	53	ug/kg	8.9
cis-1,2-Dichloroethene	ND	53	ug/kg	15
trans-1,2-Dichloroethene	ND	53	ug/kg	12
1,2-Dichloropropane	ND	53	ug/kg	7.9
cis-1,3-Dichloropropene	ND	53	ug/kg	5.9
trans-1,3-Dichloropropene	ND	53	ug/kg	5.8
Ethylbenzene	ND	53	ug/kg	7.3
2-Hexanone	ND	2700	ug/kg	26
Isopropylbenzene	ND	270	ug/kg	5.4
Methyl acetate	ND	1300	ug/kg	56
Methylene chloride	ND	270	ug/kg	110
Methylcyclohexane	ND	1300	ug/kg	6.1
4-Methyl-2-pentanone	ND	2700	ug/kg	12
Methyl tert-butyl ether	ND	270	ug/kg	11
Styrene	ND	53	ug/kg	30

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-121

GC/MS Volatiles

Lot-Sample #...: A4G160169-022 Work Order #...: GK79W1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	8.8
Tetrachloroethene	ND	53	ug/kg	9.6
Toluene	ND	110	ug/kg	9.7
1,2,4-Trichloro- benzene	ND	270	ug/kg	13
1,1,1-Trichloroethane	ND	53	ug/kg	10
1,1,2-Trichloroethane	ND	53	ug/kg	11
Trichloroethene	18 J	53	ug/kg	13
Trichlorofluoromethane	ND	110	ug/kg	8.9
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	270	ug/kg	11
Vinyl chloride	ND	110	ug/kg	17
Xylenes (total)	ND	160	ug/kg	16

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	78	(59 - 138)
1,2-Dichloroethane-d4	85	(61 - 130)
Toluene-d8	97	(60 - 143)
4-Bromofluorobenzene	90	(47 - 158)

NOTE (S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-122

GC/MS Volatiles

Lot-Sample #...: A4G160169-023 Work Order #...: GK7911AA Matrix.....: SO
 Date Sampled...: 07/15/04 12:35 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/20/04
 Prep Batch #...: 4203401
 Dilution Factor: 1.11 Initial Wgt/Vol: 4.5 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 5.4 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	880	ug/kg	120
Benzene	ND	59	ug/kg	7.5
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	290	ug/kg	29
2-Butanone	ND	880	ug/kg	57
Carbon disulfide	ND	290	ug/kg	23
Carbon tetrachloride	ND	59	ug/kg	14
Chlorobenzene	ND	59	ug/kg	7.4
Chloroethane	ND	290	ug/kg	76
Chloroform	ND	59	ug/kg	14
Chloromethane	ND	290	ug/kg	6.1
Cyclohexane	ND	1400	ug/kg	9.0
Dibromochloromethane	ND	59	ug/kg	8.1
1,2-Dibromo-3-chloro- propane	ND	290	ug/kg	70
1,2-Dibromoethane	ND	290	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.4
1,4-Dichlorobenzene	ND	120	ug/kg	9.3
Dichlorodifluoromethane	ND	120	ug/kg	6.3
1,1-Dichloroethane	ND	59	ug/kg	8.6
1,2-Dichloroethane	ND	59	ug/kg	11
1,1-Dichloroethene	ND	59	ug/kg	9.7
cis-1,2-Dichloroethene	ND	59	ug/kg	16
trans-1,2-Dichloroethene	ND	59	ug/kg	13
1,2-Dichloropropane	ND	59	ug/kg	8.7
cis-1,3-Dichloropropene	ND	59	ug/kg	6.5
trans-1,3-Dichloropropene	ND	59	ug/kg	6.3
Ethylbenzene	ND	59	ug/kg	8.0
2-Hexanone	ND	2900	ug/kg	28
Isopropylbenzene	ND	290	ug/kg	6.0
Methyl acetate	ND	1400	ug/kg	61
Methylene chloride	ND	290	ug/kg	120
Methylcyclohexane	39 J	1400	ug/kg	6.7
4-Methyl-2-pentanone	ND	2900	ug/kg	13
Methyl tert-butyl ether	ND	290	ug/kg	12
Styrene	ND	59	ug/kg	33

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-122

GC/MS Volatiles

Lot-Sample #...: A4G160169-023 Work Order #...: GK7911AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.6
Tetrachloroethene	ND	59	ug/kg	11
Toluene	21 J	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	290	ug/kg	14
1,1,1-Trichloroethane	ND	59	ug/kg	11
1,1,2-Trichloroethane	ND	59	ug/kg	12
Trichloroethene	2000	59	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.7
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	290	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	38 J	180	ug/kg	18

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	78	(59 - 138)
1,2-Dichloroethane-d4	87	(61 - 130)
Toluene-d8	100	(60 - 143)
4-Bromofluorobenzene	91	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-123

GC/MS Volatiles

Lot-Sample #...: A4G160169-024 Work Order #...: GK7931AA Matrix.....: SO
 Date Sampled...: 07/15/04 12:40 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/21/04
 Prep Batch #...: 4203412
 Dilution Factor: 1.09 Initial Wgt/Vol: 4.6 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 3.1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	840	ug/kg	110
Benzene	ND	56	ug/kg	7.2
Bromodichloromethane	ND	110	ug/kg	14
Bromoform	ND	110	ug/kg	15
Bromomethane	ND	280	ug/kg	28
2-Butanone	ND	840	ug/kg	55
Carbon disulfide	ND	280	ug/kg	23
Carbon tetrachloride	ND	56	ug/kg	14
Chlorobenzene	ND	56	ug/kg	7.1
Chloroethane	ND	280	ug/kg	73
Chloroform	ND	56	ug/kg	14
Chloromethane	ND	280	ug/kg	5.9
Cyclohexane	ND	1400	ug/kg	8.7
Dibromochloromethane	ND	56	ug/kg	7.8
1,2-Dibromo-3-chloro- propane	ND	280	ug/kg	68
1,2-Dibromoethane	ND	280	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	19
1,3-Dichlorobenzene	ND	110	ug/kg	8.1
1,4-Dichlorobenzene	ND	110	ug/kg	8.9
Dichlorodifluoromethane	ND	110	ug/kg	6.1
1,1-Dichloroethane	ND	56	ug/kg	8.2
1,2-Dichloroethane	ND	56	ug/kg	10
1,1-Dichloroethene	ND	56	ug/kg	9.3
cis-1,2-Dichloroethene	ND	56	ug/kg	16
trans-1,2-Dichloroethene	ND	56	ug/kg	12
1,2-Dichloropropane	ND	56	ug/kg	8.3
cis-1,3-Dichloropropene	ND	56	ug/kg	6.2
trans-1,3-Dichloropropene	ND	56	ug/kg	6.1
Ethylbenzene	ND	56	ug/kg	7.7
2-Hexanone	ND	2800	ug/kg	27
Isopropylbenzene	ND	280	ug/kg	5.7
Methyl acetate	ND	1400	ug/kg	59
Methylene chloride	ND	280	ug/kg	110
Methylcyclohexane	ND	1400	ug/kg	6.4
4-Methyl-2-pentanone	ND	2800	ug/kg	12
Methyl tert-butyl ether	ND	280	ug/kg	11
Styrene	ND	56	ug/kg	32

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-123

GC/MS Volatiles

Lot-Sample #...: A4G160169-024 Work Order #...: GK7931AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	9.2
Tetrachloroethene	ND	56	ug/kg	10
Toluene	ND	110	ug/kg	10
1,2,4-Trichloro- benzene	ND	280	ug/kg	14
1,1,1-Trichloroethane	ND	56	ug/kg	11
1,1,2-Trichloroethane	ND	56	ug/kg	11
Trichloroethene	ND	56	ug/kg	14
Trichlorofluoromethane	ND	110	ug/kg	9.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	280	ug/kg	11
Vinyl chloride	ND	110	ug/kg	18
Xylenes (total)	ND	170	ug/kg	17

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	84	(59 - 138)
1,2-Dichloroethane-d4	89	(61 - 130)
Toluene-d8	102	(60 - 143)
4-Bromofluorobenzene	94	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-124

GC/MS Volatiles

Lot-Sample #...: A4G160169-025 Work Order #...: GK7951AA Matrix.....: SO
 Date Sampled...: 07/15/04 12:45 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/21/04
 Prep Batch #...: 4203412
 Dilution Factor: 1.11 Initial Wgt/Vol: 4.5 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 1.9 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	850	ug/kg	110
Benzene	ND	57	ug/kg	7.2
Bromodichloromethane	ND	110	ug/kg	14
Bromoform	ND	110	ug/kg	15
Bromomethane	ND	280	ug/kg	28
2-Butanone	ND	850	ug/kg	55
Carbon disulfide	ND	280	ug/kg	23
Carbon tetrachloride	ND	57	ug/kg	14
Chlorobenzene	ND	57	ug/kg	7.1
Chloroethane	ND	280	ug/kg	74
Chloroform	ND	57	ug/kg	14
Chloromethane	24 J,B	280	ug/kg	5.9
Cyclohexane	ND	1400	ug/kg	8.7
Dibromochloromethane	ND	57	ug/kg	7.8
1,2-Dibromo-3-chloro- propane	ND	280	ug/kg	68
1,2-Dibromoethane	ND	280	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	19
1,3-Dichlorobenzene	ND	110	ug/kg	8.1
1,4-Dichlorobenzene	ND	110	ug/kg	8.9
Dichlorodifluoromethane	ND	110	ug/kg	6.1
1,1-Dichloroethane	ND	57	ug/kg	8.3
1,2-Dichloroethane	ND	57	ug/kg	11
1,1-Dichloroethene	ND	57	ug/kg	9.4
cis-1,2-Dichloroethene	ND	57	ug/kg	16
trans-1,2-Dichloroethene	ND	57	ug/kg	12
1,2-Dichloropropane	ND	57	ug/kg	8.4
cis-1,3-Dichloropropene	ND	57	ug/kg	6.2
trans-1,3-Dichloropropene	ND	57	ug/kg	6.1
Ethylbenzene	ND	57	ug/kg	7.7
2-Hexanone	ND	2800	ug/kg	27
Isopropylbenzene	ND	280	ug/kg	5.8
Methyl acetate	ND	1400	ug/kg	59
Methylene chloride	ND	280	ug/kg	110
Methylcyclohexane	ND	1400	ug/kg	6.5
4-Methyl-2-pentanone	ND	2800	ug/kg	12
Methyl tert-butyl ether	ND	280	ug/kg	11
Styrene	ND	57	ug/kg	32

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-124

GC/MS Volatiles

Lot-Sample #....: A4G160169-025 Work Order #....: GK7951AA Matrix.....: SO

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	9.3
Tetrachloroethene	ND	57	ug/kg	10
Toluene	ND	110	ug/kg	10
1,2,4-Trichloro-benzene	ND	280	ug/kg	14
1,1,1-Trichloroethane	ND	57	ug/kg	11
1,1,2-Trichloroethane	ND	57	ug/kg	11
Trichloroethene	ND	57	ug/kg	14
Trichlorofluoromethane	ND	110	ug/kg	9.4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	280	ug/kg	11
Vinyl chloride	ND	110	ug/kg	18
Xylenes (total)	ND	170	ug/kg	17

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	83	(59 - 138)
1,2-Dichloroethane-d4	91	(61 - 130)
Toluene-d8	103	(60 - 143)
4-Bromofluorobenzene	94	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-125

GC/MS Volatiles

Lot-Sample #....: A4G160169-026 Work Order #....: GK7981AA Matrix.....: SO
 Date Sampled...: 07/15/04 12:50 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203412
 Dilution Factor: 1.14 Initial Wgt/Vol: 4.4 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 1.9 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	870	ug/kg	120
Benzene	ND	58	ug/kg	7.4
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	290	ug/kg	29
2-Butanone	ND	870	ug/kg	57
Carbon disulfide	ND	290	ug/kg	23
Carbon tetrachloride	ND	58	ug/kg	14
Chlorobenzene	ND	58	ug/kg	7.3
Chloroethane	ND	290	ug/kg	76
Chloroform	ND	58	ug/kg	14
Chloromethane	ND	290	ug/kg	6.0
Cyclohexane	ND	1400	ug/kg	8.9
Dibromochloromethane	ND	58	ug/kg	8.0
1,2-Dibromo-3-chloro- propane	ND	290	ug/kg	70
1,2-Dibromoethane	ND	290	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.4
1,4-Dichlorobenzene	ND	120	ug/kg	9.2
Dichlorodifluoromethane	ND	120	ug/kg	6.3
1,1-Dichloroethane	ND	58	ug/kg	8.5
1,2-Dichloroethane	ND	58	ug/kg	11
1,1-Dichloroethene	ND	58	ug/kg	9.6
cis-1,2-Dichloroethene	ND	58	ug/kg	16
trans-1,2-Dichloroethene	ND	58	ug/kg	13
1,2-Dichloropropane	ND	58	ug/kg	8.6
cis-1,3-Dichloropropene	ND	58	ug/kg	6.4
trans-1,3-Dichloropropene	ND	58	ug/kg	6.3
Ethylbenzene	ND	58	ug/kg	7.9
2-Hexanone	ND	2900	ug/kg	28
Isopropylbenzene	ND	290	ug/kg	5.9
Methyl acetate	ND	1400	ug/kg	60
Methylene chloride	ND	290	ug/kg	120
Methylcyclohexane	ND	1400	ug/kg	6.6
4-Methyl-2-pentanone	ND	2900	ug/kg	13
Methyl tert-butyl ether	ND	290	ug/kg	12
Styrene	ND	58	ug/kg	33

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-125

GC/MS Volatiles

Lot-Sample #...: A4G160169-026 Work Order #...: GK7981AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.5
Tetrachloroethene	ND	58	ug/kg	10
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	290	ug/kg	14
1,1,1-Trichloroethane	ND	58	ug/kg	11
1,1,2-Trichloroethane	ND	58	ug/kg	12
Trichloroethene	ND	58	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.6
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	290	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	170	ug/kg	17

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	84	(59 - 138)
1,2-Dichloroethane-d4	90	(61 - 130)
Toluene-d8	105	(60 - 143)
4-Bromofluorobenzene	99	(47 - 158)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-126

GC/MS Volatiles

Lot-Sample #....: A4G160169-027 Work Order #....: GK8AD1AA Matrix.....: SO
 Date Sampled....: 07/15/04 13:30 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/22/04
 Prep Batch #....: 4203412
 Dilution Factor: 1.16 Initial Wgt/Vol: 4.3 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 2.3 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	890	ug/kg	120
Benzene	ND	59	ug/kg	7.6
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	300	ug/kg	30
2-Butanone	ND	890	ug/kg	58
Carbon disulfide	ND	300	ug/kg	24
Carbon tetrachloride	ND	59	ug/kg	14
Chlorobenzene	ND	59	ug/kg	7.5
Chloroethane	ND	300	ug/kg	77
Chloroform	ND	59	ug/kg	14
Chloromethane	ND	300	ug/kg	6.2
Cyclohexane	ND	1400	ug/kg	9.1
Dibromochloromethane	ND	59	ug/kg	8.2
1,2-Dibromo-3-chloro- propane	ND	300	ug/kg	71
1,2-Dibromoethane	ND	300	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.5
1,4-Dichlorobenzene	ND	120	ug/kg	9.4
Dichlorodifluoromethane	ND	120	ug/kg	6.4
1,1-Dichloroethane	ND	59	ug/kg	8.7
1,2-Dichloroethane	ND	59	ug/kg	11
1,1-Dichloroethene	ND	59	ug/kg	9.9
cis-1,2-Dichloroethene	ND	59	ug/kg	17
trans-1,2-Dichloroethene	ND	59	ug/kg	13
1,2-Dichloropropane	ND	59	ug/kg	8.8
cis-1,3-Dichloropropene	ND	59	ug/kg	6.5
trans-1,3-Dichloropropene	ND	59	ug/kg	6.4
Ethylbenzene	ND	59	ug/kg	8.1
2-Hexanone	ND	3000	ug/kg	28
Isopropylbenzene	ND	300	ug/kg	6.1
Methyl acetate	ND	1400	ug/kg	62
Methylene chloride	ND	300	ug/kg	120
Methylcyclohexane	ND	1400	ug/kg	6.8
4-Methyl-2-pentanone	ND	3000	ug/kg	13
Methyl tert-butyl ether	ND	300	ug/kg	12
Styrene	ND	59	ug/kg	33

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-126

GC/MS Volatiles

Lot-Sample #....: A4G160169-027 Work Order #....: GK8AD1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.7
Tetrachloroethene	ND	59	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	30 J	300	ug/kg	14
1,1,1-Trichloroethane	ND	59	ug/kg	11
1,1,2-Trichloroethane	ND	59	ug/kg	12
Trichloroethene	ND	59	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.9
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	300	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	180	ug/kg	18

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	90	(59 - 138)
1,2-Dichloroethane-d4	91	(61 - 130)
Toluene-d8	108	(60 - 143)
4-Bromofluorobenzene	96	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-127

GC/MS Volatiles

Lot-Sample #...: A4G160169-028 Work Order #...: GK8AE1AA Matrix.....: SO
 Date Sampled...: 07/15/04 13:35 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/21/04
 Prep Batch #...: 4203412
 Dilution Factor: 1.11 Initial Wgt/Vol: 4.5 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 4.2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	870	ug/kg	110
Benzene	ND	58	ug/kg	7.4
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	290	ug/kg	29
2-Butanone	ND	870	ug/kg	57
Carbon disulfide	ND	290	ug/kg	23
Carbon tetrachloride	ND	58	ug/kg	14
Chlorobenzene	ND	58	ug/kg	7.3
Chloroethane	ND	290	ug/kg	75
Chloroform	ND	58	ug/kg	14
Chloromethane	ND	290	ug/kg	6.0
Cyclohexane	ND	1400	ug/kg	8.9
Dibromochloromethane	ND	58	ug/kg	8.0
1,2-Dibromo-3-chloro- propane	ND	290	ug/kg	69
1,2-Dibromoethane	ND	290	ug/kg	11
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.3
1,4-Dichlorobenzene	ND	120	ug/kg	9.2
Dichlorodifluoromethane	ND	120	ug/kg	6.3
1,1-Dichloroethane	ND	58	ug/kg	8.5
1,2-Dichloroethane	ND	58	ug/kg	11
1,1-Dichloroethene	ND	58	ug/kg	9.6
cis-1,2-Dichloroethene	ND	58	ug/kg	16
trans-1,2-Dichloroethene	ND	58	ug/kg	13
1,2-Dichloropropane	ND	58	ug/kg	8.6
cis-1,3-Dichloropropene	ND	58	ug/kg	6.4
trans-1,3-Dichloropropene	ND	58	ug/kg	6.3
Ethylbenzene	ND	58	ug/kg	7.9
2-Hexanone	ND	2900	ug/kg	28
Isopropylbenzene	ND	290	ug/kg	5.9
Methyl acetate	ND	1400	ug/kg	60
Methylene chloride	ND	290	ug/kg	110
Methylcyclohexane	ND	1400	ug/kg	6.6
4-Methyl-2-pentanone	ND	2900	ug/kg	13
Methyl tert-butyl ether	ND	290	ug/kg	12
Styrene	ND	58	ug/kg	32

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-127

GC/MS Volatiles

Lot-Sample #...: A4G160169-028 Work Order #...: GK8AE1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.5
Tetrachloroethene	ND	58	ug/kg	10
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	290	ug/kg	14
1,1,1-Trichloroethane	ND	58	ug/kg	11
1,1,2-Trichloroethane	ND	58	ug/kg	11
Trichloroethene	ND	58	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.6
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	290	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	170	ug/kg	17

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	76	(59 - 138)
1,2-Dichloroethane-d4	83	(61 - 130)
Toluene-d8	99	(60 - 143)
4-Bromofluorobenzene	88	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-128

GC/MS Volatiles

Lot-Sample #....: A4G160169-029 Work Order #....: GK8AF1AA Matrix.....: SO
 Date Sampled...: 07/15/04 13:40 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203412
 Dilution Factor: 1.14 Initial Wgt/Vol: 4.4 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 2.5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	880	ug/kg	120
Benzene	ND	58	ug/kg	7.5
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	290	ug/kg	29
2-Butanone	ND	880	ug/kg	57
Carbon disulfide	ND	290	ug/kg	23
Carbon tetrachloride	ND	58	ug/kg	14
Chlorobenzene	ND	58	ug/kg	7.4
Chloroethane	ND	290	ug/kg	76
Chloroform	ND	58	ug/kg	14
Chloromethane	19 J,B	290	ug/kg	6.1
Cyclohexane	ND	1400	ug/kg	9.0
Dibromochloromethane	ND	58	ug/kg	8.1
1,2-Dibromo-3-chloro- propane	ND	290	ug/kg	70
1,2-Dibromoethane	ND	290	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.4
1,4-Dichlorobenzene	ND	120	ug/kg	9.2
Dichlorodifluoromethane	ND	120	ug/kg	6.3
1,1-Dichloroethane	ND	58	ug/kg	8.5
1,2-Dichloroethane	ND	58	ug/kg	11
1,1-Dichloroethene	ND	58	ug/kg	9.7
cis-1,2-Dichloroethene	ND	58	ug/kg	16
trans-1,2-Dichloroethene	ND	58	ug/kg	13
1,2-Dichloropropane	ND	58	ug/kg	8.7
cis-1,3-Dichloropropene	ND	58	ug/kg	6.4
trans-1,3-Dichloropropene	ND	58	ug/kg	6.3
Ethylbenzene	ND	58	ug/kg	7.9
2-Hexanone	ND	2900	ug/kg	28
Isopropylbenzene	ND	290	ug/kg	6.0
Methyl acetate	ND	1400	ug/kg	61
Methylene chloride	ND	290	ug/kg	120
Methylcyclohexane	ND	1400	ug/kg	6.7
4-Methyl-2-pentanone	ND	2900	ug/kg	13
Methyl tert-butyl ether	ND	290	ug/kg	12
Styrene	ND	58	ug/kg	33

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-128

GC/MS Volatiles

Lot-Sample #...: A4G160169-029 Work Order #...: GK8AF1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.6
Tetrachloroethene	ND	58	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	290	ug/kg	14
1,1,1-Trichloroethane	ND	58	ug/kg	11
1,1,2-Trichloroethane	ND	58	ug/kg	12
Trichloroethene	16 J	58	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.7
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	290	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	180	ug/kg	18

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	78	(59 - 138)
1,2-Dichloroethane-d4	86	(61 - 130)
Toluene-d8	100	(60 - 143)
4-Bromofluorobenzene	93	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-129

GC/MS Volatiles

Lot-Sample #....: A4G160169-030 Work Order #....: GK8AG1AA Matrix.....: SO
 Date Sampled....: 07/15/04 13:45 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203412
 Dilution Factor: 1.11 Initial Wgt/Vol: 4.5 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 3.4 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	860	ug/kg	110
Benzene	ND	57	ug/kg	7.4
Bromodichloromethane	ND	110	ug/kg	14
Bromoform	ND	110	ug/kg	15
Bromomethane	ND	290	ug/kg	29
2-Butanone	ND	860	ug/kg	56
Carbon disulfide	ND	290	ug/kg	23
Carbon tetrachloride	ND	57	ug/kg	14
Chlorobenzene	ND	57	ug/kg	7.2
Chloroethane	ND	290	ug/kg	75
Chloroform	ND	57	ug/kg	14
Chloromethane	ND	290	ug/kg	6.0
Cyclohexane	ND	1400	ug/kg	8.8
Dibromochloromethane	ND	57	ug/kg	7.9
1,2-Dibromo-3-chloro- propane	ND	290	ug/kg	69
1,2-Dibromoethane	ND	290	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	20
1,3-Dichlorobenzene	ND	110	ug/kg	8.3
1,4-Dichlorobenzene	ND	110	ug/kg	9.1
Dichlorodifluoromethane	ND	110	ug/kg	6.2
1,1-Dichloroethane	ND	57	ug/kg	8.4
1,2-Dichloroethane	ND	57	ug/kg	11
1,1-Dichloroethene	ND	57	ug/kg	9.5
cis-1,2-Dichloroethene	ND	57	ug/kg	16
trans-1,2-Dichloroethene	ND	57	ug/kg	13
1,2-Dichloropropane	ND	57	ug/kg	8.5
cis-1,3-Dichloropropene	ND	57	ug/kg	6.3
trans-1,3-Dichloropropene	ND	57	ug/kg	6.2
Ethylbenzene	ND	57	ug/kg	7.8
2-Hexanone	ND	2900	ug/kg	28
Isopropylbenzene	ND	290	ug/kg	5.9
Methyl acetate	ND	1400	ug/kg	60
Methylene chloride	ND	290	ug/kg	110
Methylcyclohexane	ND	1400	ug/kg	6.5
4-Methyl-2-pentanone	ND	2900	ug/kg	13
Methyl tert-butyl ether	ND	290	ug/kg	11
Styrene	ND	57	ug/kg	32

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-129

GC/MS Volatiles

Lot-Sample #...: A4G160169-030 Work Order #...: GK8AG1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	9.4
Tetrachloroethene	ND	57	ug/kg	10
Toluene	ND	110	ug/kg	10
1,2,4-Trichloro- benzene	ND	290	ug/kg	14
1,1,1-Trichloroethane	ND	57	ug/kg	11
1,1,2-Trichloroethane	ND	57	ug/kg	11
Trichloroethene	14 J	57	ug/kg	14
Trichlorofluoromethane	ND	110	ug/kg	9.5
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	290	ug/kg	11
Vinyl chloride	ND	110	ug/kg	18
Xylenes (total)	ND	170	ug/kg	17

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	72	(59 - 138)
1,2-Dichloroethane-d4	81	(61 - 130)
Toluene-d8	98	(60 - 143)
4-Bromofluorobenzene	88	(47 - 158)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-130

GC/MS Volatiles

Lot-Sample #....: A4G160169-031 Work Order #....: GK8AH1AA Matrix.....: SO
 Date Sampled....: 07/15/04 13:50 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203412
 Dilution Factor: 1.47 Initial Wgt/Vol: 3.4 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 2.4 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	1100	ug/kg	150
Benzene	ND	75	ug/kg	9.6
Bromodichloromethane	ND	150	ug/kg	18
Bromoform	ND	150	ug/kg	20
Bromomethane	ND	380	ug/kg	38
2-Butanone	ND	1100	ug/kg	74
Carbon disulfide	ND	380	ug/kg	30
Carbon tetrachloride	ND	75	ug/kg	18
Chlorobenzene	ND	75	ug/kg	9.5
Chloroethane	ND	380	ug/kg	98
Chloroform	ND	75	ug/kg	18
Chloromethane	ND	380	ug/kg	7.8
Cyclohexane	ND	1800	ug/kg	12
Dibromochloromethane	ND	75	ug/kg	10
1,2-Dibromo-3-chloro- propane	ND	380	ug/kg	90
1,2-Dibromoethane	ND	380	ug/kg	15
1,2-Dichlorobenzene	ND	150	ug/kg	26
1,3-Dichlorobenzene	ND	150	ug/kg	11
1,4-Dichlorobenzene	ND	150	ug/kg	12
Dichlorodifluoromethane	ND	150	ug/kg	8.1
1,1-Dichloroethane	ND	75	ug/kg	11
1,2-Dichloroethane	ND	75	ug/kg	14
1,1-Dichloroethene	ND	75	ug/kg	12
cis-1,2-Dichloroethene	ND	75	ug/kg	21
trans-1,2-Dichloroethene	ND	75	ug/kg	17
1,2-Dichloropropane	ND	75	ug/kg	11
cis-1,3-Dichloropropene	ND	75	ug/kg	8.3
trans-1,3-Dichloropropene	ND	75	ug/kg	8.1
Ethylbenzene	ND	75	ug/kg	10
2-Hexanone	ND	3800	ug/kg	36
Isopropylbenzene	ND	380	ug/kg	7.7
Methyl acetate	ND	1800	ug/kg	78
Methylene chloride	ND	380	ug/kg	150
Methylcyclohexane	ND	1800	ug/kg	8.6
4-Methyl-2-pentanone	ND	3800	ug/kg	17
Methyl tert-butyl ether	ND	380	ug/kg	15
Styrene	ND	75	ug/kg	42

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-130

GC/MS Volatiles

Lot-Sample #...: A4G160169-031 Work Order #...: GK8AH1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	150	ug/kg	12
Tetrachloroethene	ND	75	ug/kg	14
Toluene	ND	150	ug/kg	14
1,2,4-Trichloro- benzene	ND	380	ug/kg	18
1,1,1-Trichloroethane	ND	75	ug/kg	14
1,1,2-Trichloroethane	ND	75	ug/kg	15
Trichloroethene	ND	75	ug/kg	18
Trichlorofluoromethane	ND	150	ug/kg	12
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	380	ug/kg	15
Vinyl chloride	ND	150	ug/kg	24
Xylenes (total)	ND	230	ug/kg	23

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	79	(59 - 138)
1,2-Dichloroethane-d4	89	(61 - 130)
Toluene-d8	107	(60 - 143)
4-Bromofluorobenzene	97	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-131

GC/MS Volatiles

Lot-Sample #....: A4G160169-032 Work Order #....: GK8AJ1AA Matrix.....: SO
 Date Sampled....: 07/15/04 14:00 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203412
 Dilution Factor: 1.02 Initial Wgt/Vol: 4.9 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 2.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	780	ug/kg	100
Benzene	ND	52	ug/kg	6.7
Bromodichloromethane	ND	100	ug/kg	12
Bromoform	ND	100	ug/kg	14
Bromomethane	ND	260	ug/kg	26
2-Butanone	ND	780	ug/kg	51
Carbon disulfide	ND	260	ug/kg	21
Carbon tetrachloride	ND	52	ug/kg	12
Chlorobenzene	ND	52	ug/kg	6.6
Chloroethane	ND	260	ug/kg	68
Chloroform	ND	52	ug/kg	12
Chloromethane	ND	260	ug/kg	5.4
Cyclohexane	ND	1200	ug/kg	8.0
Dibromochloromethane	ND	52	ug/kg	7.2
1,2-Dibromo-3-chloro- propane	ND	260	ug/kg	62
1,2-Dibromoethane	ND	260	ug/kg	10
1,2-Dichlorobenzene	ND	100	ug/kg	18
1,3-Dichlorobenzene	ND	100	ug/kg	7.5
1,4-Dichlorobenzene	ND	100	ug/kg	8.2
Dichlorodifluoromethane	ND	100	ug/kg	5.6
1,1-Dichloroethane	ND	52	ug/kg	7.6
1,2-Dichloroethane	ND	52	ug/kg	9.7
1,1-Dichloroethene	ND	52	ug/kg	8.6
cis-1,2-Dichloroethene	ND	52	ug/kg	15
trans-1,2-Dichloroethene	ND	52	ug/kg	11
1,2-Dichloropropane	ND	52	ug/kg	7.7
cis-1,3-Dichloropropene	ND	52	ug/kg	5.7
trans-1,3-Dichloropropene	ND	52	ug/kg	5.6
Ethylbenzene	ND	52	ug/kg	7.1
2-Hexanone	ND	2600	ug/kg	25
Isopropylbenzene	ND	260	ug/kg	5.3
Methyl acetate	ND	1200	ug/kg	54
Methylene chloride	ND	260	ug/kg	100
Methylcyclohexane	ND	1200	ug/kg	5.9
4-Methyl-2-pentanone	ND	2600	ug/kg	11
Methyl tert-butyl ether	ND	260	ug/kg	10
Styrene	ND	52	ug/kg	29

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-131

GC/MS Volatiles

Lot-Sample #...: A4G160169-032 Work Order #...: GK8AJ1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	100	ug/kg	8.5
Tetrachloroethene	ND	52	ug/kg	9.4
Toluene	ND	100	ug/kg	9.5
1,2,4-Trichloro- benzene	ND	260	ug/kg	12
1,1,1-Trichloroethane	ND	52	ug/kg	9.9
1,1,2-Trichloroethane	ND	52	ug/kg	10
Trichloroethene	ND	52	ug/kg	12
Trichlorofluoromethane	ND	100	ug/kg	8.6
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	260	ug/kg	10
Vinyl chloride	ND	100	ug/kg	17
Xylenes (total)	ND	160	ug/kg	16

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	71	(59 - 138)
1,2-Dichloroethane-d4	81	(61 - 130)
Toluene-d8	96	(60 - 143)
4-Bromofluorobenzene	87	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-132

GC/MS Volatiles

Lot-Sample #...: A4G160169-033 Work Order #...: GK8AKLAA Matrix.....: SO
 Date Sampled...: 07/15/04 14:10 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/21/04
 Prep Batch #...: 4203412
 Dilution Factor: 1.02 Initial Wgt/Vol: 4.9 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 13 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	880	ug/kg	120
Benzene	ND	59	ug/kg	7.5
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	290	ug/kg	29
2-Butanone	ND	880	ug/kg	57
Carbon disulfide	ND	290	ug/kg	23
Carbon tetrachloride	ND	59	ug/kg	14
Chlorobenzene	ND	59	ug/kg	7.4
Chloroethane	ND	290	ug/kg	76
Chloroform	ND	59	ug/kg	14
Chloromethane	ND	290	ug/kg	6.1
Cyclohexane	ND	1400	ug/kg	9.0
Dibromochloromethane	ND	59	ug/kg	8.1
1,2-Dibromo-3-chloro- propane	ND	290	ug/kg	70
1,2-Dibromoethane	ND	290	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.4
1,4-Dichlorobenzene	ND	120	ug/kg	9.2
Dichlorodifluoromethane	ND	120	ug/kg	6.3
1,1-Dichloroethane	ND	59	ug/kg	8.5
1,2-Dichloroethane	ND	59	ug/kg	11
1,1-Dichloroethene	ND	59	ug/kg	9.7
cis-1,2-Dichloroethene	ND	59	ug/kg	16
trans-1,2-Dichloroethene	ND	59	ug/kg	13
1,2-Dichloropropane	ND	59	ug/kg	8.7
cis-1,3-Dichloropropene	ND	59	ug/kg	6.4
trans-1,3-Dichloropropene	ND	59	ug/kg	6.3
Ethylbenzene	ND	59	ug/kg	8.0
2-Hexanone	ND	2900	ug/kg	28
Isopropylbenzene	ND	290	ug/kg	6.0
Methyl acetate	ND	1400	ug/kg	61
Methylene chloride	ND	290	ug/kg	120
Methylcyclohexane	ND	1400	ug/kg	6.7
4-Methyl-2-pentanone	ND	2900	ug/kg	13
Methyl tert-butyl ether	ND	290	ug/kg	12
Styrene	ND	59	ug/kg	33

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-132

GC/MS Volatiles

Lot-Sample #...: A4G160169-033 Work Order #...: GK8AK1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.6
Tetrachloroethene	ND	59	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	290	ug/kg	14
1,1,1-Trichloroethane	ND	59	ug/kg	11
1,1,2-Trichloroethane	ND	59	ug/kg	12
Trichloroethene	ND	59	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.7
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	290	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	180	ug/kg	18

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	74	(59 - 138)
1,2-Dichloroethane-d4	83	(61 - 130)
Toluene-d8	95	(60 - 143)
4-Bromofluorobenzene	89	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4G160169
 MB Lot-Sample #: A4G210000-401

Work Order #...: GLJEG1AA

Matrix.....: SOLID

Analysis Date...: 07/20/04
 Dilution Factor: 1

Prep Date.....: 07/17/04
 Prep Batch #...: 4203401
 Initial Wgt/Vol: 5 g

Final Wgt/Vol...: 5 mL

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	ND	750	ug/kg	SW846 8260B
Benzene	ND	50	ug/kg	SW846 8260B
Bromodichloromethane	ND	100	ug/kg	SW846 8260B
Bromoform	ND	100	ug/kg	SW846 8260B
Bromomethane	ND	250	ug/kg	SW846 8260B
2-Butanone	ND	750	ug/kg	SW846 8260B
Carbon disulfide	ND	250	ug/kg	SW846 8260B
Carbon tetrachloride	ND	50	ug/kg	SW846 8260B
Chlorobenzene	ND	50	ug/kg	SW846 8260B
Chloroethane	ND	250	ug/kg	SW846 8260B
Chloroform	ND	50	ug/kg	SW846 8260B
Chloromethane	ND	250	ug/kg	SW846 8260B
Cyclohexane	ND	1200	ug/kg	SW846 8260B
Dibromochloromethane	ND	50	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	250	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	250	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	100	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	100	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	100	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	50	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	50	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	50	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	50	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	50	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	50	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	50	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	50	ug/kg	SW846 8260B
Ethylbenzene	ND	50	ug/kg	SW846 8260B
2-Hexanone	ND	2500	ug/kg	SW846 8260B
Isopropylbenzene	ND	250	ug/kg	SW846 8260B
Methyl acetate	ND	1200	ug/kg	SW846 8260B
Methylene chloride	ND	250	ug/kg	SW846 8260B
Methylcyclohexane	ND	1200	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	2500	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	250	ug/kg	SW846 8260B
Styrene	ND	50	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	100	ug/kg	SW846 8260B
Tetrachloroethene	ND	50	ug/kg	SW846 8260B
Toluene	ND	100	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4G160169

Work Order #...: GLJEG1AA

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
1,2,4-Trichloro-benzene	ND	250	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	50	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	50	ug/kg	SW846 8260B
Trichloroethene	ND	50	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	100	ug/kg	SW846 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	250	ug/kg	SW846 8260B
Vinyl chloride	ND	100	ug/kg	SW846 8260B
Xylenes (total)	ND	150	ug/kg	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	87	(59 - 138)
1,2-Dichloroethane-d4	92	(61 - 130)
Toluene-d8	105	(60 - 143)
4-Bromofluorobenzene	97	(47 - 158)

NOTE(S) :

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4G160169
 MB Lot-Sample #: A4G210000-412

Work Order #...: GLJFE1AA
 Prep Date.....: 07/17/04
 Prep Batch #...: 4203412
 Initial Wgt/Vol: 5 g

Matrix.....: SOLID

Analysis Date...: 07/21/04
 Dilution Factor: 1

Final Wgt/Vol...: 5 mL

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	ND	750	ug/kg	SW846 8260B
Benzene	ND	50	ug/kg	SW846 8260B
Bromodichloromethane	ND	100	ug/kg	SW846 8260B
Bromoform	ND	100	ug/kg	SW846 8260B
Bromomethane	ND	250	ug/kg	SW846 8260B
2-Butanone	ND	750	ug/kg	SW846 8260B
Carbon disulfide	ND	250	ug/kg	SW846 8260B
Carbon tetrachloride	ND	50	ug/kg	SW846 8260B
Chlorobenzene	ND	50	ug/kg	SW846 8260B
Chloroethane	ND	250	ug/kg	SW846 8260B
Chloroform	ND	50	ug/kg	SW846 8260B
Chloromethane	21 J	250	ug/kg	SW846 8260B
Cyclohexane	ND	1200	ug/kg	SW846 8260B
Dibromochloromethane	ND	50	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	250	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	250	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	100	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	100	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	100	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	50	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	50	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	50	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	50	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	50	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	50	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	50	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	50	ug/kg	SW846 8260B
Ethylbenzene	ND	50	ug/kg	SW846 8260B
2-Hexanone	ND	2500	ug/kg	SW846 8260B
Isopropylbenzene	ND	250	ug/kg	SW846 8260B
Methyl acetate	ND	1200	ug/kg	SW846 8260B
Methylene chloride	ND	250	ug/kg	SW846 8260B
Methylcyclohexane	ND	1200	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	2500	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	250	ug/kg	SW846 8260B
Styrene	ND	50	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	100	ug/kg	SW846 8260B
Tetrachloroethene	ND	50	ug/kg	SW846 8260B
Toluene	ND	100	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4G160169

Work Order #...: GLJFE1AA

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
1,2,4-Trichloro- benzene	ND	250	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	50	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	50	ug/kg	SW846 8260B
Trichloroethene	ND	50	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	100	ug/kg	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	250	ug/kg	SW846 8260B
Vinyl chloride	ND	100	ug/kg	SW846 8260B
Xylenes (total)	ND	150	ug/kg	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	85	(59 - 138)
1,2-Dichloroethane-d4	91	(61 - 130)
Toluene-d8	106	(60 - 143)
4-Bromofluorobenzene	98	(47 - 158)

NOTE(S):

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

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4G160169 Work Order #...: GLJF51AA Matrix.....: SOLID
 MB Lot-Sample #: A4G210000-414
 Prep Date.....: 07/16/04 Final Wgt/Vol...: 25 mL
 Analysis Date...: 07/21/04 Prep Batch #...: 4203414
 Dilution Factor: 1 Initial Wgt/Vol: 25 g

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	ND	750	ug/kg	SW846 8260B
Benzene	ND	50	ug/kg	SW846 8260B
Bromodichloromethane	ND	100	ug/kg	SW846 8260B
Bromoform	ND	100	ug/kg	SW846 8260B
Bromomethane	ND	250	ug/kg	SW846 8260B
2-Butanone	ND	750	ug/kg	SW846 8260B
Carbon disulfide	ND	250	ug/kg	SW846 8260B
Carbon tetrachloride	ND	50	ug/kg	SW846 8260B
Chlorobenzene	ND	50	ug/kg	SW846 8260B
Chloroethane	ND	250	ug/kg	SW846 8260B
Chloroform	ND	50	ug/kg	SW846 8260B
Chloromethane	15 J	250	ug/kg	SW846 8260B
Cyclohexane	ND	1200	ug/kg	SW846 8260B
Dibromochloromethane	ND	50	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	250	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	250	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	100	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	100	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	100	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	50	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	50	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	50	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	50	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	50	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	50	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	50	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	50	ug/kg	SW846 8260B
Ethylbenzene	ND	50	ug/kg	SW846 8260B
2-Hexanone	ND	2500	ug/kg	SW846 8260B
Isopropylbenzene	ND	250	ug/kg	SW846 8260B
Methyl acetate	ND	1200	ug/kg	SW846 8260B
Methylene chloride	ND	250	ug/kg	SW846 8260B
Methylcyclohexane	ND	1200	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	2500	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	250	ug/kg	SW846 8260B
Styrene	ND	50	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	100	ug/kg	SW846 8260B
Tetrachloroethene	ND	50	ug/kg	SW846 8260B
Toluene	ND	100	ug/kg	SW846 8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4G160169

Work Order #...: GLJF51AA

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
1,2,4-Trichloro-benzene	13 J	250	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	50	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	50	ug/kg	SW846 8260B
Trichloroethene	ND	50	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	100	ug/kg	SW846 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	250	ug/kg	SW846 8260B
Vinyl chloride	ND	100	ug/kg	SW846 8260B
Xylenes (total)	ND	150	ug/kg	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	82	(59 - 138)
1,2-Dichloroethane-d4	87	(61 - 130)
Toluene-d8	99	(60 - 143)
4-Bromofluorobenzene	91	(47 - 158)

NOTE(S):

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

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A4G160169 Work Order #...: GLJEG1AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A4G210000-401 GLJEG1AD-LCSD
 Prep Date.....: 07/17/04 Analysis Date...: 07/20/04
 Prep Batch #...: 4203401
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 g

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Benzene	200	180	ug/kg	92		SW846 8260B
	200	180	ug/kg	92	0.49	SW846 8260B
Chlorobenzene	200	200	ug/kg	98		SW846 8260B
	200	190	ug/kg	97	0.68	SW846 8260B
1,1-Dichloroethene	200	190	ug/kg	96		SW846 8260B
	200	180	ug/kg	91	5.0	SW846 8260B
Toluene	200	200	ug/kg	100		SW846 8260B
	200	200	ug/kg	99	1.6	SW846 8260B
Trichloroethene	200	200	ug/kg	100		SW846 8260B
	200	190	ug/kg	97	3.7	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	96	(59 - 138)
	90	(59 - 138)
1,2-Dichloroethane-d4	95	(61 - 130)
	89	(61 - 130)
Toluene-d8	106	(60 - 143)
	105	(60 - 143)
4-Bromofluorobenzene	101	(47 - 158)
	98	(47 - 158)

NOTE (S) :

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A4G160169 Work Order #...: GLJEG1AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A4G210000-401 GLJEG1AD-LCSD
 Prep Date.....: 07/17/04 Analysis Date...: 07/20/04
 Prep Batch #...: 4203401
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 g

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	92	(75 - 129)			SW846 8260B
	92	(75 - 129)	0.49	(0-20)	SW846 8260B
Chlorobenzene	98	(75 - 127)			SW846 8260B
	97	(75 - 127)	0.68	(0-22)	SW846 8260B
1,1-Dichloroethene	96	(55 - 142)			SW846 8260B
	91	(55 - 142)	5.0	(0-27)	SW846 8260B
Toluene	100	(71 - 130)			SW846 8260B
	99	(71 - 130)	1.6	(0-24)	SW846 8260B
Trichloroethene	100	(70 - 131)			SW846 8260B
	97	(70 - 131)	3.7	(0-23)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	96	(59 - 138)
	90	(59 - 138)
1,2-Dichloroethane-d4	95	(61 - 130)
	89	(61 - 130)
Toluene-d8	106	(60 - 143)
	105	(60 - 143)
4-Bromofluorobenzene	101	(47 - 158)
	98	(47 - 158)

NOTE (S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A4G160169 Work Order #...: GLJFE1AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A4G210000-412 GLJFE1AD-LCSD
 Prep Date.....: 07/17/04 Analysis Date...: 07/21/04
 Prep Batch #...: 4203412
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 g

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Benzene	200	180	ug/kg	90		SW846 8260B
	200	180	ug/kg	90	0.11	SW846 8260B
Chlorobenzene	200	190	ug/kg	94		SW846 8260B
	200	190	ug/kg	97	2.5	SW846 8260B
1,1-Dichloroethene	200	180	ug/kg	88		SW846 8260B
	200	170	ug/kg	87	0.96	SW846 8260B
Toluene	200	190	ug/kg	96		SW846 8260B
	200	200	ug/kg	98	2.3	SW846 8260B
Trichloroethene	200	200	ug/kg	98		SW846 8260B
	200	190	ug/kg	93	4.9	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	87	(59 - 138)
	85	(59 - 138)
1,2-Dichloroethane-d4	91	(61 - 130)
	89	(61 - 130)
Toluene-d8	103	(60 - 143)
	102	(60 - 143)
4-Bromofluorobenzene	97	(47 - 158)
	95	(47 - 158)

NOTE (S) :

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A4G160169 Work Order #...: GLJFE1AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A4G210000-412 GLJFE1AD-LCSD
 Prep Date.....: 07/17/04 Analysis Date...: 07/21/04
 Prep Batch #...: 4203412
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 g

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	90	(75 - 129)			SW846 8260B
	90	(75 - 129)	0.11	(0-20)	SW846 8260B
Chlorobenzene	94	(75 - 127)			SW846 8260B
	97	(75 - 127)	2.5	(0-22)	SW846 8260B
1,1-Dichloroethene	88	(55 - 142)			SW846 8260B
	87	(55 - 142)	0.96	(0-27)	SW846 8260B
Toluene	96	(71 - 130)			SW846 8260B
	98	(71 - 130)	2.3	(0-24)	SW846 8260B
Trichloroethene	98	(70 - 131)			SW846 8260B
	93	(70 - 131)	4.9	(0-23)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	87	(59 - 138)
	85	(59 - 138)
1,2-Dichloroethane-d4	91	(61 - 130)
	89	(61 - 130)
Toluene-d8	103	(60 - 143)
	102	(60 - 143)
4-Bromofluorobenzene	97	(47 - 158)
	95	(47 - 158)

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A4G160169 Work Order #....: GLJF51AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A4G210000-414 GLJF51AD-LCSD
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203414
 Dilution Factor: 1 Final Wgt/Vol...: 25 mL
 Initial Wgt/Vol: 25 g

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Benzene	200	180	ug/kg	92		SW846 8260B
	200	200	ug/kg	99	7.2	SW846 8260B
Chlorobenzene	200	190	ug/kg	97		SW846 8260B
	200	200	ug/kg	101	4.6	SW846 8260B
1,1-Dichloroethene	200	180	ug/kg	91		SW846 8260B
	200	190	ug/kg	96	5.8	SW846 8260B
Toluene	200	200	ug/kg	99		SW846 8260B
	200	210	ug/kg	103	3.7	SW846 8260B
Trichloroethene	200	180	ug/kg	92		SW846 8260B
	200	200	ug/kg	99	7.2	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Dibromofluoromethane	84	(59 - 138)
	86	(59 - 138)
1,2-Dichloroethane-d4	84	(61 - 130)
	89	(61 - 130)
Toluene-d8	95	(60 - 143)
	100	(60 - 143)
4-Bromofluorobenzene	90	(47 - 158)
	92	(47 - 158)

NOTE(S) :

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A4G160169 Work Order #...: GLJF51AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A4G210000-414 GLJF51AD-LCSD
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #...: 4203414
 Dilution Factor: 1 Final Wgt/Vol...: 25 mL
 Initial Wgt/Vol: 25 g

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	92	(75 - 129)			SW846 8260B
	99	(75 - 129)	7.2	(0-20)	SW846 8260B
Chlorobenzene	97	(75 - 127)			SW846 8260B
	101	(75 - 127)	4.6	(0-22)	SW846 8260B
1,1-Dichloroethene	91	(55 - 142)			SW846 8260B
	96	(55 - 142)	5.8	(0-27)	SW846 8260B
Toluene	99	(71 - 130)			SW846 8260B
	103	(71 - 130)	3.7	(0-24)	SW846 8260B
Trichloroethene	92	(70 - 131)			SW846 8260B
	99	(70 - 131)	7.2	(0-23)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	84	(59 - 138)
	86	(59 - 138)
1,2-Dichloroethane-d4	84	(61 - 130)
	89	(61 - 130)
Toluene-d8	95	(60 - 143)
	100	(60 - 143)
4-Bromofluorobenzene	90	(47 - 158)
	92	(47 - 158)

NOTE (S) :

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

Bold print denotes control parameters

GENERAL CHEMISTRY DATA

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-100

General Chemistry

Lot-Sample #....: A4G160169-001 Work Order #....: GK78C Matrix.....: SO
Date Sampled....: 07/15/04 08:00 Date Received...: 07/16/04
% Moisture.....: 4.9

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
					<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Percent Solids	95.1	10.0	%	MCAWW 160.3 MOD	07/19-07/20/04	4201077
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-101

General Chemistry

Lot-Sample #....: A4G160169-002 Work Order #....: GK78G Matrix.....: SO
Date Sampled....: 07/15/04 08:05 Date Received...: 07/16/04
% Moisture.....: 2.5

<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	97.5	10.0	%	MCAW 160.3 MOD	07/19-07/20/04	4201077
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-102

General Chemistry

Lot-Sample #...: A4G160169-003 Work Order #...: GK78L Matrix.....: SO
Date Sampled...: 07/15/04 08:10 Date Received...: 07/16/04
* Moisture.....: 2.1

<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	97.9	10.0	%	MCAWW 160.3 MOD	07/19-07/20/04	4201077
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-103

General Chemistry

Lot-Sample #....: A4G160169-004 Work Order #....: GK78N Matrix.....: SO
Date Sampled....: 07/15/04 08:20 Date Received...: 07/16/04
% Moisture.....: 2.5

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
					<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Percent Solids	97.5	10.0	%	MCAWW 160.3 MOD	07/19-07/20/04	4201077
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-104

General Chemistry

Lot-Sample #...: A4G160169-005 Work Order #...: GK78R Matrix.....: SO
Date Sampled...: 07/15/04 08:25 Date Received...: 07/16/04
% Moisture.....: 2.8

<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	97.2	10.0	%	MCAWW 160.3 MOD	07/19-07/20/04	4201077
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-105

General Chemistry

Lot-Sample #...: A4G160169-006 Work Order #...: GK78W Matrix.....: SO
Date Sampled...: 07/15/04 08:30 Date Received...: 07/16/04
% Moisture.....: 2.0

<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	98.0	10.0	%	MCAW 160.3 MOD	07/19-07/20/04	4201077
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-106

General Chemistry

Lot-Sample #....: A4G160169-007 Work Order #....: GK78X Matrix.....: SO
Date Sampled....: 07/15/04 08:35 Date Received...: 07/16/04
% Moisture.....: 3.4

<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	96.6	10.0	%	MCAWW 160.3 MOD	07/19-07/20/04	4201077
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-107

General Chemistry

Lot-Sample #...: A4G160169-008 Work Order #...: GK781 Matrix.....: SO
Date Sampled...: 07/15/04 08:40 Date Received...: 07/16/04
% Moisture.....: 2.3

<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	97.7	10.0	%	MCAWW 160.3 MOD	07/19-07/20/04	4201077
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-108

General Chemistry

Lot-Sample #...: A4G160169-009 Work Order #...: GK783 Matrix.....: SO
Date Sampled...: 07/15/04 08:45 Date Received...: 07/16/04
% Moisture.....: 2.6

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Percent Solids	97.4	10.0	%	MCAWW 160.3 MOD	07/19-07/20/04	4201077
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-109

General Chemistry

Lot-Sample #...: A4G160169-010 Work Order #...: GK784 Matrix.....: SO
Date Sampled...: 07/15/04 08:55 Date Received...: 07/16/04
% Moisture.....: 3.0

<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	97.0	10.0	%	MCAW 160.3 MOD MDL.....: 10.0	07/19-07/20/04	4201078

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-110

General Chemistry

Lot-Sample #...: A4G160169-011 Work Order #...: GK786 Matrix.....: SO
Date Sampled...: 07/15/04 09:00 Date Received...: 07/16/04
% Moisture.....: 7.0

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Percent Solids	93.0	10.0	%	MCAW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-111

General Chemistry

Lot-Sample #...: A4G160169-012 Work Order #...: GK788 Matrix.....: SO
Date Sampled...: 07/15/04 10:50 Date Received..: 07/16/04
% Moisture.....: 5.7

<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	94.3	10.0	%	MCAWW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-112

General Chemistry

Lot-Sample #...: A4G160169-013 Work Order #...: GK789 Matrix.....: SO
Date Sampled...: 07/15/04 10:55 Date Received...: 07/16/04
% Moisture.....: 3.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
					<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Percent Solids	96.8	10.0	%	MCAWW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-113

General Chemistry

Lot-Sample #...: A4G160169-014 Work Order #...: GK79C Matrix.....: SO
Date Sampled...: 07/15/04 11:00 Date Received...: 07/16/04
% Moisture.....: 1.7

<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	98.3	10.0	%	MCAW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-114

General Chemistry

Lot-Sample #....: A4G160169-015 Work Order #....: GK79D Matrix.....: SO
Date Sampled....: 07/15/04 11:05 Date Received...: 07/16/04
% Moisture.....: 1.9

<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	98.1	10.0	%	MCAWW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-115

General Chemistry

Lot-Sample #...: A4G160169-016 Work Order #...: GK79H Matrix.....: SO
Date Sampled...: 07/15/04 11:10 Date Received..: 07/16/04
% Moisture.....: 2.9

<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	97.1	10.0	%	MCAWW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-116

General Chemistry

Lot-Sample #....: A4G160169-017 Work Order #....: GK79J Matrix.....: SO
Date Sampled....: 07/15/04 11:20 Date Received...: 07/16/04
* Moisture.....: 4.8

<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	95.2	10.0	%	MCAWW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-117

General Chemistry

Lot-Sample #....: A4G160169-018 Work Order #....: GK79K Matrix.....: SO
Date Sampled...: 07/15/04 11:25 Date Received...: 07/16/04
* Moisture.....: 3.8

<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	96.2	10.0	‡	MCAW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-118

General Chemistry

Lot-Sample #...: A4G160169-019 Work Order #...: GK79M Matrix.....: SO
Date Sampled...: 07/15/04 11:30 Date Received...: 07/16/04
% Moisture.....: 2.8

<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	97.2	10.0	%	MCAWW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-119

General Chemistry

Lot-Sample #...: A4G160169-020 Work Order #...: GK79P Matrix.....: SO
Date Sampled...: 07/15/04 11:40 Date Received...: 07/16/04
% Moisture.....: 1.5

<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	98.5	10.0	%	MCAWW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-120

General Chemistry

Lot-Sample #...: A4G160169-021 Work Order #...: GK79T Matrix.....: SO
Date Sampled...: 07/15/04 11:50 Date Received...: 07/16/04
% Moisture.....: 2.6

<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	97.4	10.0	%	MCAWW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-121

General Chemistry

Lot-Sample #...: A4G160169-022 Work Order #...: GK79W Matrix.....: SO
Date Sampled...: 07/15/04 12:00 Date Received...: 07/16/04
% Moisture.....: 4.6

<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	95.5	10.0	%	MCAW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-122

General Chemistry

Lot-Sample #...: A4G160169-023 Work Order #...: GK791 Matrix.....: SO
Date Sampled...: 07/15/04 12:35 Date Received...: 07/16/04
% Moisture.....: 5.4

<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	94.7	10.0	%	MCAWW 160.3 MOD MDL.....: 10.0	07/19-07/20/04	4201078

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-123

General Chemistry

Lot-Sample #...: A4G160169-024 Work Order #...: GK793 Matrix.....: SO
Date Sampled...: 07/15/04 12:40 Date Received...: 07/16/04
% Moisture.....: 3.1

<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	96.9	10.0	%	MCAWW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-124

General Chemistry

Lot-Sample #...: A4G160169-025 Work Order #...: GK795 Matrix.....: SO
Date Sampled...: 07/15/04 12:45 Date Received...: 07/16/04
% Moisture.....: 1.9

<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	98.1	10.0	%	MCAWW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-125

General Chemistry

Lot-Sample #...: A4G160169-026 Work Order #...: GK798 Matrix.....: SO
Date Sampled...: 07/15/04 12:50 Date Received...: 07/16/04
% Moisture.....: 1.9

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
					<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-126

General Chemistry

Lot-Sample #....: A4G160169-027 Work Order #....: GK8AD Matrix.....: SO
Date Sampled....: 07/15/04 13:30 Date Received...: 07/16/04
% Moisture.....: 2.3

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
					<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Percent Solids	97.7	10.0	%	MCAWW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-127

General Chemistry

Lot-Sample #...: A4G160169-028 Work Order #...: GK8AE Matrix.....: SO
Date Sampled...: 07/15/04 13:35 Date Received...: 07/16/04
% Moisture.....: 4.2

<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	95.8	10.0	%	MCAWW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-128

General Chemistry

Lot-Sample #....: A4G160169-029 Work Order #....: GK8AF Matrix.....: SO
Date Sampled....: 07/15/04 13:40 Date Received..: 07/16/04
% Moisture.....: 2.5

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
					<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Percent Solids	97.5	10.0	%	MCAWW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-129

General Chemistry

Lot-Sample #...: A4G160169-030 Work Order #...: GK8AG Matrix.....: SO
Date Sampled...: 07/15/04 13:45 Date Received...: 07/16/04
% Moisture.....: 3.4

<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	96.7	10.0	%	MCAWW 160.3 MOD	07/19-07/20/04	4201274
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-130

General Chemistry

Lot-Sample #...: A4G160169-031 Work Order #...: GK8AH Matrix.....: SO
Date Sampled...: 07/15/04 13:50 Date Received...: 07/16/04
% Moisture.....: 2.4

<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	97.6	10.0	%	MCAWW 160.3 MOD	07/19-07/20/04	4201274
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-131

General Chemistry

Lot-Sample #....: A4G160169-032 Work Order #....: GK8AJ Matrix.....: SO
Date Sampled....: 07/15/04 14:00 Date Received...: 07/16/04
% Moisture.....: 2.0

<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	98.0	10.0	%	MCAWW 160.3 MOD	07/19-07/20/04	4201274
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-132

General Chemistry

Lot-Sample #....: A4G160169-033 Work Order #....: GK8AK Matrix.....: SO
Date Sampled....: 07/15/04 14:10 Date Received...: 07/16/04
% Moisture.....: 13

<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	87.1	10.0	%	MCAWW 160.3 MOD	07/19-07/20/04	4201274
		Dilution Factor: 1		MDL.....: 10.0		

METHOD BLANK REPORT

General Chemistry

Client Lot #....: A4G160169

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	ND	Work Order #: GLCVG1AA 10.0	%	MB Lot-Sample #: MCAWW 160.3 MOD	A4G190000-077 07/19-07/20/04	4201077
		Dilution Factor: 1				
Percent Solids	ND	Work Order #: GLCVJ1AA 10.0	%	MB Lot-Sample #: MCAWW 160.3 MOD	A4G190000-078 07/19-07/20/04	4201078
		Dilution Factor: 1				
Percent Solids	ND	Work Order #: GLDA31AA 10.0	%	MB Lot-Sample #: MCAWW 160.3 MOD	A4G190000-274 07/19-07/20/04	4201274
		Dilution Factor: 1				

NOTE (S) :

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

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A4G160169

Work Order #....: GK77E-SMP

Matrix.....: SOLID

GK77E-DUP

Date Sampled....: 07/15/04 14:45 Date Received...: 07/16/04

% Moisture.....: 21

<u>PARAM RESULT</u>	<u>DUPLICATE RESULT</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD LIMIT</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	79.2	82.3	%	3.9	(0-20)	MCAWW 160.3 MOD	07/19-07/20/04 4201077
			Dilution Factor: 1				

SD Lot-Sample #: A4G160162-024

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A4G160169

Work Order #....: GK6CC-SMP

Matrix.....: SOLID

GK6CC-DUP

Date Sampled....: 07/07/04

Date Received...: 07/15/04

% Moisture.....: 18

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
		<u>RESULT</u>			<u>LIMIT</u>		<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Percent Solids	81.8	81.0	%	0.99	(0-20)	MCAWW 160.3 MOD	07/19-07/20/04	4201274

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A4G160169

Work Order #....: GK8AG-SMP
GK8AG-DUP

Matrix.....: SO

Date Sampled....: 07/15/04 13:45

Date Received...: 07/16/04

% Moisture.....: 3.4

<u>PARAM RESULT</u>	<u>DUPLICATE RESULT</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD LIMIT</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH</u>
Percent Solids	96.7						
	97.1	%	0.42	(0-20)	SD Lot-Sample #: A4G160169-030 MCAWW 160.3 MOD	07/19-07/20/04	4201274

Dilution Factor: 1

END OF REPORT

REC'D CRA
SEP - 1 2004
G-24

SEVERN
TRENT

STL

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720

Tel: 330 497 9396 Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 17360-09

GM-GRAND RAPIDS

Lot #: A4H100202

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT

Project#: 17360-09 Lab#: A4H100202

Name: GM - GR

Description:

Event: Quarterly GW

SEVERN TRENT LABORATORIES, INC. Samples: 11 water

Analysis: TCL, VOL, SVOL

TAT: 21 day

Lab: STL


Checked Against Preliminary Data:

Date: _____ Init.: LAK

Date of Validation Memo: 10/20/04

Invoice Approval Date: _____

Comments: _____


Kenneth J. Kuzior
Project Manager

August 31, 2004

Cosby A - 11/11/00 - 235

CRA
CONESTOGA-ROVERS & ASSOCIATES, INC.
14496 Sheldon Road, Suite 200
Plymouth, MI 48170 • (734) 453-5123

SHIPPED TO (Laboratory Name): **STR - North Canton**

REFERENCE NUMBER:
17360-09

PROJECT NAME: **Om - Grand Rapids**

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: [Signature] PRINTED NAME: **David Rivers**

SEQ. No.	DATE	TIME	CONTAINERS No. OF	SAMPLE TYPE	REMARKS
1	8/9/09	1146	1	1420	MS/MSD
2		1146	3	-192	
3		1411	3	-193	
4		1416	3	-194	
5		1407	3	-195	
6		1440	5	-196	
7		1640	5	-197	
8		1637	5	-198	
9		1800	5	-199	
10		1835	5	-200	
11			1	-201	

TOTAL NUMBER OF CONTAINERS **43**

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
1. <u>[Signature]</u>	8/9/09		1. _____		
RELINQUISHED BY:			RECEIVED BY:		
2. _____			2. _____		
RELINQUISHED BY:			RECEIVED BY:		
3. _____			1. _____		

AIR BILL No. **83935588031**

METHOD OF SHIPMENT: **FED EX**

SAMPLE TEAM:
David Rivers
Boyan Miller

RECEIVED FOR LABORATORY BY: [Signature]
DATE: **8-10-09** TIME: **9:40**

White - Fully Executed Copy
Yellow - Receiving Laboratory Copy
Pink - Shipper Copy
Goldentrod - Sampler Copy

27162



STL

CASE NARRATIVE

CASE NARRATIVE

A4H100202

The following report contains the analytical results for ten water samples and one quality control sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Grand Rapids Site, project number 17360-09. The samples were received August 10, 2004, according to documented sample acceptance procedures.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to the Chemistry Department on August 24, 2004. A summary of QC data for these analyses is included at the back of the report.

STL North Canton attests to the validity of the laboratory data generated by STL facilities reported herein. All analyses performed by STL facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. STL's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

If you have any questions, please call the Project Manager, Amy L. McCormick, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 5.4°C.

CASE NARRATIVE (continued)

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for batch(es) 4229361 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

GC/MS SEMIVOLATILES

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

Samples GW-17360-080904-DCR-199 and GW-17360-080904-DCR-200 had elevated reporting limits due to matrix interferences.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed below.)

Volatile (GC or GC/MS)

Methylene chloride
Acetone
2-Butanone

Semivolatile (GC/MS)

Phthalate Esters

Metals

Copper
Iron
Zinc
Lead*

- *for analyses run on TJA Trace ICP, ICPMS or GFAA only*

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria do not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprep and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprep and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide, PCB, and PAH methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria.

STL North Canton Certifications and Approvals:

Alabama (#41170), California (#01144CA), Connecticut (#PH-0590), Florida (#E87225), Illinois (#100439), Kansas (#E10336), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Ohio (#6090), OhioVAP (#CL0024), Rhode Island (#237), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), Utah (#QUAN9), Virginia (#00011), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence – Participating Lab Status Award (#82)



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***EXECUTIVE
SUMMARY***

EXECUTIVE SUMMARY - Detection Highlights

A4H100202

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
GW-17360-080904-DCR-191 08/09/04 11:40 001				
1,1-Dichloroethane	6.3	2.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	0.98 J	2.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	1.7 J	2.0	ug/L	SW846 8260B
Methylene chloride	1.1 J,B	10	ug/L	SW846 8260B
Vinyl chloride	69	2.0	ug/L	SW846 8260B
GW-17360-080904-DCR-192 08/09/04 11:46 002				
Acetone	1.5 J	42	ug/L	SW846 8260B
1,1-Dichloroethane	3.4	1.7	ug/L	SW846 8260B
1,1-Dichloroethene	2.9	1.7	ug/L	SW846 8260B
cis-1,2-Dichloroethene	44	1.7	ug/L	SW846 8260B
trans-1,2-Dichloroethene	6.2	1.7	ug/L	SW846 8260B
Trichloroethene	37	1.7	ug/L	SW846 8260B
Vinyl chloride	6.0	1.7	ug/L	SW846 8260B
GW-17360-080904-DCR-193 08/09/04 14:11 003				
Chloroform	1.5	1.0	ug/L	SW846 8260B
Trichloroethene	0.36 J	1.0	ug/L	SW846 8260B
GW-17360-080904-DCR-194 08/09/04 14:16 004				
Chloroform	1.6	1.0	ug/L	SW846 8260B
Trichloroethene	0.35 J	1.0	ug/L	SW846 8260B
GW-17360-080904-DCR-195 08/09/04 14:07 005				
Acetone	0.88 J	25	ug/L	SW846 8260B
Bromodichloromethane	0.83 J	1.0	ug/L	SW846 8260B
Chloroform	4.1	1.0	ug/L	SW846 8260B
Trichloroethene	0.36 J	1.0	ug/L	SW846 8260B
GW-17360-080904-DCR-196 08/09/04 14:40 006				
Chloroform	1.8	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	0.32 J	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	0.47 J	5.0	ug/L	SW846 8260B
Trichloroethene	4.7	1.0	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

AAH100202

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
GW-17360-080904-DCR-198 08/09/04 16:37 008				
cis-1,2-Dichloroethene	26	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	2.8	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	0.93 J	5.0	ug/L	SW846 8260B
Trichloroethene	25	1.0	ug/L	SW846 8260B
Vinyl chloride	0.68 J	1.0	ug/L	SW846 8260B
GW-17360-080904-DCR-199 08/09/04 18:00 009				
Benzo(a)anthracene	5.4 J	16	ug/L	SW846 8270C
Benzo(a)pyrene	2.3 J	16	ug/L	SW846 8270C
Benzo(b)fluoranthene	4.3 J	16	ug/L	SW846 8270C
Benzo(ghi)perylene	2.0 J	20	ug/L	SW846 8270C
Benzo(k)fluoranthene	2.1 J	20	ug/L	SW846 8270C
Chrysene	4.0 J	20	ug/L	SW846 8270C
Fluoranthene	19 J	20	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	1.8 J	16	ug/L	SW846 8270C
Phenanthrene	4.3 J	20	ug/L	SW846 8270C
Pyrene	22	20	ug/L	SW846 8270C
Acetone	2.0 J	25	ug/L	SW846 8260B
Carbon disulfide	7.3	5.0	ug/L	SW846 8260B
1,1-Dichloroethane	0.42 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	2.7	1.0	ug/L	SW846 8260B
Isopropylbenzene	0.44 J	5.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	0.57 J	50	ug/L	SW846 8260B
Trichloroethene	0.30 J	1.0	ug/L	SW846 8260B
GW-17360-080904-DCR-200 08/09/04 18:35 010				
bis(2-Ethylhexyl) phthalate	8.4 J	50	ug/L	SW846 8270C
Caprolactam	9.5 J	100	ug/L	SW846 8270C
Fluoranthene	5.8 J	50	ug/L	SW846 8270C
Pyrene	6.1 J	50	ug/L	SW846 8270C
Tetrachloroethene	0.35 J	1.0	ug/L	SW846 8260B
GW-17360-080904-DCR-201 08/09/04 011				
Methylene chloride	0.86 J,B	5.0	ug/L	SW846 8260B

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A4H100202

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SAMPLE SUMMARY

A4H100202

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GMTP3	001	GW-17360-080904-DCR-191	08/09/04	11:40
GMTP9	002	GW-17360-080904-DCR-192	08/09/04	11:46
GMTQA	003	GW-17360-080904-DCR-193	08/09/04	14:11
GMTQC	004	GW-17360-080904-DCR-194	08/09/04	14:16
GMTQD	005	GW-17360-080904-DCR-195	08/09/04	14:07
GMTQE	006	GW-17360-080904-DCR-196	08/09/04	14:40
GMTQG	007	GW-17360-080904-DCR-197	08/09/04	16:40
GMTQJ	008	GW-17360-080904-DCR-198	08/09/04	16:37
GMTQK	009	GW-17360-080904-DCR-199	08/09/04	18:00
GMTQM	010	GW-17360-080904-DCR-200	08/09/04	18:35
GMTQN	011	GW-17360-080904-DCR-201	08/09/04	

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 filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

***SHIPPING
AND
RECEIVING DOCUMENTS***

Case # - MI 553

CRA

CONESTOGA-ROVERS & ASSOCIATES, INC.
14496 Sheldon Road, Suite 200
Plymouth, MI 48170 • (734) 453-5123

SHIPPED TO (Laboratory Name):

STR - North Canton

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER:
17360-09

PROJECT NAME: Gm - Grand Rapids

SAMPLER'S SIGNATURE: *[Signature]* PRINTED NAME: David Rivers

SEQ. No.	DATE	TIME	SAMPLE TYPE	No. of CONTAINERS	PARAMETERS			REMARKS
					ALL VOL'S	SYOC	STD TR	

1	8/9/64	1146	Gw-17360-080904-Dcn-191	1420	X	X	X	MS/MSD
2		1146			X	X	X	
3		1411			X	X	X	
4		1416			X	X	X	
5		1407			X	X	X	
6		1440			X	X	X	
7		1645			X	X	X	
8		1637			X	X	X	
9		1800			X	X	X	
10		1835			X	X	X	
11					X	X	X	

TOTAL NUMBER OF CONTAINERS

49

RELINQUISHED BY:		RECEIVED BY:	
1.	<i>[Signature]</i>	1.	
DATE:	8/9/64	DATE:	
TIME:	1945	TIME:	
2.		2.	
DATE:		DATE:	
TIME:		TIME:	
3.		3.	
DATE:		DATE:	
TIME:		TIME:	

METHOD OF SHIPMENT:

FED EX

AIR BILL NO. 839355880831

White - Fully Executed Copy
Yellow - Receiving Laboratory Copy

Pink - Shipper Copy
Goldendrod - Sampler Copy

27162

SAMPLE TEAM:
David Rivers
Bryant Miller

RECEIVED FOR LABORATORY BY:
[Signature]

DATE: 8-10-64 TIME: 9:40

RSR280

Client:

Lot #:

Case Number/SDG:

Storage Location:

57787

A4H100202

17360-09

C223 MS/MS

Severn Trent Laboratories, Inc.
Sample Control Record

Laboratory Sample I.D.	Transferred By	Date	Entered	Removed	Reason	Date Returned
GMTP3	STILLERJ	8/10/04	Yes		Storage	
GMTP9	STILLERJ	8/10/04	Yes		Storage	
GMTQA	STILLERJ	8/10/04	Yes		Storage	
GMTQC	STILLERJ	8/10/04	Yes		Storage	
GMTQD	STILLERJ	8/10/04	Yes		Storage	
GMTQE	STILLERJ	8/10/04	Yes		Storage	
GMTQG	STILLERJ	8/10/04	Yes		Storage	
GMTQJ	STILLERJ	8/10/04	Yes		Storage	
GMTQK	STILLERJ	8/10/04	Yes		Storage	
GMTQM	STILLERJ	8/10/04	Yes		Storage	
GMTQN	STILLERJ	8/10/04	Yes		Storage	

STL Cooler Receipt Form/Narrative

Lot Number: ALH100202

North Canton Facility

Client: CRA Project: Gym Grand Rapids Quote#: 50154
 Cooler Received on: 8-10-04 Opened on: 8-10-04 by: Natalie G. Bullock
 (Signature)

Fedx Client Drop Off UPS DHL FAS Other: _____

STL Cooler No# MI553 Foam Box Client Cooler Other _____

1. Were custody seals on the outside of the cooler? Yes No Intact? Yes No NA
 If YES, Quantity _____
 Were the custody seals signed and dated? Yes No NA
 2. Shipper's packing slip attached to this form? Yes No NA
 3. Did custody papers accompany the samples? Yes No Relinquished by client? Yes No
 4. Did you sign the custody papers in the appropriate place? Yes No
 5. Packing material used: Bubble Wrap Foam None Other: _____
 6. Cooler temperature upon receipt 5.4 °C (see back of form for multiple coolers/temp)
- METHOD: Temp Vial Coolant & Sample Against Bottles IR ICE/H₂O Slurry
 COOLANT: Wet Ice Blue Ice Dry Ice Water None
7. Did all bottles arrive in good condition (Unbroken)? Yes No
 8. Could all bottle labels and/or tags be reconciled with the COC? Yes No
 9. Were samples at the correct pH? (record below/on back) Yes No NA
 10. Were correct bottles used for the tests indicated? Yes No
 11. Were air bubbles >6 mm in any VOA vials? Yes No NA
 12. Sufficient quantity received to perform indicated analyses? Yes No
- Contacted PM _____ Date: _____ by: _____ via Voice Mail Verbal Other

Concerning: _____

1. CHAIN OF CUSTODY

The following discrepancies occurred:
 Sample times not listed on labels for some samples; time on COC for -194 = 1416; time on label = 1414; will log all times per COC

2. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). Nitric Acid Lot #052804-HNO₃; Sulfuric Acid Lot # 011-504-H₂SO₄; Sodium Hydroxide Lot # -031804-NaOH; Hydrochloric Acid Lot # 100902-HCl; Sodium Hydroxide and Zinc Acetate Lot # 112801-CH₃COO₂ZN/NaOH
 Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. Other (see below or back)

Client ID	pH	Date	Initials

GCMS VOLATILE DATA

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-191

GC/MS Volatiles

Lot-Sample #....: A4H100202-001 Work Order #....: GMTP31AA Matrix.....: WG
 Date Sampled....: 08/09/04 11:40 Date Received...: 08/10/04
 Prep Date.....: 08/15/04 Analysis Date...: 08/15/04
 Prep Batch #....: 4229439
 Dilution Factor: 2 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	50	ug/L	1.5
Benzene	ND	2.0	ug/L	0.44
Bromodichloromethane	ND	2.0	ug/L	0.28
Bromoform	ND	2.0	ug/L	0.34
Bromomethane	ND	2.0	ug/L	0.72
2-Butanone	ND	50	ug/L	0.78
Carbon disulfide	ND	10	ug/L	0.56
Carbon tetrachloride	ND	2.0	ug/L	0.38
Chlorobenzene	ND	2.0	ug/L	0.40
Chloroethane	ND	2.0	ug/L	0.48
Chloroform	ND	2.0	ug/L	0.32
Chloromethane	ND	2.0	ug/L	0.28
Cyclohexane	ND	2.0	ug/L	0.24
Dibromochloromethane	ND	2.0	ug/L	0.38
1,2-Dibromo-3-chloro- propane	ND	2.0	ug/L	0.56
1,2-Dibromoethane	ND	2.0	ug/L	0.48
1,2-Dichlorobenzene	ND	2.0	ug/L	0.40
1,3-Dichlorobenzene	ND	2.0	ug/L	0.36
1,4-Dichlorobenzene	ND	2.0	ug/L	0.44
Dichlorodifluoromethane	ND	2.0	ug/L	0.50
1,1-Dichloroethane	6.3	2.0	ug/L	0.42
1,2-Dichloroethane	ND	2.0	ug/L	0.32
1,1-Dichloroethene	ND	2.0	ug/L	0.36
cis-1,2-Dichloroethene	0.98 J	2.0	ug/L	0.42
trans-1,2-Dichloroethene	1.7 J	2.0	ug/L	0.32
1,2-Dichloropropane	ND	2.0	ug/L	0.30
cis-1,3-Dichloropropene	ND	2.0	ug/L	0.24
trans-1,3-Dichloropropene	ND	2.0	ug/L	0.34
Ethylbenzene	ND	2.0	ug/L	0.38
2-Hexanone	ND	100	ug/L	0.70
Isopropylbenzene	ND	10	ug/L	0.30
Methyl acetate	ND	20	ug/L	1.0
Methylene chloride	1.1 J,B	10	ug/L	0.38
Methylcyclohexane	ND	2.0	ug/L	1.0
4-Methyl-2-pentanone	ND	100	ug/L	0.64
Methyl tert-butyl ether	ND	10	ug/L	0.36
Styrene	ND	2.0	ug/L	0.26

(Continued on next page)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-191

GC/MS Volatiles

Lot-Sample #...: A4H100202-001 Work Order #...: GMTP31AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	2.0	ug/L	0.44
Tetrachloroethene	ND	2.0	ug/L	0.38
Toluene	ND	2.0	ug/L	0.34
1,2,4-Trichloro- benzene	ND	10	ug/L	0.38
1,1,1-Trichloroethane	ND	2.0	ug/L	0.42
1,1,2-Trichloroethane	ND	2.0	ug/L	0.44
Trichloroethene	ND	2.0	ug/L	0.56
Trichlorofluoromethane	ND	2.0	ug/L	0.32
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	2.0	ug/L	0.52
Vinyl chloride	69	2.0	ug/L	0.42
Xylenes (total)	ND	6.0	ug/L	0.88

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(73 - 122)
1,2-Dichloroethane-d4	90	(61 - 128)
Toluene-d8	95	(76 - 110)
4-Bromofluorobenzene	81	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

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

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-192

GC/MS Volatiles

Lot-Sample #...: A4H100202-002 Work Order #...: GMTP91AA Matrix.....: WG
 Date Sampled...: 08/09/04 11:46 Date Received...: 08/10/04
 Prep Date.....: 08/18/04 Analysis Date...: 08/18/04
 Prep Batch #...: 4231527
 Dilution Factor: 1.67 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	1.5 J	42	ug/L	1.2
Benzene	ND	1.7	ug/L	0.37
Bromodichloromethane	ND	1.7	ug/L	0.23
Bromoform	ND	1.7	ug/L	0.28
Bromomethane	ND	1.7	ug/L	0.60
2-Butanone	ND	42	ug/L	0.65
Carbon disulfide	ND	8.4	ug/L	0.47
Carbon tetrachloride	ND	1.7	ug/L	0.32
Chlorobenzene	ND	1.7	ug/L	0.33
Chloroethane	ND	1.7	ug/L	0.40
Chloroform	ND	1.7	ug/L	0.27
Chloromethane	ND	1.7	ug/L	0.23
Cyclohexane	ND	1.7	ug/L	0.20
Dibromochloromethane	ND	1.7	ug/L	0.32
1,2-Dibromo-3-chloro- propane	ND	1.7	ug/L	0.47
1,2-Dibromoethane	ND	1.7	ug/L	0.40
1,2-Dichlorobenzene	ND	1.7	ug/L	0.33
1,3-Dichlorobenzene	ND	1.7	ug/L	0.30
1,4-Dichlorobenzene	ND	1.7	ug/L	0.37
Dichlorodifluoromethane	ND	1.7	ug/L	0.42
1,1-Dichloroethane	3.4	1.7	ug/L	0.35
1,2-Dichloroethane	ND	1.7	ug/L	0.27
1,1-Dichloroethene	2.9	1.7	ug/L	0.30
cis-1,2-Dichloroethene	44	1.7	ug/L	0.35
trans-1,2-Dichloroethene	6.2	1.7	ug/L	0.27
1,2-Dichloropropane	ND	1.7	ug/L	0.25
cis-1,3-Dichloropropene	ND	1.7	ug/L	0.20
trans-1,3-Dichloropropene	ND	1.7	ug/L	0.28
Ethylbenzene	ND	1.7	ug/L	0.32
2-Hexanone	ND	84	ug/L	0.58
Isopropylbenzene	ND	8.4	ug/L	0.25
Methyl acetate	ND	17	ug/L	0.87
Methylene chloride	ND	8.4	ug/L	0.32
Methylcyclohexane	ND	1.7	ug/L	0.84
4-Methyl-2-pentanone	ND	84	ug/L	0.53
Methyl tert-butyl ether	ND	8.4	ug/L	0.30
Styrene	ND	1.7	ug/L	0.22

(Continued on next page)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-192

GC/MS Volatiles

Lot-Sample #...: A4H100202-002 Work Order #...: GMTP91AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.7	ug/L	0.37
Tetrachloroethene	ND	1.7	ug/L	0.32
Toluene	ND	1.7	ug/L	0.28
1,2,4-Trichloro- benzene	ND	8.4	ug/L	0.32
1,1,1-Trichloroethane	ND	1.7	ug/L	0.35
1,1,2-Trichloroethane	ND	1.7	ug/L	0.37
Trichloroethene	37	1.7	ug/L	0.47
Trichlorofluoromethane	ND	1.7	ug/L	0.27
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.7	ug/L	0.43
Vinyl chloride	6.0	1.7	ug/L	0.35
Xylenes (total)	ND	5.0	ug/L	0.73

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	96	(73 - 122)
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	98	(76 - 110)
4-Bromofluorobenzene	104	(74 - 116)

NOTE (S) :

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-193

GC/MS Volatiles

Lot-Sample #...: A4H100202-003 Work Order #...: GMTQA1AA Matrix.....: WG
 Date Sampled...: 08/09/04 14:11 Date Received...: 08/10/04
 Prep Date.....: 08/14/04 Analysis Date...: 08/14/04
 Prep Batch #...: 4227028
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	1.5	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-193

GC/MS Volatiles

Lot-Sample #...: A4H100202-003 Work Order #...: GMTQA1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	0.36 J	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	100	(73 - 122)
1,2-Dichloroethane-d4	90	(61 - 128)
Toluene-d8	91	(76 - 110)
4-Bromofluorobenzene	75	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-194

GC/MS Volatiles

Lot-Sample #...: A4H100202-004 Work Order #...: GMTQC1AA Matrix.....: WG
 Date Sampled...: 08/09/04 14:16 Date Received...: 08/10/04
 Prep Date.....: 08/14/04 Analysis Date...: 08/14/04
 Prep Batch #...: 4227028
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	1.6	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-194

GC/MS Volatiles

Lot-Sample #...: A4H100202-004 Work Order #...: GMTQC1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	0.35 J	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	98	(73 - 122)
1,2-Dichloroethane-d4	90	(61 - 128)
Toluene-d8	93	(76 - 110)
4-Bromofluorobenzene	77	(74 - 116)

NOTE (S) :

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-195

GC/MS Volatiles

Lot-Sample #....: A4H100202-005 Work Order #....: GMTQD1AA Matrix.....: WG
 Date Sampled...: 08/09/04 14:07 Date Received...: 08/10/04
 Prep Date.....: 08/16/04 Analysis Date...: 08/16/04
 Prep Batch #....: 4229361
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	0.88 J	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	0.83 J	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	4.1	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-195

GC/MS Volatiles

Lot-Sample #....: A4H100202-005 Work Order #....: GMTQD1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	0.36 J	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44
	PERCENT	RECOVERY		
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>		
Dibromofluoromethane	97	(73 - 122)		
1,2-Dichloroethane-d4	85	(61 - 128)		
Toluene-d8	93	(76 - 110)		
4-Bromofluorobenzene	79	(74 - 116)		

NOTE(S) :

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-196

GC/MS Volatiles

Lot-Sample #...: A4H100202-006 Work Order #...: GMTQE1AA Matrix.....: WG
 Date Sampled...: 08/09/04 14:40 Date Received...: 08/10/04
 Prep Date.....: 08/16/04 Analysis Date...: 08/16/04
 Prep Batch #...: 4229439
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	1.8	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	0.32 J	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	0.47 J	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-196

GC/MS Volatiles

Lot-Sample #...: A4H100202-006 Work Order #...: GMTQE1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	4.7	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(73 - 122)
1,2-Dichloroethane-d4	88	(61 - 128)
Toluene-d8	92	(76 - 110)
4-Bromofluorobenzene	77	(74 - 116)

NOTE (S) :

J Estimated result. Result is less than RL.