

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: 240-47962-2

Client Project/Site: CSXT Mt. Carbon WV

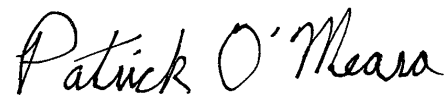
For:

EnviroScience Inc

5070 Stow Rd.

Stow, Ohio 44224

Attn: Mr. Joe Papineau



Authorized for release by:

3/11/2015 12:11:11 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: 240-47962-2

Qualifiers

GC/MS 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.
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: 240-47962-2

Job ID: 240-47962-2

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: EnviroScience Inc

Project: CSXT Mt. Carbon WV

Report Number: 240-47962-2

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 3/9/2015 7:02 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.7° C and 3.1° C.

Except: The following samples were submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): TRIP BLANK-030815 (240-47962-6) and TRIP BLANK-030915 (240-47962-5).

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Samples MONTGOMERY WTP-RAW030915AM (240-47962-1), MONTGOMERY WTP-FINISH030915AM (240-47962-2), MONTGOMERY WTP-RAW030815PM (240-47962-3) and MONTGOMERY WTP-FINISH030815PM (240-47962-4) were analyzed for semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8270D. The samples were prepared and analyzed on 03/10/2015.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 171360.

No additional 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: 240-47962-2

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile 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: 240-47962-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-47962-1	MONTGOMERY WTP-RAW030915AM	Water	03/09/15 09:00	03/09/15 19:02
240-47962-2	MONTGOMERY WTP-FINISH030915AM	Water	03/09/15 08:45	03/09/15 19:02
240-47962-3	MONTGOMERY WTP-RAW030815PM	Water	03/08/15 19:00	03/09/15 19:02
240-47962-4	MONTGOMERY WTP-FINISH030815PM	Water	03/08/15 19:15	03/09/15 19:02

Detection Summary

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

TestAmerica Job ID: 240-47962-2

Client Sample ID: MONTGOMERY WTP-RAW030915AM

Lab Sample ID: 240-47962-1

No Detections.

Client Sample ID: MONTGOMERY WTP-FINISH030915AM

Lab Sample ID: 240-47962-2

No Detections.

Client Sample ID: MONTGOMERY WTP-RAW030815PM

Lab Sample ID: 240-47962-3

No Detections.

Client Sample ID: MONTGOMERY WTP-FINISH030815PM

Lab Sample ID: 240-47962-4

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-47962-2

Client Sample ID: MONTGOMERY WTP-RAW030915AM

Lab Sample ID: 240-47962-1

Date Collected: 03/09/15 09:00

Matrix: Water

Date Received: 03/09/15 19:02

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.21	U	0.21	0.047	ug/L		03/10/15 06:00	03/10/15 15:48	1
Acenaphthylene	0.21	U	0.21	0.051	ug/L		03/10/15 06:00	03/10/15 15:48	1
Anthracene	0.21	U	0.21	0.093	ug/L		03/10/15 06:00	03/10/15 15:48	1
Benzo[a]anthracene	0.21	U	0.21	0.031	ug/L		03/10/15 06:00	03/10/15 15:48	1
Benzo[a]pyrene	0.21	U	0.21	0.054	ug/L		03/10/15 06:00	03/10/15 15:48	1
Benzo[b]fluoranthene	0.21	U	0.21	0.041	ug/L		03/10/15 06:00	03/10/15 15:48	1
Benzo[g,h,i]perylene	0.21	U	0.21	0.049	ug/L		03/10/15 06:00	03/10/15 15:48	1
Benzo[k]fluoranthene	0.21	U	0.21	0.047	ug/L		03/10/15 06:00	03/10/15 15:48	1
Chrysene	0.21	U	0.21	0.053	ug/L		03/10/15 06:00	03/10/15 15:48	1
Dibenz(a,h)anthracene	0.21	U	0.21	0.047	ug/L		03/10/15 06:00	03/10/15 15:48	1
Fluoranthene	0.21	U	0.21	0.047	ug/L		03/10/15 06:00	03/10/15 15:48	1
Fluorene	0.21	U	0.21	0.043	ug/L		03/10/15 06:00	03/10/15 15:48	1
Indeno[1,2,3-cd]pyrene	0.21	U	0.21	0.046	ug/L		03/10/15 06:00	03/10/15 15:48	1
Naphthalene	0.21	U	0.21	0.066	ug/L		03/10/15 06:00	03/10/15 15:48	1
Phenanthrene	0.21	U	0.21	0.065	ug/L		03/10/15 06:00	03/10/15 15:48	1
Pyrene	0.21	U	0.21	0.044	ug/L		03/10/15 06:00	03/10/15 15:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	76		29 - 110				03/10/15 06:00	03/10/15 15:48	1
Nitrobenzene-d5 (Surr)	76		31 - 110				03/10/15 06:00	03/10/15 15:48	1
Terphenyl-d14 (Surr)	67		31 - 115				03/10/15 06:00	03/10/15 15:48	1

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Client Sample Results

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

TestAmerica Job ID: 240-47962-2

Client Sample ID: MONTGOMERY WTP-FINISH030915AM

Lab Sample ID: 240-47962-2

Date Collected: 03/09/15 08:45

Matrix: Water

Date Received: 03/09/15 19:02

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.21	U	0.21	0.046	ug/L		03/10/15 06:00	03/10/15 15:24	1
Acenaphthylene	0.21	U	0.21	0.050	ug/L		03/10/15 06:00	03/10/15 15:24	1
Anthracene	0.21	U	0.21	0.091	ug/L		03/10/15 06:00	03/10/15 15:24	1
Benzo[a]anthracene	0.21	U	0.21	0.030	ug/L		03/10/15 06:00	03/10/15 15:24	1
Benzo[a]pyrene	0.21	U	0.21	0.053	ug/L		03/10/15 06:00	03/10/15 15:24	1
Benzo[b]fluoranthene	0.21	U	0.21	0.041	ug/L		03/10/15 06:00	03/10/15 15:24	1
Benzo[g,h,i]perylene	0.21	U	0.21	0.048	ug/L		03/10/15 06:00	03/10/15 15:24	1
Benzo[k]fluoranthene	0.21	U	0.21	0.046	ug/L		03/10/15 06:00	03/10/15 15:24	1
Chrysene	0.21	U	0.21	0.052	ug/L		03/10/15 06:00	03/10/15 15:24	1
Dibenz(a,h)anthracene	0.21	U	0.21	0.046	ug/L		03/10/15 06:00	03/10/15 15:24	1
Fluoranthene	0.21	U	0.21	0.046	ug/L		03/10/15 06:00	03/10/15 15:24	1
Fluorene	0.21	U	0.21	0.042	ug/L		03/10/15 06:00	03/10/15 15:24	1
Indeno[1,2,3-cd]pyrene	0.21	U	0.21	0.045	ug/L		03/10/15 06:00	03/10/15 15:24	1
Naphthalene	0.21	U	0.21	0.065	ug/L		03/10/15 06:00	03/10/15 15:24	1
Phenanthrene	0.21	U	0.21	0.064	ug/L		03/10/15 06:00	03/10/15 15:24	1
Pyrene	0.21	U	0.21	0.043	ug/L		03/10/15 06:00	03/10/15 15:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	76		29 - 110				03/10/15 06:00	03/10/15 15:24	1
Nitrobenzene-d5 (Surr)	75		31 - 110				03/10/15 06:00	03/10/15 15:24	1
Terphenyl-d14 (Surr)	72		31 - 115				03/10/15 06:00	03/10/15 15:24	1

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Client Sample Results

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

TestAmerica Job ID: 240-47962-2

Client Sample ID: MONTGOMERY WTP-RAW030815PM

Lab Sample ID: 240-47962-3

Date Collected: 03/08/15 19:00

Matrix: Water

Date Received: 03/09/15 19:02

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.045	ug/L		03/10/15 06:00	03/10/15 15:01	1
Acenaphthylene	0.20	U	0.20	0.049	ug/L		03/10/15 06:00	03/10/15 15:01	1
Anthracene	0.20	U	0.20	0.089	ug/L		03/10/15 06:00	03/10/15 15:01	1
Benzo[a]anthracene	0.20	U	0.20	0.030	ug/L		03/10/15 06:00	03/10/15 15:01	1
Benzo[a]pyrene	0.20	U	0.20	0.052	ug/L		03/10/15 06:00	03/10/15 15:01	1
Benzo[b]fluoranthene	0.20	U	0.20	0.040	ug/L		03/10/15 06:00	03/10/15 15:01	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.047	ug/L		03/10/15 06:00	03/10/15 15:01	1
Benzo[k]fluoranthene	0.20	U	0.20	0.045	ug/L		03/10/15 06:00	03/10/15 15:01	1
Chrysene	0.20	U	0.20	0.051	ug/L		03/10/15 06:00	03/10/15 15:01	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.045	ug/L		03/10/15 06:00	03/10/15 15:01	1
Fluoranthene	0.20	U	0.20	0.045	ug/L		03/10/15 06:00	03/10/15 15:01	1
Fluorene	0.20	U	0.20	0.041	ug/L		03/10/15 06:00	03/10/15 15:01	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.044	ug/L		03/10/15 06:00	03/10/15 15:01	1
Naphthalene	0.20	U	0.20	0.063	ug/L		03/10/15 06:00	03/10/15 15:01	1
Phenanthrene	0.20	U	0.20	0.063	ug/L		03/10/15 06:00	03/10/15 15:01	1
Pyrene	0.20	U	0.20	0.042	ug/L		03/10/15 06:00	03/10/15 15:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	80		29 - 110				03/10/15 06:00	03/10/15 15:01	1
Nitrobenzene-d5 (Surr)	74		31 - 110				03/10/15 06:00	03/10/15 15:01	1
Terphenyl-d14 (Surr)	71		31 - 115				03/10/15 06:00	03/10/15 15:01	1

TestAmerica Canton

Client Sample Results

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

TestAmerica Job ID: 240-47962-2

Client Sample ID: MONTGOMERY WTP-FINISH030815PM

Lab Sample ID: 240-47962-4

Date Collected: 03/08/15 19:15

Matrix: Water

Date Received: 03/09/15 19:02

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.044	ug/L		03/10/15 06:00	03/10/15 14:37	1
Acenaphthylene	0.20	U	0.20	0.048	ug/L		03/10/15 06:00	03/10/15 14:37	1
Anthracene	0.20	U	0.20	0.088	ug/L		03/10/15 06:00	03/10/15 14:37	1
Benzo[a]anthracene	0.20	U	0.20	0.030	ug/L		03/10/15 06:00	03/10/15 14:37	1
Benzo[a]pyrene	0.20	U	0.20	0.051	ug/L		03/10/15 06:00	03/10/15 14:37	1
Benzo[b]fluoranthene	0.20	U	0.20	0.039	ug/L		03/10/15 06:00	03/10/15 14:37	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.046	ug/L		03/10/15 06:00	03/10/15 14:37	1
Benzo[k]fluoranthene	0.20	U	0.20	0.045	ug/L		03/10/15 06:00	03/10/15 14:37	1
Chrysene	0.20	U	0.20	0.050	ug/L		03/10/15 06:00	03/10/15 14:37	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.045	ug/L		03/10/15 06:00	03/10/15 14:37	1
Fluoranthene	0.20	U	0.20	0.045	ug/L		03/10/15 06:00	03/10/15 14:37	1
Fluorene	0.20	U	0.20	0.041	ug/L		03/10/15 06:00	03/10/15 14:37	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.043	ug/L		03/10/15 06:00	03/10/15 14:37	1
Naphthalene	0.20	U	0.20	0.063	ug/L		03/10/15 06:00	03/10/15 14:37	1
Phenanthrene	0.20	U	0.20	0.062	ug/L		03/10/15 06:00	03/10/15 14:37	1
Pyrene	0.20	U	0.20	0.042	ug/L		03/10/15 06:00	03/10/15 14:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	75		29 - 110				03/10/15 06:00	03/10/15 14:37	1
Nitrobenzene-d5 (Surr)	75		31 - 110				03/10/15 06:00	03/10/15 14:37	1
Terphenyl-d14 (Surr)	74		31 - 115				03/10/15 06:00	03/10/15 14:37	1

TestAmerica Canton

Surrogate Summary

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

TestAmerica Job ID: 240-47962-2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (29-110)	NBZ (31-110)	TPH (31-115)
240-47962-1	MONTGOMERY WTP-RAW030915	76	76	67
240-47962-2	MONTGOMERY WTP-FINISH030915AM	76	75	72
240-47962-3	MONTGOMERY WTP-RAW030815PM	80	74	71
240-47962-4	MONTGOMERY WTP-FINISH030815PM	75	75	74
LCS 240-171360/11-A	Lab Control Sample	68	66	71
MB 240-171360/10-A	Method Blank	78	73	80
Surrogate Legend				
FBP = 2-Fluorobiphenyl (Surr)				
NBZ = Nitrobenzene-d5 (Surr)				
TPH = Terphenyl-d14 (Surr)				

QC Sample Results

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

TestAmerica Job ID: 240-47962-2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-171360/10-A

Matrix: Water

Analysis Batch: 171395

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 171360

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.044	ug/L		03/10/15 06:00	03/10/15 13:03	1
Acenaphthylene	0.20	U	0.20	0.048	ug/L		03/10/15 06:00	03/10/15 13:03	1
Anthracene	0.20	U	0.20	0.088	ug/L		03/10/15 06:00	03/10/15 13:03	1
Benzo[a]anthracene	0.20	U	0.20	0.030	ug/L		03/10/15 06:00	03/10/15 13:03	1
Benzo[a]pyrene	0.20	U	0.20	0.051	ug/L		03/10/15 06:00	03/10/15 13:03	1
Benzo[b]fluoranthene	0.20	U	0.20	0.039	ug/L		03/10/15 06:00	03/10/15 13:03	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.046	ug/L		03/10/15 06:00	03/10/15 13:03	1
Benzo[k]fluoranthene	0.20	U	0.20	0.045	ug/L		03/10/15 06:00	03/10/15 13:03	1
Chrysene	0.20	U	0.20	0.050	ug/L		03/10/15 06:00	03/10/15 13:03	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.045	ug/L		03/10/15 06:00	03/10/15 13:03	1
Fluoranthene	0.20	U	0.20	0.045	ug/L		03/10/15 06:00	03/10/15 13:03	1
Fluorene	0.20	U	0.20	0.041	ug/L		03/10/15 06:00	03/10/15 13:03	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.043	ug/L		03/10/15 06:00	03/10/15 13:03	1
Naphthalene	0.20	U	0.20	0.063	ug/L		03/10/15 06:00	03/10/15 13:03	1
Phenanthrene	0.20	U	0.20	0.062	ug/L		03/10/15 06:00	03/10/15 13:03	1
Pyrene	0.20	U	0.20	0.042	ug/L		03/10/15 06:00	03/10/15 13:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	78		29 - 110	03/10/15 06:00	03/10/15 13:03	1
Nitrobenzene-d5 (Surr)	73		31 - 110	03/10/15 06:00	03/10/15 13:03	1
Terphenyl-d14 (Surr)	80		31 - 115	03/10/15 06:00	03/10/15 13:03	1

Lab Sample ID: LCS 240-171360/11-A

Matrix: Water

Analysis Batch: 171395

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 171360

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	20.0	12.8		ug/L		64	55 - 120
Acenaphthylene	20.0	12.2		ug/L		61	55 - 120
Anthracene	20.0	14.8		ug/L		74	56 - 120
Benzo[a]anthracene	20.0	15.1		ug/L		75	46 - 120
Benzo[a]pyrene	20.0	15.5		ug/L		78	24 - 120
Benzo[b]fluoranthene	20.0	15.8		ug/L		79	24 - 120
Benzo[g,h,i]perylene	20.0	15.4		ug/L		77	24 - 126
Benzo[k]fluoranthene	20.0	15.6		ug/L		78	30 - 120
Chrysene	20.0	16.0		ug/L		80	49 - 120
Dibenz(a,h)anthracene	20.0	16.0		ug/L		80	24 - 125
Fluoranthene	20.0	15.9		ug/L		79	57 - 120
Fluorene	20.0	13.6		ug/L		68	56 - 120
Indeno[1,2,3-cd]pyrene	20.0	15.5		ug/L		78	25 - 120
Naphthalene	20.0	11.8		ug/L		59	52 - 120
Phenanthrene	20.0	14.1		ug/L		71	57 - 120
Pyrene	20.0	14.6		ug/L		73	50 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	68		29 - 110
Nitrobenzene-d5 (Surr)	66		31 - 110

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-47962-2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-171360/11-A

Matrix: Water

Analysis Batch: 171395

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 171360

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Terphenyl-d14 (Surr)	71		31 - 115

QC Association Summary

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

TestAmerica Job ID: 240-47962-2

GC/MS Semi VOA

Prep Batch: 171360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-47962-1	MONTGOMERY WTP-RAW030915AM	Total/NA	Water	3510C	
240-47962-2	MONTGOMERY WTP-FINISH030915AM	Total/NA	Water	3510C	
240-47962-3	MONTGOMERY WTP-RAW030815PM	Total/NA	Water	3510C	
240-47962-4	MONTGOMERY WTP-FINISH030815PM	Total/NA	Water	3510C	
LCS 240-171360/11-A	Lab Control Sample	Total/NA	Water	3510C	
MB 240-171360/10-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 171395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-47962-1	MONTGOMERY WTP-RAW030915AM	Total/NA	Water	8270D	171360
240-47962-2	MONTGOMERY WTP-FINISH030915AM	Total/NA	Water	8270D	171360
240-47962-3	MONTGOMERY WTP-RAW030815PM	Total/NA	Water	8270D	171360
240-47962-4	MONTGOMERY WTP-FINISH030815PM	Total/NA	Water	8270D	171360
LCS 240-171360/11-A	Lab Control Sample	Total/NA	Water	8270D	171360
MB 240-171360/10-A	Method Blank	Total/NA	Water	8270D	171360

Lab Chronicle

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

TestAmerica Job ID: 240-47962-2

Client Sample ID: MONTGOMERY WTP-RAW030915AM

Lab Sample ID: 240-47962-1

Date Collected: 03/09/15 09:00

Matrix: Water

Date Received: 03/09/15 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			171360	03/10/15 06:00	CSC	TAL CAN
Total/NA	Analysis	8270D		1	171395	03/10/15 15:48	JMG	TAL CAN

Client Sample ID: MONTGOMERY WTP-FINISH030915AM

Lab Sample ID: 240-47962-2

Date Collected: 03/09/15 08:45

Matrix: Water

Date Received: 03/09/15 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			171360	03/10/15 06:00	CSC	TAL CAN
Total/NA	Analysis	8270D		1	171395	03/10/15 15:24	JMG	TAL CAN

Client Sample ID: MONTGOMERY WTP-RAW030815PM

Lab Sample ID: 240-47962-3

Date Collected: 03/08/15 19:00

Matrix: Water

Date Received: 03/09/15 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			171360	03/10/15 06:00	CSC	TAL CAN
Total/NA	Analysis	8270D		1	171395	03/10/15 15:01	JMG	TAL CAN

Client Sample ID: MONTGOMERY WTP-FINISH030815PM

Lab Sample ID: 240-47962-4

Date Collected: 03/08/15 19:15

Matrix: Water

Date Received: 03/09/15 19:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			171360	03/10/15 06:00	CSC	TAL CAN
Total/NA	Analysis	8270D		1	171395	03/10/15 14:37	JMG	TAL CAN

Laboratory References:

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

Certification Summary

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

TestAmerica Job ID: 240-47962-2

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



240-47962 Chain of Custody



CHAIN OF
CUSTODY

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: 330-497-9396 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 McLemore 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: 716-961-7991
TestAmerica Chicago - 2417 Bond Street, University Park, IL 60466 P: 708-534-5200 F: 708-534-5211

COC #

SHIPMENT INFORMATION

Shipment Method:

Shipment Tracking No:

CSXT PROJECT INFORMATION

CSXT Project Number: R000441581

CSXT Project Name: CSXT-Mt. Carbon Grude derailment

CSXT Contact: Mike Austin

CONSULTANT INFORMATION

Proj. State (State of Origin) WV

Proj. City: Mt. Carbon

Company: EnviroServe

Address:

City, State, Zip:

PM: Joe Pappineau

Email:

Phone:

Fax:

Turnaround Time:

☒ 1 Day Rush

☐ 2 Day Rush

☐ 3 Day Rush

☐ Other

Specify # Days

Standard 14 Days

Other

Deliverables:

☒ CSXT Standard (Level II)

☐ Level III

☐ Level IV

EDD Required, Format:

SAMPLE INFORMATION

Sample Identification

Containers Number & Type

Date

Time

Sampler

Filtered Y or N

Type Comp or Grab

Matrix Code

Note

Pres.

Code

LIQ = Liquid

SO = Soil

SL = Sludge

WW = Waste Water

Oil = Oil

SOL = Other Solid

Preservative Codes:

0 = No Preservatives

1 = Hydrochloric Acid

2 = Nitric Acid

3 = Sulfuric Acid

4 = Sodium Thiosulfate

5 = Sodium Hydroxide

6 = Other

METHODS FOR ANALYSIS

COMMENTS

LAB USE

Relinquished By:

SA RAN WALTERS

Relinquished By:

Joe Pappineau

Relinquished By:

Joe Pappineau

Received By Laboratory:

Joe Pappineau

Date/Time:

03/09/15 15:43

Date/Time:

3-9-15 7:02

Date/Time:

3/9/15 19:02

Received By:

Joe Pappineau

Received By:

Joe Pappineau

Received By:

Joe Pappineau

Date/Time:

3-9-15 15:43

Date/Time:

3-9-15 15:43

Date/Time:

3-9-15 15:43

Comments & Special Analytical Requirements:

TestAmerica Canton Sample Receipt Form/Narrative				Login # : <u>47962</u>	
Canton Facility					
Client <u>Enviro Science</u>		Site Name _____		Cooler unpacked by: <u>[Signature]</u>	
Cooler Received on <u>3/9/15</u>		Opened on <u>3/9/15</u>			
FedEx: 1 st Grd Exp <u>UPS FAS Stetson</u>		Client Drop Off <u>TestAmerica Courier</u>		Other _____	
Receipt After-hours: Drop-off Date/Time			Storage Location		
TestAmerica Cooler # _____		Foam Box _____		Client Cooler _____	
Packing material used: <u>Bubble Wrap</u>		Foam _____		Plastic Bag _____	
COOLANT: <u>Wet Ice</u>		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 <u>2</u>				Yes <input checked="" type="radio"/> No <input type="radio"/>	
-Were custody seals on the outside of the cooler(s) signed & dated?				Yes <input checked="" type="radio"/> No <input type="radio"/> NA <input type="radio"/>	
-Were custody seals on the bottle(s)?				Yes <input type="radio"/> No <input checked="" type="radio"/>	
3. Shippers' packing slip attached to the cooler(s)?				Yes <input type="radio"/> No <input checked="" type="radio"/>	
4. Did custody papers accompany the sample(s)?				Yes <input checked="" type="radio"/> No <input type="radio"/>	
5. Were the custody papers relinquished & signed in the appropriate place?				Yes <input checked="" type="radio"/> No <input type="radio"/>	
6. Was/were the sampler(s) clearly identified on the COC?				Yes <input checked="" type="radio"/> No <input type="radio"/>	
7. Did all bottles arrive in good condition (Unbroken)?				Yes <input checked="" type="radio"/> No <input type="radio"/>	
8. Could all bottle labels be reconciled with the COC?				Yes <input checked="" type="radio"/> No <input type="radio"/>	
9. Were correct bottle(s) used for the test(s) indicated?				Yes <input checked="" type="radio"/> No <input type="radio"/>	
10. Sufficient quantity received to perform indicated analyses?				Yes <input checked="" type="radio"/> No <input type="radio"/>	
11. Were sample(s) at the correct pH upon receipt?				Yes <input type="radio"/> No <input checked="" type="radio"/> pH Strip Lot# <u>HC425511</u>	
12. Were VOAs on the COC?				Yes <input checked="" type="radio"/> No <input type="radio"/>	
13. Were air bubbles >6 mm in any VOA vials?				Yes <input type="radio"/> No <input checked="" type="radio"/> NA <input type="radio"/>	
14. Was a trip blank present in the cooler(s)? Trip Blank Lot # _____				Yes <input checked="" type="radio"/> No <input type="radio"/>	
Contacted PM <u>PJO</u>		Date <u>3/9/15</u>		by <u>[Signature]</u>	
Concerning <u>#14</u>				via Verbal Voice Mail <input checked="" type="radio"/> Other <u>NCM</u>	

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	Samples processed by: _____
<u>Received 1 Set of Trip Blanks for each day sampled. Not in LOC. Will log at end of job.</u>	
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]