

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

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North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-48067-2

Client Project/Site: CSXT Mt. Carbon WV


For:

EnviroScience Inc

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Stow, Ohio 44224

Attn: Mr. Joe Papineau



Authorized for release by:

3/12/2015 1:37:11 PM

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



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Definitions/Glossary

Client: EnviroScience Inc
Project/Site: CSXT Mt. Carbon WV

TestAmerica Job ID: 240-48067-2

Qualifiers

GC/MS 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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
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: EnviroScience Inc
Project/Site: CSXT Mt. Carbon WV

TestAmerica Job ID: 240-48067-2

Job ID: 240-48067-2

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: EnviroScience Inc

Project: CSXT Mt. Carbon WV

Report Number: 240-48067-2

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 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.

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

RECEIPT

The samples were received on 3/11/2015 7:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 1.3° C, 1.7° C, 2.7° C, 3.9° C and 4.3° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples WATER INTAKE-031115 (240-48067-1), WHEELER ISLAND-031115 (240-48067-2), DNS02-031115 (240-48067-3), DNS01-031115 (240-48067-4), REFERENCE-031115 (240-48067-5) and TRIP BLANKS (240-48067-6) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 03/12/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: EnviroScience Inc
Project/Site: CSXT Mt. Carbon WV

TestAmerica Job ID: 240-48067-2

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: EnviroScience Inc
Project/Site: CSXT Mt. Carbon WV

TestAmerica Job ID: 240-48067-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-48067-1	WATER INTAKE-031115	Water	03/11/15 12:20	03/11/15 19:00
240-48067-2	WHEELER ISLAND-031115	Water	03/11/15 12:38	03/11/15 19:00
240-48067-3	DNS02-031115	Water	03/11/15 12:49	03/11/15 19:00
240-48067-4	DNS01-031115	Water	03/11/15 12:58	03/11/15 19:00
240-48067-5	REFERENCE-031115	Water	03/11/15 13:17	03/11/15 19:00
240-48067-6	TRIP BLANKS	Water	03/11/15 00:00	03/11/15 19:00

Detection Summary

Client: EnviroScience Inc
Project/Site: CSXT Mt. Carbon WV

TestAmerica Job ID: 240-48067-2

Client Sample ID: WATER INTAKE-031115

Lab Sample ID: 240-48067-1

No Detections.

Client Sample ID: WHEELER ISLAND-031115

Lab Sample ID: 240-48067-2

No Detections.

Client Sample ID: DNS02-031115

Lab Sample ID: 240-48067-3

No Detections.

Client Sample ID: DNS01-031115

Lab Sample ID: 240-48067-4

No Detections.

Client Sample ID: REFERENCE-031115

Lab Sample ID: 240-48067-5

No Detections.

Client Sample ID: TRIP BLANKS

Lab Sample ID: 240-48067-6

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: EnviroScience Inc
Project/Site: CSXT Mt. Carbon WV

TestAmerica Job ID: 240-48067-2

Client Sample ID: WATER INTAKE-031115

Lab Sample ID: 240-48067-1

Date Collected: 03/11/15 12:20

Matrix: Water

Date Received: 03/11/15 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.24	ug/L			03/12/15 10:27	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			03/12/15 10:27	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			03/12/15 10:27	1
Toluene	1.0	U	1.0	0.22	ug/L			03/12/15 10:27	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			03/12/15 10:27	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			03/12/15 10:27	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			03/12/15 10:27	1
Xylenes, Total	3.0	U	3.0	0.43	ug/L			03/12/15 10:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		66 - 120					03/12/15 10:27	1
Dibromofluoromethane (Surr)	109		75 - 121					03/12/15 10:27	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 129					03/12/15 10:27	1
Toluene-d8 (Surr)	95		74 - 120					03/12/15 10:27	1

TestAmerica Canton

Client Sample Results

Client: EnviroScience Inc
Project/Site: CSXT Mt. Carbon WV

TestAmerica Job ID: 240-48067-2

Client Sample ID: WHEELER ISLAND-031115

Lab Sample ID: 240-48067-2

Date Collected: 03/11/15 12:38

Matrix: Water

Date Received: 03/11/15 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.24	ug/L			03/12/15 10:49	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			03/12/15 10:49	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			03/12/15 10:49	1
Toluene	1.0	U	1.0	0.22	ug/L			03/12/15 10:49	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			03/12/15 10:49	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			03/12/15 10:49	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			03/12/15 10:49	1
Xylenes, Total	3.0	U	3.0	0.43	ug/L			03/12/15 10:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		66 - 120					03/12/15 10:49	1
Dibromofluoromethane (Surr)	109		75 - 121					03/12/15 10:49	1
1,2-Dichloroethane-d4 (Surr)	97		63 - 129					03/12/15 10:49	1
Toluene-d8 (Surr)	96		74 - 120					03/12/15 10:49	1

TestAmerica Canton

Client Sample Results

Client: EnviroScience Inc
Project/Site: CSXT Mt. Carbon WV

TestAmerica Job ID: 240-48067-2

Client Sample ID: DNS02-031115

Lab Sample ID: 240-48067-3

Date Collected: 03/11/15 12:49

Matrix: Water

Date Received: 03/11/15 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.24	ug/L			03/12/15 11:12	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			03/12/15 11:12	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			03/12/15 11:12	1
Toluene	1.0	U	1.0	0.22	ug/L			03/12/15 11:12	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			03/12/15 11:12	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			03/12/15 11:12	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			03/12/15 11:12	1
Xylenes, Total	3.0	U	3.0	0.43	ug/L			03/12/15 11:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		66 - 120		03/12/15 11:12	1
Dibromofluoromethane (Surr)	106		75 - 121		03/12/15 11:12	1
1,2-Dichloroethane-d4 (Surr)	99		63 - 129		03/12/15 11:12	1
Toluene-d8 (Surr)	96		74 - 120		03/12/15 11:12	1

TestAmerica Canton

Client Sample Results

Client: EnviroScience Inc
Project/Site: CSXT Mt. Carbon WV

TestAmerica Job ID: 240-48067-2

Client Sample ID: DNS01-031115

Lab Sample ID: 240-48067-4

Date Collected: 03/11/15 12:58

Matrix: Water

Date Received: 03/11/15 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.24	ug/L			03/12/15 11:34	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			03/12/15 11:34	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			03/12/15 11:34	1
Toluene	1.0	U	1.0	0.22	ug/L			03/12/15 11:34	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			03/12/15 11:34	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			03/12/15 11:34	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			03/12/15 11:34	1
Xylenes, Total	3.0	U	3.0	0.43	ug/L			03/12/15 11:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		66 - 120		03/12/15 11:34	1
Dibromofluoromethane (Surr)	108		75 - 121		03/12/15 11:34	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 129		03/12/15 11:34	1
Toluene-d8 (Surr)	95		74 - 120		03/12/15 11:34	1

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Client Sample Results

Client: EnviroScience Inc
Project/Site: CSXT Mt. Carbon WV

TestAmerica Job ID: 240-48067-2

Client Sample ID: REFERENCE-031115

Lab Sample ID: 240-48067-5

Date Collected: 03/11/15 13:17

Matrix: Water

Date Received: 03/11/15 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.24	ug/L			03/12/15 11:08	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			03/12/15 11:08	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			03/12/15 11:08	1
Toluene	1.0	U	1.0	0.22	ug/L			03/12/15 11:08	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			03/12/15 11:08	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			03/12/15 11:08	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			03/12/15 11:08	1
Xylenes, Total	3.0	U	3.0	0.43	ug/L			03/12/15 11:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		66 - 120		03/12/15 11:08	1
Dibromofluoromethane (Surr)	92		75 - 121		03/12/15 11:08	1
1,2-Dichloroethane-d4 (Surr)	102		63 - 129		03/12/15 11:08	1
Toluene-d8 (Surr)	91		74 - 120		03/12/15 11:08	1

TestAmerica Canton

Client Sample Results

Client: EnviroScience Inc
Project/Site: CSXT Mt. Carbon WV

TestAmerica Job ID: 240-48067-2

Client Sample ID: TRIP BLANKS

Lab Sample ID: 240-48067-6

Date Collected: 03/11/15 00:00

Matrix: Water

Date Received: 03/11/15 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.24	ug/L			03/12/15 11:31	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			03/12/15 11:31	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			03/12/15 11:31	1
Toluene	1.0	U	1.0	0.22	ug/L			03/12/15 11:31	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			03/12/15 11:31	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			03/12/15 11:31	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			03/12/15 11:31	1
Xylenes, Total	3.0	U	3.0	0.43	ug/L			03/12/15 11:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		66 - 120		03/12/15 11:31	1
Dibromofluoromethane (Surr)	91		75 - 121		03/12/15 11:31	1
1,2-Dichloroethane-d4 (Surr)	102		63 - 129		03/12/15 11:31	1
Toluene-d8 (Surr)	89		74 - 120		03/12/15 11:31	1

TestAmerica Canton

Surrogate Summary

Client: EnviroScience Inc
Project/Site: CSXT Mt. Carbon WV

TestAmerica Job ID: 240-48067-2

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (66-120)	DBFM (75-121)	12DCE (63-129)	TOL (74-120)
240-48067-1	WATER INTAKE-031115	94	109	103	95
240-48067-2	WHEELER ISLAND-031115	100	109	97	96
240-48067-3	DNS02-031115	95	106	99	96
240-48067-4	DNS01-031115	99	108	101	95
240-48067-5	REFERENCE-031115	99	92	102	91
240-48067-6	TRIP BLANKS	100	91	102	89
LCS 240-171733/4	Lab Control Sample	100	108	98	98
LCS 240-171748/4	Lab Control Sample	117	106	105	100
MB 240-171733/6	Method Blank	96	108	99	95
MB 240-171748/5	Method Blank	99	91	100	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

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

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: EnviroScience Inc
Project/Site: CSXT Mt. Carbon WV

TestAmerica Job ID: 240-48067-2

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

Lab Sample ID: MB 240-171733/6

Matrix: Water

Analysis Batch: 171733

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	0.24	ug/L			03/12/15 10:05	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			03/12/15 10:05	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			03/12/15 10:05	1
Toluene	1.0	U	1.0	0.22	ug/L			03/12/15 10:05	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			03/12/15 10:05	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			03/12/15 10:05	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			03/12/15 10:05	1
Xylenes, Total	3.0	U	3.0	0.43	ug/L			03/12/15 10:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		66 - 120		03/12/15 10:05	1
Dibromofluoromethane (Surr)	108		75 - 121		03/12/15 10:05	1
1,2-Dichloroethane-d4 (Surr)	99		63 - 129		03/12/15 10:05	1
Toluene-d8 (Surr)	95		74 - 120		03/12/15 10:05	1

Lab Sample ID: LCS 240-171733/4

Matrix: Water

Analysis Batch: 171733

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	10.0	11.2		ug/L		112	80 - 120
Ethylbenzene	10.0	10.0		ug/L		100	80 - 120
Isopropylbenzene	10.0	9.88		ug/L		99	75 - 120
m-Xylene & p-Xylene	10.0	10.1		ug/L		101	80 - 120
o-Xylene	10.0	10.3		ug/L		103	80 - 120
Toluene	10.0	10.1		ug/L		101	80 - 120
1,2,4-Trimethylbenzene	10.0	9.56		ug/L		96	76 - 120
1,3,5-Trimethylbenzene	10.0	9.70		ug/L		97	72 - 120
Xylenes, Total	20.0	20.4		ug/L		102	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		66 - 120
Dibromofluoromethane (Surr)	108		75 - 121
1,2-Dichloroethane-d4 (Surr)	98		63 - 129
Toluene-d8 (Surr)	98		74 - 120

Lab Sample ID: MB 240-171748/5

Matrix: Water

Analysis Batch: 171748

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	0.24	ug/L			03/12/15 10:46	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			03/12/15 10:46	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			03/12/15 10:46	1
Toluene	1.0	U	1.0	0.22	ug/L			03/12/15 10:46	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			03/12/15 10:46	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			03/12/15 10:46	1

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QC Sample Results

Client: EnviroScience Inc
Project/Site: CSXT Mt. Carbon WV

TestAmerica Job ID: 240-48067-2

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

Lab Sample ID: MB 240-171748/5

Matrix: Water

Analysis Batch: 171748

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			03/12/15 10:46	1
Xylenes, Total	3.0	U	3.0	0.43	ug/L			03/12/15 10:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		66 - 120		03/12/15 10:46	1
Dibromofluoromethane (Surr)	91		75 - 121		03/12/15 10:46	1
1,2-Dichloroethane-d4 (Surr)	100		63 - 129		03/12/15 10:46	1
Toluene-d8 (Surr)	91		74 - 120		03/12/15 10:46	1

Lab Sample ID: LCS 240-171748/4

Matrix: Water

Analysis Batch: 171748

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	10.0	10.7		ug/L		107	80 - 120
Ethylbenzene	10.0	10.2		ug/L		102	80 - 120
Isopropylbenzene	10.0	10.2		ug/L		102	75 - 120
m-Xylene & p-Xylene	10.0	10.2		ug/L		102	80 - 120
o-Xylene	10.0	10.1		ug/L		101	80 - 120
Toluene	10.0	9.92		ug/L		99	80 - 120
1,2,4-Trimethylbenzene	10.0	9.14		ug/L		91	76 - 120
1,3,5-Trimethylbenzene	10.0	9.17		ug/L		92	72 - 120
Xylenes, Total	20.0	20.3		ug/L		102	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		66 - 120
Dibromofluoromethane (Surr)	106		75 - 121
1,2-Dichloroethane-d4 (Surr)	105		63 - 129
Toluene-d8 (Surr)	100		74 - 120

TestAmerica Canton

QC Association Summary

Client: EnviroScience Inc
Project/Site: CSXT Mt. Carbon WV

TestAmerica Job ID: 240-48067-2

GC/MS VOA

Analysis Batch: 171733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48067-1	WATER INTAKE-031115	Total/NA	Water	8260B	
240-48067-2	WHEELER ISLAND-031115	Total/NA	Water	8260B	
240-48067-3	DNS02-031115	Total/NA	Water	8260B	
240-48067-4	DNS01-031115	Total/NA	Water	8260B	
LCS 240-171733/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-171733/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 171748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48067-5	REFERENCE-031115	Total/NA	Water	8260B	
240-48067-6	TRIP BLANKS	Total/NA	Water	8260B	
LCS 240-171748/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-171748/5	Method Blank	Total/NA	Water	8260B	

Lab Chronicle

Client: EnviroScience Inc
Project/Site: CSXT Mt. Carbon WV

TestAmerica Job ID: 240-48067-2

Client Sample ID: WATER INTAKE-031115

Lab Sample ID: 240-48067-1

Date Collected: 03/11/15 12:20

Matrix: Water

Date Received: 03/11/15 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	171733	03/12/15 10:27	RJQ	TAL CAN

Client Sample ID: WHEELER ISLAND-031115

Lab Sample ID: 240-48067-2

Date Collected: 03/11/15 12:38

Matrix: Water

Date Received: 03/11/15 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	171733	03/12/15 10:49	RJQ	TAL CAN

Client Sample ID: DNS02-031115

Lab Sample ID: 240-48067-3

Date Collected: 03/11/15 12:49

Matrix: Water

Date Received: 03/11/15 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	171733	03/12/15 11:12	RJQ	TAL CAN

Client Sample ID: DNS01-031115

Lab Sample ID: 240-48067-4

Date Collected: 03/11/15 12:58

Matrix: Water

Date Received: 03/11/15 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	171733	03/12/15 11:34	RJQ	TAL CAN

Client Sample ID: REFERENCE-031115

Lab Sample ID: 240-48067-5

Date Collected: 03/11/15 13:17

Matrix: Water

Date Received: 03/11/15 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	171748	03/12/15 11:08	LEE	TAL CAN

Client Sample ID: TRIP BLANKS

Lab Sample ID: 240-48067-6

Date Collected: 03/11/15 00:00

Matrix: Water

Date Received: 03/11/15 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	171748	03/12/15 11:31	LEE	TAL CAN

Laboratory References:

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

TestAmerica Canton

Certification Summary

Client: EnviroScience Inc
Project/Site: CSXT Mt. Carbon WV

TestAmerica Job ID: 240-48067-2

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-15 *
Connecticut	State Program	1	PH-0590	12-31-15
Florida	NELAP	4	E87225	06-30-15
Georgia	State Program	4	N/A	06-30-15
Illinois	NELAP	5	200004	07-31-15
Kansas	NELAP	7	E-10336	03-31-15 *
Kentucky (UST)	State Program	4	58	06-30-15
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-15
New Jersey	NELAP	2	OH001	06-30-15
New York	NELAP	2	10975	03-31-15 *
Ohio VAP	State Program	5	CL0024	10-31-15
Pennsylvania	NELAP	3	68-00340	08-31-15
Texas	NELAP	6		08-31-15
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-15
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-15

* Certification renewal pending - certification considered valid.

TestAmerica Canton

**CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS**



240-48067 Chain of Custody



CHAIN OF CUSTODY

TRANSPORTATION

LABORATORY INFORMATION

☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404 P: 912-354-7858 F: 912-352-0165
☒ TestAmerica North Canton - 4101 Shuffel Drive NW, North Canton, OH 44720 P: 330-497-3396 F: 330-497-0772
☐ TestAmerica Tampa - 6712 Benjamin Road, Suite 100, Tampa, FL 33634 P: 813-885-7427 F: 813-885-7049
☐ TestAmerica Pensacola - 3355 McLamore Drive, Pensacola, FL 32514 P: 850-474-1001 F: 850-478-2671
☐ TestAmerica Buffalo - 10 Hazelwood Drive, Suite 106, Amherst, NY 14228 P: 716-691-2600 F: 716-961-7891
☐ TestAmerica Chicago - 2417 Bond Street, University Park, IL 60466 P: 708-534-5200 F: 708-534-5211

COC

SHIPMENT INFORMATION

Shipment Method: COUPRIER
Shipment Tracking No: _____

CSXT PROJECT INFORMATION

CSXT Project Number: _____

CSXT Project Name: CSXT MT. CARBON, WV

CSXT Contact: _____

CONSULTANT INFORMATION

Proj. State (State of Origin) WV

Proj. City: MT. CARBON

Company: ENVIROSCIENCE INC.

Address: 5070 STOW RD.

City, State, Zip: STOW, OH, 44224

Phone: 330-266-5123

Fax: _____

PROJECT INFORMATION

Project #: 7197

PM: JOE PAPWEAU

Email: JPAPEAU@ENVIROSCIENCE.COM

Phone: 330-266-5123

Fax: _____

SAMPLE INFORMATION

Turnaround Time: ☐ Standard 6-13 Days

☒ 1 Day Rush Specify # Days _____

☐ 2 Day Rush ☐ Standard 14 Days

☐ 3 Day Rush ☐ Other _____

Deliverables: ☐ Other Deliv: _____

☐ CSXT Standard (Level II)

☐ Level III ☐ EDD Required, Format: _____

☐ Level IV

Matrix Codes: ☐ SO = Soil ☐ LIQ = Liquid

☐ GW = Groundwater ☐ SL = Sludge

☐ WW = Waste Water ☐ OI = Oil

☐ SW = Surface Water ☐ SOL = Other Solid

Preservative Codes: ☐ 3 = Sulfuric Acid

☐ 0 = No Preservatives ☐ 4 = Sodium Thiosulfate

☐ 1 = Hydrochloric Acid ☐ 5 = Sodium Hydroxide

☐ 2 = Nitric Acid ☐ 6 = Other

Note: Pres.

Code _____

Code _____

Code _____

Code _____

Code _____

Code _____

Code _____

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Code _____

Code _____

TestAmerica Canton Sample Receipt Form/Narrative Login # : 48067

Canton Facility:

Client CSX Site Name Mt. carbon Cooler unpacked by: Jesse Bonni

Cooler Received on 3/11/15 Opened on 3/11/15

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

Receipt After-hours: Drop-off Date/Time Storage Location

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# A (CF +4.0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN# 8 (CF -1.2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity each 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. Was/were the sampler(s) clearly identified on the COC? Yes No

7. Did all bottles arrive in good condition (Unbroken)? Yes No

8. Could all bottle labels be reconciled with the COC? Yes No

9. Were correct bottle(s) used for the test(s) indicated? Yes No

10. Sufficient quantity received to perform indicated analyses? Yes No

11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC425511

12. Were VOAs on the COC? Yes No

13. Were air bubbles >6 mm in any VOA vials? Yes No NA

14. Was a trip blank present in the cooler(s)? Trip Blank Lot # B434701VB Yes No

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

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: _____

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)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

[illegible]

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Preservative</u> <u>Added (mls)</u>	<u>Lot #</u>
WATER INTAKE-031115	240-48067-F-1	Plastic 250ml - with Sulfuric Acid	<2	_____	_____
WATER INTAKE-031115	240-48067-G-1	Plastic 250ml - with Nitric Acid	<2	_____	_____
WHEELER ISLAND-031115	240-48067-F-2	Plastic 250ml - with Sulfuric Acid	<2	_____	_____
WHEELER ISLAND-031115	240-48067-G-2	Plastic 250ml - with Nitric Acid	<2	_____	_____
DNS02-031115	240-48067-F-3	Plastic 250ml - with Sulfuric Acid	<2	_____	_____
DNS02-031115	240-48067-G-3	Plastic 250ml - with Nitric Acid	<2	_____	_____
DNS01-031115	240-48067-F-4	Plastic 250ml - with Sulfuric Acid	<2	_____	_____
DNS01-031115	240-48067-G-4	Plastic 250ml - with Nitric Acid	<2	_____	_____
REFERENCE-031115	240-48067-F-5	Plastic 250ml - with Sulfuric Acid	<2	_____	_____
REFERENCE-031115	240-48067-G-5	Plastic 250ml - with Nitric Acid	<2	_____	_____