

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Edison

777 New Durham Road

Edison, NJ 08817

Tel: (732)549-3900

TestAmerica Job ID: 460-33425-1

Client Project/Site: FORMER GM

For:

Conestoga-Rovers & Associates, Inc.

2055 Niagara Falls Blvd., Suite 3

Niagara Falls, New York 14304

Attn: Ms. Sue Scrocchi



Authorized for release by:

11/28/2011 9:10:41 AM

Brian Tortorete

Project Manager II

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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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Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: FORMER GM

TestAmerica Job ID: 460-33425-1

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.

Metals

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.

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
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)

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: FORMER GM

TestAmerica Job ID: 460-33425-1

Job ID: 460-33425-1

Laboratory: TestAmerica Edison

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: FORMER GM

Report Number: 460-33425-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

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.

RECEIPT

The samples were received on 11/08/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.1 C.

The container labels list_GW-17338-110711-MW32-18...COC list ID as GW-17338-110711-MW32-19

COC list Sample 4 GW-17338-110711-MW32-18 bottles (2) sent...Actual bottles sent (4)

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DISSOLVED METALS

Samples 460-33425-1 and 460-33425-2 were analyzed for Dissolved metals in accordance with EPA SW-846 Method 6010B. The samples were prepared and analyzed on 11/15/2011.

No difficulties were encountered during the dissolved metals analyses.

All quality control parameters were within the acceptance limits.

TOTAL METALS

Samples 460-33425-1 and 460-33425-2 were analyzed for total metals in accordance with EPA SW-846 Method 6010B. The samples were prepared and analyzed on 11/10/2011.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

CHLORINATED PESTICIDES

Sample 460-33425-4 was analyzed for chlorinated pesticides in accordance with EPA SW-846 Method 8081A. The samples were

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: FORMER GM

TestAmerica Job ID: 460-33425-1

Job ID: 460-33425-1 (Continued)

Laboratory: TestAmerica Edison (Continued)

prepared on 11/09/2011 and analyzed on 11/10/2011.

No difficulties were encountered during the pesticides analysis.

All quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Sample 460-33425-4 was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 11/10/2011 and analyzed on 11/11/2011.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples 460-33425-3 and 460-33425-5 were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 11/11/2011.

No difficulties were encountered during the volatiles analyses.

All quality control parameters were within the acceptance limits.

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: FORMER GM

TestAmerica Job ID: 460-33425-1

Client Sample ID: GW-17338-110311-MW110-16

Date Collected: 11/03/11 09:15

Date Received: 11/08/11 18:55

Lab Sample ID: 460-33425-1

Matrix: Water

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.0	U	5.0	2.8	ug/L		11/10/11 08:21	11/10/11 19:53	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.1	J	5.0	2.8	ug/L		11/15/11 12:26	11/15/11 19:13	1

Client Sample ID: GW-17338-110311-MW15-17

Date Collected: 11/03/11 10:30

Date Received: 11/08/11 18:55

Lab Sample ID: 460-33425-2

Matrix: Water

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.0	U	5.0	2.8	ug/L		11/10/11 08:21	11/10/11 19:59	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.2	J	5.0	2.8	ug/L		11/15/11 12:26	11/15/11 19:17	1

Client Sample ID: GW-17338-110711-MW11-18

Date Collected: 11/07/11 13:30

Date Received: 11/08/11 18:55

Lab Sample ID: 460-33425-3

Matrix: Water

Method: 8260B - Volatile Organics (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	4.4		1.0	0.090	ug/L			11/11/11 04:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 122		11/11/11 04:14	1
4-Bromofluorobenzene	88		69 - 135		11/11/11 04:14	1
Toluene-d8 (Surr)	94		69 - 125		11/11/11 04:14	1

Client Sample ID: GW-17338-110711-MW32-19

Date Collected: 11/07/11 14:45

Date Received: 11/08/11 18:55

Lab Sample ID: 460-33425-4

Matrix: Water

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	0.051	U	0.051	0.010	ug/L		11/09/11 08:11	11/10/11 08:38	1
beta-BHC	0.051	U	0.051	0.011	ug/L		11/09/11 08:11	11/10/11 08:38	1
delta-BHC	0.051	U	0.051	0.0092	ug/L		11/09/11 08:11	11/10/11 08:38	1
gamma-BHC (Lindane)	0.051	U	0.051	0.012	ug/L		11/09/11 08:11	11/10/11 08:38	1
Heptachlor	0.051	U	0.051	0.010	ug/L		11/09/11 08:11	11/10/11 08:38	1
Aldrin	0.051	U	0.051	0.010	ug/L		11/09/11 08:11	11/10/11 08:38	1
Heptachlor epoxide	0.051	U	0.051	0.010	ug/L		11/09/11 08:11	11/10/11 08:38	1
Endosulfan I	0.051	U	0.051	0.0092	ug/L		11/09/11 08:11	11/10/11 08:38	1
Dieldrin	0.051	U	0.051	0.0051	ug/L		11/09/11 08:11	11/10/11 08:38	1
4,4'-DDE	0.051	U	0.051	0.0092	ug/L		11/09/11 08:11	11/10/11 08:38	1
Endrin	0.051	U	0.051	0.010	ug/L		11/09/11 08:11	11/10/11 08:38	1
Endosulfan II	0.051	U	0.051	0.010	ug/L		11/09/11 08:11	11/10/11 08:38	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: FORMER GM

TestAmerica Job ID: 460-33425-1

Client Sample ID: GW-17338-110711-MW32-19

Lab Sample ID: 460-33425-4

Date Collected: 11/07/11 14:45

Matrix: Water

Date Received: 11/08/11 18:55

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.051	U	0.051	0.011	ug/L		11/09/11 08:11	11/10/11 08:38	1
Endosulfan sulfate	0.051	U	0.051	0.016	ug/L		11/09/11 08:11	11/10/11 08:38	1
4,4'-DDT	0.051	U	0.051	0.010	ug/L		11/09/11 08:11	11/10/11 08:38	1
Methoxychlor	0.051	U	0.051	0.013	ug/L		11/09/11 08:11	11/10/11 08:38	1
Endrin ketone	0.051	U	0.051	0.011	ug/L		11/09/11 08:11	11/10/11 08:38	1
Endrin aldehyde	0.051	U	0.051	0.0092	ug/L		11/09/11 08:11	11/10/11 08:38	1
alpha-Chlordane	0.051	U	0.051	0.0082	ug/L		11/09/11 08:11	11/10/11 08:38	1
gamma-Chlordane	0.051	U	0.051	0.0092	ug/L		11/09/11 08:11	11/10/11 08:38	1
Toxaphene	0.51	U	0.51	0.20	ug/L		11/09/11 08:11	11/10/11 08:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	85		37 - 144	11/09/11 08:11	11/10/11 08:38	1
DCB Decachlorobiphenyl	85		37 - 144	11/09/11 08:11	11/10/11 08:38	1
Tetrachloro-m-xylene	73		49 - 132	11/09/11 08:11	11/10/11 08:38	1
Tetrachloro-m-xylene	73		49 - 132	11/09/11 08:11	11/10/11 08:38	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.53	U	0.53	0.14	ug/L		11/10/11 16:58	11/11/11 11:54	1
PCB-1221	0.53	U	0.53	0.29	ug/L		11/10/11 16:58	11/11/11 11:54	1
PCB-1232	0.53	U	0.53	0.13	ug/L		11/10/11 16:58	11/11/11 11:54	1
PCB-1242	0.53	U	0.53	0.13	ug/L		11/10/11 16:58	11/11/11 11:54	1
PCB-1248	0.53	U	0.53	0.25	ug/L		11/10/11 16:58	11/11/11 11:54	1
PCB-1254	0.53	U	0.53	0.18	ug/L		11/10/11 16:58	11/11/11 11:54	1
PCB-1260	0.53	U	0.53	0.16	ug/L		11/10/11 16:58	11/11/11 11:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	94		37 - 150	11/10/11 16:58	11/11/11 11:54	1
DCB Decachlorobiphenyl	99		37 - 150	11/10/11 16:58	11/11/11 11:54	1

Client Sample ID: TB-17338-110711-20

Lab Sample ID: 460-33425-5

Date Collected: 11/07/11 00:00

Matrix: Water

Date Received: 11/08/11 18:55

Method: 8260B - Volatile Organics (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.090	ug/L			11/11/11 03:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 122		11/11/11 03:46	1
4-Bromofluorobenzene	92		69 - 135		11/11/11 03:46	1
Toluene-d8 (Surr)	97		69 - 125		11/11/11 03:46	1

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: FORMER GM

TestAmerica Job ID: 460-33425-1

Client Sample ID: GW-17338-110311-MW110-16

Lab Sample ID: 460-33425-1

Date Collected: 11/03/11 09:15

Matrix: Water

Date Received: 11/08/11 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			92469	11/10/11 08:21	QY	TAL EDI
Total/NA	Analysis	6010B		1	92577	11/10/11 19:53	CDC	TAL EDI
Dissolved	Prep	3010A			93022	11/15/11 12:26	QY	TAL EDI
Dissolved	Analysis	6010B		1	93117	11/15/11 19:13	CDC	TAL EDI

Client Sample ID: GW-17338-110311-MW15-17

Lab Sample ID: 460-33425-2

Date Collected: 11/03/11 10:30

Matrix: Water

Date Received: 11/08/11 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			92469	11/10/11 08:21	QY	TAL EDI
Total/NA	Analysis	6010B		1	92577	11/10/11 19:59	CDC	TAL EDI
Dissolved	Prep	3010A			93022	11/15/11 12:26	QY	TAL EDI
Dissolved	Analysis	6010B		1	93117	11/15/11 19:17	CDC	TAL EDI

Client Sample ID: GW-17338-110711-MW11-18

Lab Sample ID: 460-33425-3

Date Collected: 11/07/11 13:30

Matrix: Water

Date Received: 11/08/11 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	92617	11/11/11 04:14	EM	TAL EDI

Client Sample ID: GW-17338-110711-MW32-19

Lab Sample ID: 460-33425-4

Date Collected: 11/07/11 14:45

Matrix: Water

Date Received: 11/08/11 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			92600	11/10/11 16:58	JS	TAL EDI
Total/NA	Analysis	8082		1	92737	11/11/11 11:54	SD	TAL EDI
Total/NA	Prep	3510C			92331	11/09/11 08:11	HW	TAL EDI
Total/NA	Analysis	8081A		1	92843	11/10/11 08:38	FM	TAL EDI

Client Sample ID: TB-17338-110711-20

Lab Sample ID: 460-33425-5

Date Collected: 11/07/11 00:00

Matrix: Water

Date Received: 11/08/11 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	92617	11/11/11 03:46	EM	TAL EDI

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: FORMER GM

TestAmerica Job ID: 460-33425-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Edison	Connecticut	State Program	1	PH-0200
TestAmerica Edison	Delaware	Delaware DNREC	3	N/A
TestAmerica Edison	New Jersey	NELAC	2	12028
TestAmerica Edison	New York	NELAC	2	11452
TestAmerica Edison	Pennsylvania	NELAC	3	68-00522
TestAmerica Edison	Rhode Island	State Program	1	LAO00132
TestAmerica Edison	USDA	USDA		NJCA-003-08

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.

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: FORMER GM

TestAmerica Job ID: 460-33425-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organics (GC/MS)	SW846	TAL EDI
8081A	Organochlorine Pesticides (GC)	SW846	TAL EDI
8082	Polychlorinated Biphenyls (PCBs) (GC)	SW846	TAL EDI
6010B	Metals (ICP)	SW846	TAL EDI

Protocol References:

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

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: FORMER GM

TestAmerica Job ID: 460-33425-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-33425-1	GW-17338-110311-MW110-16	Water	11/03/11 09:15	11/08/11 18:55
460-33425-2	GW-17338-110311-MW15-17	Water	11/03/11 10:30	11/08/11 18:55
460-33425-3	GW-17338-110711-MW11-18	Water	11/07/11 13:30	11/08/11 18:55
460-33425-4	GW-17338-110711-MW32-19	Water	11/07/11 14:45	11/08/11 18:55
460-33425-5	TB-17338-110711-20	Water	11/07/11 00:00	11/08/11 18:55

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

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Name (for report and invoice) Chavis BOUTON		Samples Name (Printed) M. Myler		Site/Project Identification Penners GMA	
Company CMA		P.O. # 17338		State (Location of site): NJ: ☐ NY: ☐ Other: DE	
Address		Analysis Turnaround Time Standard ☒ Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐		Regulatory Program: DMREC	
City Buffalo	State NY				
Phone 716-656-2142	Fax				
Sample Identification	Date	Time	Matrix	No. of Cont.	ANALYSIS REQUESTED (ENTER X BELOW TO INDICATE REQUEST)
CU-17338-11031-MW10-16	11/03/11	0915	1000	2	TOTAL LEAD ☒
CU-17338-11031-MW15-17	11/03/11	1030		2	DISSOLVED LEAD ☒
CU-17338-110711-MW11-18	11/07/11	1330		3	TOLUENE ☒
CU-17338-110711-MW32-19	11/07/11	1445		2	PCB ☒
B-17338-110711-20				3	PESTICIDE ☒
					LAB USE ONLY
					Job No: 33425
					Project No:
					Sample Numbers
					1
					2
					3
					4
					5

Preservation Used: 1 = ICE, 2 = HCl, 3 = H₂SO₄, 4 = HNO₃, 5 = NaOH
6 = Other _____, 7 = Other _____

Soil: _____
Water: _____

Special Instructions

Water Metals Filtered (Yes/No)?

Relinquished by Mark Lytle	Company CEA	Date / Time 11/8/11	Received by Frank	Company T.A. Mch 10:00
Relinquished by Mark Lytle	Company TA	Date / Time 11/8/11 1900	Received by Mark	Company TA 11/8/11
Relinquished by Mark Lytle	Company TA	Date / Time 11/8/11 1855	Received by Mark	Company TA
Relinquished by Mark Lytle	Company	Date / Time	Received by	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Massachusetts (M-NJ312), North Carolina (No. 578)

TAL - 0016 (04/09)

Job No. 33425

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[illegible]

Initials:

N

Date:

11-8-11

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 460-33425-1

Login Number: 33425

List Source: TestAmerica Edison

List Number: 1

Creator: Smith, Anthony G

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.	N/A	not present
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	4.1 C IR# 50
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.	False	Sample 3 and Sample 4 bottles have the same ID GW-17338-110711-MW32-18...Sample
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.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.