



**CONESTOGA-ROVERS
& ASSOCIATES**

14496 Sheldon Road, Suite 200, Plymouth, Michigan 48170
Telephone: 734-453-5123 Facsimile: 734-453-5201
www.CRAworld.com

July 18, 2012

Reference No. 017303

Mr. Luther Blackburn
YCUA Industrial Pretreatment Program Supervisor
Ypsilanti Community Utilities Authority
2777 State Road
Ypsilanti, MI 48198-9112

Dear Mr. Blackburn:

Re: Quarterly/Semi-Annual Self-Monitoring Report
(Including Notice of Violation Re-sampling Results)
Industrial User Permit #RA 6-12
RACER Trust
Company Vehicle Operations Area (CVO)
2901 Tyler Road
Ypsilanti, Michigan

Pursuant to requirements of Industrial User Permit # RA 6-12 (Permit) Part 3 A, the permittee is required to submit self-monitoring reports by the 20th of every month following the reporting period specified in Appendix A of the Permit. Conestoga-Rovers & Associates (CRA) has prepared this self-monitoring report on behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust. CRA is also providing the re-sampling results as required by the Notice of Violation issued on June 25, 2012.

Quarterly/Semi-Annual Self-Monitoring Report

This self-monitoring report summarizes the discharge information for the 2012 second quarter (April through June) and first semi-annual (January through June) periods.

Attachment A presents a summary of the analytical and flow data for samples collected on April 3, May 3, and June 22, 2012. The laboratory reports, including chain of custody's are provided in Attachment B. An exceedance of the vinyl chloride parameter occurred during the May 3, 2012 and June 22, 2012 self monitoring events and was reported to the YCUA on May 15, 2012 and July 17, 2012, respectively.

Re-sampling Results for the Notice of Violation

A written notification was provided on June 20, 2012 indicating that the treatment process was changed in response to the non-compliance on May 3, 2012. Sodium permanganate was added to the equalization tank on June 8, 2012 to reduce the influent concentrations, prior to treatment through the existing treatment process (bag filters and carbon units). Samples were collected



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pre and post treatment. Attachment C presents a summary of the analytical data for samples collected pre and post sodium permanganate treatment completed on June 8, 2012. Following the chemical treatment, the water was treated through the existing treatment system and was discharged on June 22, 2012. The laboratory reports, including chains of custody are provided in Attachment B.

The 30-Day Parameter Exceedance Report Form will be submitted prior to July 22, 2012 to provide the required details for the violation that occurred on June 22, 2012.

Should you have any questions, please do not hesitate to contact us.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

A handwritten signature in cursive script that reads 'Beth Landale'.

Beth Landale, PE
Project Manager

ab/bw/20/Det.
Encl.

cc: Grant Trigger, RACER
Dave Favero, RACER
Matthew Lamb, CRA

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I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Grant Trigger
Michigan Cleanup Manager
Revitalizing Auto Communities Environmental Response Trust

ATTACHMENT A

ANALYTICAL AND FLOW DATA SUMMARY

ATTACHMENT A

**YPSILANTI COMMUNITY UTILITIES AUTHORITY
INDUSTRIAL USER PERMIT SELF MONITORING REPORT
REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST**

Facility : Company Vehicle Operations Area
Permit No.: RA 6- 12
Sample Point: Post Treatment and Prior to discharge into MH6

Reporting Period
Year 2012
Quarter II
Semi-Annual I

Sample Date					4/3/2012	5/3/2012	6/22/2012
Sample Location					Effluent/MH-6	Effluent/MH-6	Effluent/MH-6
Sample ID					WW-17303-040312-DB-003	WW-17303-050312-CB-003/ WW-17303-050312-CB-004 (duplicate)	WW-17303-062212-CB-003
Parameter	Upper Limit (mg/l)	Monitoring Frequency	Reporting Frequency	Sample Type			
Flow (GAL)	Report	Once/Discharge	Monthly/Quarterly	Metered	14,392	17,989	11,078
1,2-Dichloroethane	0.50	Monthly	Quarterly	Grab	0.001U	0.020U/0.020U	0.01 U
Trichloroethene	0.50	Monthly	Quarterly	Grab	0.001U	0.020U/0.020U	0.01 U
Vinyl Chloride	0.20	Monthly	Quarterly	Grab	0.00029J	1.1/1.1	0.50
Polychlorinated Biphenyls	<0.0002**	Monthly	Quarterly	24-Hour Time proportionated Composite***	0.000097U	0.000099 U/0.00010U	0.00011 U
pH	≥ 5.0 and ≤ 11.0 S.U	Semi-Annual	Semi-Annual	Grab	-	7.43 HF/7.42 HF	-
Benzene	0.50	Semi-Annual	Semi-Annual	Grab	-	0.020U/0.020U	-
Carbon Tetrachloride	0.50	Semi-Annual	Semi-Annual	Grab	-	0.020U/0.020U	-
Chlorobenzene	100.00	Semi-Annual	Semi-Annual	Grab	-	0.020U/0.020U	-
Chloroform	6.00	Semi-Annual	Semi-Annual	Grab	-	0.020U/0.020U	-
1,4-Dichlorobenzene	7.50	Semi-Annual	Semi-Annual	Grab	-	0.020U/0.020U	-
1,1-Dichloroethene	0.70	Semi-Annual	Semi-Annual	Grab	-	0.020U/0.020U	-
Methyl Ethyl Ketone	200.00	Semi-Annual	Semi-Annual	Grab	-	0.020U/0.020U	-
Tetrachloroethene	0.70	Semi-Annual	Semi-Annual	Grab	-	0.020U/0.020U	-
Total Phenolics	1.00	Semi-Annual	Semi-Annual	Grab	-	0.0074J/0.014J	-
Chemical Oxygen Demand	600.00	Semi-Annual	Semi-Annual	24-Hour Time proportionated Composite***	-	62/75	-

Notes

* As established in Part 4, Section B - Special Conditions: The permittee is required to report the total volume of process discharges to Outfall 001 by the 5th of every month for the previous calendar month. The permittee shall additionally report a summary of individual discharges during the reporting quarter. The quarterly summary shall accompany the permittee's monitoring report submittal.

** Any discharge at or above the level of detection shall be a specific violation of the Permit. For PCB analysis, the sampling and analytical protocol for compliance shall be in accordance with EPA Method 608 employing a detection level of 0.0002 mg/L unless a higher detection limit is appropriate due to sample matrix interference.

***PCBs and COD are not 24 hour composites but time proportionated composites while the system is treating and discharging.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - Lab qualified as estimated

HF- Field parameter with a holding time of 15 minutes

ATTACHMENT B

LABORATORY REPORTS
AND CHAINS OF CUSTODY

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica North Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-9857-1

Client Project/Site: 17303-T02-014, RACER CVO

For:

Conestoga-Rovers & Associates, Inc.

14496 Sheldon Road, Suite 200

Plymouth, Michigan 48170

Attn: Mr. Paul Wiseman



Authorized for release by:

4/13/2012 8:43:19 AM

Denise Heckler

Project Manager II

denise.heckler@testamericainc.com

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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-9857-1

Job ID: 240-9857-1

Laboratory: TestAmerica North Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 17303-T02-014, RACER CVO

Report Number: 240-9857-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica'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.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

A revised chain of custody was received on April 5, 2012.

RECEIPT

The samples were received on 04/04/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.6 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample WW-17303-040312-DB-003 (240-9857-1) was analyzed for volatile organic compounds (GC-MS) in accordance with EPA Method 624. The samples were analyzed on 04/07/2012.

No difficulties were encountered during the VOCs analysis.

All quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample TB-17303-040312 (240-9857-2) was analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 04/10/2012.

Acetone was detected in method blank MB 240-39730/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-9857-1

Job ID: 240-9857-1 (Continued)

Laboratory: TestAmerica North Canton (Continued)

RL, the result has been "B" flagged.

Chloromethane failed the recovery criteria high for LCS 240-39730/4. This analyte has been identified as a poor performing analyte when analyzed using this method; therefore, re-analysis was not performed.

No other difficulties were encountered during the VOCs analysis.

All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Sample WW-17303-040312-DB-003 (240-9857-1) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA Method 608. The samples were prepared on 04/05/2012 and analyzed on 04/06/2012.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-9857-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
*	LCS or LCSD exceeds the control limits

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-9857-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-9857-1	WW-17303-040312-DB-003	Water	04/03/12 12:50	04/04/12 09:15
240-9857-2	TB-17303-040312	Water	04/03/12 00:00	04/04/12 09:15

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-9857-1

Client Sample ID: WW-17303-040312-DB-003

Lab Sample ID: 240-9857-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.29	J	1.0	0.22	ug/L	1		624	Total/NA

Client Sample ID: TB-17303-040312

Lab Sample ID: 240-9857-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.0	J B	10	1.1	ug/L	1		8260B	Total/NA
Methylene Chloride	0.33	J	5.0	0.33	ug/L	1		8260B	Total/NA

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-9857-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL NC
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NC
608	Polychlorinated Biphenyls (PCBs) (GC)	40CFR136A	TAL NC

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-9857-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Client Sample ID: WW-17303-040312-DB-003

Date Collected: 04/03/12 12:50

Date Received: 04/04/12 09:15

Lab Sample ID: 240-9857-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.29	J	1.0	0.22	ug/L			04/07/12 19:38	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			04/07/12 19:38	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			04/07/12 19:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		81 - 112					04/07/12 19:38	1
1,2-Dichloroethane-d4 (Surr)	83		80 - 125					04/07/12 19:38	1
Toluene-d8 (Surr)	87		84 - 110					04/07/12 19:38	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-9857-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: TB-17303-040312

Date Collected: 04/03/12 00:00

Date Received: 04/04/12 09:15

Lab Sample ID: 240-9857-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	4.0	J B	10	1.1	ug/L			04/10/12 17:53	1
Benzene	1.0	U	1.0	0.13	ug/L			04/10/12 17:53	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			04/10/12 17:53	1
Bromoform	1.0	U	1.0	0.64	ug/L			04/10/12 17:53	1
Bromomethane	1.0	U	1.0	0.41	ug/L			04/10/12 17:53	1
2-Butanone (MEK)	10	U	10	0.57	ug/L			04/10/12 17:53	1
Carbon disulfide	5.0	U	5.0	0.13	ug/L			04/10/12 17:53	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			04/10/12 17:53	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			04/10/12 17:53	1
Chloroethane	1.0	U	1.0	0.29	ug/L			04/10/12 17:53	1
Chloroform	1.0	U	1.0	0.16	ug/L			04/10/12 17:53	1
Chloromethane	1.0	U *	1.0	0.30	ug/L			04/10/12 17:53	1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L			04/10/12 17:53	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			04/10/12 17:53	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			04/10/12 17:53	1
1,2-Dichloropropane	1.0	U	1.0	0.18	ug/L			04/10/12 17:53	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L			04/10/12 17:53	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			04/10/12 17:53	1
Ethylbenzene	1.0	U	1.0	0.17	ug/L			04/10/12 17:53	1
2-Hexanone	10	U	10	0.41	ug/L			04/10/12 17:53	1
Methylene Chloride	0.33	J	5.0	0.33	ug/L			04/10/12 17:53	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L			04/10/12 17:53	1
Styrene	1.0	U	1.0	0.11	ug/L			04/10/12 17:53	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			04/10/12 17:53	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			04/10/12 17:53	1
Toluene	1.0	U	1.0	0.13	ug/L			04/10/12 17:53	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			04/10/12 17:53	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			04/10/12 17:53	1
Xylenes, Total	2.0	U	2.0	0.28	ug/L			04/10/12 17:53	1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			04/10/12 17:53	1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L			04/10/12 17:53	1
Cyclohexane	1.0	U	1.0	0.12	ug/L			04/10/12 17:53	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.67	ug/L			04/10/12 17:53	1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L			04/10/12 17:53	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			04/10/12 17:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			04/10/12 17:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			04/10/12 17:53	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L			04/10/12 17:53	1
Methyl acetate	10	U	10	0.38	ug/L			04/10/12 17:53	1
Methyl tert-butyl ether	5.0	U	5.0	0.17	ug/L			04/10/12 17:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.28	ug/L			04/10/12 17:53	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L			04/10/12 17:53	1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			04/10/12 17:53	1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L			04/10/12 17:53	1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			04/10/12 17:53	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			04/10/12 17:53	1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L			04/10/12 17:53	1
Methylcyclohexane	1.0	U	1.0	0.13	ug/L			04/10/12 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		63 - 129		04/10/12 17:53	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-9857-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: TB-17303-040312

Date Collected: 04/03/12 00:00

Date Received: 04/04/12 09:15

Lab Sample ID: 240-9857-2

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		66 - 117		04/10/12 17:53	1
Toluene-d8 (Surr)	112		74 - 115		04/10/12 17:53	1
Dibromofluoromethane (Surr)	101		75 - 121		04/10/12 17:53	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-9857-1

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Client Sample ID: WW-17303-040312-DB-003

Date Collected: 04/03/12 12:50

Date Received: 04/04/12 09:15

Lab Sample ID: 240-9857-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.097	U	0.097	0.043	ug/L		04/05/12 09:42	04/06/12 08:22	1
Aroclor-1221	0.097	U	0.097	0.044	ug/L		04/05/12 09:42	04/06/12 08:22	1
Aroclor-1232	0.097	U	0.097	0.071	ug/L		04/05/12 09:42	04/06/12 08:22	1
Aroclor-1242	0.097	U	0.097	0.058	ug/L		04/05/12 09:42	04/06/12 08:22	1
Aroclor-1248	0.097	U	0.097	0.059	ug/L		04/05/12 09:42	04/06/12 08:22	1
Aroclor-1254	0.097	U	0.097	0.031	ug/L		04/05/12 09:42	04/06/12 08:22	1
Aroclor-1260	0.097	U	0.097	0.037	ug/L		04/05/12 09:42	04/06/12 08:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	73		10 - 114				04/05/12 09:42	04/06/12 08:22	1
Tetrachloro-m-xylene	65		15 - 131				04/05/12 09:42	04/06/12 08:22	1

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-9857-1

GC/MS VOA

Analysis Batch: 39533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-9857-1	WW-17303-040312-DB-003	Total/NA	Water	624	
LCS 240-39533/6	Lab Control Sample	Total/NA	Water	624	
MB 240-39533/5	Method Blank	Total/NA	Water	624	

Analysis Batch: 39730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-9857-2	TB-17303-040312	Total/NA	Water	8260B	
LCS 240-39730/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-39730/5	Method Blank	Total/NA	Water	8260B	

GC Semi VOA

Analysis Batch: 39336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-9857-1	WW-17303-040312-DB-003	Total/NA	Water	608	39427
LCS 240-39427/5-A	Lab Control Sample	Total/NA	Water	608	39427
MB 240-39427/4-A	Method Blank	Total/NA	Water	608	39427

Prep Batch: 39427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-9857-1	WW-17303-040312-DB-003	Total/NA	Water	3510C	
LCS 240-39427/5-A	Lab Control Sample	Total/NA	Water	3510C	
MB 240-39427/4-A	Method Blank	Total/NA	Water	3510C	

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-9857-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-39533/5

Matrix: Water

Analysis Batch: 39533

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.22	ug/L			04/07/12 12:04	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			04/07/12 12:04	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			04/07/12 12:04	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		81 - 112					04/07/12 12:04	1
1,2-Dichloroethane-d4 (Surr)	85		80 - 125					04/07/12 12:04	1
Toluene-d8 (Surr)	88		84 - 110					04/07/12 12:04	1

Lab Sample ID: LCS 240-39533/6

Matrix: Water

Analysis Batch: 39533

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	20.0	17.5		ug/L		88	10 - 251
1,2-Dichloroethane	20.0	19.8		ug/L		99	49 - 155
Trichloroethene	20.0	18.7		ug/L		94	71 - 157
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	89		81 - 112				
1,2-Dichloroethane-d4 (Surr)	83		80 - 125				
Toluene-d8 (Surr)	90		84 - 110				

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-39730/5

Matrix: Water

Analysis Batch: 39730

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.50	J	10	1.1	ug/L			04/10/12 11:01	1
Benzene	1.0	U	1.0	0.13	ug/L			04/10/12 11:01	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			04/10/12 11:01	1
Bromoform	1.0	U	1.0	0.64	ug/L			04/10/12 11:01	1
Bromomethane	1.0	U	1.0	0.41	ug/L			04/10/12 11:01	1
2-Butanone (MEK)	10	U	10	0.57	ug/L			04/10/12 11:01	1
Carbon disulfide	5.0	U	5.0	0.13	ug/L			04/10/12 11:01	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			04/10/12 11:01	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			04/10/12 11:01	1
Chloroethane	1.0	U	1.0	0.29	ug/L			04/10/12 11:01	1
Chloroform	1.0	U	1.0	0.16	ug/L			04/10/12 11:01	1
Chloromethane	1.0	U	1.0	0.30	ug/L			04/10/12 11:01	1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L			04/10/12 11:01	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			04/10/12 11:01	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			04/10/12 11:01	1
1,2-Dichloropropane	1.0	U	1.0	0.18	ug/L			04/10/12 11:01	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L			04/10/12 11:01	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			04/10/12 11:01	1
Ethylbenzene	1.0	U	1.0	0.17	ug/L			04/10/12 11:01	1

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-9857-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-39730/5

Matrix: Water

Analysis Batch: 39730

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	10	U	10	0.41	ug/L			04/10/12 11:01	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			04/10/12 11:01	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L			04/10/12 11:01	1
Styrene	1.0	U	1.0	0.11	ug/L			04/10/12 11:01	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			04/10/12 11:01	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			04/10/12 11:01	1
Toluene	1.0	U	1.0	0.13	ug/L			04/10/12 11:01	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			04/10/12 11:01	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			04/10/12 11:01	1
Xylenes, Total	2.0	U	2.0	0.28	ug/L			04/10/12 11:01	1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			04/10/12 11:01	1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L			04/10/12 11:01	1
Cyclohexane	1.0	U	1.0	0.12	ug/L			04/10/12 11:01	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.67	ug/L			04/10/12 11:01	1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L			04/10/12 11:01	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			04/10/12 11:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			04/10/12 11:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			04/10/12 11:01	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L			04/10/12 11:01	1
Methyl acetate	10	U	10	0.38	ug/L			04/10/12 11:01	1
Methyl tert-butyl ether	5.0	U	5.0	0.17	ug/L			04/10/12 11:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.28	ug/L			04/10/12 11:01	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L			04/10/12 11:01	1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			04/10/12 11:01	1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L			04/10/12 11:01	1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			04/10/12 11:01	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			04/10/12 11:01	1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L			04/10/12 11:01	1
Methylcyclohexane	1.0	U	1.0	0.13	ug/L			04/10/12 11:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		63 - 129		04/10/12 11:01	1
4-Bromofluorobenzene (Surr)	88		66 - 117		04/10/12 11:01	1
Toluene-d8 (Surr)	111		74 - 115		04/10/12 11:01	1
Dibromofluoromethane (Surr)	97		75 - 121		04/10/12 11:01	1

Lab Sample ID: LCS 240-39730/4

Matrix: Water

Analysis Batch: 39730

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	26.3		ug/L		132	43 - 136
Benzene	10.0	10.4		ug/L		104	83 - 112
Bromodichloromethane	10.0	10.0		ug/L		100	72 - 121
Bromoform	10.0	6.89		ug/L		69	40 - 131
Bromomethane	10.0	11.0		ug/L		110	11 - 185
2-Butanone (MEK)	20.0	24.6		ug/L		123	60 - 126
Carbon disulfide	10.0	11.0		ug/L		110	62 - 142
Carbon tetrachloride	10.0	10.7		ug/L		107	66 - 128

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-9857-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-39730/4

Matrix: Water

Analysis Batch: 39730

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	10.0	10.3		ug/L		103	85 - 110
Chloroethane	10.0	12.2		ug/L		122	25 - 153
Chloroform	10.0	10.8		ug/L		108	79 - 117
Chloromethane	10.0	13.9	*	ug/L		139	44 - 126
1,1-Dichloroethane	10.0	10.5		ug/L		105	82 - 115
1,2-Dichloroethane	10.0	11.9		ug/L		119	71 - 127
1,1-Dichloroethene	10.0	11.6		ug/L		116	78 - 131
1,2-Dichloropropane	10.0	10.3		ug/L		103	81 - 115
cis-1,3-Dichloropropene	10.0	8.50		ug/L		85	61 - 115
trans-1,3-Dichloropropene	10.0	8.88		ug/L		89	58 - 117
Ethylbenzene	10.0	10.2		ug/L		102	83 - 112
2-Hexanone	20.0	23.9		ug/L		120	55 - 133
Methylene Chloride	10.0	11.7		ug/L		117	66 - 131
4-Methyl-2-pentanone (MIBK)	20.0	23.5		ug/L		118	63 - 128
Styrene	10.0	9.08		ug/L		91	79 - 114
1,1,2,2-Tetrachloroethane	10.0	8.82		ug/L		88	68 - 118
Tetrachloroethene	10.0	10.3		ug/L		103	79 - 114
Toluene	10.0	10.9		ug/L		109	84 - 111
Trichloroethene	10.0	10.1		ug/L		101	76 - 117
Vinyl chloride	10.0	10.9		ug/L		109	53 - 127
Xylenes, Total	30.0	28.9		ug/L		96	83 - 112
1,1,1-Trichloroethane	10.0	10.4		ug/L		104	74 - 118
1,1,2-Trichloroethane	10.0	11.0		ug/L		110	80 - 112
Cyclohexane	10.0	10.1		ug/L		101	54 - 121
1,2-Dibromo-3-Chloropropane	10.0	7.67		ug/L		77	42 - 136
1,2-Dibromoethane	10.0	10.4		ug/L		104	79 - 113
Dichlorodifluoromethane	10.0	12.9		ug/L		129	19 - 129
cis-1,2-Dichloroethene	10.0	9.81		ug/L		98	80 - 113
trans-1,2-Dichloroethene	10.0	9.95		ug/L		100	83 - 117
Isopropylbenzene	10.0	8.76		ug/L		88	75 - 114
Methyl acetate	10.0	13.1		ug/L		131	58 - 131
Methyl tert-butyl ether	10.0	8.66		ug/L		87	52 - 144
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.9		ug/L		119	74 - 151
1,2,4-Trichlorobenzene	10.0	7.55		ug/L		76	48 - 135
1,2-Dichlorobenzene	10.0	10.1		ug/L		101	81 - 110
1,3-Dichlorobenzene	10.0	10.0		ug/L		100	80 - 110
1,4-Dichlorobenzene	10.0	9.82		ug/L		98	82 - 110
Trichlorofluoromethane	10.0	15.2		ug/L		152	49 - 157
Dibromochloromethane	10.0	9.67		ug/L		97	64 - 119
Methylcyclohexane	10.0	9.76		ug/L		98	56 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	116		63 - 129
4-Bromofluorobenzene (Surr)	95		66 - 117
Toluene-d8 (Surr)	111		74 - 115
Dibromofluoromethane (Surr)	101		75 - 121

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-9857-1

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 240-39427/4-A

Matrix: Water

Analysis Batch: 39336

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39427

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.10	U	0.10	0.044	ug/L		04/05/12 09:42	04/06/12 07:54	1
Aroclor-1221	0.10	U	0.10	0.045	ug/L		04/05/12 09:42	04/06/12 07:54	1
Aroclor-1232	0.10	U	0.10	0.073	ug/L		04/05/12 09:42	04/06/12 07:54	1
Aroclor-1242	0.10	U	0.10	0.060	ug/L		04/05/12 09:42	04/06/12 07:54	1
Aroclor-1248	0.10	U	0.10	0.061	ug/L		04/05/12 09:42	04/06/12 07:54	1
Aroclor-1254	0.10	U	0.10	0.032	ug/L		04/05/12 09:42	04/06/12 07:54	1
Aroclor-1260	0.10	U	0.10	0.038	ug/L		04/05/12 09:42	04/06/12 07:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	84		10 - 114	04/05/12 09:42	04/06/12 07:54	1
Tetrachloro-m-xylene	89		15 - 131	04/05/12 09:42	04/06/12 07:54	1

Lab Sample ID: LCS 240-39427/5-A

Matrix: Water

Analysis Batch: 39336

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39427

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2.50	2.16		ug/L		86	50 - 114
Aroclor-1260	2.50	2.10		ug/L		84	8 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	70		10 - 114
Tetrachloro-m-xylene	84		15 - 131

Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-9857-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (81-112)	12DCE (80-125)	TOL (84-110)
240-9857-1	WW-17303-040312-DB-003	84	83	87
LCS 240-39533/6	Lab Control Sample	89	83	90
MB 240-39533/5	Method Blank	86	85	88
Surrogate Legend				
BFB = 4-Bromofluorobenzene (Surr)				
12DCE = 1,2-Dichloroethane-d4 (Surr)				
TOL = Toluene-d8 (Surr)				

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (63-129)	BFB (66-117)	TOL (74-115)	DBFM (75-121)
240-9857-2	TB-17303-040312	114	85	112	101
LCS 240-39730/4	Lab Control Sample	116	95	111	101
MB 240-39730/5	Method Blank	112	88	111	97
Surrogate Legend					
12DCE = 1,2-Dichloroethane-d4 (Surr)					
BFB = 4-Bromofluorobenzene (Surr)					
TOL = Toluene-d8 (Surr)					
DBFM = Dibromofluoromethane (Surr)					

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB2 (10-114)	TCX2 (15-131)
240-9857-1	WW-17303-040312-DB-003	73	65
LCS 240-39427/5-A	Lab Control Sample	70	84
MB 240-39427/4-A	Method Blank	84	89
Surrogate Legend			
DCB = DCB Decachlorobiphenyl			
TCX = Tetrachloro-m-xylene			

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-9857-1

Client Sample ID: WW-17303-040312-DB-003

Lab Sample ID: 240-9857-1

Date Collected: 04/03/12 12:50

Matrix: Water

Date Received: 04/04/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	39533	04/07/12 19:38	TL	TAL NC
Total/NA	Prep	3510C			39427	04/05/12 09:42	EM	TAL NC
Total/NA	Analysis	608		1	39336	04/06/12 08:22	LH	TAL NC

Client Sample ID: TB-17303-040312

Lab Sample ID: 240-9857-2

Date Collected: 04/03/12 00:00

Matrix: Water

Date Received: 04/04/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	39730	04/10/12 17:53	LE	TAL NC

Laboratory References:

TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-9857-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica North Canton	California	NELAC	9	01144CA
TestAmerica North Canton	Connecticut	State Program	1	PH-0590
TestAmerica North Canton	Florida	NELAC	4	E87225
TestAmerica North Canton	Georgia	State Program	4	N/A
TestAmerica North Canton	Illinois	NELAC	5	200004
TestAmerica North Canton	Kansas	NELAC	7	E-10336
TestAmerica North Canton	Kentucky	State Program	4	58
TestAmerica North Canton	L-A-B	DoD ELAP		L2315
TestAmerica North Canton	Minnesota	NELAC	5	039-999-348
TestAmerica North Canton	Nevada	State Program	9	OH-000482008A
TestAmerica North Canton	New Jersey	NELAC	2	OH001
TestAmerica North Canton	New York	NELAC	2	10975
TestAmerica North Canton	Ohio VAP	State Program	5	CL0024
TestAmerica North Canton	Pennsylvania	NELAC	3	68-00340
TestAmerica North Canton	USDA	Federal		P330-11-00328
TestAmerica North Canton	Virginia	NELAC	3	460175
TestAmerica North Canton	Washington	State Program	10	C971
TestAmerica North Canton	West Virginia DEP	State Program	3	210
TestAmerica North Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.



**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

COC NO: **PL-09411**

PAGE 1 OF 1

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 17303-T02-01				Laboratory Name: Test America		Lab Location: North Canton, OH		SSOW ID: 30640-T02-014	
Project Name: CVO				Lab Contact: Denise Heckler		Lab Quote No:		Cooler No: 1 cooler	
Project Location: Ypsilanti, MI				CONTAINER QUANTITY & PRESERVATION		ANALYSIS REQUESTED (See Back of COC for Definitions)			
Chemistry Contact: P. Wiseman				SAMPLE TYPE		Total Containers/Sample		Carrier: Fed Ex	
Sampler(s): D. Beck				Matrix Code		Other:		Airbill No: 8694 4903 3590	
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)		DATE (mm/dd/yyyy)		TIME (hh:mm)		EnCores 3x5-g, 1x25-g		Date Shipped: 4-3-2012	
1 WW-17303-040312-DB-003		04-03-12		12:50		VOC		COMMENTS/ SPECIAL INSTRUCTIONS: PCB Sample; Comp.	
2 TB-17303-040312		↓		-		5			
3						1			
4									
5									
6									
7									
8									
9									
10									
11									
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24									
25									
TAT Required in business days (use separate COCs for different TATs): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:						Total Number of Containers: 5		Notes/ Special Requirements: *VOC List 1: TCE, VC	
RELINQUISHED BY Daniel Beck						DATE 4-3-12		TIME 12:00	
COMPANY CRA						RECEIVED BY [Signature]		DATE 4-4-12	
TIME 9:15						COMPANY YALL		TIME 9:15	

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE -- Fully Executed Copy (CRA)

YELLOW -- Receiving Laboratory Copy

PINK -- Shipper

GOLDENROD -- Sampling Crew

CRA Form: COC-10A (20110804)

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15

TestAmerica North Canton Sample Receipt Form/Narrative

Login # : 9857Client CRA Site Name _____ By: [Signature]Cooler Received on 4-4-12 Opened on 4-4-12 (Signature)FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____TestAmerica Cooler # 241-296 Foam Box Client Cooler Box Other _____Packing material used: Bubble Wrap Foam Plastic Bag None Other _____COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# 1 (CF -2°C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C

IR GUN# 4G (CF -1°C) Observed Sample Temp. 2.6 °C Corrected Sample Temp. 1.6 °C

IR GUN# 5G (CF -1°C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C

IR GUN# 6Y (CF -2°C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C

☐ Multiple
on Back2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No-Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA-Were custody seals on the bottle(s)? Yes No3. Shippers' packing slip attached to the cooler(s)? Yes No4. Did custody papers accompany the sample(s)? Yes No5. Were the custody papers relinquished & signed in the appropriate place? Yes No6. Did all bottles arrive in good condition (Unbroken)? Yes No7. Could all bottle labels be reconciled with the COC? Yes No8. Were correct bottle(s) used for the test(s) indicated? Yes No9. Sufficient quantity received to perform indicated analyses? Yes No10. Were sample(s) at the correct pH upon receipt? Yes No NA11. Were VOAs on the COC? Yes No12. Were air bubbles >6 mm in any VOA vials? Yes NO NA13. Was a trip blank present in the cooler(s)? Yes No

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

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

15. SAMPLE CONDITION

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

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

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)



**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

COC NO.: PL-09411

PAGE ____ OF ____

(See Reverse Side for Instructions)

Project No/Phase/Task Code: 17303-T02-01		Laboratory Name: Test America		Lab Location: North Canton, OH		SSOW ID: 30640-T02-014	
Project Name: CVO		Lab Contact: Denise Heckler		Lab Quote No:		Cooler No: 1 cooler	
Project Location: Ypsilanti, MI		CONTAINER QUANTITY & PRESERVATION		ANALYSIS REQUESTED (See Back of COC for Definitions)		Carrier: Fed Ex	
Chemistry Contact: P. Wiseman		SAMPLE TYPE		Total Containers/Sample		Airbill No: 8694 4903 3590	
Sampler(s): D. Beck		Matrix Code		Other:		Date Shipped: 4-3-2012	
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)		DATE (mm/dd/yyyy)		TIME (hh:mm)		COMMENTS/ SPECIAL INSTRUCTIONS:	
1 WW-17303-040312-08-003		04-03-12		12:50		PCB Sample: Cont	
2 TB-17303-040312		6		-		COC Revisions	
3						4/5/12	
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Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 240-9857-1

Login Number: 9857

List Source: TestAmerica North Canton

List Number: 1

Creator: Sutek, Nick

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-10963-1

Client Project/Site: 17303-T02-01, RACER CVO

For:

Conestoga-Rovers & Associates, Inc.

14496 Sheldon Road, Suite 200

Plymouth, Michigan 48170

Attn: Mr. Paul Wiseman



Authorized for release by:

5/11/2012 1:49:37 PM

Nathan Pietras

Project Manager II

nathan.pietras@testamericainc.com

Designee for

Denise Heckler

Project Manager II

denise.heckler@testamericainc.com

LINKS

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results through

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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-01, RACER CVO

TestAmerica Job ID: 240-10963-1

Job ID: 240-10963-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 17303-T02-01, RACER CVO

Report Number: 240-10963-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica'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.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 05/04/2012; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 5.2 and 5.8 C.

Method(s) 150.1: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample(s) has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: WW-17303-050312-CB-003 (240-10963-1), WW-17303-050312-CB-003 (240-10963-1 DU), WW-17303-050312-CB-004 (240-10963-2).

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples WW-17303-050312-CB-003 (240-10963-1), WW-17303-050312-CB-004 (240-10963-2) and TB-17303-050312-CB-005 (240-10963-3) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA Method 624. The samples were analyzed on 05/08/2012 and 05/09/2012.

Samples WW-17303-050312-CB-003 (240-10963-1)[20X] and WW-17303-050312-CB-004 (240-10963-2)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the VOCs analyses.

All quality control parameters were within the acceptance limits.

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-01, RACER CVO

TestAmerica Job ID: 240-10963-1

Job ID: 240-10963-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

POLYCHLORINATED BIPHENYLS (PCBS)

Samples WW-17303-050312-CB-003 (240-10963-1) and WW-17303-050312-CB-004 (240-10963-2) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA Method 608. The samples were prepared on 05/09/2012 and analyzed on 05/10/2012.

No difficulties were encountered during the PCBs analyses.

All quality control parameters were within the acceptance limits.

PH

Samples WW-17303-050312-CB-003 (240-10963-1) and WW-17303-050312-CB-004 (240-10963-2) were analyzed for pH in accordance with EPA Method 150.1. The samples were analyzed on 05/04/2012.

For the duplicate of sample WW-17303-050312-CB-003DU (240-10963-1). Refer to the QC report for details.

No other difficulties were encountered during the pH analyses.

All other quality control parameters were within the acceptance limits.

PHENOLS

Samples WW-17303-050312-CB-003 (240-10963-1) and WW-17303-050312-CB-004 (240-10963-2) were analyzed for phenols in accordance with EPA Method 420.1. The samples were prepared and analyzed on 05/07/2012.

No difficulties were encountered during the phenol analyses.

All quality control parameters were within the acceptance limits.

CHEMICAL OXYGEN DEMAND

Samples WW-17303-050312-CB-003 (240-10963-1) and WW-17303-050312-CB-004 (240-10963-2) were analyzed for chemical oxygen demand in accordance with SM 5220D. The samples were prepared and analyzed on 05/11/2012.

No difficulties were encountered during the COD analyses.

All quality control parameters were within the acceptance limits.

Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-01, RACER CVO

TestAmerica Job ID: 240-10963-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-01, RACER CVO

TestAmerica Job ID: 240-10963-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-10963-1	WW-17303-050312-CB-003	Water	05/03/12 09:00	05/04/12 09:15
240-10963-2	WW-17303-050312-CB-004	Water	05/03/12 09:15	05/04/12 09:15
240-10963-3	TB-17303-050312-CB-005	Water	05/03/12 00:00	05/04/12 09:15

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-01, RACER CVO

TestAmerica Job ID: 240-10963-1

Client Sample ID: WW-17303-050312-CB-003

Lab Sample ID: 240-10963-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1100		20	4.4	ug/L	20		624	Total/NA
pH	7.43	HF	0.100	0.100	SU	1		150.1	Total/NA
Phenols, Total	0.0074	J	0.040	0.0073	mg/L	1		420.1	Total/NA
Chemical Oxygen Demand	62		20	10	mg/L	1		SM 5220D	Total/NA

Client Sample ID: WW-17303-050312-CB-004

Lab Sample ID: 240-10963-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1000		20	4.4	ug/L	20		624	Total/NA
pH	7.42	HF	0.100	0.100	SU	1		150.1	Total/NA
Phenols, Total	0.014	J	0.040	0.0073	mg/L	1		420.1	Total/NA
Chemical Oxygen Demand	75		20	10	mg/L	1		SM 5220D	Total/NA

Client Sample ID: TB-17303-050312-CB-005

Lab Sample ID: 240-10963-3

No Detections

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-01, RACER CVO

TestAmerica Job ID: 240-10963-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL NC
608	Polychlorinated Biphenyls (PCBs) (GC)	40CFR136A	TAL NC
150.1	pH (Electrometric)	MCAWW	TAL NC
420.1	Phenolics, Total Recoverable	MCAWW	TAL NC
SM 5220D	COD	SM	TAL NC

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL NC = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-01, RACER CVO

TestAmerica Job ID: 240-10963-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Client Sample ID: WW-17303-050312-CB-003

Date Collected: 05/03/12 09:00

Date Received: 05/04/12 09:15

Lab Sample ID: 240-10963-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	20	U	20	2.6	ug/L			05/08/12 20:50	20
Vinyl chloride	1100		20	4.4	ug/L			05/08/12 20:50	20
Carbon tetrachloride	20	U	20	2.6	ug/L			05/08/12 20:50	20
Chlorobenzene	20	U	20	3.4	ug/L			05/08/12 20:50	20
Chloroform	20	U	20	3.2	ug/L			05/08/12 20:50	20
1,4-Dichlorobenzene	20	U	20	2.6	ug/L			05/08/12 20:50	20
1,1-Dichloroethene	20	U	20	3.8	ug/L			05/08/12 20:50	20
1,2-Dichloroethane	20	U	20	4.4	ug/L			05/08/12 20:50	20
Tetrachloroethene	20	U	20	5.8	ug/L			05/08/12 20:50	20
Trichloroethene	20	U	20	3.4	ug/L			05/08/12 20:50	20
2-Butanone (MEK)	20	U	20	11	ug/L			05/08/12 20:50	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		81 - 112					05/08/12 20:50	20
1,2-Dichloroethane-d4 (Surr)	87		80 - 125					05/08/12 20:50	20
Toluene-d8 (Surr)	92		84 - 110					05/08/12 20:50	20

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-01, RACER CVO

TestAmerica Job ID: 240-10963-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Client Sample ID: WW-17303-050312-CB-004

Date Collected: 05/03/12 09:15

Date Received: 05/04/12 09:15

Lab Sample ID: 240-10963-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	20	U	20	2.6	ug/L			05/09/12 01:55	20
Vinyl chloride	1000		20	4.4	ug/L			05/09/12 01:55	20
Carbon tetrachloride	20	U	20	2.6	ug/L			05/09/12 01:55	20
Chlorobenzene	20	U	20	3.4	ug/L			05/09/12 01:55	20
Chloroform	20	U	20	3.2	ug/L			05/09/12 01:55	20
1,4-Dichlorobenzene	20	U	20	2.6	ug/L			05/09/12 01:55	20
1,1-Dichloroethene	20	U	20	3.8	ug/L			05/09/12 01:55	20
1,2-Dichloroethane	20	U	20	4.4	ug/L			05/09/12 01:55	20
Tetrachloroethene	20	U	20	5.8	ug/L			05/09/12 01:55	20
Trichloroethene	20	U	20	3.4	ug/L			05/09/12 01:55	20
2-Butanone (MEK)	20	U	20	11	ug/L			05/09/12 01:55	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		81 - 112		05/09/12 01:55	20
1,2-Dichloroethane-d4 (Surr)	86		80 - 125		05/09/12 01:55	20
Toluene-d8 (Surr)	91		84 - 110		05/09/12 01:55	20

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-01, RACER CVO

TestAmerica Job ID: 240-10963-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Client Sample ID: TB-17303-050312-CB-005

Lab Sample ID: 240-10963-3

Date Collected: 05/03/12 00:00

Matrix: Water

Date Received: 05/04/12 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.13	ug/L			05/08/12 22:26	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			05/08/12 22:26	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			05/08/12 22:26	1
Chlorobenzene	1.0	U	1.0	0.17	ug/L			05/08/12 22:26	1
Chloroform	1.0	U	1.0	0.16	ug/L			05/08/12 22:26	1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			05/08/12 22:26	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/08/12 22:26	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			05/08/12 22:26	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			05/08/12 22:26	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			05/08/12 22:26	1
2-Butanone (MEK)	1.0	U	1.0	0.57	ug/L			05/08/12 22:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		81 - 112		05/08/12 22:26	1
1,2-Dichloroethane-d4 (Surr)	88		80 - 125		05/08/12 22:26	1
Toluene-d8 (Surr)	92		84 - 110		05/08/12 22:26	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-01, RACER CVO

TestAmerica Job ID: 240-10963-1

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Client Sample ID: WW-17303-050312-CB-003

Date Collected: 05/03/12 09:00

Date Received: 05/04/12 09:15

Lab Sample ID: 240-10963-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.099	U	0.099	0.044	ug/L		05/09/12 09:43	05/10/12 03:25	1
Aroclor-1221	0.099	U	0.099	0.045	ug/L		05/09/12 09:43	05/10/12 03:25	1
Aroclor-1232	0.099	U	0.099	0.072	ug/L		05/09/12 09:43	05/10/12 03:25	1
Aroclor-1242	0.099	U	0.099	0.059	ug/L		05/09/12 09:43	05/10/12 03:25	1
Aroclor-1248	0.099	U	0.099	0.060	ug/L		05/09/12 09:43	05/10/12 03:25	1
Aroclor-1254	0.099	U	0.099	0.032	ug/L		05/09/12 09:43	05/10/12 03:25	1
Aroclor-1260	0.099	U	0.099	0.038	ug/L		05/09/12 09:43	05/10/12 03:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	43		10 - 114				05/09/12 09:43	05/10/12 03:25	1
Tetrachloro-m-xylene	55		15 - 131				05/09/12 09:43	05/10/12 03:25	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-01, RACER CVO

TestAmerica Job ID: 240-10963-1

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Client Sample ID: WW-17303-050312-CB-004

Date Collected: 05/03/12 09:15

Date Received: 05/04/12 09:15

Lab Sample ID: 240-10963-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.10	U	0.10	0.044	ug/L		05/09/12 09:43	05/10/12 04:09	1
Aroclor-1221	0.10	U	0.10	0.045	ug/L		05/09/12 09:43	05/10/12 04:09	1
Aroclor-1232	0.10	U	0.10	0.073	ug/L		05/09/12 09:43	05/10/12 04:09	1
Aroclor-1242	0.10	U	0.10	0.060	ug/L		05/09/12 09:43	05/10/12 04:09	1
Aroclor-1248	0.10	U	0.10	0.061	ug/L		05/09/12 09:43	05/10/12 04:09	1
Aroclor-1254	0.10	U	0.10	0.032	ug/L		05/09/12 09:43	05/10/12 04:09	1
Aroclor-1260	0.10	U	0.10	0.038	ug/L		05/09/12 09:43	05/10/12 04:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	62		10 - 114				05/09/12 09:43	05/10/12 04:09	1
Tetrachloro-m-xylene	33		15 - 131				05/09/12 09:43	05/10/12 04:09	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-01, RACER CVO

TestAmerica Job ID: 240-10963-1

General Chemistry

Client Sample ID: WW-17303-050312-CB-003

Date Collected: 05/03/12 09:00

Date Received: 05/04/12 09:15

Lab Sample ID: 240-10963-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.43	HF	0.100	0.100	SU			05/04/12 16:36	1
Phenols, Total	0.0074	J	0.040	0.0073	mg/L		05/07/12 08:45	05/07/12 13:08	1
Chemical Oxygen Demand	62		20	10	mg/L		05/11/12 07:38	05/11/12 11:02	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-01, RACER CVO

TestAmerica Job ID: 240-10963-1

General Chemistry

Client Sample ID: WW-17303-050312-CB-004

Date Collected: 05/03/12 09:15

Date Received: 05/04/12 09:15

Lab Sample ID: 240-10963-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.42	HF	0.100	0.100	SU			05/04/12 16:44	1
Phenols, Total	0.014	J	0.040	0.0073	mg/L		05/07/12 08:45	05/07/12 13:13	1
Chemical Oxygen Demand	75		20	10	mg/L		05/11/12 07:44	05/11/12 11:04	1

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-01, RACER CVO

TestAmerica Job ID: 240-10963-1

GC/MS VOA

Analysis Batch: 43238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-10963-1	WW-17303-050312-CB-003	Total/NA	Water	624	
240-10963-1 MS	WW-17303-050312-CB-003	Total/NA	Water	624	
240-10963-1 MSD	WW-17303-050312-CB-003	Total/NA	Water	624	
240-10963-2	WW-17303-050312-CB-004	Total/NA	Water	624	
240-10963-3	TB-17303-050312-CB-005	Total/NA	Water	624	
LCS 240-43238/5	Lab Control Sample	Total/NA	Water	624	
MB 240-43238/4	Method Blank	Total/NA	Water	624	

GC Semi VOA

Prep Batch: 43323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-10963-1	WW-17303-050312-CB-003	Total/NA	Water	3510C	
240-10963-1 MS	WW-17303-050312-CB-003	Total/NA	Water	3510C	
240-10963-1 MSD	WW-17303-050312-CB-003	Total/NA	Water	3510C	
240-10963-2	WW-17303-050312-CB-004	Total/NA	Water	3510C	
LCS 240-43323/20-A	Lab Control Sample	Total/NA	Water	3510C	
MB 240-43323/19-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 43434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-10963-1	WW-17303-050312-CB-003	Total/NA	Water	608	43323
240-10963-1 MS	WW-17303-050312-CB-003	Total/NA	Water	608	43323
240-10963-1 MSD	WW-17303-050312-CB-003	Total/NA	Water	608	43323
240-10963-2	WW-17303-050312-CB-004	Total/NA	Water	608	43323
LCS 240-43323/20-A	Lab Control Sample	Total/NA	Water	608	43323
MB 240-43323/19-A	Method Blank	Total/NA	Water	608	43323

General Chemistry

Analysis Batch: 42867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-10963-1	WW-17303-050312-CB-003	Total/NA	Water	150.1	
240-10963-1 DU	WW-17303-050312-CB-003	Total/NA	Water	150.1	
240-10963-2	WW-17303-050312-CB-004	Total/NA	Water	150.1	
LCS 240-42867/5	Lab Control Sample	Total/NA	Water	150.1	

Prep Batch: 42980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-10963-1	WW-17303-050312-CB-003	Total/NA	Water	Distill/Phenol	
240-10963-1 MS	WW-17303-050312-CB-003	Total/NA	Water	Distill/Phenol	
240-10963-1 MSD	WW-17303-050312-CB-003	Total/NA	Water	Distill/Phenol	
240-10963-2	WW-17303-050312-CB-004	Total/NA	Water	Distill/Phenol	
LCS 240-42980/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	
MB 240-42980/1-A	Method Blank	Total/NA	Water	Distill/Phenol	

Analysis Batch: 42999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-10963-1	WW-17303-050312-CB-003	Total/NA	Water	420.1	42980
240-10963-1 MS	WW-17303-050312-CB-003	Total/NA	Water	420.1	42980
240-10963-1 MSD	WW-17303-050312-CB-003	Total/NA	Water	420.1	42980
240-10963-2	WW-17303-050312-CB-004	Total/NA	Water	420.1	42980

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-01, RACER CVO

TestAmerica Job ID: 240-10963-1

General Chemistry (Continued)

Analysis Batch: 42999 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-42980/2-A	Lab Control Sample	Total/NA	Water	420.1	42980
MB 240-42980/1-A	Method Blank	Total/NA	Water	420.1	42980

Prep Batch: 43674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-10963-1	WW-17303-050312-CB-003	Total/NA	Water	SM 5220	
240-10963-1 MS	WW-17303-050312-CB-003	Total/NA	Water	SM 5220	
240-10963-1 MSD	WW-17303-050312-CB-003	Total/NA	Water	SM 5220	
240-10963-2	WW-17303-050312-CB-004	Total/NA	Water	SM 5220	
LCS 240-43674/4-A	Lab Control Sample	Total/NA	Water	SM 5220	
MB 240-43674/3-A	Method Blank	Total/NA	Water	SM 5220	

Analysis Batch: 43725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-10963-1	WW-17303-050312-CB-003	Total/NA	Water	SM 5220D	43674
240-10963-1 MS	WW-17303-050312-CB-003	Total/NA	Water	SM 5220D	43674
240-10963-1 MSD	WW-17303-050312-CB-003	Total/NA	Water	SM 5220D	43674
240-10963-2	WW-17303-050312-CB-004	Total/NA	Water	SM 5220D	43674
LCS 240-43674/4-A	Lab Control Sample	Total/NA	Water	SM 5220D	43674
MB 240-43674/3-A	Method Blank	Total/NA	Water	SM 5220D	43674

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-01, RACER CVO

TestAmerica Job ID: 240-10963-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-43238/4

Matrix: Water

Analysis Batch: 43238

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.13	ug/L			05/08/12 17:13	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			05/08/12 17:13	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			05/08/12 17:13	1
Chlorobenzene	1.0	U	1.0	0.17	ug/L			05/08/12 17:13	1
Chloroform	1.0	U	1.0	0.16	ug/L			05/08/12 17:13	1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			05/08/12 17:13	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/08/12 17:13	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			05/08/12 17:13	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			05/08/12 17:13	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			05/08/12 17:13	1
2-Butanone (MEK)	1.0	U	1.0	0.57	ug/L			05/08/12 17:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		81 - 112		05/08/12 17:13	1
1,2-Dichloroethane-d4 (Surr)	86		80 - 125		05/08/12 17:13	1
Toluene-d8 (Surr)	92		84 - 110		05/08/12 17:13	1

Lab Sample ID: LCS 240-43238/5

Matrix: Water

Analysis Batch: 43238

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	20.2		ug/L		101	37 - 151
Vinyl chloride	20.0	17.6		ug/L		88	10 - 251
Carbon tetrachloride	20.0	20.4		ug/L		102	70 - 140
Chlorobenzene	20.0	19.3		ug/L		97	37 - 160
Chloroform	20.0	18.4		ug/L		92	51 - 138
1,4-Dichlorobenzene	20.0	18.4		ug/L		92	18 - 190
1,1-Dichloroethene	20.0	19.4		ug/L		97	10 - 234
1,2-Dichloroethane	20.0	19.2		ug/L		96	49 - 155
Tetrachloroethene	20.0	18.7		ug/L		94	64 - 148
Trichloroethene	20.0	19.1		ug/L		96	71 - 157

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		81 - 112
1,2-Dichloroethane-d4 (Surr)	88		80 - 125
Toluene-d8 (Surr)	95		84 - 110

Lab Sample ID: 240-10963-1 MS

Matrix: Water

Analysis Batch: 43238

Client Sample ID: WW-17303-050312-CB-003

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20	U	400	396		ug/L		99	90 - 114
Vinyl chloride	1100		400	1440		ug/L		88	50 - 119
Carbon tetrachloride	20	U	400	388		ug/L		97	61 - 129
Chlorobenzene	20	U	400	374		ug/L		94	90 - 113
Chloroform	20	U	400	358		ug/L		90	90 - 118
1,4-Dichlorobenzene	20	U	400	362		ug/L		91	90 - 112

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-01, RACER CVO

TestAmerica Job ID: 240-10963-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-10963-1 MS

Matrix: Water

Analysis Batch: 43238

Client Sample ID: WW-17303-050312-CB-003

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	20	U	400	388		ug/L		97	83 - 129
1,2-Dichloroethane	20	U	400	378		ug/L		95	90 - 123
Tetrachloroethene	20	U	400	368		ug/L		92	81 - 112
Trichloroethene	20	U	400	374		ug/L		94	85 - 114

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		81 - 112
1,2-Dichloroethane-d4 (Surr)	91		80 - 125
Toluene-d8 (Surr)	93		84 - 110

Lab Sample ID: 240-10963-1 MSD

Matrix: Water

Analysis Batch: 43238

Client Sample ID: WW-17303-050312-CB-003

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20	U	400	398		ug/L		100	90 - 114	1	30
Vinyl chloride	1100		400	1410		ug/L		83	50 - 119	2	30
Carbon tetrachloride	20	U	400	394		ug/L		99	61 - 129	2	30
Chlorobenzene	20	U	400	372		ug/L		93	90 - 113	1	30
Chloroform	20	U	400	368		ug/L		92	90 - 118	3	30
1,4-Dichlorobenzene	20	U	400	368		ug/L		92	90 - 112	2	30
1,1-Dichloroethene	20	U	400	392		ug/L		98	83 - 129	1	30
1,2-Dichloroethane	20	U	400	376		ug/L		94	90 - 123	1	30
Tetrachloroethene	20	U	400	372		ug/L		93	81 - 112	1	30
Trichloroethene	20	U	400	378		ug/L		95	85 - 114	1	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		81 - 112
1,2-Dichloroethane-d4 (Surr)	91		80 - 125
Toluene-d8 (Surr)	95		84 - 110

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 240-43323/19-A

Matrix: Water

Analysis Batch: 43434

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43323

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.10	U	0.10	0.044	ug/L		05/09/12 09:43	05/10/12 01:44	1
Aroclor-1221	0.10	U	0.10	0.045	ug/L		05/09/12 09:43	05/10/12 01:44	1
Aroclor-1232	0.10	U	0.10	0.073	ug/L		05/09/12 09:43	05/10/12 01:44	1
Aroclor-1242	0.10	U	0.10	0.060	ug/L		05/09/12 09:43	05/10/12 01:44	1
Aroclor-1248	0.10	U	0.10	0.061	ug/L		05/09/12 09:43	05/10/12 01:44	1
Aroclor-1254	0.10	U	0.10	0.032	ug/L		05/09/12 09:43	05/10/12 01:44	1
Aroclor-1260	0.10	U	0.10	0.038	ug/L		05/09/12 09:43	05/10/12 01:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	87		10 - 114	05/09/12 09:43	05/10/12 01:44	1

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-01, RACER CVO

TestAmerica Job ID: 240-10963-1

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: MB 240-43323/19-A

Matrix: Water

Analysis Batch: 43434

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43323

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	80		15 - 131	05/09/12 09:43	05/10/12 01:44	1

Lab Sample ID: LCS 240-43323/20-A

Matrix: Water

Analysis Batch: 43434

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2.50	2.30		ug/L		92	50 - 114
Aroclor-1260	2.50	2.32		ug/L		93	8 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	91		10 - 114
Tetrachloro-m-xylene	74		15 - 131

Lab Sample ID: 240-10963-1 MS

Matrix: Water

Analysis Batch: 43434

Client Sample ID: WW-17303-050312-CB-003

Prep Type: Total/NA

Prep Batch: 43323

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	0.099	U	2.55	1.67		ug/L		65	50 - 114
Aroclor-1260	0.099	U	2.55	1.39		ug/L		54	8 - 127

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	41		10 - 114
Tetrachloro-m-xylene	46		15 - 131

Lab Sample ID: 240-10963-1 MSD

Matrix: Water

Analysis Batch: 43434

Client Sample ID: WW-17303-050312-CB-003

Prep Type: Total/NA

Prep Batch: 43323

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor-1016	0.099	U	2.40	1.81		ug/L		75	50 - 114	8	30
Aroclor-1260	0.099	U	2.40	1.56		ug/L		65	8 - 127	12	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	49		10 - 114
Tetrachloro-m-xylene	45		15 - 131

Method: 150.1 - pH (Electrometric)

Lab Sample ID: LCS 240-42867/5

Matrix: Water

Analysis Batch: 42867

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.67	7.620		SU		99	97 - 103

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-01, RACER CVO

TestAmerica Job ID: 240-10963-1

Method: 150.1 - pH (Electrometric) (Continued)

Lab Sample ID: 240-10963-1 DU

Matrix: Water

Analysis Batch: 42867

Client Sample ID: WW-17303-050312-CB-003

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	7.43	HF	7.440	HF	SU		0.1	20

Method: 420.1 - Phenolics, Total Recoverable

Lab Sample ID: MB 240-42980/1-A

Matrix: Water

Analysis Batch: 42999

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42980

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.040	U	0.040	0.0073	mg/L		05/07/12 08:45	05/07/12 12:41	1

Lab Sample ID: LCS 240-42980/2-A

Matrix: Water

Analysis Batch: 42999

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 42980

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	1.04	0.924		mg/L		89	54 - 137

Lab Sample ID: 240-10963-1 MS

Matrix: Water

Analysis Batch: 42999

Client Sample ID: WW-17303-050312-CB-003

Prep Type: Total/NA

Prep Batch: 42980

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.0074	J	0.100	0.0864		mg/L		79	10 - 155

Lab Sample ID: 240-10963-1 MSD

Matrix: Water

Analysis Batch: 42999

Client Sample ID: WW-17303-050312-CB-003

Prep Type: Total/NA

Prep Batch: 42980

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Phenols, Total	0.0074	J	0.100	0.0952		mg/L		88	10 - 155	10	20

Method: SM 5220D - COD

Lab Sample ID: MB 240-43674/3-A

Matrix: Water

Analysis Batch: 43725

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43674

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	20	U	20	10	mg/L		05/11/12 07:34	05/11/12 11:01	1

Lab Sample ID: LCS 240-43674/4-A

Matrix: Water

Analysis Batch: 43725

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43674

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	75.8	79.7		mg/L		105	90 - 110

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-01, RACER CVO

TestAmerica Job ID: 240-10963-1

Method: SM 5220D - COD (Continued)

Lab Sample ID: 240-10963-1 MS

Matrix: Water

Analysis Batch: 43725

Client Sample ID: WW-17303-050312-CB-003

Prep Type: Total/NA

Prep Batch: 43674

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	62		111	181		mg/L		107	90 - 110

Lab Sample ID: 240-10963-1 MSD

Matrix: Water

Analysis Batch: 43725

Client Sample ID: WW-17303-050312-CB-003

Prep Type: Total/NA

Prep Batch: 43674

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	62		111	184		mg/L		109	90 - 110	2	20

Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-01, RACER CVO

TestAmerica Job ID: 240-10963-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (81-112)	12DCE (80-125)	TOL (84-110)
240-10963-1	WW-17303-050312-CB-003	84	87	92
240-10963-1 MS	WW-17303-050312-CB-003	91	91	93
240-10963-1 MSD	WW-17303-050312-CB-003	91	91	95
240-10963-2	WW-17303-050312-CB-004	83	86	91
240-10963-3	TB-17303-050312-CB-005	85	88	92
LCS 240-43238/5	Lab Control Sample	91	88	95
MB 240-43238/4	Method Blank	85	86	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB1 (10-114)	TCX1 (15-131)
240-10963-1	WW-17303-050312-CB-003	43	55
240-10963-1 MS	WW-17303-050312-CB-003	41	46
240-10963-1 MSD	WW-17303-050312-CB-003	49	45
240-10963-2	WW-17303-050312-CB-004	62	33
LCS 240-43323/20-A	Lab Control Sample	91	74
MB 240-43323/19-A	Method Blank	87	80

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-01, RACER CVO

TestAmerica Job ID: 240-10963-1

Client Sample ID: WW-17303-050312-CB-003

Lab Sample ID: 240-10963-1

Date Collected: 05/03/12 09:00

Matrix: Water

Date Received: 05/04/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		20	43238	05/08/12 20:50	TL	TAL NC
Total/NA	Prep	3510C			43323	05/09/12 09:43	SE	TAL NC
Total/NA	Analysis	608		1	43434	05/10/12 03:25	LH	TAL NC
Total/NA	Analysis	150.1		1	42867	05/04/12 16:36	JM	TAL NC
Total/NA	Prep	Distill/Phenol			42980	05/07/12 08:45	JK	TAL NC
Total/NA	Analysis	420.1		1	42999	05/07/12 13:08	JK	TAL NC
Total/NA	Prep	SM 5220			43674	05/11/12 07:38	TH	TAL NC
Total/NA	Analysis	SM 5220D		1	43725	05/11/12 11:02	TH	TAL NC

Client Sample ID: WW-17303-050312-CB-004

Lab Sample ID: 240-10963-2

Date Collected: 05/03/12 09:15

Matrix: Water

Date Received: 05/04/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		20	43238	05/09/12 01:55	TL	TAL NC
Total/NA	Prep	3510C			43323	05/09/12 09:43	SE	TAL NC
Total/NA	Analysis	608		1	43434	05/10/12 04:09	LH	TAL NC
Total/NA	Analysis	150.1		1	42867	05/04/12 16:44	JM	TAL NC
Total/NA	Prep	Distill/Phenol			42980	05/07/12 08:45	JK	TAL NC
Total/NA	Analysis	420.1		1	42999	05/07/12 13:13	JK	TAL NC
Total/NA	Prep	SM 5220			43674	05/11/12 07:44	TH	TAL NC
Total/NA	Analysis	SM 5220D		1	43725	05/11/12 11:04	TH	TAL NC

Client Sample ID: TB-17303-050312-CB-005

Lab Sample ID: 240-10963-3

Date Collected: 05/03/12 00:00

Matrix: Water

Date Received: 05/04/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	43238	05/08/12 22:26	TL	TAL NC

Laboratory References:

TAL NC = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-01, RACER CVO

TestAmerica Job ID: 240-10963-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Canton	California	NELAC	9	01144CA
TestAmerica Canton	Connecticut	State Program	1	PH-0590
TestAmerica Canton	Florida	NELAC	4	E87225
TestAmerica Canton	Georgia	State Program	4	N/A
TestAmerica Canton	Illinois	NELAC	5	200004
TestAmerica Canton	Kansas	NELAC	7	E-10336
TestAmerica Canton	Kentucky	State Program	4	58
TestAmerica Canton	L-A-B	DoD ELAP		L2315
TestAmerica Canton	Minnesota	NELAC	5	039-999-348
TestAmerica Canton	Nevada	State Program	9	OH-000482008A
TestAmerica Canton	New Jersey	NELAC	2	OH001
TestAmerica Canton	New York	NELAC	2	10975
TestAmerica Canton	Ohio VAP	State Program	5	CL0024
TestAmerica Canton	Pennsylvania	NELAC	3	68-00340
TestAmerica Canton	USDA	Federal		P330-11-00328
TestAmerica Canton	Virginia	NELAC	3	460175
TestAmerica Canton	Washington	State Program	10	C971
TestAmerica Canton	West Virginia DEP	State Program	3	210
TestAmerica Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.



CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

COC NO: PL- 08275

PAGE 1 OF 1

(See Reverse Side for Instructions)

Project No/Phase/Task Code: 017303-TOZ-01		Laboratory Name: Test America		Lab Location: North Canton, OH		SSOW ID: 30640-TOZ-014	
Project Name: CVO		Lab Contact: Denise Heckler		Lab Quote No:		Cooler No:	
Project Location: Ypsilanti, MI		SAMPLE TYPE		CONTAINER QUANTITY & PRESERVATION		ANALYSIS REQUESTED (See Back of COC for Definitions)	
Chemistry Contact: Paul Wiseman		Grab (G) or Comp (C)		Unpreserved		Hydrochloric Acid (HCl)	
Sampler(s): C. Bondy		Matrix Code (see back of COC)		Nitric Acid (HNO ₃)		Sulfuric Acid (H ₂ SO ₄)	
				Sodium Hydroxide (NaOH)		Methanol/Water (Soil)	
				VOC		EnCores 3x5-g, 1x25-g	
				Other:		Total Containers/Sample	
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)		DATE (mm/dd/yyyy)		TIME (hh:mm)			
1	WW-17303-050312-06-003	5/3/12	900				
2	WW-17303-050312-08-004	5/3/12	915				
3	TS-17303-050312-08-005	5/3/12	-				
4							
5							
TAT Required in business days (use separate COCs for different TATs): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☒ 1 Week ☐ 2 Week ☐ Other:							Total Number of Containers: 31
RELINQUISHED BY							RECEIVED BY
C. Bondy							Allyson Colwell
DATE							TIME
5/3/12							1830
COMPANY							COMPANY
CRA							TAC
DATE							TIME
5/11/2012							9:15
Notes/ Special Requirements: APH collected after 1700.							
All Samples in Cooler must be on COC							BATH COMPLETE
MS/MSD Request							
Carrier: FedEx							
Airbill No: 898762400190							
Date Shipped: 5/3/12							
COMMENTS/SPECIAL INSTRUCTIONS:							

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE - Fully Executed Copy (CRA)

YELLOW - Receiving Laboratory Copy

PINK - Shipper

GOLDENROD - Sampling Crew

CRA Form: COC-10A (20110804)

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Login # : 10963

Client CRA Site Name CVO By: Olguita Colon
Cooler Received on 5/4/12 Opened on 5/4/12 (Signature) B...

Cooler Received on 5/4/12 Opened on 5/4/12 (Signature) _____

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

TestAmerica Cooler # _____ Foam Box _____ Client Cooler _____ Box _____ Other Multiple

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# 1 (CF -2°C) Observed Sample Temp. _____°C Corrected Sample Temp. _____°C

IR GUN# 4G (CF -1°C) Observed Sample Temp. _____°C Corrected Sample Temp. _____°C

~~IR GUN# 5G~~ (CF -1°C) Observed Sample Temp. _____°C Corrected Sample Temp. _____°C

IR GUN# 6Y (CF -2°C) Observed Sample Temp. _____°C Corrected Sample Temp. _____°C

☒ Multiple
on Back

- | | | | |
|--|-----------------------|-----|-------|
| 2. Were custody seals on the outside of the cooler(s)? | If Yes Quantity _____ | Yes | No |
| -Were custody seals on the outside of the cooler(s) signed & dated? | | Yes | No NA |
| -Were custody seals on the bottle(s)? | | Yes | No |
| 3. Shippers' packing slip attached to the cooler(s)? | | Yes | No |
| 4. Did custody papers accompany the sample(s)? | | Yes | No |
| 5. Were the custody papers relinquished & signed in the appropriate place? | | Yes | No |
| 6. Did all bottles arrive in good condition (Unbroken)? | | Yes | No |
| 7. Could all bottle labels be reconciled with the COC? | | Yes | No |
| 8. Were correct bottle(s) used for the test(s) indicated? | | Yes | No |
| 9. Sufficient quantity received to perform indicated analyses? | | Yes | No |
| 10. Were sample(s) at the correct pH upon receipt? | | Yes | No NA |
| 11. Were VOAs on the COC? | | Yes | No |
| 12. Were air bubbles >6 mm in any VOA vials? | | Yes | No NA |
| 13. Was a trip blank present in the cooler(s)? | | Yes | No |

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

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

15. SAMPLE CONDITION

13. SAME-LEE CONDITION
Sample(s) _____ were received after the recommended holding time had expired.

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

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

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Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 240-10963-1

Login Number: 10963

List Source: TestAmerica Canton

List Number: 1

Creator: Maddux, Ann

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-12613-1

Client Project/Site: 17303-T02-014, RACER CVO

For:

Conestoga-Rovers & Associates, Inc.

14496 Sheldon Road, Suite 200

Plymouth, Michigan 48170

Attn: Mr. Paul Wiseman



Authorized for release by:

7/10/2012 9:48:54 AM

Denise Heckler

Project Manager II

denise.heckler@testamericainc.com

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results through

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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-12613-1

Job ID: 240-12613-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 17303-T02-014, RACER CVO

Report Number: 240-12613-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica'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.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 06/23/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.1 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples WW-17303-062212-CB-003 (240-12613-1) and TB-17303-062212-CB-004 (240-12613-2) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA Method 624. The samples were analyzed on 06/28/2012.

Sample WW-17303-062212-CB-003 (240-12613-1)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the VOCs analyses.

All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Sample WW-17303-062212-CB-003 (240-12613-1) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA Method 608. The samples were prepared and analyzed on 06/27/2012.

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-12613-1

Job ID: 240-12613-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

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Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-12613-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-12613-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-12613-1	WW-17303-062212-CB-003	Water	06/22/12 09:20	06/23/12 09:45
240-12613-2	TB-17303-062212-CB-004	Water	06/22/12 00:00	06/23/12 09:45

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-12613-1

Client Sample ID: WW-17303-062212-CB-003

Lab Sample ID: 240-12613-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	500		10	2.2	ug/L	10		624	Total/NA

Client Sample ID: TB-17303-062212-CB-004

Lab Sample ID: 240-12613-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.36	J	1.0	0.33	ug/L	1		624	Total/NA

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-12613-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL NC
608	Polychlorinated Biphenyls (PCBs) (GC)	40CFR136A	TAL NC

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

Laboratory References:

TAL NC = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-12613-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Client Sample ID: WW-17303-062212-CB-003

Date Collected: 06/22/12 09:20

Date Received: 06/23/12 09:45

Lab Sample ID: 240-12613-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	500		10	2.2	ug/L			06/28/12 11:58	10
1,2-Dichloroethane	10	U	10	2.2	ug/L			06/28/12 11:58	10
Trichloroethene	10	U	10	1.7	ug/L			06/28/12 11:58	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		81 - 112					06/28/12 11:58	10
1,2-Dichloroethane-d4 (Surr)	107		80 - 125					06/28/12 11:58	10
Toluene-d8 (Surr)	105		84 - 110					06/28/12 11:58	10

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-12613-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Client Sample ID: TB-17303-062212-CB-004

Date Collected: 06/22/12 00:00

Date Received: 06/23/12 09:45

Lab Sample ID: 240-12613-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			06/28/12 03:24	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			06/28/12 03:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.28	ug/L			06/28/12 03:24	1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L			06/28/12 03:24	1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L			06/28/12 03:24	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/28/12 03:24	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L			06/28/12 03:24	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.67	ug/L			06/28/12 03:24	1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			06/28/12 03:24	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			06/28/12 03:24	1
1,2-Dichloropropane	1.0	U	1.0	0.18	ug/L			06/28/12 03:24	1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L			06/28/12 03:24	1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			06/28/12 03:24	1
2-Hexanone	10	U	10	0.41	ug/L			06/28/12 03:24	1
Acetone	10	U	10	1.1	ug/L			06/28/12 03:24	1
m-Xylene & p-Xylene	1.0	U	1.0	0.24	ug/L			06/28/12 03:24	1
o-Xylene	1.0	U	1.0	0.14	ug/L			06/28/12 03:24	1
Benzene	1.0	U	1.0	0.13	ug/L			06/28/12 03:24	1
Bromoform	1.0	U	1.0	0.64	ug/L			06/28/12 03:24	1
Bromomethane	1.0	U	1.0	0.41	ug/L			06/28/12 03:24	1
Carbon disulfide	1.0	U	1.0	0.13	ug/L			06/28/12 03:24	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			06/28/12 03:24	1
Chlorobenzene	1.0	U	1.0	0.17	ug/L			06/28/12 03:24	1
Chloroethane	1.0	U	1.0	0.29	ug/L			06/28/12 03:24	1
Chloroform	1.0	U	1.0	0.16	ug/L			06/28/12 03:24	1
Chloromethane	1.0	U	1.0	0.30	ug/L			06/28/12 03:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			06/28/12 03:24	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/28/12 03:24	1
Cyclohexane	1.0	U	1.0	0.12	ug/L			06/28/12 03:24	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			06/28/12 03:24	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			06/28/12 03:24	1
Ethylbenzene	1.0	U	1.0	0.17	ug/L			06/28/12 03:24	1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L			06/28/12 03:24	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L			06/28/12 03:24	1
Methyl acetate	1.0	U	1.0	0.38	ug/L			06/28/12 03:24	1
2-Butanone (MEK)	10	U	10	0.57	ug/L			06/28/12 03:24	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L			06/28/12 03:24	1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L			06/28/12 03:24	1
Methylene Chloride	0.36	J	1.0	0.33	ug/L			06/28/12 03:24	1
Styrene	1.0	U	1.0	0.11	ug/L			06/28/12 03:24	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			06/28/12 03:24	1
Toluene	1.0	U	1.0	0.13	ug/L			06/28/12 03:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/28/12 03:24	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			06/28/12 03:24	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			06/28/12 03:24	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			06/28/12 03:24	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			06/28/12 03:24	1
Xylenes, Total	3.0	U	3.0	0.28	ug/L			06/28/12 03:24	1
Methylcyclohexane	1.0	U	1.0	0.13	ug/L			06/28/12 03:24	1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L			06/28/12 03:24	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-12613-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	101		80 - 125		06/28/12 03:24	1
4-Bromofluorobenzene (Surr)	98		81 - 112		06/28/12 03:24	1
Toluene-d8 (Surr)	104		84 - 110		06/28/12 03:24	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-12613-1

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Client Sample ID: WW-17303-062212-CB-003

Date Collected: 06/22/12 09:20

Date Received: 06/23/12 09:45

Lab Sample ID: 240-12613-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.11	U	0.11	0.047	ug/L		06/27/12 09:07	06/27/12 18:57	1
Aroclor-1221	0.11	U	0.11	0.048	ug/L		06/27/12 09:07	06/27/12 18:57	1
Aroclor-1232	0.11	U	0.11	0.078	ug/L		06/27/12 09:07	06/27/12 18:57	1
Aroclor-1242	0.11	U	0.11	0.064	ug/L		06/27/12 09:07	06/27/12 18:57	1
Aroclor-1248	0.11	U	0.11	0.065	ug/L		06/27/12 09:07	06/27/12 18:57	1
Aroclor-1254	0.11	U	0.11	0.034	ug/L		06/27/12 09:07	06/27/12 18:57	1
Aroclor-1260	0.11	U	0.11	0.040	ug/L		06/27/12 09:07	06/27/12 18:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	56		10 - 114				06/27/12 09:07	06/27/12 18:57	1
Tetrachloro-m-xylene	78		15 - 131				06/27/12 09:07	06/27/12 18:57	1

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-12613-1

GC/MS VOA

Analysis Batch: 49152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-12613-1	WW-17303-062212-CB-003	Total/NA	Water	624	
240-12613-2	TB-17303-062212-CB-004	Total/NA	Water	624	
LCS 240-49152/5	Lab Control Sample	Total/NA	Water	624	
MB 240-49152/4	Method Blank	Total/NA	Water	624	

GC Semi VOA

Prep Batch: 49024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-12613-1	WW-17303-062212-CB-003	Total/NA	Water	3510C	
LCS 240-49024/3-A	Lab Control Sample	Total/NA	Water	3510C	
MB 240-49024/2-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 49120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-12613-1	WW-17303-062212-CB-003	Total/NA	Water	608	49024
LCS 240-49024/3-A	Lab Control Sample	Total/NA	Water	608	49024
MB 240-49024/2-A	Method Blank	Total/NA	Water	608	49024

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-12613-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-49152/4

Matrix: Water

Analysis Batch: 49152

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			06/27/12 19:02	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			06/27/12 19:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.28	ug/L			06/27/12 19:02	1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L			06/27/12 19:02	1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L			06/27/12 19:02	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/27/12 19:02	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L			06/27/12 19:02	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.67	ug/L			06/27/12 19:02	1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			06/27/12 19:02	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			06/27/12 19:02	1
1,2-Dichloropropane	1.0	U	1.0	0.18	ug/L			06/27/12 19:02	1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L			06/27/12 19:02	1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			06/27/12 19:02	1
2-Hexanone	10	U	10	0.41	ug/L			06/27/12 19:02	1
Acetone	10	U	10	1.1	ug/L			06/27/12 19:02	1
m-Xylene & p-Xylene	1.0	U	1.0	0.24	ug/L			06/27/12 19:02	1
o-Xylene	1.0	U	1.0	0.14	ug/L			06/27/12 19:02	1
Benzene	1.0	U	1.0	0.13	ug/L			06/27/12 19:02	1
Bromoform	1.0	U	1.0	0.64	ug/L			06/27/12 19:02	1
Bromomethane	1.0	U	1.0	0.41	ug/L			06/27/12 19:02	1
Carbon disulfide	1.0	U	1.0	0.13	ug/L			06/27/12 19:02	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			06/27/12 19:02	1
Chlorobenzene	1.0	U	1.0	0.17	ug/L			06/27/12 19:02	1
Chloroethane	1.0	U	1.0	0.29	ug/L			06/27/12 19:02	1
Chloroform	1.0	U	1.0	0.16	ug/L			06/27/12 19:02	1
Chloromethane	1.0	U	1.0	0.30	ug/L			06/27/12 19:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			06/27/12 19:02	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/27/12 19:02	1
Cyclohexane	1.0	U	1.0	0.12	ug/L			06/27/12 19:02	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			06/27/12 19:02	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			06/27/12 19:02	1
Ethylbenzene	1.0	U	1.0	0.17	ug/L			06/27/12 19:02	1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L			06/27/12 19:02	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L			06/27/12 19:02	1
Methyl acetate	1.0	U	1.0	0.38	ug/L			06/27/12 19:02	1
2-Butanone (MEK)	10	U	10	0.57	ug/L			06/27/12 19:02	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L			06/27/12 19:02	1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L			06/27/12 19:02	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			06/27/12 19:02	1
Styrene	1.0	U	1.0	0.11	ug/L			06/27/12 19:02	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			06/27/12 19:02	1
Toluene	1.0	U	1.0	0.13	ug/L			06/27/12 19:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/27/12 19:02	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			06/27/12 19:02	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			06/27/12 19:02	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			06/27/12 19:02	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			06/27/12 19:02	1
Xylenes, Total	3.0	U	3.0	0.28	ug/L			06/27/12 19:02	1
Methylcyclohexane	1.0	U	1.0	0.13	ug/L			06/27/12 19:02	1

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-12613-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-49152/4

Matrix: Water

Analysis Batch: 49152

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	1.0	U	1.0	0.18	ug/L			06/27/12 19:02	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		80 - 125					06/27/12 19:02	1
4-Bromofluorobenzene (Surr)	92		81 - 112					06/27/12 19:02	1
Toluene-d8 (Surr)	107		84 - 110					06/27/12 19:02	1

Lab Sample ID: LCS 240-49152/5

Matrix: Water

Analysis Batch: 49152

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	21.0		ug/L		105	52 - 162
1,1,2,2-Tetrachloroethane	20.0	15.8		ug/L		79	46 - 157
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	25.2		ug/L		126	
1,1,2-Trichloroethane	20.0	20.4		ug/L		102	52 - 150
1,1-Dichloroethane	20.0	18.8		ug/L		94	59 - 155
1,1-Dichloroethene	20.0	20.4		ug/L		102	10 - 234
1,2,4-Trichlorobenzene	20.0	21.6		ug/L		108	
1,2-Dibromo-3-Chloropropane	20.0	21.8		ug/L		109	
1,2-Dichlorobenzene	20.0	19.4		ug/L		97	18 - 190
1,2-Dichloroethane	20.0	19.6		ug/L		98	49 - 155
1,2-Dichloropropane	20.0	18.3		ug/L		92	10 - 210
1,3-Dichlorobenzene	20.0	18.3		ug/L		92	59 - 156
1,4-Dichlorobenzene	20.0	17.9		ug/L		90	18 - 190
2-Hexanone	40.0	34.9		ug/L		87	
Acetone	40.0	37.6		ug/L		94	
m-Xylene & p-Xylene	40.0	38.2		ug/L		96	
o-Xylene	20.0	19.2		ug/L		96	
Benzene	20.0	18.7		ug/L		94	37 - 151
Bromoform	20.0	18.3		ug/L		92	45 - 169
Bromomethane	20.0	20.7		ug/L		104	10 - 242
Carbon disulfide	20.0	21.2		ug/L		106	
Carbon tetrachloride	20.0	23.9		ug/L		120	70 - 140
Chlorobenzene	20.0	19.9		ug/L		100	37 - 160
Chloroethane	20.0	18.3		ug/L		92	14 - 230
Chloroform	20.0	19.1		ug/L		96	51 - 138
Chloromethane	20.0	21.5		ug/L		108	10 - 273
cis-1,2-Dichloroethene	20.0	18.0		ug/L		90	
cis-1,3-Dichloropropene	20.0	16.2		ug/L		81	10 - 227
Cyclohexane	20.0	17.4		ug/L		87	
Bromodichloromethane	20.0	19.6		ug/L		98	35 - 155
Dichlorodifluoromethane	20.0	31.7		ug/L		159	
Ethylbenzene	20.0	20.3		ug/L		102	37 - 162
1,2-Dibromoethane	20.0	19.8		ug/L		99	
Isopropylbenzene	20.0	18.8		ug/L		94	
Methyl acetate	20.0	18.3		ug/L		92	
2-Butanone (MEK)	40.0	38.7		ug/L		97	60 - 126
4-Methyl-2-pentanone (MIBK)	40.0	33.3		ug/L		83	

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-12613-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-49152/5

Matrix: Water

Analysis Batch: 49152

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	20.0	18.2		ug/L		91	
Methylene Chloride	20.0	18.0		ug/L		90	10 - 221
Styrene	20.0	18.6		ug/L		93	54 - 129
Tetrachloroethene	20.0	22.0		ug/L		110	64 - 148
Toluene	20.0	19.5		ug/L		98	47 - 150
trans-1,2-Dichloroethene	20.0	17.7		ug/L		89	54 - 156
trans-1,3-Dichloropropene	20.0	15.4		ug/L		77	17 - 183
Trichloroethene	20.0	21.2		ug/L		106	71 - 157
Trichlorofluoromethane	20.0	27.4		ug/L		137	17 - 181
Vinyl chloride	20.0	19.1		ug/L		96	10 - 251
Xylenes, Total	60.0	57.4		ug/L		96	
Methylcyclohexane	20.0	16.0		ug/L		80	
Dibromochloromethane	20.0	20.1		ug/L		101	53 - 149

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		80 - 125
4-Bromofluorobenzene (Surr)	94		81 - 112
Toluene-d8 (Surr)	109		84 - 110

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 240-49024/2-A

Matrix: Water

Analysis Batch: 49120

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49024

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.10	U	0.10	0.044	ug/L		06/27/12 09:07	06/27/12 19:12	1
Aroclor-1221	0.10	U	0.10	0.045	ug/L		06/27/12 09:07	06/27/12 19:12	1
Aroclor-1232	0.10	U	0.10	0.073	ug/L		06/27/12 09:07	06/27/12 19:12	1
Aroclor-1242	0.10	U	0.10	0.060	ug/L		06/27/12 09:07	06/27/12 19:12	1
Aroclor-1248	0.10	U	0.10	0.061	ug/L		06/27/12 09:07	06/27/12 19:12	1
Aroclor-1254	0.10	U	0.10	0.032	ug/L		06/27/12 09:07	06/27/12 19:12	1
Aroclor-1260	0.10	U	0.10	0.038	ug/L		06/27/12 09:07	06/27/12 19:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	84		10 - 114	06/27/12 09:07	06/27/12 19:12	1
Tetrachloro-m-xylene	82		15 - 131	06/27/12 09:07	06/27/12 19:12	1

Lab Sample ID: LCS 240-49024/3-A

Matrix: Water

Analysis Batch: 49120

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49024

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2.50	2.58		ug/L		103	50 - 114
Aroclor-1260	2.50	2.52		ug/L		101	8 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	81		10 - 114

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-12613-1

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: LCS 240-49024/3-A

Matrix: Water

Analysis Batch: 49120

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49024

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	83		15 - 131

Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-12613-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (81-112)	12DCE (80-125)	TOL (84-110)
240-12613-1	WW-17303-062212-CB-003	98	107	105
240-12613-2	TB-17303-062212-CB-004	98	101	104
LCS 240-49152/5	Lab Control Sample	94	111	109
MB 240-49152/4	Method Blank	92	104	107

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB2 (10-114)	TCX2 (15-131)
240-12613-1	WW-17303-062212-CB-003	56	78
LCS 240-49024/3-A	Lab Control Sample	81	83
MB 240-49024/2-A	Method Blank	84	82

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-12613-1

Client Sample ID: WW-17303-062212-CB-003

Lab Sample ID: 240-12613-1

Date Collected: 06/22/12 09:20

Matrix: Water

Date Received: 06/23/12 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		10	49152	06/28/12 11:58	TL	TAL NC
Total/NA	Prep	3510C			49024	06/27/12 09:07	BM	TAL NC
Total/NA	Analysis	608		1	49120	06/27/12 18:57	LH	TAL NC

Client Sample ID: TB-17303-062212-CB-004

Lab Sample ID: 240-12613-2

Date Collected: 06/22/12 00:00

Matrix: Water

Date Received: 06/23/12 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	49152	06/28/12 03:24	TL	TAL NC

Laboratory References:

TAL NC = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T02-014, RACER CVO

TestAmerica Job ID: 240-12613-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Canton	California	NELAC	9	01144CA
TestAmerica Canton	Connecticut	State Program	1	PH-0590
TestAmerica Canton	Florida	NELAC	4	E87225
TestAmerica Canton	Georgia	State Program	4	N/A
TestAmerica Canton	Illinois	NELAC	5	200004
TestAmerica Canton	Kansas	NELAC	7	E-10336
TestAmerica Canton	Kentucky	State Program	4	58
TestAmerica Canton	L-A-B	DoD ELAP		L2315
TestAmerica Canton	Minnesota	NELAC	5	039-999-348
TestAmerica Canton	Nevada	State Program	9	OH-000482008A
TestAmerica Canton	New Jersey	NELAC	2	OH001
TestAmerica Canton	New York	NELAC	2	10975
TestAmerica Canton	Ohio VAP	State Program	5	CL0024
TestAmerica Canton	Pennsylvania	NELAC	3	68-00340
TestAmerica Canton	USDA	Federal		P330-11-00328
TestAmerica Canton	Virginia	NELAC	3	460175
TestAmerica Canton	Washington	State Program	10	C971
TestAmerica Canton	West Virginia DEP	State Program	3	210
TestAmerica Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.



CONESTOGA-ROVERS
& ASSOCIATES

CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

COC NO: PL-08508

PAGE 1 OF 1

(See Reverse Side for Instructions)

Project No/Phase/Task Code: 017303-102-01412		Laboratory Name: Test America		Lab Location: North Canton, OH		SSOW ID: 30640-102-014	
Project Name: CVO		Lab Contact: Denise Heckler		Lab Quote No:		Cooler No:	
Project Location: Ypsilanti, MI		Chemistry Contact: Paul Wiseman		Carrier: FedEx		Date Shipped: 6/22/12	
Sampler(s): C. Bondy		MS/MSD Request:		Airbill No:		Comments/ Special Instructions:	
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)		DATE (month/day/year)		TIME (hour:minute)		Matrix Code	
Item		Grab (g) or Comp (c)		Unpreserved		Hydrochloric Acid (HCl)	
1 NW-17303-062212-CB-003		6/22/12 920		23		Nitric Acid (HNO3)	
2 NW-17303-062212-CB-004		6/22/12		1		Sulfuric Acid (H2SO4)	
3						Sodium Hydroxide	
4						Methanol/Water (Soil)	
5						EnCores 3x5-g, 1x25-g	
6						Other:	
7						Total Containers/Sample	
8						VOC list 1	
9						TLC Vials	
10						PCBs	
11						X	
12						X	
13						X	
14						X	
15						X	
16						X	
17						X	
18						X	
19						X	
20						X	
21						X	
22						X	
23						X	
24						X	
25						X	
26						X	
27						X	
28						X	
29						X	
30						X	
31						X	
32						X	
33						X	
34						X	
35						X	
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37						X	
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85						X	
86						X	
87						X	
88						X	
89						X	
90						X	
91						X	
92						X	
93						X	
94						X	
95						X	
96						X	
97						X	
98						X	
99						X	
100						X	

TAT Required in business days (use separate COCs for different TATs):		Total Number of Containers: 6		Notes/ Special Requirements:	
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:		All Samples in Cooler must be on COC		BATCH COMPLETE	
RELINQUISHED BY: C. Bondy		RECEIVED BY: [Signature]		DATE: 6/23/12	
COMPANY: CRA		COMPANY: TRA		TIME: 0945	

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE - Fully Executed Copy (CRA)

YELLOW - Receiving Laboratory Copy

PINK - Shipper

GOLDENROD - Sampling Crew

CRA Form: COC-10A (20110804)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

TestAmerica North Canton Sample Receipt Form/Narrative

Login # : 12613

Client CRA

Site Name CVO

By: [Signature]

Cooler Received on 6/23/12

Opened on 6/25/12

(Signature)

FedEx: 1st Gnd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other

TestAmerica Cooler # 241-2580 Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# 1 (CF -2°C) Observed Sample Temp 2.1 °C Corrected Sample Temp 2.1 °C

IR GUN# 4G (CF -1°C) Observed Sample Temp. °C Corrected Sample Temp. °C

IR GUN# 5G (CF -1°C) Observed Sample Temp. °C Corrected Sample Temp. °C

IR GUN# 6Y (CF -2°C) Observed Sample Temp. °C Corrected Sample Temp. °C

☐ Multiple
on Back

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity

Yes No

-Were custody seals on the outside of the cooler(s) signed & dated?

Yes No NA

-Were custody seals on the bottle(s)?

Yes No

3. Shippers' packing slip attached to the cooler(s)?

Yes No

4. Did custody papers accompany the sample(s)?

Yes No

5. Were the custody papers relinquished & signed in the appropriate place?

Yes No

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

Yes No

7. Could all bottle labels be reconciled with the COC?

Yes No

8. Were correct bottle(s) used for the test(s) indicated?

Yes No

9. Sufficient quantity received to perform indicated analyses?

Yes No

10. Were sample(s) at the correct pH upon receipt?

Yes No NA

11. Were VOAs on the COC?

Yes No

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

Yes No NA

13. Was a trip blank present in the cooler(s)?

Yes No

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

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

15. SAMPLE CONDITION

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

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

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

[illegible][illegible]

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 240-12613-1

Login Number: 12613

List Number: 1

Creator: Sutek, Nick

List Source: TestAmerica Canton

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-12142-1

Client Project/Site: 17303-T05-012-RACER CVO

For:

Conestoga-Rovers & Associates, Inc.

14496 Sheldon Road, Suite 200

Plymouth, Michigan 48170

Attn: Mr. Paul Wiseman



Authorized for release by:

6/12/2012 3:04:43 PM

Denise Heckler

Project Manager II

denise.heckler@testamericainc.com

LINKS

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results through

TotalAccess

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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T05-012-RACER CVO

TestAmerica Job ID: 240-12142-1

Job ID: 240-12142-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 17303-T05-012-RACER CVO

Report Number: 240-12142-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica'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.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 06/09/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.4 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples WW-17303-060812-CB-001 (240-12142-1), WW-17303-060812-CB-002 (240-12142-2) and TB-17303-060812-CB-003 (240-12142-3) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/12/2012.

Acetone was detected in method blank MB 240-47118/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Samples WW-17303-060812-CB-001 (240-12142-1)[416.67X] and WW-17303-060812-CB-002 (240-12142-2)[2.5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the VOCs analyses.

All other quality control parameters were within the acceptance limits.

Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T05-012-RACER CVO

TestAmerica Job ID: 240-12142-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T05-012-RACER CVO

TestAmerica Job ID: 240-12142-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-12142-1	WW-17303-060812-CB-001	Water	06/08/12 08:50	06/09/12 09:30
240-12142-2	WW-17303-060812-CB-002	Water	06/08/12 13:05	06/09/12 09:30
240-12142-3	TB-17303-060812-CB-003	Water	06/08/12 00:00	06/09/12 09:30

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T05-012-RACER CVO

TestAmerica Job ID: 240-12142-1

Client Sample ID: WW-17303-060812-CB-001

Lab Sample ID: 240-12142-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	5500		420	92	ug/L	416.67		8260B	Total/NA
cis-1,2-Dichloroethene	15000		420	71	ug/L	416.67		8260B	Total/NA

Client Sample ID: WW-17303-060812-CB-002

Lab Sample ID: 240-12142-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	67	B	25	2.8	ug/L	2.5		8260B	Total/NA
Benzene	26		2.5	0.33	ug/L	2.5		8260B	Total/NA
2-Butanone (MEK)	4.2	J	25	1.4	ug/L	2.5		8260B	Total/NA
Chlorobenzene	0.46	J	2.5	0.38	ug/L	2.5		8260B	Total/NA
1,2-Dichloroethane	9.4		2.5	0.55	ug/L	2.5		8260B	Total/NA
4-Methyl-2-pentanone (MIBK)	4.7	J	25	0.80	ug/L	2.5		8260B	Total/NA
Toluene	6.6		2.5	0.33	ug/L	2.5		8260B	Total/NA
1,1,2-Trichloroethane	11		2.5	0.68	ug/L	2.5		8260B	Total/NA
Cyclohexane	0.87	J	2.5	0.30	ug/L	2.5		8260B	Total/NA
1,3-Dichlorobenzene	0.79	J	2.5	0.35	ug/L	2.5		8260B	Total/NA
1,4-Dichlorobenzene	3.1		2.5	0.33	ug/L	2.5		8260B	Total/NA

Client Sample ID: TB-17303-060812-CB-003

Lab Sample ID: 240-12142-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.0	J B	10	1.1	ug/L	1		8260B	Total/NA

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T05-012-RACER CVO

TestAmerica Job ID: 240-12142-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NC

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NC = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T05-012-RACER CVO

TestAmerica Job ID: 240-12142-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: WW-17303-060812-CB-001

Lab Sample ID: 240-12142-1

Date Collected: 06/08/12 08:50

Matrix: Water

Date Received: 06/09/12 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	4200	U	4200	460	ug/L			06/12/12 13:14	416.67
Benzene	420	U	420	54	ug/L			06/12/12 13:14	416.67
Bromodichloromethane	420	U	420	63	ug/L			06/12/12 13:14	416.67
Bromoform	420	U	420	270	ug/L			06/12/12 13:14	416.67
Bromomethane	420	U	420	170	ug/L			06/12/12 13:14	416.67
2-Butanone (MEK)	4200	U	4200	240	ug/L			06/12/12 13:14	416.67
Carbon disulfide	2100	U	2100	54	ug/L			06/12/12 13:14	416.67
Carbon tetrachloride	420	U	420	54	ug/L			06/12/12 13:14	416.67
Chlorobenzene	420	U	420	63	ug/L			06/12/12 13:14	416.67
Chloroethane	420	U	420	120	ug/L			06/12/12 13:14	416.67
Chloroform	420	U	420	67	ug/L			06/12/12 13:14	416.67
Chloromethane	420	U	420	130	ug/L			06/12/12 13:14	416.67
1,1-Dichloroethane	420	U	420	63	ug/L			06/12/12 13:14	416.67
1,2-Dichloroethane	420	U	420	92	ug/L			06/12/12 13:14	416.67
1,1-Dichloroethene	420	U	420	79	ug/L			06/12/12 13:14	416.67
1,2-Dichloropropane	420	U	420	75	ug/L			06/12/12 13:14	416.67
cis-1,3-Dichloropropene	420	U	420	58	ug/L			06/12/12 13:14	416.67
trans-1,3-Dichloropropene	420	U	420	79	ug/L			06/12/12 13:14	416.67
Ethylbenzene	420	U	420	71	ug/L			06/12/12 13:14	416.67
2-Hexanone	4200	U	4200	170	ug/L			06/12/12 13:14	416.67
Methylene Chloride	2100	U	2100	140	ug/L			06/12/12 13:14	416.67
4-Methyl-2-pentanone (MIBK)	4200	U	4200	130	ug/L			06/12/12 13:14	416.67
Styrene	420	U	420	46	ug/L			06/12/12 13:14	416.67
1,1,2,2-Tetrachloroethane	420	U	420	75	ug/L			06/12/12 13:14	416.67
Tetrachloroethene	420	U	420	120	ug/L			06/12/12 13:14	416.67
Toluene	420	U	420	54	ug/L			06/12/12 13:14	416.67
Trichloroethene	420	U	420	71	ug/L			06/12/12 13:14	416.67
Vinyl chloride	5500		420	92	ug/L			06/12/12 13:14	416.67
Xylenes, Total	830	U	830	120	ug/L			06/12/12 13:14	416.67
1,1,1-Trichloroethane	420	U	420	92	ug/L			06/12/12 13:14	416.67
1,1,2-Trichloroethane	420	U	420	110	ug/L			06/12/12 13:14	416.67
Cyclohexane	420	U	420	50	ug/L			06/12/12 13:14	416.67
1,2-Dibromo-3-Chloropropane	420	U	420	280	ug/L			06/12/12 13:14	416.67
1,2-Dibromoethane	420	U	420	100	ug/L			06/12/12 13:14	416.67
Dichlorodifluoromethane	420	U	420	130	ug/L			06/12/12 13:14	416.67
cis-1,2-Dichloroethene	15000		420	71	ug/L			06/12/12 13:14	416.67
trans-1,2-Dichloroethene	420	U	420	79	ug/L			06/12/12 13:14	416.67
Isopropylbenzene	420	U	420	54	ug/L			06/12/12 13:14	416.67
Methyl acetate	4200	U	4200	160	ug/L			06/12/12 13:14	416.67
Methyl tert-butyl ether	2100	U	2100	71	ug/L			06/12/12 13:14	416.67
1,1,2-Trichloro-1,2,2-trifluoroethane	420	U	420	120	ug/L			06/12/12 13:14	416.67
1,2,4-Trichlorobenzene	420	U	420	63	ug/L			06/12/12 13:14	416.67
1,2-Dichlorobenzene	420	U	420	54	ug/L			06/12/12 13:14	416.67
1,3-Dichlorobenzene	420	U	420	58	ug/L			06/12/12 13:14	416.67
1,4-Dichlorobenzene	420	U	420	54	ug/L			06/12/12 13:14	416.67
Trichlorofluoromethane	420	U	420	88	ug/L			06/12/12 13:14	416.67
Dibromochloromethane	420	U	420	75	ug/L			06/12/12 13:14	416.67
Methylcyclohexane	420	U	420	54	ug/L			06/12/12 13:14	416.67

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 129		06/12/12 13:14	416.67

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T05-012-RACER CVO

TestAmerica Job ID: 240-12142-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WW-17303-060812-CB-001

Date Collected: 06/08/12 08:50

Date Received: 06/09/12 09:30

Lab Sample ID: 240-12142-1

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		66 - 117		06/12/12 13:14	416.67
Toluene-d8 (Surr)	91		74 - 115		06/12/12 13:14	416.67
Dibromofluoromethane (Surr)	114		75 - 121		06/12/12 13:14	416.67

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T05-012-RACER CVO

TestAmerica Job ID: 240-12142-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: WW-17303-060812-CB-002

Date Collected: 06/08/12 13:05

Date Received: 06/09/12 09:30

Lab Sample ID: 240-12142-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	67	B	25	2.8	ug/L			06/12/12 13:40	2.5
Benzene	26		2.5	0.33	ug/L			06/12/12 13:40	2.5
Bromodichloromethane	2.5	U	2.5	0.38	ug/L			06/12/12 13:40	2.5
Bromoform	2.5	U	2.5	1.6	ug/L			06/12/12 13:40	2.5
Bromomethane	2.5	U	2.5	1.0	ug/L			06/12/12 13:40	2.5
2-Butanone (MEK)	4.2	J	25	1.4	ug/L			06/12/12 13:40	2.5
Carbon disulfide	13	U	13	0.33	ug/L			06/12/12 13:40	2.5
Carbon tetrachloride	2.5	U	2.5	0.33	ug/L			06/12/12 13:40	2.5
Chlorobenzene	0.46	J	2.5	0.38	ug/L			06/12/12 13:40	2.5
Chloroethane	2.5	U	2.5	0.73	ug/L			06/12/12 13:40	2.5
Chloroform	2.5	U	2.5	0.40	ug/L			06/12/12 13:40	2.5
Chloromethane	2.5	U	2.5	0.75	ug/L			06/12/12 13:40	2.5
1,1-Dichloroethane	2.5	U	2.5	0.38	ug/L			06/12/12 13:40	2.5
1,2-Dichloroethane	9.4		2.5	0.55	ug/L			06/12/12 13:40	2.5
1,1-Dichloroethene	2.5	U	2.5	0.48	ug/L			06/12/12 13:40	2.5
1,2-Dichloropropane	2.5	U	2.5	0.45	ug/L			06/12/12 13:40	2.5
cis-1,3-Dichloropropene	2.5	U	2.5	0.35	ug/L			06/12/12 13:40	2.5
trans-1,3-Dichloropropene	2.5	U	2.5	0.48	ug/L			06/12/12 13:40	2.5
Ethylbenzene	2.5	U	2.5	0.43	ug/L			06/12/12 13:40	2.5
2-Hexanone	25	U	25	1.0	ug/L			06/12/12 13:40	2.5
Methylene Chloride	13	U	13	0.83	ug/L			06/12/12 13:40	2.5
4-Methyl-2-pentanone (MIBK)	4.7	J	25	0.80	ug/L			06/12/12 13:40	2.5
Styrene	2.5	U	2.5	0.28	ug/L			06/12/12 13:40	2.5
1,1,2,2-Tetrachloroethane	2.5	U	2.5	0.45	ug/L			06/12/12 13:40	2.5
Tetrachloroethene	2.5	U	2.5	0.73	ug/L			06/12/12 13:40	2.5
Toluene	6.6		2.5	0.33	ug/L			06/12/12 13:40	2.5
Trichloroethene	2.5	U	2.5	0.43	ug/L			06/12/12 13:40	2.5
Vinyl chloride	2.5	U	2.5	0.55	ug/L			06/12/12 13:40	2.5
Xylenes, Total	5.0	U	5.0	0.70	ug/L			06/12/12 13:40	2.5
1,1,1-Trichloroethane	2.5	U	2.5	0.55	ug/L			06/12/12 13:40	2.5
1,1,2-Trichloroethane	11		2.5	0.68	ug/L			06/12/12 13:40	2.5
Cyclohexane	0.87	J	2.5	0.30	ug/L			06/12/12 13:40	2.5
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	1.7	ug/L			06/12/12 13:40	2.5
1,2-Dibromoethane	2.5	U	2.5	0.60	ug/L			06/12/12 13:40	2.5
Dichlorodifluoromethane	2.5	U	2.5	0.78	ug/L			06/12/12 13:40	2.5
cis-1,2-Dichloroethene	2.5	U	2.5	0.43	ug/L			06/12/12 13:40	2.5
trans-1,2-Dichloroethene	2.5	U	2.5	0.48	ug/L			06/12/12 13:40	2.5
Isopropylbenzene	2.5	U	2.5	0.33	ug/L			06/12/12 13:40	2.5
Methyl acetate	25	U	25	0.95	ug/L			06/12/12 13:40	2.5
Methyl tert-butyl ether	13	U	13	0.43	ug/L			06/12/12 13:40	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane	2.5	U	2.5	0.70	ug/L			06/12/12 13:40	2.5
1,2,4-Trichlorobenzene	2.5	U	2.5	0.38	ug/L			06/12/12 13:40	2.5
1,2-Dichlorobenzene	2.5	U	2.5	0.33	ug/L			06/12/12 13:40	2.5
1,3-Dichlorobenzene	0.79	J	2.5	0.35	ug/L			06/12/12 13:40	2.5
1,4-Dichlorobenzene	3.1		2.5	0.33	ug/L			06/12/12 13:40	2.5
Trichlorofluoromethane	2.5	U	2.5	0.53	ug/L			06/12/12 13:40	2.5
Dibromochloromethane	2.5	U	2.5	0.45	ug/L			06/12/12 13:40	2.5
Methylcyclohexane	2.5	U	2.5	0.33	ug/L			06/12/12 13:40	2.5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		63 - 129					06/12/12 13:40	2.5

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T05-012-RACER CVO

TestAmerica Job ID: 240-12142-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: WW-17303-060812-CB-002

Date Collected: 06/08/12 13:05

Date Received: 06/09/12 09:30

Lab Sample ID: 240-12142-2

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		66 - 117		06/12/12 13:40	2.5
Toluene-d8 (Surr)	85		74 - 115		06/12/12 13:40	2.5
Dibromofluoromethane (Surr)	107		75 - 121		06/12/12 13:40	2.5

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T05-012-RACER CVO

TestAmerica Job ID: 240-12142-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: TB-17303-060812-CB-003

Date Collected: 06/08/12 00:00

Date Received: 06/09/12 09:30

Lab Sample ID: 240-12142-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	4.0	J B	10	1.1	ug/L			06/12/12 14:01	1
Benzene	1.0	U	1.0	0.13	ug/L			06/12/12 14:01	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			06/12/12 14:01	1
Bromoform	1.0	U	1.0	0.64	ug/L			06/12/12 14:01	1
Bromomethane	1.0	U	1.0	0.41	ug/L			06/12/12 14:01	1
2-Butanone (MEK)	10	U	10	0.57	ug/L			06/12/12 14:01	1
Carbon disulfide	5.0	U	5.0	0.13	ug/L			06/12/12 14:01	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			06/12/12 14:01	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			06/12/12 14:01	1
Chloroethane	1.0	U	1.0	0.29	ug/L			06/12/12 14:01	1
Chloroform	1.0	U	1.0	0.16	ug/L			06/12/12 14:01	1
Chloromethane	1.0	U	1.0	0.30	ug/L			06/12/12 14:01	1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L			06/12/12 14:01	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			06/12/12 14:01	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/12/12 14:01	1
1,2-Dichloropropane	1.0	U	1.0	0.18	ug/L			06/12/12 14:01	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/12/12 14:01	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			06/12/12 14:01	1
Ethylbenzene	1.0	U	1.0	0.17	ug/L			06/12/12 14:01	1
2-Hexanone	10	U	10	0.41	ug/L			06/12/12 14:01	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			06/12/12 14:01	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L			06/12/12 14:01	1
Styrene	1.0	U	1.0	0.11	ug/L			06/12/12 14:01	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			06/12/12 14:01	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			06/12/12 14:01	1
Toluene	1.0	U	1.0	0.13	ug/L			06/12/12 14:01	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			06/12/12 14:01	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			06/12/12 14:01	1
Xylenes, Total	2.0	U	2.0	0.28	ug/L			06/12/12 14:01	1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			06/12/12 14:01	1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L			06/12/12 14:01	1
Cyclohexane	1.0	U	1.0	0.12	ug/L			06/12/12 14:01	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.67	ug/L			06/12/12 14:01	1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L			06/12/12 14:01	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			06/12/12 14:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			06/12/12 14:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/12/12 14:01	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L			06/12/12 14:01	1
Methyl acetate	10	U	10	0.38	ug/L			06/12/12 14:01	1
Methyl tert-butyl ether	5.0	U	5.0	0.17	ug/L			06/12/12 14:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.28	ug/L			06/12/12 14:01	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L			06/12/12 14:01	1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			06/12/12 14:01	1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L			06/12/12 14:01	1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			06/12/12 14:01	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			06/12/12 14:01	1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L			06/12/12 14:01	1
Methylcyclohexane	1.0	U	1.0	0.13	ug/L			06/12/12 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 129		06/12/12 14:01	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T05-012-RACER CVO

TestAmerica Job ID: 240-12142-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: TB-17303-060812-CB-003

Date Collected: 06/08/12 00:00

Date Received: 06/09/12 09:30

Lab Sample ID: 240-12142-3

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		66 - 117		06/12/12 14:01	1
Toluene-d8 (Surr)	97		74 - 115		06/12/12 14:01	1
Dibromofluoromethane (Surr)	114		75 - 121		06/12/12 14:01	1

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T05-012-RACER CVO

TestAmerica Job ID: 240-12142-1

GC/MS VOA

Analysis Batch: 47118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-12142-1	WW-17303-060812-CB-001	Total/NA	Water	8260B	
240-12142-2	WW-17303-060812-CB-002	Total/NA	Water	8260B	
240-12142-3	TB-17303-060812-CB-003	Total/NA	Water	8260B	
LCS 240-47118/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-47118/5	Method Blank	Total/NA	Water	8260B	

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T05-012-RACER CVO

TestAmerica Job ID: 240-12142-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-47118/5

Matrix: Water

Analysis Batch: 47118

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.12	J	10	1.1	ug/L			06/12/12 12:22	1
Benzene	1.0	U	1.0	0.13	ug/L			06/12/12 12:22	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			06/12/12 12:22	1
Bromoform	1.0	U	1.0	0.64	ug/L			06/12/12 12:22	1
Bromomethane	1.0	U	1.0	0.41	ug/L			06/12/12 12:22	1
2-Butanone (MEK)	10	U	10	0.57	ug/L			06/12/12 12:22	1
Carbon disulfide	5.0	U	5.0	0.13	ug/L			06/12/12 12:22	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			06/12/12 12:22	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			06/12/12 12:22	1
Chloroethane	1.0	U	1.0	0.29	ug/L			06/12/12 12:22	1
Chloroform	1.0	U	1.0	0.16	ug/L			06/12/12 12:22	1
Chloromethane	1.0	U	1.0	0.30	ug/L			06/12/12 12:22	1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L			06/12/12 12:22	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			06/12/12 12:22	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/12/12 12:22	1
1,2-Dichloropropane	1.0	U	1.0	0.18	ug/L			06/12/12 12:22	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/12/12 12:22	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			06/12/12 12:22	1
Ethylbenzene	1.0	U	1.0	0.17	ug/L			06/12/12 12:22	1
2-Hexanone	10	U	10	0.41	ug/L			06/12/12 12:22	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			06/12/12 12:22	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L			06/12/12 12:22	1
Styrene	1.0	U	1.0	0.11	ug/L			06/12/12 12:22	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			06/12/12 12:22	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			06/12/12 12:22	1
Toluene	1.0	U	1.0	0.13	ug/L			06/12/12 12:22	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			06/12/12 12:22	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			06/12/12 12:22	1
Xylenes, Total	2.0	U	2.0	0.28	ug/L			06/12/12 12:22	1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			06/12/12 12:22	1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L			06/12/12 12:22	1
Cyclohexane	1.0	U	1.0	0.12	ug/L			06/12/12 12:22	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.67	ug/L			06/12/12 12:22	1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L			06/12/12 12:22	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			06/12/12 12:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			06/12/12 12:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/12/12 12:22	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L			06/12/12 12:22	1
Methyl acetate	10	U	10	0.38	ug/L			06/12/12 12:22	1
Methyl tert-butyl ether	5.0	U	5.0	0.17	ug/L			06/12/12 12:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.28	ug/L			06/12/12 12:22	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L			06/12/12 12:22	1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			06/12/12 12:22	1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L			06/12/12 12:22	1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			06/12/12 12:22	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			06/12/12 12:22	1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L			06/12/12 12:22	1
Methylcyclohexane	1.0	U	1.0	0.13	ug/L			06/12/12 12:22	1

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T05-012-RACER CVO

TestAmerica Job ID: 240-12142-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-47118/5

Matrix: Water

Analysis Batch: 47118

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 129		06/12/12 12:22	1
4-Bromofluorobenzene (Surr)	81		66 - 117		06/12/12 12:22	1
Toluene-d8 (Surr)	96		74 - 115		06/12/12 12:22	1
Dibromofluoromethane (Surr)	109		75 - 121		06/12/12 12:22	1

Lab Sample ID: LCS 240-47118/4

Matrix: Water

Analysis Batch: 47118

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	26.4		ug/L		132	43 - 136
Benzene	10.0	10.2		ug/L		102	83 - 112
Bromodichloromethane	10.0	10.9		ug/L		109	72 - 121
Bromoform	10.0	10.1		ug/L		101	40 - 131
Bromomethane	10.0	11.6		ug/L		116	11 - 185
2-Butanone (MEK)	20.0	21.0		ug/L		105	60 - 126
Carbon disulfide	10.0	11.3		ug/L		113	62 - 142
Carbon tetrachloride	10.0	11.8		ug/L		118	66 - 128
Chlorobenzene	10.0	9.46		ug/L		95	85 - 110
Chloroethane	10.0	10.5		ug/L		105	25 - 153
Chloroform	10.0	10.9		ug/L		109	79 - 117
Chloromethane	10.0	8.02		ug/L		80	44 - 126
1,1-Dichloroethane	10.0	10.3		ug/L		103	82 - 115
1,2-Dichloroethane	10.0	10.2		ug/L		102	71 - 127
1,1-Dichloroethene	10.0	12.4		ug/L		124	78 - 131
1,2-Dichloropropane	10.0	9.51		ug/L		95	81 - 115
cis-1,3-Dichloropropene	10.0	10.0		ug/L		100	61 - 115
trans-1,3-Dichloropropene	10.0	8.15		ug/L		82	58 - 117
Ethylbenzene	10.0	9.20		ug/L		92	83 - 112
2-Hexanone	20.0	13.9		ug/L		70	55 - 133
Methylene Chloride	10.0	11.6		ug/L		116	66 - 131
4-Methyl-2-pentanone (MIBK)	20.0	17.3		ug/L		87	63 - 128
Styrene	10.0	9.45		ug/L		95	79 - 114
1,1,2,2-Tetrachloroethane	10.0	8.60		ug/L		86	68 - 118
Tetrachloroethene	10.0	10.5		ug/L		105	79 - 114
Toluene	10.0	8.85		ug/L		89	84 - 111
Trichloroethene	10.0	11.2		ug/L		112	76 - 117
Vinyl chloride	10.0	10.5		ug/L		105	53 - 127
Xylenes, Total	30.0	27.6		ug/L		92	83 - 112
1,1,1-Trichloroethane	10.0	11.5		ug/L		115	74 - 118
1,1,2-Trichloroethane	10.0	10.3		ug/L		103	80 - 112
Cyclohexane	10.0	9.07		ug/L		91	54 - 121
1,2-Dibromo-3-Chloropropane	10.0	10.4		ug/L		104	42 - 136
1,2-Dibromoethane	10.0	10.4		ug/L		104	79 - 113
Dichlorodifluoromethane	10.0	10.5		ug/L		105	19 - 129
cis-1,2-Dichloroethene	10.0	10.8		ug/L		108	80 - 113
trans-1,2-Dichloroethene	10.0	11.6		ug/L		116	83 - 117
Isopropylbenzene	10.0	8.66		ug/L		87	75 - 114
Methyl acetate	10.0	11.8		ug/L		118	58 - 131

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T05-012-RACER CVO

TestAmerica Job ID: 240-12142-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-47118/4

Matrix: Water

Analysis Batch: 47118

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	10.0	10.7		ug/L		107	52 - 144
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	15.1		ug/L		151	74 - 151
1,2,4-Trichlorobenzene	10.0	6.48		ug/L		65	48 - 135
1,2-Dichlorobenzene	10.0	8.58		ug/L		86	81 - 110
1,3-Dichlorobenzene	10.0	8.36		ug/L		84	80 - 110
1,4-Dichlorobenzene	10.0	8.26		ug/L		83	82 - 110
Trichlorofluoromethane	10.0	9.51		ug/L		95	49 - 157
Dibromochloromethane	10.0	9.70		ug/L		97	64 - 119
Methylcyclohexane	10.0	8.30		ug/L		83	56 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		63 - 129
4-Bromofluorobenzene (Surr)	89		66 - 117
Toluene-d8 (Surr)	92		74 - 115
Dibromofluoromethane (Surr)	116		75 - 121

Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T05-012-RACER CVO

TestAmerica Job ID: 240-12142-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (63-129)	BFB (66-117)	TOL (74-115)	DBFM (75-121)
240-12142-1	WW-17303-060812-CB-001	96	81	91	114
240-12142-2	WW-17303-060812-CB-002	94	85	85	107
240-12142-3	TB-17303-060812-CB-003	105	82	97	114
LCS 240-47118/4	Lab Control Sample	107	89	92	116
MB 240-47118/5	Method Blank	101	81	96	109

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T05-012-RACER CVO

TestAmerica Job ID: 240-12142-1

Client Sample ID: WW-17303-060812-CB-001

Date Collected: 06/08/12 08:50

Date Received: 06/09/12 09:30

Lab Sample ID: 240-12142-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		416.67	47118	06/12/12 13:14	RQ	TAL NC

Client Sample ID: WW-17303-060812-CB-002

Date Collected: 06/08/12 13:05

Date Received: 06/09/12 09:30

Lab Sample ID: 240-12142-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2.5	47118	06/12/12 13:40	RQ	TAL NC

Client Sample ID: TB-17303-060812-CB-003

Date Collected: 06/08/12 00:00

Date Received: 06/09/12 09:30

Lab Sample ID: 240-12142-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	47118	06/12/12 14:01	RQ	TAL NC

Laboratory References:

TAL NC = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17303-T05-012-RACER CVO

TestAmerica Job ID: 240-12142-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Canton	California	NELAC	9	01144CA
TestAmerica Canton	Connecticut	State Program	1	PH-0590
TestAmerica Canton	Florida	NELAC	4	E87225
TestAmerica Canton	Georgia	State Program	4	N/A
TestAmerica Canton	Illinois	NELAC	5	200004
TestAmerica Canton	Kansas	NELAC	7	E-10336
TestAmerica Canton	Kentucky	State Program	4	58
TestAmerica Canton	L-A-B	DoD ELAP		L2315
TestAmerica Canton	Minnesota	NELAC	5	039-999-348
TestAmerica Canton	Nevada	State Program	9	OH-000482008A
TestAmerica Canton	New Jersey	NELAC	2	OH001
TestAmerica Canton	New York	NELAC	2	10975
TestAmerica Canton	Ohio VAP	State Program	5	CL0024
TestAmerica Canton	Pennsylvania	NELAC	3	68-00340
TestAmerica Canton	USDA	Federal		P330-11-00328
TestAmerica Canton	Virginia	NELAC	3	460175
TestAmerica Canton	Washington	State Program	10	C971
TestAmerica Canton	West Virginia DEP	State Program	3	210
TestAmerica Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.



CONESTOGA-ROVERS
& ASSOCIATES

CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

COC NO: PL-08204

PAGE 1 OF 1

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017303-102-0112		Laboratory Name: Test America		Lab Location: North Canton, OH		SSOW ID: 304-TOS-012	
Project Name: CVO		Lab Contact: Denise Hecker		Lab Quote No:		Cooler No:	
Project Location: Ypsilanti, MI		Chemistry Contact: Paul Wiseman		Carrier: FedEx		Airbill No:	
Sample(s): C-Bandy		Container Quantity & Preservation		Analysis Requested (See Back of COC for Definitions)		MS/MSD Request	
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)		SAMPLE TYPE		PRESERVATION		Date Shipped: 6/8/12	
Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd/yyyy)	TIME (hh:mm)	Matrix Code (see back of COC)	Grab (g) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)
1	WW-17303-060812-CB-001	6/8/12	850	WW	6	3	3
2	WW-17303-060812-CB-002	↓	1305	↓	↓	3	3
3	TB-17303-060812-CB-003	↓	---	---	---	1	1
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
TAT Required in business days (use separate COCs for different TATs):		RECEIVED BY		DATE		TIME	
1 Day ☒ 2 Days ☐ 3 Days ☐ 1 Week ☐ 2 Week ☐ Other: ☐		C-Bandy		6/8/12		1400	
Notes/ Special Requirements: BATCH COMPLETE *24-hr TAT *		COMPANY		DATE		TIME	
		CRA		6/9/12		0930	

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE - Fully Executed Copy (CRA) YELLOW - Receiving Laboratory Copy PINK - Shipper GOLDENROD - Sampling Crew

CRA Form: COC-10A (20110804)

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

TestAmerica North Canton Sample Receipt Form/Narrative

Login # : 12142

Client CRA Site Name QVO By: [Signature]
Cooler Received on 6/9/12 Opened on 6/9/12 (Signature)
FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____
TestAmerica Cooler # 241-2068 Foam Box Client Cooler Box Other _____
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# 1 (CF 0°C) Observed Sample Temp. 4.4 °C Corrected Sample Temp. 4.4 °C
IR GUN# 4G (CF -1°C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C
IR GUN# 5G (CF -1°C) Observed Sample Temp. _____ °C Corrected Sample Temp. _____ °C

Multiple
on Back

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No
-Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
-Were custody seals on the bottle(s)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Did all bottles arrive in good condition (Unbroken)? Yes No
7. Could all bottle labels be reconciled with the COC? Yes No
8. Were correct bottle(s) used for the test(s) indicated? Yes No
9. Sufficient quantity received to perform indicated analyses? Yes No
10. Were sample(s) at the correct pH upon receipt? Yes No NA
11. Were VOAs on the COC? Yes No
12. Were air bubbles >6 mm in any VOA vials? Yes No NA
13. Was a trip blank present in the cooler(s)? Yes No

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

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 240-12142-1

Login Number: 12142

List Source: TestAmerica Canton

List Number: 1

Creator: Maddux, Ann

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ATTACHMENT C

RE-SAMPLING RESULTS - PARAMETER EXCEEDANCE
NOTICE OF VIOLATION

ATTACHMENT C
RE-SAMPLING RESULTS - PARAMETER EXCEEDANCE
NOTICE OF VIOLATION
REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST

<i>Sample Location:</i>	<i>Pre-Sodium Permanganate ¹</i>	<i>Post-Sodium Permanganate ¹</i>
<i>Sample ID:</i>	<i>treatment Sample</i>	<i>treatment Sample</i>
<i>Sample Date:</i>	WW-17303-060812-CB-001	WW-17303-060812-CB-002
	06/08/2012	06/08/2012

<i>Parameters</i>	<i>Units</i>		
VOCs			
1,1,1-Trichloroethane	ug/L	420 U	2.5 U
1,1,2,2-Tetrachloroethane	ug/L	420 U	2.5 U
1,1,2-Trichloroethane	ug/L	420 U	11
1,1-Dichloroethane	ug/L	420 U	2.5 U
1,1-Dichloroethene	ug/L	420 U	2.5 U
1,2,4-Trichlorobenzene	ug/L	420 U	2.5 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	420 U	2.5 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	420 U	2.5 U
1,2-Dichlorobenzene	ug/L	420 U	2.5 U
1,2-Dichloroethane	ug/L	420 U	9.4
1,2-Dichloropropane	ug/L	420 U	2.5 U
1,3-Dichlorobenzene	ug/L	420 U	0.79 J
1,4-Dichlorobenzene	ug/L	420 U	3.1
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	4200 U	4.2 J
2-Hexanone	ug/L	4200 U	25 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	4200 U	4.7 J
Acetone	ug/L	4200 U	67 B
Benzene	ug/L	420 U	26
Bromodichloromethane	ug/L	420 U	2.5 U
Bromoform	ug/L	420 U	2.5 U
Bromomethane (Methyl bromide)	ug/L	420 U	2.5 U
Carbon disulfide	ug/L	2100 U	13 U
Carbon tetrachloride	ug/L	420 U	2.5 U
Chlorobenzene	ug/L	420 U	0.46 J
Chloroethane	ug/L	420 U	2.5 U
Chloroform (Trichloromethane)	ug/L	420 U	2.5 U
Chloromethane (Methyl chloride)	ug/L	420 U	2.5 U
cis-1,2-Dichloroethene	ug/L	15000	2.5 U
cis-1,3-Dichloropropene	ug/L	420 U	2.5 U
Cyclohexane	ug/L	420 U	0.87 J
Dibromochloromethane	ug/L	420 U	2.5 U
Dichlorodifluoromethane (CFC-12)	ug/L	420 U	2.5 U
Ethylbenzene	ug/L	420 U	2.5 U
Isopropyl benzene	ug/L	420 U	2.5 U
Methyl acetate	ug/L	4200 U	25 U
Methyl cyclohexane	ug/L	420 U	2.5 U
Methyl tert butyl ether (MTBE)	ug/L	2100 U	13 U
Methylene chloride	ug/L	2100 U	13 U
Styrene	ug/L	420 U	2.5 U
Tetrachloroethene	ug/L	420 U	2.5 U
Toluene	ug/L	420 U	6.6
trans-1,2-Dichloroethene	ug/L	420 U	2.5 U
trans-1,3-Dichloropropene	ug/L	420 U	2.5 U
Trichloroethene	ug/L	420 U	2.5 U
Trichlorofluoromethane (CFC-11)	ug/L	420 U	2.5 U
Trifluorotrichloroethane (Freon 113)	ug/L	420 U	2.5 U
Vinyl chloride	ug/L	5500	2.5 U
Xylenes (total)	ug/L	830 U	5.0 U

Notes:

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The associated value is qualified as an estimated quantity.

¹ No discharge occurred following the chemical treatment on 06/08/2012.