

From: Anna Beckman <anna.beckman@cedarcorp.com>
Sent: Thursday, May 23, 2019 11:47 AM
To: Stoltz, Carrie R - DNR
Cc: Mitch Evenson; Kirsten Lee
Subject: BRRTS #: 03-61-168823 Perrys Corner Groundwater Data
Attachments: Table 1 - Groundwater Analytical Data.pdf; J161417-1 UDS Level 2 Report Final Report.pdf; J155595-1 UDS Level 2 Report Final Report.pdf

Good morning Carrie,

Attached please find an updated Groundwater Analytical Table for the Perrys Corner Site, including the lab reports for the 2 most recent sampling rounds. Note that both residential wells sampled had no exceedances above any PALs.

Based on this data, do you request that we submit a short letter-style report with data collected up to this point and continue with 2 more rounds of groundwater sample collection or submit a deferment to request case closure?

Please let me know how you'd like us to proceed.

Thank you,

Anna Beckman

Staff Geologist

Cedar Corporation

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-155595-1
Client Project/Site: Olson Corners/Hannibal

For:
Cedar Corporation
604 Wilson Avenue
Menomonie, Wisconsin 54751

Attn: Mitch Evenson



Authorized for release by:
12/10/2018 8:54:08 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

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results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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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Case Narrative

Client: Cedar Corporation
Project/Site: Olson Corners/Hannibal

TestAmerica Job ID: 500-155595-1

Job ID: 500-155595-1

Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-155595-1**

Comments

No additional comments.

Receipt

The samples were received on 12/4/2018 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6° C.

GC VOA

Method(s) WI-GRO: The following sample was diluted due to the nature of the sample matrix: MW-6 (500-155595-6). Elevated reporting limits (RLs) are provided. Sample is a foamer.

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

VOA Prep

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

Detection Summary

Client: Cedar Corporation
Project/Site: Olson Corners/Hannibal

TestAmerica Job ID: 500-155595-1

Client Sample ID: MW-1

Lab Sample ID: 500-155595-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	130		0.50	0.30	ug/L	1		WDNR	Total/NA
1,3,5-Trimethylbenzene	100		0.50	0.30	ug/L	1		WDNR	Total/NA
Benzene	20		0.50	0.36	ug/L	1		WDNR	Total/NA
Ethylbenzene	220		0.50	0.37	ug/L	1		WDNR	Total/NA
Methyl tert-butyl ether	72		0.50	0.24	ug/L	1		WDNR	Total/NA
Naphthalene	72		5.0	2.4	ug/L	1		WDNR	Total/NA
Toluene	180		0.50	0.33	ug/L	1		WDNR	Total/NA
Xylenes, Total	470		1.5	0.58	ug/L	1		WDNR	Total/NA

Client Sample ID: MW-2P

Lab Sample ID: 500-155595-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.48	J	0.50	0.30	ug/L	1		WDNR	Total/NA
Benzene	0.85		0.50	0.36	ug/L	1		WDNR	Total/NA
Methyl tert-butyl ether	0.40	J	0.50	0.24	ug/L	1		WDNR	Total/NA
Toluene	0.41	J	0.50	0.33	ug/L	1		WDNR	Total/NA

Client Sample ID: MW-3D

Lab Sample ID: 500-155595-3

No Detections.

Client Sample ID: MW-4

Lab Sample ID: 500-155595-4

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	700		5.0	3.0	ug/L	10		WDNR	Total/NA
1,3,5-Trimethylbenzene	430		5.0	3.0	ug/L	10		WDNR	Total/NA
Benzene	5000		13	9.0	ug/L	25		WDNR	Total/NA
Ethylbenzene	580		5.0	3.7	ug/L	10		WDNR	Total/NA
Methyl tert-butyl ether	80		5.0	2.4	ug/L	10		WDNR	Total/NA
Naphthalene	670		50	24	ug/L	10		WDNR	Total/NA
Toluene	490		5.0	3.3	ug/L	10		WDNR	Total/NA
Xylenes, Total	1700		15	5.8	ug/L	10		WDNR	Total/NA

Client Sample ID: MW-4P

Lab Sample ID: 500-155595-5

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	49		0.50	0.30	ug/L	1		WDNR	Total/NA
1,3,5-Trimethylbenzene	74		0.50	0.30	ug/L	1		WDNR	Total/NA
Benzene	800		5.0	3.6	ug/L	10		WDNR	Total/NA
Ethylbenzene	1400		5.0	3.7	ug/L	10		WDNR	Total/NA
Methyl tert-butyl ether	34		0.50	0.24	ug/L	1		WDNR	Total/NA
Naphthalene	150		5.0	2.4	ug/L	1		WDNR	Total/NA
Toluene	43		0.50	0.33	ug/L	1		WDNR	Total/NA
Xylenes, Total	210		1.5	0.58	ug/L	1		WDNR	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 500-155595-6

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.1		2.5	1.8	ug/L	5		WDNR	Total/NA
Ethylbenzene	9.6		2.5	1.9	ug/L	5		WDNR	Total/NA
Methyl tert-butyl ether	1.7	J	2.5	1.2	ug/L	5		WDNR	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Cedar Corporation
Project/Site: Olson Corners/Hannibal

TestAmerica Job ID: 500-155595-1

Client Sample ID: MW-6 (Continued)

Lab Sample ID: 500-155595-6

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	48		25	12	ug/L	5		WDNR	Total/NA

Client Sample ID: MW-6P

Lab Sample ID: 500-155595-7

No Detections.

Client Sample ID: MW-7

Lab Sample ID: 500-155595-8

No Detections.

Client Sample ID: MW-8P

Lab Sample ID: 500-155595-9

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzene	13		0.50	0.36	ug/L	1		WDNR	Total/NA
Methyl tert-butyl ether	1.8		0.50	0.24	ug/L	1		WDNR	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 500-155595-10

No Detections.

Client Sample ID: MW-10

Lab Sample ID: 500-155595-11

No Detections.

Client Sample ID: MW-11

Lab Sample ID: 500-155595-12

No Detections.

Client Sample ID: MW-12P

Lab Sample ID: 500-155595-13

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzene	11		0.50	0.36	ug/L	1		WDNR	Total/NA
Methyl tert-butyl ether	7.4		0.50	0.24	ug/L	1		WDNR	Total/NA

Client Sample ID: MW-12D

Lab Sample ID: 500-155595-14

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.49	J	0.50	0.24	ug/L	1		WDNR	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 500-155595-15

No Detections.

Client Sample ID: MW-13D

Lab Sample ID: 500-155595-16

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.57		0.50	0.24	ug/L	1		WDNR	Total/NA

Client Sample ID: Webster

Lab Sample ID: 500-155595-17

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: Cedar Corporation
Project/Site: Olson Corners/Hannibal

TestAmerica Job ID: 500-155595-1

Method	Method Description	Protocol	Laboratory
WDNR	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL NSH
5030B	Purge and Trap	SW846	TAL NSH

Protocol References:

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

WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



Sample Summary

Client: Cedar Corporation
Project/Site: Olson Corners/Hannibal

TestAmerica Job ID: 500-155595-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-155595-1	MW-1	Water	11/30/18 11:10	12/04/18 09:30
500-155595-2	MW-2P	Water	11/30/18 09:00	12/04/18 09:30
500-155595-3	MW-3D	Water	11/30/18 09:50	12/04/18 09:30
500-155595-4	MW-4	Water	11/30/18 10:05	12/04/18 09:30
500-155595-5	MW-4P	Water	11/30/18 10:00	12/04/18 09:30
500-155595-6	MW-6	Water	11/30/18 10:30	12/04/18 09:30
500-155595-7	MW-6P	Water	11/30/18 10:45	12/04/18 09:30
500-155595-8	MW-7	Water	11/30/18 11:40	12/04/18 09:30
500-155595-9	MW-8P	Water	11/30/18 11:25	12/04/18 09:30
500-155595-10	MW-9	Water	11/30/18 09:20	12/04/18 09:30
500-155595-11	MW-10	Water	11/30/18 09:40	12/04/18 09:30
500-155595-12	MW-11	Water	11/30/18 12:15	12/04/18 09:30
500-155595-13	MW-12P	Water	11/30/18 12:30	12/04/18 09:30
500-155595-14	MW-12D	Water	11/30/18 12:00	12/04/18 09:30
500-155595-15	MW-13	Water	11/30/18 13:10	12/04/18 09:30
500-155595-16	MW-13D	Water	11/30/18 13:30	12/04/18 09:30
500-155595-17	Webster	Water	11/30/18 08:30	12/04/18 09:30

Client Sample Results

Client: Cedar Corporation
Project/Site: Olson Corners/Hannibal

TestAmerica Job ID: 500-155595-1

Client Sample ID: MW-1
Date Collected: 11/30/18 11:10
Date Received: 12/04/18 09:30

Lab Sample ID: 500-155595-1
Matrix: Water

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	130		0.50	0.30	ug/L			12/07/18 20:12	1
1,3,5-Trimethylbenzene	100		0.50	0.30	ug/L			12/07/18 20:12	1
Benzene	20		0.50	0.36	ug/L			12/07/18 20:12	1
Ethylbenzene	220		0.50	0.37	ug/L			12/07/18 20:12	1
Methyl tert-butyl ether	72		0.50	0.24	ug/L			12/07/18 20:12	1
Naphthalene	72		5.0	2.4	ug/L			12/07/18 20:12	1
Toluene	180		0.50	0.33	ug/L			12/07/18 20:12	1
Xylenes, Total	470		1.5	0.58	ug/L			12/07/18 20:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	87		80 - 120		12/07/18 20:12	1

Client Sample ID: MW-2P
Date Collected: 11/30/18 09:00
Date Received: 12/04/18 09:30

Lab Sample ID: 500-155595-2
Matrix: Water

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	0.48	J	0.50	0.30	ug/L			12/07/18 13:04	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/07/18 13:04	1
Benzene	0.85		0.50	0.36	ug/L			12/07/18 13:04	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			12/07/18 13:04	1
Methyl tert-butyl ether	0.40	J	0.50	0.24	ug/L			12/07/18 13:04	1
Naphthalene	<2.4		5.0	2.4	ug/L			12/07/18 13:04	1
Toluene	0.41	J	0.50	0.33	ug/L			12/07/18 13:04	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			12/07/18 13:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	99		80 - 120		12/07/18 13:04	1

Client Sample ID: MW-3D
Date Collected: 11/30/18 09:50
Date Received: 12/04/18 09:30

Lab Sample ID: 500-155595-3
Matrix: Water

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/07/18 13:35	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/07/18 13:35	1
Benzene	<0.36		0.50	0.36	ug/L			12/07/18 13:35	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			12/07/18 13:35	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			12/07/18 13:35	1
Naphthalene	<2.4		5.0	2.4	ug/L			12/07/18 13:35	1
Toluene	<0.33		0.50	0.33	ug/L			12/07/18 13:35	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			12/07/18 13:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		80 - 120		12/07/18 13:35	1

TestAmerica Chicago

Client Sample Results

Client: Cedar Corporation
Project/Site: Olson Corners/Hannibal

TestAmerica Job ID: 500-155595-1

Client Sample ID: MW-4

Date Collected: 11/30/18 10:05

Date Received: 12/04/18 09:30

Lab Sample ID: 500-155595-4

Matrix: Water

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	700		5.0	3.0	ug/L			12/08/18 00:46	10
1,3,5-Trimethylbenzene	430		5.0	3.0	ug/L			12/08/18 00:46	10
Benzene	5000		13	9.0	ug/L			12/08/18 01:47	25
Ethylbenzene	580		5.0	3.7	ug/L			12/08/18 00:46	10
Methyl tert-butyl ether	80		5.0	2.4	ug/L			12/08/18 00:46	10
Naphthalene	670		50	24	ug/L			12/08/18 00:46	10
Toluene	490		5.0	3.3	ug/L			12/08/18 00:46	10
Xylenes, Total	1700		15	5.8	ug/L			12/08/18 00:46	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	101		80 - 120					12/08/18 00:46	10
a,a,a-Trifluorotoluene	101		80 - 120					12/08/18 01:47	25

Client Sample ID: MW-4P

Date Collected: 11/30/18 10:00

Date Received: 12/04/18 09:30

Lab Sample ID: 500-155595-5

Matrix: Water

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	49		0.50	0.30	ug/L			12/07/18 21:43	1
1,3,5-Trimethylbenzene	74		0.50	0.30	ug/L			12/07/18 21:43	1
Benzene	800		5.0	3.6	ug/L			12/07/18 22:44	10
Ethylbenzene	1400		5.0	3.7	ug/L			12/07/18 22:44	10
Methyl tert-butyl ether	34		0.50	0.24	ug/L			12/07/18 21:43	1
Naphthalene	150		5.0	2.4	ug/L			12/07/18 21:43	1
Toluene	43		0.50	0.33	ug/L			12/07/18 21:43	1
Xylenes, Total	210		1.5	0.58	ug/L			12/07/18 21:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	106		80 - 120					12/07/18 21:43	1
a,a,a-Trifluorotoluene	96		80 - 120					12/07/18 22:44	10

Client Sample ID: MW-6

Date Collected: 11/30/18 10:30

Date Received: 12/04/18 09:30

Lab Sample ID: 500-155595-6

Matrix: Water

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<1.5		2.5	1.5	ug/L			12/07/18 23:15	5
1,3,5-Trimethylbenzene	<1.5		2.5	1.5	ug/L			12/07/18 23:15	5
Benzene	6.1		2.5	1.8	ug/L			12/07/18 23:15	5
Ethylbenzene	9.6		2.5	1.9	ug/L			12/07/18 23:15	5
Methyl tert-butyl ether	1.7	J	2.5	1.2	ug/L			12/07/18 23:15	5
Naphthalene	48		25	12	ug/L			12/07/18 23:15	5
Toluene	<1.7		2.5	1.7	ug/L			12/07/18 23:15	5
Xylenes, Total	<2.9		7.5	2.9	ug/L			12/07/18 23:15	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	101		80 - 120					12/07/18 23:15	5

TestAmerica Chicago

Client Sample Results

Client: Cedar Corporation
Project/Site: Olson Corners/Hannibal

TestAmerica Job ID: 500-155595-1

Client Sample ID: MW-6P

Date Collected: 11/30/18 10:45

Date Received: 12/04/18 09:30

Lab Sample ID: 500-155595-7

Matrix: Water

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/07/18 14:05	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/07/18 14:05	1
Benzene	<0.36		0.50	0.36	ug/L			12/07/18 14:05	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			12/07/18 14:05	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			12/07/18 14:05	1
Naphthalene	<2.4		5.0	2.4	ug/L			12/07/18 14:05	1
Toluene	<0.33		0.50	0.33	ug/L			12/07/18 14:05	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			12/07/18 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	102		80 - 120		12/07/18 14:05	1

Client Sample ID: MW-7

Date Collected: 11/30/18 11:40

Date Received: 12/04/18 09:30

Lab Sample ID: 500-155595-8

Matrix: Water

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/07/18 14:36	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/07/18 14:36	1
Benzene	<0.36		0.50	0.36	ug/L			12/07/18 14:36	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			12/07/18 14:36	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			12/07/18 14:36	1
Naphthalene	<2.4		5.0	2.4	ug/L			12/07/18 14:36	1
Toluene	<0.33		0.50	0.33	ug/L			12/07/18 14:36	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			12/07/18 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	102		80 - 120		12/07/18 14:36	1

Client Sample ID: MW-8P

Date Collected: 11/30/18 11:25

Date Received: 12/04/18 09:30

Lab Sample ID: 500-155595-9

Matrix: Water

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/07/18 15:06	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/07/18 15:06	1
Benzene	13		0.50	0.36	ug/L			12/07/18 15:06	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			12/07/18 15:06	1
Methyl tert-butyl ether	1.8		0.50	0.24	ug/L			12/07/18 15:06	1
Naphthalene	<2.4		5.0	2.4	ug/L			12/07/18 15:06	1
Toluene	<0.33		0.50	0.33	ug/L			12/07/18 15:06	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			12/07/18 15:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	103		80 - 120		12/07/18 15:06	1

TestAmerica Chicago

Client Sample Results

Client: Cedar Corporation
Project/Site: Olson Corners/Hannibal

TestAmerica Job ID: 500-155595-1

Client Sample ID: MW-9

Date Collected: 11/30/18 09:20

Date Received: 12/04/18 09:30

Lab Sample ID: 500-155595-10

Matrix: Water

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/07/18 15:37	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/07/18 15:37	1
Benzene	<0.36		0.50	0.36	ug/L			12/07/18 15:37	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			12/07/18 15:37	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			12/07/18 15:37	1
Naphthalene	<2.4		5.0	2.4	ug/L			12/07/18 15:37	1
Toluene	<0.33		0.50	0.33	ug/L			12/07/18 15:37	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			12/07/18 15:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	102		80 - 120		12/07/18 15:37	1

Client Sample ID: MW-10

Date Collected: 11/30/18 09:40

Date Received: 12/04/18 09:30

Lab Sample ID: 500-155595-11

Matrix: Water

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/07/18 16:07	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/07/18 16:07	1
Benzene	<0.36		0.50	0.36	ug/L			12/07/18 16:07	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			12/07/18 16:07	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			12/07/18 16:07	1
Naphthalene	<2.4		5.0	2.4	ug/L			12/07/18 16:07	1
Toluene	<0.33		0.50	0.33	ug/L			12/07/18 16:07	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			12/07/18 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	101		80 - 120		12/07/18 16:07	1

Client Sample ID: MW-11

Date Collected: 11/30/18 12:15

Date Received: 12/04/18 09:30

Lab Sample ID: 500-155595-12

Matrix: Water

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/07/18 17:39	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/07/18 17:39	1
Benzene	<0.36		0.50	0.36	ug/L			12/07/18 17:39	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			12/07/18 17:39	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			12/07/18 17:39	1
Naphthalene	<2.4		5.0	2.4	ug/L			12/07/18 17:39	1
Toluene	<0.33		0.50	0.33	ug/L			12/07/18 17:39	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			12/07/18 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	100		80 - 120		12/07/18 17:39	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Olson Corners/Hannibal

TestAmerica Job ID: 500-155595-1

Client Sample ID: MW-12P

Lab Sample ID: 500-155595-13

Date Collected: 11/30/18 12:30

Matrix: Water

Date Received: 12/04/18 09:30

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/07/18 18:10	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/07/18 18:10	1
Benzene	11		0.50	0.36	ug/L			12/07/18 18:10	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			12/07/18 18:10	1
Methyl tert-butyl ether	7.4		0.50	0.24	ug/L			12/07/18 18:10	1
Naphthalene	<2.4		5.0	2.4	ug/L			12/07/18 18:10	1
Toluene	<0.33		0.50	0.33	ug/L			12/07/18 18:10	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			12/07/18 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	104		80 - 120		12/07/18 18:10	1

Client Sample ID: MW-12D

Lab Sample ID: 500-155595-14

Date Collected: 11/30/18 12:00

Matrix: Water

Date Received: 12/04/18 09:30

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/07/18 18:40	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/07/18 18:40	1
Benzene	<0.36		0.50	0.36	ug/L			12/07/18 18:40	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			12/07/18 18:40	1
Methyl tert-butyl ether	0.49	J	0.50	0.24	ug/L			12/07/18 18:40	1
Naphthalene	<2.4		5.0	2.4	ug/L			12/07/18 18:40	1
Toluene	<0.33		0.50	0.33	ug/L			12/07/18 18:40	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			12/07/18 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	100		80 - 120		12/07/18 18:40	1

Client Sample ID: MW-13

Lab Sample ID: 500-155595-15

Date Collected: 11/30/18 13:10

Matrix: Water

Date Received: 12/04/18 09:30

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/07/18 19:11	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/07/18 19:11	1
Benzene	<0.36		0.50	0.36	ug/L			12/07/18 19:11	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			12/07/18 19:11	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			12/07/18 19:11	1
Naphthalene	<2.4		5.0	2.4	ug/L			12/07/18 19:11	1
Toluene	<0.33		0.50	0.33	ug/L			12/07/18 19:11	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			12/07/18 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	101		80 - 120		12/07/18 19:11	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Olson Corners/Hannibal

TestAmerica Job ID: 500-155595-1

Client Sample ID: MW-13D

Lab Sample ID: 500-155595-16

Date Collected: 11/30/18 13:30

Matrix: Water

Date Received: 12/04/18 09:30

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/07/18 19:41	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/07/18 19:41	1
Benzene	<0.36		0.50	0.36	ug/L			12/07/18 19:41	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			12/07/18 19:41	1
Methyl tert-butyl ether	0.57		0.50	0.24	ug/L			12/07/18 19:41	1
Naphthalene	<2.4		5.0	2.4	ug/L			12/07/18 19:41	1
Toluene	<0.33		0.50	0.33	ug/L			12/07/18 19:41	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			12/07/18 19:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	103		80 - 120		12/07/18 19:41	1

Client Sample ID: Webster

Lab Sample ID: 500-155595-17

Date Collected: 11/30/18 08:30

Matrix: Water

Date Received: 12/04/18 09:30

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/07/18 10:47	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/07/18 10:47	1
Benzene	<0.36		0.50	0.36	ug/L			12/07/18 10:47	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			12/07/18 10:47	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			12/07/18 10:47	1
Naphthalene	<2.4		5.0	2.4	ug/L			12/07/18 10:47	1
Toluene	<0.33		0.50	0.33	ug/L			12/07/18 10:47	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			12/07/18 10:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	103		80 - 120		12/07/18 10:47	1

Definitions/Glossary

Client: Cedar Corporation
Project/Site: Olson Corners/Hannibal

TestAmerica Job ID: 500-155595-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Reported value was between the limit of detection and the limit of quantitation.

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
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

QC Association Summary

Client: Cedar Corporation
Project/Site: Olson Corners/Hannibal

TestAmerica Job ID: 500-155595-1

GC VOA

Analysis Batch: 562036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-155595-1	MW-1	Total/NA	Water	WDNR	
500-155595-2	MW-2P	Total/NA	Water	WDNR	
500-155595-3	MW-3D	Total/NA	Water	WDNR	
500-155595-4	MW-4	Total/NA	Water	WDNR	
500-155595-4	MW-4	Total/NA	Water	WDNR	
500-155595-5	MW-4P	Total/NA	Water	WDNR	
500-155595-5	MW-4P	Total/NA	Water	WDNR	
500-155595-6	MW-6	Total/NA	Water	WDNR	
500-155595-7	MW-6P	Total/NA	Water	WDNR	
500-155595-8	MW-7	Total/NA	Water	WDNR	
500-155595-9	MW-8P	Total/NA	Water	WDNR	
500-155595-10	MW-9	Total/NA	Water	WDNR	
500-155595-11	MW-10	Total/NA	Water	WDNR	
500-155595-12	MW-11	Total/NA	Water	WDNR	
500-155595-13	MW-12P	Total/NA	Water	WDNR	
500-155595-14	MW-12D	Total/NA	Water	WDNR	
500-155595-15	MW-13	Total/NA	Water	WDNR	
500-155595-16	MW-13D	Total/NA	Water	WDNR	
500-155595-17	Webster	Total/NA	Water	WDNR	
MB 490-562036/33	Method Blank	Total/NA	Water	WDNR	
MB 490-562036/6	Method Blank	Total/NA	Water	WDNR	
LCS 490-562036/5	Lab Control Sample	Total/NA	Water	WDNR	
LCSD 490-562036/39	Lab Control Sample Dup	Total/NA	Water	WDNR	
500-155595-17 MS	Webster	Total/NA	Water	WDNR	
500-155595-17 MSD	Webster	Total/NA	Water	WDNR	

Surrogate Summary

Client: Cedar Corporation
Project/Site: Olson Corners/Hannibal

TestAmerica Job ID: 500-155595-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TFT (80-120)
500-155595-1	MW-1	87
500-155595-2	MW-2P	99
500-155595-3	MW-3D	104
500-155595-4	MW-4	101
500-155595-4	MW-4	101
500-155595-5	MW-4P	106
500-155595-5	MW-4P	96
500-155595-6	MW-6	101
500-155595-7	MW-6P	102
500-155595-8	MW-7	102
500-155595-9	MW-8P	103
500-155595-10	MW-9	102
500-155595-11	MW-10	101
500-155595-12	MW-11	100
500-155595-13	MW-12P	104
500-155595-14	MW-12D	100
500-155595-15	MW-13	101
500-155595-16	MW-13D	103
500-155595-17	Webster	103
500-155595-17 MS	Webster	103
500-155595-17 MSD	Webster	104
LCS 490-562036/5	Lab Control Sample	104
LCSD 490-562036/39	Lab Control Sample Dup	101
MB 490-562036/33	Method Blank	101
MB 490-562036/6	Method Blank	101

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

QC Sample Results

Client: Cedar Corporation
Project/Site: Olson Corners/Hannibal

TestAmerica Job ID: 500-155595-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: MB 490-562036/33
Matrix: Water
Analysis Batch: 562036

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/08/18 00:16	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/08/18 00:16	1
Benzene	<0.36		0.50	0.36	ug/L			12/08/18 00:16	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			12/08/18 00:16	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			12/08/18 00:16	1
Naphthalene	<2.4		5.0	2.4	ug/L			12/08/18 00:16	1
Toluene	<0.33		0.50	0.33	ug/L			12/08/18 00:16	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			12/08/18 00:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	101		80 - 120		12/08/18 00:16	1

Lab Sample ID: MB 490-562036/6
Matrix: Water
Analysis Batch: 562036

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/07/18 10:11	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/07/18 10:11	1
Benzene	<0.36		0.50	0.36	ug/L			12/07/18 10:11	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			12/07/18 10:11	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			12/07/18 10:11	1
Naphthalene	<2.4		5.0	2.4	ug/L			12/07/18 10:11	1
Toluene	<0.33		0.50	0.33	ug/L			12/07/18 10:11	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			12/07/18 10:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	101		80 - 120		12/07/18 10:11	1

Lab Sample ID: LCS 490-562036/5
Matrix: Water
Analysis Batch: 562036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	20.0	19.1		ug/L		96	60 - 131
1,3,5-Trimethylbenzene	20.0	19.1		ug/L		95	70 - 130
Benzene	20.0	20.7		ug/L		104	69 - 129
Ethylbenzene	20.0	19.3		ug/L		97	70 - 130
Methyl tert-butyl ether	20.0	18.6		ug/L		93	57 - 138
m-Xylene & p-Xylene	40.0	38.3		ug/L		96	65 - 127
Naphthalene	20.0	21.7		ug/L		108	69 - 133
o-Xylene	20.0	20.0		ug/L		100	64 - 128
Toluene	20.0	19.8		ug/L		99	66 - 127
Xylenes, Total	60.0	58.3		ug/L		97	

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	104		80 - 120

TestAmerica Chicago

QC Sample Results

Client: Cedar Corporation
Project/Site: Olson Corners/Hannibal

TestAmerica Job ID: 500-155595-1

Lab Sample ID: LCSD 490-562036/39
Matrix: Water
Analysis Batch: 562036

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	20.0	18.6		ug/L		93	60 - 131	3	43
1,3,5-Trimethylbenzene	20.0	18.6		ug/L		93	70 - 130	2	20
Benzene	20.0	20.6		ug/L		103	69 - 129	1	33
Ethylbenzene	20.0	19.0		ug/L		95	70 - 130	2	35
Methyl tert-butyl ether	20.0	20.6		ug/L		103	57 - 138	11	40
m-Xylene & p-Xylene	40.0	37.4		ug/L		93	65 - 127	2	39
Naphthalene	20.0	21.1		ug/L		106	69 - 133	2	48
o-Xylene	20.0	19.5		ug/L		97	64 - 128	2	35
Toluene	20.0	19.3		ug/L		96	66 - 127	3	34
Xylenes, Total	60.0	56.9		ug/L		95		2	

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
a,a,a-Trifluorotoluene	101		80 - 120

Lab Sample ID: 500-155595-17 MS
Matrix: Water
Analysis Batch: 562036

Client Sample ID: Webster
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	<0.30		20.0	18.6		ug/L		93	40 - 165
1,3,5-Trimethylbenzene	<0.30		20.0	18.8		ug/L		94	60 - 140
Benzene	<0.36		20.0	20.5		ug/L		102	29 - 176
Ethylbenzene	<0.37		20.0	19.0		ug/L		95	30 - 170
Methyl tert-butyl ether	<0.24		20.0	18.6		ug/L		93	23 - 165
m-Xylene & p-Xylene	<0.29		40.0	37.8		ug/L		94	27 - 165
Naphthalene	<2.4		20.0	19.2		ug/L		96	10 - 175
o-Xylene	<0.29		20.0	19.3		ug/L		96	23 - 169
Toluene	<0.33		20.0	19.6		ug/L		98	30 - 167
Xylenes, Total	<0.58		60.0	57.1		ug/L		95	

Surrogate	MS %Recovery	MS Qualifier	MS Limits
a,a,a-Trifluorotoluene	103		80 - 120

Lab Sample ID: 500-155595-17 MSD
Matrix: Water
Analysis Batch: 562036

Client Sample ID: Webster
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	<0.30		20.0	20.7		ug/L		103	40 - 165	11	43
1,3,5-Trimethylbenzene	<0.30		20.0	20.8		ug/L		104	60 - 140	10	20
Benzene	<0.36		20.0	22.7		ug/L		114	29 - 176	10	33
Ethylbenzene	<0.37		20.0	20.7		ug/L		104	30 - 170	9	35
Methyl tert-butyl ether	<0.24		20.0	20.9		ug/L		104	23 - 165	12	40
m-Xylene & p-Xylene	<0.29		40.0	42.3		ug/L		106	27 - 165	11	39
Naphthalene	<2.4		20.0	22.0		ug/L		110	10 - 175	14	48
o-Xylene	<0.29		20.0	21.5		ug/L		108	23 - 169	11	35
Toluene	<0.33		20.0	21.5		ug/L		108	30 - 167	10	34
Xylenes, Total	<0.58		60.0	63.8		ug/L		106		11	

TestAmerica Chicago

QC Sample Results

Client: Cedar Corporation
Project/Site: Olson Corners/Hannibal

TestAmerica Job ID: 500-155595-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: 500-155595-17 MSD

Matrix: Water

Analysis Batch: 562036

Client Sample ID: Webster

Prep Type: Total/NA

<i>Surrogate</i>	<i>MSD</i> <i>%Recovery</i>	<i>MSD</i> <i>Qualifier</i>	<i>Limits</i>
<i>a,a,a-Trifluorotoluene</i>	104		80 - 120

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Lab Chronicle

Client: Cedar Corporation
Project/Site: Olson Corners/Hannibal

TestAmerica Job ID: 500-155595-1

Client Sample ID: MW-1
Date Collected: 11/30/18 11:10
Date Received: 12/04/18 09:30

Lab Sample ID: 500-155595-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	562036	12/07/18 20:12	AK1	TAL NSH

Client Sample ID: MW-2P
Date Collected: 11/30/18 09:00
Date Received: 12/04/18 09:30

Lab Sample ID: 500-155595-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	562036	12/07/18 13:04	AK1	TAL NSH

Client Sample ID: MW-3D
Date Collected: 11/30/18 09:50
Date Received: 12/04/18 09:30

Lab Sample ID: 500-155595-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	562036	12/07/18 13:35	AK1	TAL NSH

Client Sample ID: MW-4
Date Collected: 11/30/18 10:05
Date Received: 12/04/18 09:30

Lab Sample ID: 500-155595-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		10	562036	12/08/18 00:46	AK1	TAL NSH
Total/NA	Analysis	WDNR		25	562036	12/08/18 01:47	AK1	TAL NSH

Client Sample ID: MW-4P
Date Collected: 11/30/18 10:00
Date Received: 12/04/18 09:30

Lab Sample ID: 500-155595-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	562036	12/07/18 21:43	AK1	TAL NSH
Total/NA	Analysis	WDNR		10	562036	12/07/18 22:44	AK1	TAL NSH

Client Sample ID: MW-6
Date Collected: 11/30/18 10:30
Date Received: 12/04/18 09:30

Lab Sample ID: 500-155595-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		5	562036	12/07/18 23:15	AK1	TAL NSH

Lab Chronicle

Client: Cedar Corporation
Project/Site: Olson Corners/Hannibal

TestAmerica Job ID: 500-155595-1

Client Sample ID: MW-6P

Date Collected: 11/30/18 10:45

Date Received: 12/04/18 09:30

Lab Sample ID: 500-155595-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	562036	12/07/18 14:05	AK1	TAL NSH

Client Sample ID: MW-7

Date Collected: 11/30/18 11:40

Date Received: 12/04/18 09:30

Lab Sample ID: 500-155595-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	562036	12/07/18 14:36	AK1	TAL NSH

Client Sample ID: MW-8P

Date Collected: 11/30/18 11:25

Date Received: 12/04/18 09:30

Lab Sample ID: 500-155595-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	562036	12/07/18 15:06	AK1	TAL NSH

Client Sample ID: MW-9

Date Collected: 11/30/18 09:20

Date Received: 12/04/18 09:30

Lab Sample ID: 500-155595-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	562036	12/07/18 15:37	AK1	TAL NSH

Client Sample ID: MW-10

Date Collected: 11/30/18 09:40

Date Received: 12/04/18 09:30

Lab Sample ID: 500-155595-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	562036	12/07/18 16:07	AK1	TAL NSH

Client Sample ID: MW-11

Date Collected: 11/30/18 12:15

Date Received: 12/04/18 09:30

Lab Sample ID: 500-155595-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	562036	12/07/18 17:39	AK1	TAL NSH

TestAmerica Chicago

Lab Chronicle

Client: Cedar Corporation
Project/Site: Olson Corners/Hannibal

TestAmerica Job ID: 500-155595-1

Client Sample ID: MW-12P

Date Collected: 11/30/18 12:30

Date Received: 12/04/18 09:30

Lab Sample ID: 500-155595-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	562036	12/07/18 18:10	AK1	TAL NSH

Client Sample ID: MW-12D

Date Collected: 11/30/18 12:00

Date Received: 12/04/18 09:30

Lab Sample ID: 500-155595-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	562036	12/07/18 18:40	AK1	TAL NSH

Client Sample ID: MW-13

Date Collected: 11/30/18 13:10

Date Received: 12/04/18 09:30

Lab Sample ID: 500-155595-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	562036	12/07/18 19:11	AK1	TAL NSH

Client Sample ID: MW-13D

Date Collected: 11/30/18 13:30

Date Received: 12/04/18 09:30

Lab Sample ID: 500-155595-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	562036	12/07/18 19:41	AK1	TAL NSH

Client Sample ID: Webster

Date Collected: 11/30/18 08:30

Date Received: 12/04/18 09:30

Lab Sample ID: 500-155595-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	562036	12/07/18 10:47	AK1	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

Client: Cedar Corporation
Project/Site: Olson Corners/Hannibal

TestAmerica Job ID: 500-155595-1

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-19

Laboratory: TestAmerica Nashville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	998020430	08-31-19

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING


2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: Mitch Evenson +
 Company: Anna Beckman
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-155595
 Chain of Custody Number: _____
 Page 1 of 2
AS 12/4/18
 Temperature °C of Cooler: 20 26

Client		Client Project #		Preservative		Parameter		Matrix		 500-155595 COC	Preservative Key	
Project Name		Lab Project #		Sampling		# of Containers		Matrix			1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	Comments
Project Location/State		Lab PM		Date	Time							
Lab ID	MS/MSD	Sample ID										
Cedar Corp										PVOCS + naphthalene		
Olson Corners/Hannibal		Sandie Fredrick										
Hannibal, WI												
SAMPLER AMB + MEE												
1		mw-1	11/30/18	1110	3	W	X					
2		mw-2P		0900			X					
3		mw-3D		0950			X					
4		mw-4		1005			X					
5		mw-4P		1000			X					
6		mw-6		1030			X					
7		mw-6P		1045			X					
		mw-6D	No sample									
8		mw-7		1140			X					
9		mw-8P		1125			X					

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other

Sample Disposal

Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Anna Beckman</u>	Company <u>Cedar Corp</u>	Date <u>12/3/18</u>	Time <u>0800</u>	Received By <u>Steve Samur</u>	Company <u>TestAmerica</u>	Date <u>12/4/18</u>	Time <u>0930</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: _____
 Shipped: FX Priority
 Hand Delivered: _____

Matrix Key

WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments

PEEFA pricing

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: Mitch Evenson &
 Company: Anna Beckman
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-155595
 Chain of Custody Number: _____
 Page 2 of 2
 Temperature °C of Cooler: 2.6

Client		Client Project #		Preservative		Parameter		Comments	
<u>Cedar Corp</u>		-				<u>PEOCs + naphthalene</u>		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Sampling		Matrix		Comments	
<u>Olson Corners/Hannibal</u>									
Project Location/State		Lab PM		Date		Time		Comments	
<u>Hannibal, WI</u>		<u>Sandie Fredrick</u>							
Sampler		Sample ID		# of Containers		Matrix		Comments	
<u>AMB & MEE</u>									
Lab ID	MS/MSD	Date	Time	# of Containers	Matrix				
<u>10</u>		<u>11/30/18</u>	<u>0920</u>	<u>3</u>	<u>W</u>				
<u>11</u>			<u>0940</u>						
<u>12</u>			<u>1215</u>						
<u>13</u>			<u>1230</u>						
<u>14</u>			<u>1200</u>						
<u>15</u>			<u>1310</u>						
<u>16</u>			<u>1330</u>						
<u>17</u>		<u>↓</u>	<u>0830</u>	<u>↓</u>	<u>↓</u>				

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Anna Beckman</u>	Company <u>Cedar Corp</u>	Date <u>12/3/18</u>	Time <u>0800</u>	Received By <u>Wendy Jones</u>	Company <u>TAHA</u>	Date <u>12/4/18</u>	Time <u>0930</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: _____
 Shipped: EX Priority
 Hand Delivered: _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments
PECFA pricing

Lab Comments:

ORIGIN ID:RRLA (715) 235-9081
MITCH JOHNSON
CEDAR CORPORATION
604 WILSON AVE
MENOMONIE, WI 54751
UNITED STATES US

SHIP DATE: 10JUL18
ACTWGT: 25.00 LB MAN
CAD: 525155/CAFE3210

TO

STAMERICA CHICAGO
7 BOND STREET

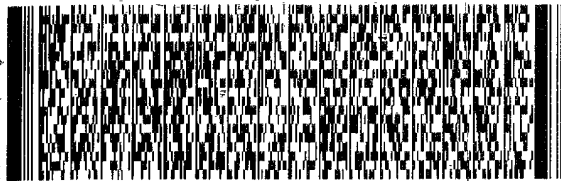
UNIVERSITY PARK IL 60484-3101

(708) 634-5200

REF:

DEPT:

RMA: ||| ||| ||| |||



FedEx
Express



J181118042001 BY

TRK
022

FedEx

TRK#
0221 7125 4938 3540

RETURNS MON-SAT
TUE - 04 DEC 10:30A
PRIORITY OVERNIGHT

GE JOTA

60484
IL-US
ORD



FID 888094 03DEC18 EAU 563C1/F1F/0C8A



500-155595 Wayt

COOLER RECEIPT FORM



500-155595 Chain of Custody

Cooler Received/Opened On 12-05-2018 @ 10:05

Time Samples Removed From Cooler 1124 Time Samples Placed In Storage 1144 (2 Hour Window)

1. Tracking # 0349 (last 4 digits, FedEx) Courier: FedEx
IR Gun ID 14740456 pH Strip Lot - Chlorine Strip Lot -

2. Temperature of rep. sample or temp blank when opened: 2.0 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES..NO...NA

If yes, how many and where: 1 (front)

5. Were the seals intact, signed, and dated correctly? YES...NO...NA Blank

6. Were custody papers inside cooler? YES..NO...NA Blank

I certify that I opened the cooler and answered questions 1-6 (initial) TR

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES..NO...NA

12. Did all container labels and tags agree with custody papers? YES..NO...NA

13a. Were VOA vials received? YES..NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA



14. Was there a Trip Blank in this cooler? YES..NO...NA If multiple coolers, sequence # 2.2

I certify that I unloaded the cooler and answered questions 7-14 (initial) TR

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES..NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) TR

17. Were custody papers properly filled out (ink, signed, etc)? YES..NO...NA

18. Did you sign the custody papers in the appropriate place? YES..NO...NA

19. Were correct containers used for the analysis requested? YES..NO...NA

20. Was sufficient amount of sample sent in each container? YES..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) TR

I certify that I attached a label with the unique LIMS number to each container (initial) TR

21. Were there Non-Conformance issues at login? YES...NO...# 0 Was a NCM generated? YES...NO...# 0

TestAmerica Chicago
 2417 Bond Street
 University Park, IL 60484
 Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

500-155595

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)
 Client Contact: Shipping/Receiving
 Lab PM: Fredrick, Sandie J
 E-Mail: sandie.fredrick@testamericainc.com
 State Program - Wisconsin
 Address: TestAmerica Laboratories, Inc
 2960 Foster Creighton Drive,
 Nashville
 State, Zip: TN, 37204
 Phone: 615-726-0177(Tel) 615-726-3404(Fax)
 Email:
 Project Name: Olson Corners/Hannibal
 Site:
 Project #: 50006556
 SSOW#:
 Due Date Requested: 12/14/2018
 TAT Requested (days):
 PO #:
 WO #:
 Accreditations Required (See note): State Program - Wisconsin

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=water, S=solid, O=wastewat, BT=leach, A=air)	Field Filtered Sample (Yes or No)	WI GRO/5030B (MOD) WISC PVOC + Nap	Analysis Requested	Total Number of Containers	Special Instructions/Note:
MW-1 (500-155595-1)	11/30/18	11:10 Central	Water	Water	X	X		3	
MW-2P (500-155595-2)	11/30/18	09:00 Central	Water	Water	X	X		3	
MW-3D (500-155595-3)	11/30/18	09:50 Central	Water	Water	X	X		3	
MW-4 (500-155595-4)	11/30/18	10:05 Central	Water	Water	X	X		3	
MW-4P (500-155595-5)	11/30/18	10:00 Central	Water	Water	X	X		3	
MW-6 (500-155595-6)	11/30/18	10:30 Central	Water	Water	X	X		3	
MW-6P (500-155595-7)	11/30/18	10:45 Central	Water	Water	X	X		3	
MW-7 (500-155595-8)	11/30/18	11:40 Central	Water	Water	X	X		3	
MW-8P (500-155595-9)	11/30/18	11:25 Central	Water	Water	X	X		3	

Note: Since laboratory accreditation is subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:
 Date: 12/14/18
 Date Time: 1600
 Received by: [Signature]
 Date Time: 12/14/18 16:05
 Company: TA
 Date Time: 12/14/18 16:05
 Company: TA
 Date Time: 12/14/18 16:05
 Company: TA
 Cooler Temperature(s) °C and Other Remarks: 2.0
 Ver: 09/20/2016



Chain of Custody Record

Loc: 500
 155595

Client Information (Sub Contract Lab)
 Client Contact: Fredrick, Sandie J
 Shipping/Receiving: sandie.fredrick@testamericainc.com
 Company: TestAmerica Laboratories, Inc
 Address: 2960 Foster Creighton Drive,
 City: Nashville
 State/Zip: TN, 37204
 Phone: 615-726-0177(Tel) 615-726-3404(Fax)
 Email:
 Project Name: Olson Corners/Hannibal
 Site:
 Due Date Requested: 12/14/2018
 TAT Requested (days):
 PO #:
 WO #:
 Project #: 50006556
 SSOW#:

Analysis Requested

Analysis Requested	Preservation Codes:
A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2OAS
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)
Other:	

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Priority M/S/SD (Yes or No)	WL GRO/503B (MOD) WISC PVC + Nap	Total Number of Containers	Special Instructions/Note:
MW-9 (500-155595-10)	11/30/18	09:20	Central	Water	X	X	X	3	
MW-10 (500-155595-11)	11/30/18	09:40	Central	Water	X	X	X	3	
MW-11 (500-155595-12)	11/30/18	12:15	Central	Water	X	X	X	3	
MW-12P (500-155595-13)	11/30/18	12:30	Central	Water	X	X	X	3	
MW-12D (500-155595-14)	11/30/18	12:00	Central	Water	X	X	X	3	
MW-13 (500-155595-15)	11/30/18	13:10	Central	Water	X	X	X	3	
MW-13D (500-155595-16)	11/30/18	13:30	Central	Water	X	X	X	3	
Webster (500-155595-17)	11/30/18	08:30	Central	Water	X	X	X	3	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. 1

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify)
 Primary Deliverable Rank: 2
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Empty Kit Relinquished by:
 Relinquished by: *[Signature]* Date: 12/14/18
 Relinquished by: *[Signature]* Date: 1/6/00
 Relinquished by: _____ Date/Time:
 Relinquished by: _____ Date/Time:
 Relinquished by: _____ Date/Time:
 Custody Seal No.: _____
 Δ Yes Δ No

Received by: *[Signature]* Date/Time: 12/05/18 10:05
 Received by: _____ Date/Time:
 Received by: _____ Date/Time:
 Cooler Temperature(s) °C and Other Remarks: Z-0



Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-155595-1

Login Number: 155595

List Source: TestAmerica Chicago

List Number: 1

Creator: Sanchez, Ariel M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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	2.6
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 containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	Refer to Job Narrative for details.
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-161417-1
Client Project/Site: Olson's Corner

For:
Cedar Corporation
604 Wilson Avenue
Menomonie, Wisconsin 54751

Attn: Mitch Evenson



Authorized for release by:
4/22/2019 12:47:49 PM

Sandie Fredrick, Project Manager II
(920)261-1660
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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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Case Narrative

Client: Cedar Corporation
Project/Site: Olson's Corner

Job ID: 500-161417-1

Job ID: 500-161417-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

**Job Narrative
500-161417-1**

Comments

No additional comments.

Receipt

The samples were received on 4/11/2019 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.1° C.

GC VOA

Method(s) WI-GRO: Surrogate recovery for the following samples were outside control limits: MW-1 (500-161417-1), MW-2P (500-161417-2) and MW-4 (500-161417-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) WI-GRO: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 490-588475/589042.

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

VOA Prep

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

Detection Summary

Client: Cedar Corporation
Project/Site: Olson's Corner

Job ID: 500-161417-1

Client Sample ID: MW-1

Lab Sample ID: 500-161417-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	250		0.50	0.30	ug/L	1		WDNR	Total/NA
1,3,5-Trimethylbenzene	45		0.50	0.30	ug/L	1		WDNR	Total/NA
Benzene	74		0.50	0.36	ug/L	1		WDNR	Total/NA
Ethylbenzene	520		2.5	1.9	ug/L	5		WDNR	Total/NA
Methyl tert-butyl ether	160		0.50	0.24	ug/L	1		WDNR	Total/NA
Naphthalene	130		5.0	2.4	ug/L	1		WDNR	Total/NA
Toluene	240		0.50	0.33	ug/L	1		WDNR	Total/NA
Xylenes, Total	1300		7.5	2.9	ug/L	5		WDNR	Total/NA

Client Sample ID: MW-2P

Lab Sample ID: 500-161417-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	160		0.50	0.30	ug/L	1		WDNR	Total/NA
1,3,5-Trimethylbenzene	91		0.50	0.30	ug/L	1		WDNR	Total/NA
Benzene	5700		10	7.2	ug/L	20		WDNR	Total/NA
Ethylbenzene	310		0.50	0.37	ug/L	1		WDNR	Total/NA
Methyl tert-butyl ether	300		0.50	0.24	ug/L	1		WDNR	Total/NA
Naphthalene	91		5.0	2.4	ug/L	1		WDNR	Total/NA
Toluene	180		0.50	0.33	ug/L	1		WDNR	Total/NA
Xylenes, Total	460		1.5	0.58	ug/L	1		WDNR	Total/NA

Client Sample ID: MW-3D

Lab Sample ID: 500-161417-3

No Detections.

Client Sample ID: MW-4

Lab Sample ID: 500-161417-4

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1500		10	6.0	ug/L	20		WDNR	Total/NA
1,3,5-Trimethylbenzene	1000		10	6.0	ug/L	20		WDNR	Total/NA
Benzene	4600		10	7.2	ug/L	20		WDNR	Total/NA
Ethylbenzene	1000		10	7.4	ug/L	20		WDNR	Total/NA
Methyl tert-butyl ether	130		10	4.8	ug/L	20		WDNR	Total/NA
Naphthalene	1400		100	48	ug/L	20		WDNR	Total/NA
Toluene	700		10	6.6	ug/L	20		WDNR	Total/NA
Xylenes, Total	2800		30	12	ug/L	20		WDNR	Total/NA

Client Sample ID: MW-4P

Lab Sample ID: 500-161417-5

No Detections.

Client Sample ID: MW-6

Lab Sample ID: 500-161417-6

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.41	J	0.50	0.36	ug/L	1		WDNR	Total/NA
Methyl tert-butyl ether	1.0		0.50	0.24	ug/L	1		WDNR	Total/NA
Xylenes, Total	3.2		1.5	0.58	ug/L	1		WDNR	Total/NA

Client Sample ID: MW-6P

Lab Sample ID: 500-161417-7

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2.9		0.50	0.30	ug/L	1		WDNR	Total/NA
1,3,5-Trimethylbenzene	1.1		0.50	0.30	ug/L	1		WDNR	Total/NA
Benzene	3.5		0.50	0.36	ug/L	1		WDNR	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Cedar Corporation
Project/Site: Olson's Corner

Job ID: 500-161417-1

Client Sample ID: MW-6P (Continued)

Lab Sample ID: 500-161417-7

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	6.5		0.50	0.37	ug/L	1		WDNR	Total/NA
Methyl tert-butyl ether	0.51		0.50	0.24	ug/L	1		WDNR	Total/NA
Naphthalene	63		5.0	2.4	ug/L	1		WDNR	Total/NA

Client Sample ID: MW-6D

Lab Sample ID: 500-161417-8

No Detections.

Client Sample ID: MW-7

Lab Sample ID: 500-161417-9

No Detections.

Client Sample ID: MW-8P

Lab Sample ID: 500-161417-10

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.31	J	0.50	0.30	ug/L	1		WDNR	Total/NA
Benzene	140		0.50	0.36	ug/L	1		WDNR	Total/NA
Ethylbenzene	120		0.50	0.37	ug/L	1		WDNR	Total/NA
Methyl tert-butyl ether	66		0.50	0.24	ug/L	1		WDNR	Total/NA
Naphthalene	6.0		5.0	2.4	ug/L	1		WDNR	Total/NA
Toluene	2.2		0.50	0.33	ug/L	1		WDNR	Total/NA
Xylenes, Total	4.3		1.5	0.58	ug/L	1		WDNR	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 500-161417-11

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.60		0.50	0.30	ug/L	1		WDNR	Total/NA

Client Sample ID: MW-11

Lab Sample ID: 500-161417-12

No Detections.

Client Sample ID: MW-12P

Lab Sample ID: 500-161417-13

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzene	8.3		0.50	0.36	ug/L	1		WDNR	Total/NA
Methyl tert-butyl ether	23		0.50	0.24	ug/L	1		WDNR	Total/NA

Client Sample ID: MW-12D

Lab Sample ID: 500-161417-14

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.34	J	0.50	0.24	ug/L	1		WDNR	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 500-161417-15

No Detections.

Client Sample ID: MW-13D

Lab Sample ID: 500-161417-16

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.43	J	0.50	0.24	ug/L	1		WDNR	Total/NA

Client Sample ID: Webster

Lab Sample ID: 500-161417-17

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Cedar Corporation
Project/Site: Olson's Corner

Job ID: 500-161417-1

Client Sample ID: Witkowski

Lab Sample ID: 500-161417-18

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	4.9		0.50	0.24	ug/L	1		WDNR	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-161417-19

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago



Method Summary

Client: Cedar Corporation
Project/Site: Olson's Corner

Job ID: 500-161417-1

Method	Method Description	Protocol	Laboratory
WDNR	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL NSH
5030B	Purge and Trap	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

TAL NSH = Eurofins TestAmerica, Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



Sample Summary

Client: Cedar Corporation
Project/Site: Olson's Corner

Job ID: 500-161417-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-161417-1	MW-1	Water	04/09/19 10:15	04/11/19 09:20
500-161417-2	MW-2P	Water	04/09/19 12:00	04/11/19 09:20
500-161417-3	MW-3D	Water	04/09/19 11:45	04/11/19 09:20
500-161417-4	MW-4	Water	04/09/19 12:30	04/11/19 09:20
500-161417-5	MW-4P	Water	04/09/19 12:15	04/11/19 09:20
500-161417-6	MW-6	Water	04/09/19 13:00	04/11/19 09:20
500-161417-7	MW-6P	Water	04/09/19 12:45	04/11/19 09:20
500-161417-8	MW-6D	Water	04/09/19 12:30	04/11/19 09:20
500-161417-9	MW-7	Water	04/09/19 10:45	04/11/19 09:20
500-161417-10	MW-8P	Water	04/09/19 10:30	04/11/19 09:20
500-161417-11	MW-10	Water	04/09/19 11:00	04/11/19 09:20
500-161417-12	MW-11	Water	04/09/19 11:15	04/11/19 09:20
500-161417-13	MW-12P	Water	04/09/19 11:30	04/11/19 09:20
500-161417-14	MW-12D	Water	04/09/19 11:00	04/11/19 09:20
500-161417-15	MW-13	Water	04/09/19 13:15	04/11/19 09:20
500-161417-16	MW-13D	Water	04/09/19 13:30	04/11/19 09:20
500-161417-17	Webster	Water	04/09/19 09:45	04/11/19 09:20
500-161417-18	Witkowski	Water	04/09/19 13:45	04/11/19 09:20
500-161417-19	Trip Blank	Water	04/09/19 00:00	04/11/19 09:20

Client Sample Results

Client: Cedar Corporation
Project/Site: Olson's Corner

Job ID: 500-161417-1

Client Sample ID: MW-1

Date Collected: 04/09/19 10:15

Date Received: 04/11/19 09:20

Lab Sample ID: 500-161417-1

Matrix: Water

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	250		0.50	0.30	ug/L			04/17/19 15:11	1
1,3,5-Trimethylbenzene	45		0.50	0.30	ug/L			04/17/19 15:11	1
Benzene	74		0.50	0.36	ug/L			04/17/19 15:11	1
Ethylbenzene	520		2.5	1.9	ug/L			04/18/19 22:58	5
Methyl tert-butyl ether	160		0.50	0.24	ug/L			04/17/19 15:11	1
Naphthalene	130		5.0	2.4	ug/L			04/17/19 15:11	1
Toluene	240		0.50	0.33	ug/L			04/17/19 15:11	1
Xylenes, Total	1300		7.5	2.9	ug/L			04/18/19 22:58	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	225	X	80 - 120					04/17/19 15:11	1
a,a,a-Trifluorotoluene	121	X	80 - 120					04/18/19 22:58	5

Client Sample ID: MW-2P

Date Collected: 04/09/19 12:00

Date Received: 04/11/19 09:20

Lab Sample ID: 500-161417-2

Matrix: Water

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	160		0.50	0.30	ug/L			04/17/19 15:42	1
1,3,5-Trimethylbenzene	91		0.50	0.30	ug/L			04/17/19 15:42	1
Benzene	5700		10	7.2	ug/L			04/19/19 10:00	20
Ethylbenzene	310		0.50	0.37	ug/L			04/17/19 15:42	1
Methyl tert-butyl ether	300		0.50	0.24	ug/L			04/17/19 15:42	1
Naphthalene	91		5.0	2.4	ug/L			04/17/19 15:42	1
Toluene	180		0.50	0.33	ug/L			04/17/19 15:42	1
Xylenes, Total	460		1.5	0.58	ug/L			04/17/19 15:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	234	X	80 - 120					04/17/19 15:42	1
a,a,a-Trifluorotoluene	90		80 - 120					04/19/19 10:00	20

Client Sample ID: MW-3D

Date Collected: 04/09/19 11:45

Date Received: 04/11/19 09:20

Lab Sample ID: 500-161417-3

Matrix: Water

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/18/19 11:59	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/18/19 11:59	1
Benzene	<0.36		0.50	0.36	ug/L			04/18/19 11:59	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			04/18/19 11:59	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			04/18/19 11:59	1
Naphthalene	<2.4		5.0	2.4	ug/L			04/18/19 11:59	1
Toluene	<0.33		0.50	0.33	ug/L			04/18/19 11:59	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			04/18/19 11:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	88		80 - 120					04/18/19 11:59	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Olson's Corner

Job ID: 500-161417-1

Client Sample ID: MW-4

Lab Sample ID: 500-161417-4

Date Collected: 04/09/19 12:30

Matrix: Water

Date Received: 04/11/19 09:20

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	1500		10	6.0	ug/L			04/18/19 08:29	20
1,3,5-Trimethylbenzene	1000		10	6.0	ug/L			04/18/19 08:29	20
Benzene	4600		10	7.2	ug/L			04/18/19 08:29	20
Ethylbenzene	1000		10	7.4	ug/L			04/18/19 08:29	20
Methyl tert-butyl ether	130		10	4.8	ug/L			04/18/19 08:29	20
Naphthalene	1400		100	48	ug/L			04/18/19 08:29	20
Toluene	700		10	6.6	ug/L			04/18/19 08:29	20
Xylenes, Total	2800		30	12	ug/L			04/18/19 08:29	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	121	X	80 - 120		04/18/19 08:29	20

Client Sample ID: MW-4P

Lab Sample ID: 500-161417-5

Date Collected: 04/09/19 12:15

Matrix: Water

Date Received: 04/11/19 09:20

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/18/19 20:53	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/18/19 20:53	1
Benzene	<0.36		0.50	0.36	ug/L			04/18/19 20:53	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			04/18/19 20:53	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			04/18/19 20:53	1
Naphthalene	<2.4		5.0	2.4	ug/L			04/18/19 20:53	1
Toluene	<0.33		0.50	0.33	ug/L			04/18/19 20:53	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			04/18/19 20:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	94		80 - 120		04/18/19 20:53	1

Client Sample ID: MW-6

Lab Sample ID: 500-161417-6

Date Collected: 04/09/19 13:00

Matrix: Water

Date Received: 04/11/19 09:20

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/18/19 21:24	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/18/19 21:24	1
Benzene	0.41	J	0.50	0.36	ug/L			04/18/19 21:24	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			04/18/19 21:24	1
Methyl tert-butyl ether	1.0		0.50	0.24	ug/L			04/18/19 21:24	1
Naphthalene	<2.4		5.0	2.4	ug/L			04/18/19 21:24	1
Toluene	<0.33		0.50	0.33	ug/L			04/18/19 21:24	1
Xylenes, Total	3.2		1.5	0.58	ug/L			04/18/19 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	92		80 - 120		04/18/19 21:24	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Olson's Corner

Job ID: 500-161417-1

Client Sample ID: MW-6P

Lab Sample ID: 500-161417-7

Date Collected: 04/09/19 12:45

Matrix: Water

Date Received: 04/11/19 09:20

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	2.9		0.50	0.30	ug/L			04/18/19 07:10	1
1,3,5-Trimethylbenzene	1.1		0.50	0.30	ug/L			04/18/19 07:10	1
Benzene	3.5		0.50	0.36	ug/L			04/18/19 07:10	1
Ethylbenzene	6.5		0.50	0.37	ug/L			04/18/19 07:10	1
Methyl tert-butyl ether	0.51		0.50	0.24	ug/L			04/18/19 07:10	1
Naphthalene	63		5.0	2.4	ug/L			04/18/19 07:10	1
Toluene	<0.33		0.50	0.33	ug/L			04/18/19 07:10	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			04/18/19 07:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		80 - 120		04/18/19 07:10	1

Client Sample ID: MW-6D

Lab Sample ID: 500-161417-8

Date Collected: 04/09/19 12:30

Matrix: Water

Date Received: 04/11/19 09:20

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/18/19 10:25	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/18/19 10:25	1
Benzene	<0.36		0.50	0.36	ug/L			04/18/19 10:25	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			04/18/19 10:25	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			04/18/19 10:25	1
Naphthalene	<2.4		5.0	2.4	ug/L			04/18/19 10:25	1
Toluene	<0.33		0.50	0.33	ug/L			04/18/19 10:25	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			04/18/19 10:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	88		80 - 120		04/18/19 10:25	1

Client Sample ID: MW-7

Lab Sample ID: 500-161417-9

Date Collected: 04/09/19 10:45

Matrix: Water

Date Received: 04/11/19 09:20

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/18/19 12:30	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/18/19 12:30	1
Benzene	<0.36		0.50	0.36	ug/L			04/18/19 12:30	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			04/18/19 12:30	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			04/18/19 12:30	1
Naphthalene	<2.4		5.0	2.4	ug/L			04/18/19 12:30	1
Toluene	<0.33		0.50	0.33	ug/L			04/18/19 12:30	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			04/18/19 12:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	82		80 - 120		04/18/19 12:30	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Olson's Corner

Job ID: 500-161417-1

Client Sample ID: MW-8P

Lab Sample ID: 500-161417-10

Date Collected: 04/09/19 10:30

Matrix: Water

Date Received: 04/11/19 09:20

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	0.31	J	0.50	0.30	ug/L			04/18/19 13:02	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/18/19 13:02	1
Benzene	140		0.50	0.36	ug/L			04/18/19 13:02	1
Ethylbenzene	120		0.50	0.37	ug/L			04/18/19 13:02	1
Methyl tert-butyl ether	66		0.50	0.24	ug/L			04/18/19 13:02	1
Naphthalene	6.0		5.0	2.4	ug/L			04/18/19 13:02	1
Toluene	2.2		0.50	0.33	ug/L			04/18/19 13:02	1
Xylenes, Total	4.3		1.5	0.58	ug/L			04/18/19 13:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	112		80 - 120		04/18/19 13:02	1

Client Sample ID: MW-10

Lab Sample ID: 500-161417-11

Date Collected: 04/09/19 11:00

Matrix: Water

Date Received: 04/11/19 09:20

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	0.60		0.50	0.30	ug/L			04/18/19 14:04	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/18/19 14:04	1
Benzene	<0.36		0.50	0.36	ug/L			04/18/19 14:04	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			04/18/19 14:04	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			04/18/19 14:04	1
Naphthalene	<2.4		5.0	2.4	ug/L			04/18/19 14:04	1
Toluene	<0.33		0.50	0.33	ug/L			04/18/19 14:04	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			04/18/19 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	87		80 - 120		04/18/19 14:04	1

Client Sample ID: MW-11

Lab Sample ID: 500-161417-12

Date Collected: 04/09/19 11:15

Matrix: Water

Date Received: 04/11/19 09:20

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/18/19 14:36	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/18/19 14:36	1
Benzene	<0.36		0.50	0.36	ug/L			04/18/19 14:36	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			04/18/19 14:36	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			04/18/19 14:36	1
Naphthalene	<2.4		5.0	2.4	ug/L			04/18/19 14:36	1
Toluene	<0.33		0.50	0.33	ug/L			04/18/19 14:36	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			04/18/19 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	80		80 - 120		04/18/19 14:36	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Olson's Corner

Job ID: 500-161417-1

Client Sample ID: MW-12P

Lab Sample ID: 500-161417-13

Date Collected: 04/09/19 11:30

Matrix: Water

Date Received: 04/11/19 09:20

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/18/19 15:07	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/18/19 15:07	1
Benzene	8.3		0.50	0.36	ug/L			04/18/19 15:07	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			04/18/19 15:07	1
Methyl tert-butyl ether	23		0.50	0.24	ug/L			04/18/19 15:07	1
Naphthalene	<2.4		5.0	2.4	ug/L			04/18/19 15:07	1
Toluene	<0.33		0.50	0.33	ug/L			04/18/19 15:07	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			04/18/19 15:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	101		80 - 120		04/18/19 15:07	1

Client Sample ID: MW-12D

Lab Sample ID: 500-161417-14

Date Collected: 04/09/19 11:00

Matrix: Water

Date Received: 04/11/19 09:20

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/18/19 15:39	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/18/19 15:39	1
Benzene	<0.36		0.50	0.36	ug/L			04/18/19 15:39	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			04/18/19 15:39	1
Methyl tert-butyl ether	0.34	J	0.50	0.24	ug/L			04/18/19 15:39	1
Naphthalene	<2.4		5.0	2.4	ug/L			04/18/19 15:39	1
Toluene	<0.33		0.50	0.33	ug/L			04/18/19 15:39	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			04/18/19 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	88		80 - 120		04/18/19 15:39	1

Client Sample ID: MW-13

Lab Sample ID: 500-161417-15

Date Collected: 04/09/19 13:15

Matrix: Water

Date Received: 04/11/19 09:20

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/18/19 16:10	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/18/19 16:10	1
Benzene	<0.36		0.50	0.36	ug/L			04/18/19 16:10	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			04/18/19 16:10	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			04/18/19 16:10	1
Naphthalene	<2.4		5.0	2.4	ug/L			04/18/19 16:10	1
Toluene	<0.33		0.50	0.33	ug/L			04/18/19 16:10	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			04/18/19 16:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	88		80 - 120		04/18/19 16:10	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Olson's Corner

Job ID: 500-161417-1

Client Sample ID: MW-13D

Lab Sample ID: 500-161417-16

Date Collected: 04/09/19 13:30

Matrix: Water

Date Received: 04/11/19 09:20

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/18/19 16:42	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/18/19 16:42	1
Benzene	<0.36		0.50	0.36	ug/L			04/18/19 16:42	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			04/18/19 16:42	1
Methyl tert-butyl ether	0.43	J	0.50	0.24	ug/L			04/18/19 16:42	1
Naphthalene	<2.4		5.0	2.4	ug/L			04/18/19 16:42	1
Toluene	<0.33		0.50	0.33	ug/L			04/18/19 16:42	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			04/18/19 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	81		80 - 120		04/18/19 16:42	1

Client Sample ID: Webster

Lab Sample ID: 500-161417-17

Date Collected: 04/09/19 09:45

Matrix: Water

Date Received: 04/11/19 09:20

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/18/19 17:13	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/18/19 17:13	1
Benzene	<0.36		0.50	0.36	ug/L			04/18/19 17:13	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			04/18/19 17:13	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			04/18/19 17:13	1
Naphthalene	<2.4		5.0	2.4	ug/L			04/18/19 17:13	1
Toluene	<0.33		0.50	0.33	ug/L			04/18/19 17:13	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			04/18/19 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	94		80 - 120		04/18/19 17:13	1

Client Sample ID: Witkowski

Lab Sample ID: 500-161417-18

Date Collected: 04/09/19 13:45

Matrix: Water

Date Received: 04/11/19 09:20

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/17/19 14:39	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/17/19 14:39	1
Benzene	<0.36		0.50	0.36	ug/L			04/17/19 14:39	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			04/17/19 14:39	1
Methyl tert-butyl ether	4.9		0.50	0.24	ug/L			04/17/19 14:39	1
Naphthalene	<2.4		5.0	2.4	ug/L			04/17/19 14:39	1
Toluene	<0.33		0.50	0.33	ug/L			04/17/19 14:39	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			04/17/19 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	95		80 - 120		04/17/19 14:39	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Olson's Corner

Job ID: 500-161417-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-161417-19

Date Collected: 04/09/19 00:00

Matrix: Water

Date Received: 04/11/19 09:20

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/19/19 16:06	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/19/19 16:06	1
Benzene	<0.36		0.50	0.36	ug/L			04/19/19 16:06	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			04/19/19 16:06	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			04/19/19 16:06	1
Naphthalene	<2.4		5.0	2.4	ug/L			04/19/19 16:06	1
Toluene	<0.33		0.50	0.33	ug/L			04/19/19 16:06	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			04/19/19 16:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	93		80 - 120					04/19/19 16:06	1

Definitions/Glossary

Client: Cedar Corporation
Project/Site: Olson's Corner

Job ID: 500-161417-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Reported value was between the limit of detection and the limit of quantitation.
X	Surrogate is outside control limits

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
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

QC Association Summary

Client: Cedar Corporation
Project/Site: Olson's Corner

Job ID: 500-161417-1

GC VOA

Analysis Batch: 588475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-161417-1	MW-1	Total/NA	Water	WDNR	
500-161417-1	MW-1	Total/NA	Water	WDNR	
500-161417-2	MW-2P	Total/NA	Water	WDNR	
500-161417-3	MW-3D	Total/NA	Water	WDNR	
500-161417-4	MW-4	Total/NA	Water	WDNR	
500-161417-5	MW-4P	Total/NA	Water	WDNR	
500-161417-6	MW-6	Total/NA	Water	WDNR	
500-161417-7	MW-6P	Total/NA	Water	WDNR	
500-161417-8	MW-6D	Total/NA	Water	WDNR	
500-161417-9	MW-7	Total/NA	Water	WDNR	
500-161417-10	MW-8P	Total/NA	Water	WDNR	
500-161417-11	MW-10	Total/NA	Water	WDNR	
500-161417-12	MW-11	Total/NA	Water	WDNR	
500-161417-13	MW-12P	Total/NA	Water	WDNR	
500-161417-14	MW-12D	Total/NA	Water	WDNR	
500-161417-15	MW-13	Total/NA	Water	WDNR	
500-161417-16	MW-13D	Total/NA	Water	WDNR	
500-161417-17	Webster	Total/NA	Water	WDNR	
500-161417-18	Witkowski	Total/NA	Water	WDNR	
MB 490-588475/35	Method Blank	Total/NA	Water	WDNR	
MB 490-588475/4	Method Blank	Total/NA	Water	WDNR	
LCS 490-588475/3	Lab Control Sample	Total/NA	Water	WDNR	
LCS 490-588475/34	Lab Control Sample	Total/NA	Water	WDNR	
LCSD 490-588475/30	Lab Control Sample Dup	Total/NA	Water	WDNR	
LCSD 490-588475/41	Lab Control Sample Dup	Total/NA	Water	WDNR	

Analysis Batch: 589042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-161417-2	MW-2P	Total/NA	Water	WDNR	
500-161417-19	Trip Blank	Total/NA	Water	WDNR	
MB 490-589042/16	Method Blank	Total/NA	Water	WDNR	
MB 490-589042/4	Method Blank	Total/NA	Water	WDNR	
LCS 490-589042/15	Lab Control Sample	Total/NA	Water	WDNR	
LCS 490-589042/3	Lab Control Sample	Total/NA	Water	WDNR	
LCSD 490-589042/11	Lab Control Sample Dup	Total/NA	Water	WDNR	
LCSD 490-589042/39	Lab Control Sample Dup	Total/NA	Water	WDNR	

Surrogate Summary

Client: Cedar Corporation
Project/Site: Olson's Corner

Job ID: 500-161417-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TFT (80-120)
500-161417-1	MW-1	121 X
500-161417-1	MW-1	225 X
500-161417-2	MW-2P	234 X
500-161417-2	MW-2P	90
500-161417-3	MW-3D	88
500-161417-4	MW-4	121 X
500-161417-5	MW-4P	94
500-161417-6	MW-6	92
500-161417-7	MW-6P	95
500-161417-8	MW-6D	88
500-161417-9	MW-7	82
500-161417-10	MW-8P	112
500-161417-11	MW-10	87
500-161417-12	MW-11	80
500-161417-13	MW-12P	101
500-161417-14	MW-12D	88
500-161417-15	MW-13	88
500-161417-16	MW-13D	81
500-161417-17	Webster	94
500-161417-18	Witkowski	95
500-161417-19	Trip Blank	93
LCS 490-588475/3	Lab Control Sample	87
LCS 490-588475/34	Lab Control Sample	96
LCS 490-589042/15	Lab Control Sample	87
LCS 490-589042/3	Lab Control Sample	93
LCSD 490-588475/30	Lab Control Sample Dup	90
LCSD 490-588475/41	Lab Control Sample Dup	88
LCSD 490-589042/11	Lab Control Sample Dup	95
LCSD 490-589042/39	Lab Control Sample Dup	95
MB 490-588475/35	Method Blank	95
MB 490-588475/4	Method Blank	94
MB 490-589042/16	Method Blank	92
MB 490-589042/4	Method Blank	92

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

QC Sample Results

Client: Cedar Corporation
Project/Site: Olson's Corner

Job ID: 500-161417-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: MB 490-588475/35
Matrix: Water
Analysis Batch: 588475

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/18/19 20:22	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/18/19 20:22	1
Benzene	<0.36		0.50	0.36	ug/L			04/18/19 20:22	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			04/18/19 20:22	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			04/18/19 20:22	1
Naphthalene	<2.4		5.0	2.4	ug/L			04/18/19 20:22	1
Toluene	<0.33		0.50	0.33	ug/L			04/18/19 20:22	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			04/18/19 20:22	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		80 - 120					04/18/19 20:22	1

Lab Sample ID: MB 490-588475/4
Matrix: Water
Analysis Batch: 588475

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/17/19 13:58	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/17/19 13:58	1
Benzene	<0.36		0.50	0.36	ug/L			04/17/19 13:58	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			04/17/19 13:58	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			04/17/19 13:58	1
Naphthalene	<2.4		5.0	2.4	ug/L			04/17/19 13:58	1
Toluene	<0.33		0.50	0.33	ug/L			04/17/19 13:58	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			04/17/19 13:58	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	94		80 - 120					04/17/19 13:58	1

Lab Sample ID: LCS 490-588475/3
Matrix: Water
Analysis Batch: 588475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trimethylbenzene	20.0	21.6		ug/L		108	70 - 130
Benzene	20.0	20.8		ug/L		104	69 - 129
Ethylbenzene	20.0	21.1		ug/L		106	70 - 130
Methyl tert-butyl ether	20.0	21.1		ug/L		105	57 - 138
m-Xylene & p-Xylene	40.0	43.0		ug/L		107	65 - 127
Naphthalene	20.0	21.2		ug/L		106	69 - 133
o-Xylene	20.0	21.2		ug/L		106	64 - 128
Toluene	20.0	21.0		ug/L		105	66 - 127
Xylenes, Total	60.0	64.2		ug/L		107	
Surrogate	%Recovery	LCS Qualifier	Limits				
a,a,a-Trifluorotoluene	87		80 - 120				

QC Sample Results

Client: Cedar Corporation
Project/Site: Olson's Corner

Job ID: 500-161417-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: LCS 490-588475/34
Matrix: Water
Analysis Batch: 588475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	20.0	18.9		ug/L		95	60 - 131
1,3,5-Trimethylbenzene	20.0	19.0		ug/L		95	70 - 130
Benzene	20.0	18.2		ug/L		91	69 - 129
Ethylbenzene	20.0	18.5		ug/L		92	70 - 130
Methyl tert-butyl ether	20.0	19.1		ug/L		95	57 - 138
m-Xylene & p-Xylene	40.0	37.8		ug/L		94	65 - 127
Naphthalene	20.0	20.1		ug/L		100	69 - 133
o-Xylene	20.0	18.7		ug/L		93	64 - 128
Toluene	20.0	18.5		ug/L		92	66 - 127
Xylenes, Total	60.0	56.5		ug/L		94	

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	96		80 - 120

Lab Sample ID: LCSD 490-588475/30
Matrix: Water
Analysis Batch: 588475

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	20.0	19.2		ug/L		96	60 - 131	12	43
1,3,5-Trimethylbenzene	20.0	19.2		ug/L		96	70 - 130	12	20
Benzene	20.0	18.8		ug/L		94	69 - 129	10	33
Ethylbenzene	20.0	18.9		ug/L		94	70 - 130	11	35
Methyl tert-butyl ether	20.0	19.8		ug/L		99	57 - 138	6	40
m-Xylene & p-Xylene	40.0	38.4		ug/L		96	65 - 127	11	39
Naphthalene	20.0	20.2		ug/L		101	69 - 133	5	48
o-Xylene	20.0	19.0		ug/L		95	64 - 128	11	35
Toluene	20.0	18.9		ug/L		95	66 - 127	10	34
Xylenes, Total	60.0	57.4		ug/L		96		11	

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene	90		80 - 120

Lab Sample ID: LCSD 490-588475/41
Matrix: Water
Analysis Batch: 588475

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	20.0	18.8		ug/L		94	60 - 131	1	43
1,3,5-Trimethylbenzene	20.0	18.7		ug/L		94	70 - 130	1	20
Benzene	20.0	18.0		ug/L		90	69 - 129	1	33
Ethylbenzene	20.0	18.5		ug/L		92	70 - 130	0	35
Methyl tert-butyl ether	20.0	18.3		ug/L		92	57 - 138	4	40
m-Xylene & p-Xylene	40.0	37.9		ug/L		95	65 - 127	0	39
Naphthalene	20.0	19.6		ug/L		98	69 - 133	3	48
o-Xylene	20.0	18.6		ug/L		93	64 - 128	0	35
Toluene	20.0	18.2		ug/L		91	66 - 127	1	34
Xylenes, Total	60.0	56.5		ug/L		94		0	

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Cedar Corporation
Project/Site: Olson's Corner

Job ID: 500-161417-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

<i>Surrogate</i>	<i>LCS</i>	<i>LCS</i>	<i>Limits</i>
<i>%Recovery</i>	<i>Qualifier</i>		
<i>a,a,a-Trifluorotoluene</i>	88		80 - 120

Lab Sample ID: MB 490-589042/16
Matrix: Water
Analysis Batch: 589042

Client Sample ID: Method Blank
Prep Type: Total/NA

<i>Analyte</i>	<i>MB</i>	<i>MB</i>	<i>LOQ</i>	<i>DL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
	<i>Result</i>	<i>Qualifier</i>							
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/19/19 15:35	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/19/19 15:35	1
Benzene	<0.36		0.50	0.36	ug/L			04/19/19 15:35	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			04/19/19 15:35	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			04/19/19 15:35	1
Naphthalene	<2.4		5.0	2.4	ug/L			04/19/19 15:35	1
Toluene	<0.33		0.50	0.33	ug/L			04/19/19 15:35	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			04/19/19 15:35	1

<i>Surrogate</i>	<i>MB</i>	<i>MB</i>	<i>Limits</i>
<i>%Recovery</i>	<i>Qualifier</i>		
<i>a,a,a-Trifluorotoluene</i>	92		80 - 120

Prepared **Analyzed** **Dil Fac**
04/19/19 15:35 1

Lab Sample ID: MB 490-589042/4
Matrix: Water
Analysis Batch: 589042

Client Sample ID: Method Blank
Prep Type: Total/NA

<i>Analyte</i>	<i>MB</i>	<i>MB</i>	<i>LOQ</i>	<i>DL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
	<i>Result</i>	<i>Qualifier</i>							
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/19/19 08:51	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			04/19/19 08:51	1
Benzene	<0.36		0.50	0.36	ug/L			04/19/19 08:51	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			04/19/19 08:51	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			04/19/19 08:51	1
Naphthalene	<2.4		5.0	2.4	ug/L			04/19/19 08:51	1
Toluene	<0.33		0.50	0.33	ug/L			04/19/19 08:51	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			04/19/19 08:51	1

<i>Surrogate</i>	<i>MB</i>	<i>MB</i>	<i>Limits</i>
<i>%Recovery</i>	<i>Qualifier</i>		
<i>a,a,a-Trifluorotoluene</i>	92		80 - 120

Prepared **Analyzed** **Dil Fac**
04/19/19 08:51 1

Lab Sample ID: LCS 490-589042/15
Matrix: Water
Analysis Batch: 589042

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

<i>Analyte</i>	<i>Spike</i>	<i>LCS</i>	<i>LCS</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i>
	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>				<i>Limits</i>
1,2,4-Trimethylbenzene	20.0	18.6		ug/L		93	60 - 131
1,3,5-Trimethylbenzene	20.0	18.6		ug/L		93	70 - 130
Benzene	20.0	17.8		ug/L		89	69 - 129
Ethylbenzene	20.0	18.0		ug/L		90	70 - 130
Methyl tert-butyl ether	20.0	17.8		ug/L		89	57 - 138
m-Xylene & p-Xylene	40.0	36.9		ug/L		92	65 - 127
Naphthalene	20.0	18.2		ug/L		91	69 - 133
o-Xylene	20.0	18.2		ug/L		91	64 - 128
Toluene	20.0	18.0		ug/L		90	66 - 127
Xylenes, Total	60.0	55.1		ug/L		92	

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Cedar Corporation
Project/Site: Olson's Corner

Job ID: 500-161417-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>a,a,a-Trifluorotoluene</i>	87		80 - 120

Lab Sample ID: LCS 490-589042/3
Matrix: Water
Analysis Batch: 589042

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	20.0	18.8		ug/L		94	60 - 131
1,3,5-Trimethylbenzene	20.0	18.8		ug/L		94	70 - 130
Benzene	20.0	18.0		ug/L		90	69 - 129
Ethylbenzene	20.0	18.2		ug/L		91	70 - 130
Methyl tert-butyl ether	20.0	18.4		ug/L		92	57 - 138
m-Xylene & p-Xylene	40.0	37.2		ug/L		93	65 - 127
Naphthalene	20.0	18.7		ug/L		94	69 - 133
o-Xylene	20.0	18.4		ug/L		92	64 - 128
Toluene	20.0	18.1		ug/L		91	66 - 127
Xylenes, Total	60.0	55.6		ug/L		93	

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>a,a,a-Trifluorotoluene</i>	93		80 - 120

Lab Sample ID: LCSD 490-589042/11
Matrix: Water
Analysis Batch: 589042

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	20.0	18.7		ug/L		94	60 - 131	0	43
1,3,5-Trimethylbenzene	20.0	18.7		ug/L		94	70 - 130	0	20
Benzene	20.0	18.0		ug/L		90	69 - 129	0	33
Ethylbenzene	20.0	18.1		ug/L		91	70 - 130	0	35
Methyl tert-butyl ether	20.0	18.7		ug/L		94	57 - 138	2	40
m-Xylene & p-Xylene	40.0	37.2		ug/L		93	65 - 127	0	39
Naphthalene	20.0	18.8		ug/L		94	69 - 133	0	48
o-Xylene	20.0	18.4		ug/L		92	64 - 128	0	35
Toluene	20.0	18.1		ug/L		90	66 - 127	0	34
Xylenes, Total	60.0	55.6		ug/L		93		0	

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>a,a,a-Trifluorotoluene</i>	95		80 - 120

Lab Sample ID: LCSD 490-589042/39
Matrix: Water
Analysis Batch: 589042

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	20.0	19.2		ug/L		96	60 - 131	3	43
1,3,5-Trimethylbenzene	20.0	19.3		ug/L		96	70 - 130	4	20
Benzene	20.0	18.2		ug/L		91	69 - 129	3	33
Ethylbenzene	20.0	18.5		ug/L		92	70 - 130	2	35
Methyl tert-butyl ether	20.0	18.5		ug/L		92	57 - 138	4	40
m-Xylene & p-Xylene	40.0	38.3		ug/L		96	65 - 127	4	39

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Cedar Corporation
 Project/Site: Olson's Corner

Job ID: 500-161417-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: LCSD 490-589042/39

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 589042

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	20.0	18.2		ug/L		91	69 - 133	0	48
o-Xylene	20.0	18.9		ug/L		94	64 - 128	4	35
Toluene	20.0	18.6		ug/L		93	66 - 127	3	34
Xylenes, Total	60.0	57.2		ug/L		95		4	

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>a,a,a-Trifluorotoluene</i>	95		80 - 120



Lab Chronicle

Client: Cedar Corporation
Project/Site: Olson's Corner

Job ID: 500-161417-1

Client Sample ID: MW-1

Date Collected: 04/09/19 10:15

Date Received: 04/11/19 09:20

Lab Sample ID: 500-161417-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	588475	04/17/19 15:11	S1S	TAL NSH
Total/NA	Analysis	WDNR		5	588475	04/18/19 22:58	S1S	TAL NSH

Client Sample ID: MW-2P

Date Collected: 04/09/19 12:00

Date Received: 04/11/19 09:20

Lab Sample ID: 500-161417-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	588475	04/17/19 15:42	S1S	TAL NSH
Total/NA	Analysis	WDNR		20	589042	04/19/19 10:00	GWM	TAL NSH

Client Sample ID: MW-3D

Date Collected: 04/09/19 11:45

Date Received: 04/11/19 09:20

Lab Sample ID: 500-161417-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	588475	04/18/19 11:59	S1S	TAL NSH

Client Sample ID: MW-4

Date Collected: 04/09/19 12:30

Date Received: 04/11/19 09:20

Lab Sample ID: 500-161417-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		20	588475	04/18/19 08:29	S1S	TAL NSH

Client Sample ID: MW-4P

Date Collected: 04/09/19 12:15

Date Received: 04/11/19 09:20

Lab Sample ID: 500-161417-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	588475	04/18/19 20:53	S1S	TAL NSH

Client Sample ID: MW-6

Date Collected: 04/09/19 13:00

Date Received: 04/11/19 09:20

Lab Sample ID: 500-161417-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	588475	04/18/19 21:24	S1S	TAL NSH

Client Sample ID: MW-6P

Date Collected: 04/09/19 12:45

Date Received: 04/11/19 09:20

Lab Sample ID: 500-161417-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	588475	04/18/19 07:10	S1S	TAL NSH

Lab Chronicle

Client: Cedar Corporation
Project/Site: Olson's Corner

Job ID: 500-161417-1

Client Sample ID: MW-6D

Date Collected: 04/09/19 12:30

Date Received: 04/11/19 09:20

Lab Sample ID: 500-161417-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	588475	04/18/19 10:25	S1S	TAL NSH

Client Sample ID: MW-7

Date Collected: 04/09/19 10:45

Date Received: 04/11/19 09:20

Lab Sample ID: 500-161417-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	588475	04/18/19 12:30	S1S	TAL NSH

Client Sample ID: MW-8P

Date Collected: 04/09/19 10:30

Date Received: 04/11/19 09:20

Lab Sample ID: 500-161417-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	588475	04/18/19 13:02	S1S	TAL NSH

Client Sample ID: MW-10

Date Collected: 04/09/19 11:00

Date Received: 04/11/19 09:20

Lab Sample ID: 500-161417-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	588475	04/18/19 14:04	S1S	TAL NSH

Client Sample ID: MW-11

Date Collected: 04/09/19 11:15

Date Received: 04/11/19 09:20

Lab Sample ID: 500-161417-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	588475	04/18/19 14:36	S1S	TAL NSH

Client Sample ID: MW-12P

Date Collected: 04/09/19 11:30

Date Received: 04/11/19 09:20

Lab Sample ID: 500-161417-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	588475	04/18/19 15:07	S1S	TAL NSH

Client Sample ID: MW-12D

Date Collected: 04/09/19 11:00

Date Received: 04/11/19 09:20

Lab Sample ID: 500-161417-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	588475	04/18/19 15:39	S1S	TAL NSH

Eurofins TestAmerica, Chicago

Lab Chronicle

Client: Cedar Corporation
Project/Site: Olson's Corner

Job ID: 500-161417-1

Client Sample ID: MW-13

Date Collected: 04/09/19 13:15

Date Received: 04/11/19 09:20

Lab Sample ID: 500-161417-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	588475	04/18/19 16:10	S1S	TAL NSH

Client Sample ID: MW-13D

Date Collected: 04/09/19 13:30

Date Received: 04/11/19 09:20

Lab Sample ID: 500-161417-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	588475	04/18/19 16:42	S1S	TAL NSH

Client Sample ID: Webster

Date Collected: 04/09/19 09:45

Date Received: 04/11/19 09:20

Lab Sample ID: 500-161417-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	588475	04/18/19 17:13	S1S	TAL NSH

Client Sample ID: Witkowski

Date Collected: 04/09/19 13:45

Date Received: 04/11/19 09:20

Lab Sample ID: 500-161417-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	588475	04/17/19 14:39	S1S	TAL NSH

Client Sample ID: Trip Blank

Date Collected: 04/09/19 00:00

Date Received: 04/11/19 09:20

Lab Sample ID: 500-161417-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	589042	04/19/19 16:06	GWM	TAL NSH

Laboratory References:

TAL NSH = Eurofins TestAmerica, Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

Client: Cedar Corporation
Project/Site: Olson's Corner

Job ID: 500-161417-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-19

Laboratory: Eurofins TestAmerica, Nashville

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

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	ISO/IEC 17025		0453.07	12-31-19
Alaska (UST)	State Program	10	UST-087	06-30-19
Arizona	State Program	9	AZ0473	05-05-19
Arkansas DEQ	State Program	6	88-0737	04-25-20
California	State Program	9	2938	06-30-19
Connecticut	State Program	1	PH-0220	12-31-19
Florida	NELAP	4	E87358	06-30-19
Georgia	State Program	4	NA: NELAP & A2LA	12-31-19
Illinois	NELAP	5	200010	12-09-19
Iowa	State Program	7	131	04-01-20
Kansas	NELAP	7	E-10229	10-31-19
Kentucky (UST)	State Program	4	19	06-30-19
Kentucky (WW)	State Program	4	90038	12-31-19
Louisiana	NELAP	6	30613	06-30-19
Maine	State Program	1	TN00032	11-03-19
Maryland	State Program	3	316	03-31-20
Massachusetts	State Program	1	M-TN032	06-30-19
Minnesota	NELAP	5	047-999-345	12-31-19
Mississippi	State Program	4	N/A	06-30-19
Nevada	State Program	9	TN00032	07-31-19
New Hampshire	NELAP	1	2963	10-09-19
New Jersey	NELAP	2	TN965	06-30-19
New York	NELAP	2	11342	03-31-20
North Carolina (WW/SW)	State Program	4	387	12-31-19
North Dakota	State Program	8	R-146	06-30-19
Ohio VAP	State Program	5	CL0033	07-06-19
Oklahoma	State Program	6	9412	08-31-19
Oregon	NELAP	10	TN200001	04-26-19
Pennsylvania	NELAP	3	68-00585	07-31-19
Rhode Island	State Program	1	LAO00268	12-30-19
South Carolina	State Program	4	84009 (001)	02-28-19 *
Tennessee	State Program	4	2008	02-23-20
Texas	NELAP	6	T104704077	08-31-19
USDA	Federal		P330-13-00306	04-10-20
Utah	NELAP	8	TN00032	07-31-19
Virginia	NELAP	3	460152	06-14-19
Washington	State Program	10	C789	07-19-19
West Virginia DEP	State Program	3	219	02-28-19 *
Wisconsin	State Program	5	998020430	08-31-19
Wyoming (UST)	A2LA	8	453.07	12-31-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 6048
Phone: 708.534.5200 Fax: 708.534.5



500-161417 COC

Report To (optional)
Contact: Mitch Evenson + Anna Beckman
Company: Anna Beckman
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-161417
Chain of Custody Number: _____
Page 1 of 2
Temperature °C of Cooler: 5.1

Client		Client Project #		Preservative		Parameter		Preservative Key
Project Name		Project Location/State		Lab Project #		Lab PM		
<u>Cedar Corp</u>		<u>Olson's Corner</u>		<u>Hannibal, WI</u>		<u>Sandie Fredrick</u>		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
<u>AMB</u>		<u>Sandie Fredrick</u>						
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix		Comments
<u>1</u>		<u>mw-1</u>	<u>4/9/19</u>	<u>1015</u>	<u>2</u>	<u>W</u>	<u>X</u>	
<u>2</u>		<u>mw-2P</u>		<u>1200</u>				
<u>3</u>		<u>mw-3D</u>		<u>1145</u>				
<u>4</u>		<u>mw-4</u>		<u>1230</u>				
<u>5</u>		<u>mw-4P</u>		<u>1215</u>				
<u>6</u>		<u>mw-6</u>		<u>1300</u>				
<u>7</u>		<u>mw-6P</u>		<u>1245</u>				
<u>8</u>		<u>mw-6D</u>		<u>1230</u>				
<u>9</u>		<u>mw-7</u>		<u>1045</u>				
<u>10</u>		<u>mw-8P</u>		<u>1030</u>				

Turnaround Time Required (Business Days)
 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Anna Beckman</u> Company <u>Cedar</u>	Date <u>4/10/19</u>	Time <u>0800</u>	Received By <u>Shirley Smith</u> Company <u>TA-CORP</u>	Date <u>4/11/19</u>	Time <u>0920</u>
Relinquished By	Date	Time	Received By	Date	Time
Relinquished By	Date	Time	Received By	Date	Time

Lab Courier: _____
 Shipped: FedEx
 Hand Delivered: _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments
PECFA pricing

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: Mitch Evenson + Anna Beckman
Company: Anna Beckman
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-16147
Chain of Custody Number: _____
Page 2 of 2
Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter	Matrix	# of Containers	Matrix	Comments
Project Name		Lab Project #		Sampling						
Project Location/State		Lab PM		Date	Time					
<u>Cedar Corp</u>		<u>Olson's Corner</u>		<u>4/9/19</u>		<u>1100</u>	<u>2</u>	<u>W</u>	<u>X</u>	
<u>Hannibal, WI</u>		<u>Sandie Fredrick</u>								
<u>AMB</u>										
Lab ID	MS/MSD	Sample ID								
<u>11</u>		<u>mw-10</u>								
<u>12</u>		<u>mw-11</u>								
<u>13</u>		<u>mw-12P</u>								
<u>14</u>		<u>mw-12D</u>								
<u>15</u>		<u>mw-13</u>								
<u>16</u>		<u>mw-13D</u>								
<u>17</u>		<u>Webster</u>								
<u>18</u>		<u>W. + Kowski</u>								
<u>19</u>		<u>Trip Blank</u>								

- Preservative Key
1. HCL, Cool to 4°
 2. H2SO4, Cool to 4°
 3. HNO3, Cool to 4°
 4. NaOH, Cool to 4°
 5. NaOH/Zn, Cool to 4°
 6. NaHSO4
 7. Cool to 4°
 8. None
 9. Other

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Anna Beckman Cedar</u>	Company <u>Cedar</u>	Date <u>4/10/19</u>	Time <u>0800</u>	Received By <u>Anna Beckman Cedar</u>	Company <u>Cedar</u>	Date <u>4/10/19</u>	Time <u>0920</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: _____
Shipped: Fed X
Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments:
PECFA pricing

Lab Comments:



500-161417 Waybill

ORIGIN ID:PHDA (715) 235-9081
MITCH EVENSON
CEDAR CORPORATION
604 WILSON AVENUE

SHIP DATE: 18JAN19
ACTWGT: 10.00 LB MAN
CAD: 0562071/CAFE3211

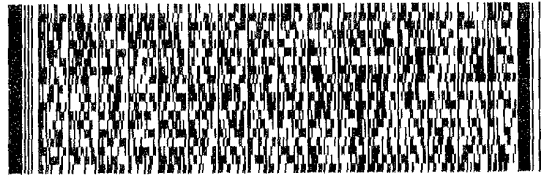
MENOMONIE, WI 54751
UNITED STATES US

TO: **SAMPLE RECEIVING**
TESTAMERICA CHICAGO
2417 BOND STREET

UNIVERSITY PARK IL 604843101

(708) 534-6200
REF: S500-69149

RMA: ||| ||| |||



FedEx
Express



FedEx

TRK#
0221 4761 6868 3166

THU - 11 APR 10:30A
PRIORITY OVERNIGHT

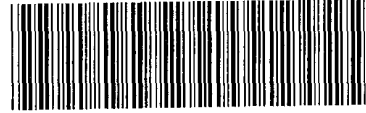
GE JOTA

60484
IL-US
ORD



FTD 162427 10APR19 EAUA 563C1/07E5/0C8A

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



COOLER RECEIPT FORM

Cooler Received/Opened On 04-13-2019 @ 09:00

Time Samples Removed From Cooler 1000 Time Samples Placed In Storage 1250 (2 Hour Window)

1. Tracking # 4810 (last 4 digits, FedEx) Courier: FedEx
IR Gun ID 31470368 pH Strip Lot _____ Chlorine Strip Lot _____

2. Temperature of rep. sample or temp blank when opened: 3.0 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 (front)

5. Were the seals intact, signed, and dated correctly? YES...NO...NA Blank

6. Were custody papers inside cooler? YES...NO...NA ED

I certify that I opened the cooler and answered questions 1-6 (initial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA



14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) d. d

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used? YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) d. d

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) d. d

I certify that I attached a label with the unique LIMS number to each container (initial) d. d

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO..# _____

Eurofins TestAmerica, Chicago
 2417 Bond Street
 University Park, IL 60484
 Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

500-161417

eurofins Environment Testing
 TestAmerica

Client Information (Sub Contract Lab)
 Client Contact: Lab Piv: Fredrick, Sandie
 Shipping/Receiving: Phone: E-Mail: sandie.fredrick@testamericainc.com
 Company: TestAmerica Laboratories, Inc. Address: 2960 Foster Creighton Drive, Nashville, TN, 37204
 PO #: 615-726-0177(Tel) 615-726-3404(Fax)
 Project Name: General Projects
 Project #: 50006556
 SOW#:
 State: Wisconsin

Due Date Requested: 4/23/2019
 TAT Requested (days):
 Accreditations Required (See note): State Program - Wisconsin
 Job #: 500-161417-1
 Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 Other:
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4-5
 Z - other (specify)

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, G=grab)	Field Filtered Sample (Yes or No)	WI_GRO/5030B (MOD) WISC PVCOC + Nap	Analysis Requested	Total Number of Containers	Special Instructions/Note:
MW-1 (500-161417-1)	4/9/19	10:15 Central	Water	Water	X	X		2	
MW-2P (500-161417-2)	4/9/19	12:00 Central	Water	Water	X	X		2	
MW-3D (500-161417-3)	4/9/19	11:45 Central	Water	Water	X	X		2	
MW-4 (500-161417-4)	4/9/19	12:30 Central	Water	Water	X	X		2	
MW-4P (500-161417-5)	4/9/19	12:15 Central	Water	Water	X	X		2	
MW-6 (500-161417-6)	4/9/19	13:00 Central	Water	Water	X	X		2	
MW-6P (500-161417-7)	4/9/19	12:45 Central	Water	Water	X	X		2	
MW-6D (500-161417-8)	4/9/19	12:30 Central	Water	Water	X	X		2	
MW-7 (500-161417-9)	4/9/19	10:45 Central	Water	Water	X	X		2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other (instructions will be provided). Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify)
 Primary Deliverable Rank: 2
 Special Instructions/QC Requirements:
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Empty Kit Relinquished by: _____ Date: 4/11/19
 Relinquished by: _____ Date: 4/13/19
 Relinquished by: _____ Date: _____
 Relinquished by: _____ Date: _____
 Custody Seals Intact: Yes No
 Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: 3,0

Chain of Custody Record

Loc: 500
161417

Environment Testing
 TestAmerica

Client Information (Sub Contract Lab)		Lab P/N: Fredrick, Sandie	Carrier Tracking No(s): 42.2						
Client Contact: Shipping/Receiving		E-Mail: sandie.fredrick@testamericainc.com	State of Origin: Wisconsin						
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Wisconsin							
Address: 2960 Foster Creighton Drive, Nashville, TN, 37204		Job #: 500-161417-1							
Phone: 615-726-0177(Tel) 615-726-3404(Fax)		Preservation Codes: M - Hexane N - None O - AsnO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 L - EDA Other:							
Due Date Requested: 4/23/2019		Analysis Requested:							
TAT Requested (days):									
PO #:									
WO #:									
Project #:									
General Projects: 50006556									
Site:									
SSOW#:									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, B=BI-Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	WI_GRO/5030B (MOD) WISC PVCOC + Nap	Total Number of Containers	Special Instructions/Note:
MW-8P (500-161417-10)	4/9/19	10:30 Central		Water	X	X	X	2	
MW-10 (500-161417-11)	4/9/19	11:00 Central		Water	X	X	X	2	
MW-11 (500-161417-12)	4/9/19	11:15 Central		Water	X	X	X	2	
MW-12P (500-161417-13)	4/9/19	11:30 Central		Water	X	X	X	2	
MW-12D (500-161417-14)	4/9/19	11:00 Central		Water	X	X	X	2	
MW-13 (500-161417-15)	4/9/19	13:15 Central		Water	X	X	X	2	
MW-13D (500-161417-16)	4/9/19	13:30 Central		Water	X	X	X	2	
Webster (500-161417-17)	4/9/19	09:45 Central		Water	X	X	X	2	
Wirkowski (500-161417-18)	4/9/19	13:45 Central		Water	X	X	X	2	
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. 1									
Possible Hazard Identification									
Unconfirmed									
Deliverable Requested: I, II, III, IV, Other (specify)									
Primary Deliverable Rank: 2									
Special Instructions/QC Requirements:									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Empty Kit Reinquished by:									
Date: 4/11/19									
Reinquished by: [Signature]									
Date/Time: 4/11/19 16:20									
Company: AA									
Received by: [Signature]									
Date/Time: 4/13/19 09:00									
Company: TA-VAS									
Received by:									
Date/Time:									
Company:									
Received by:									
Date/Time:									
Company:									
Cooler Temperature(s) °C and Other Remarks: 3, D									
Custody Seal No.: Δ Yes Δ No									



Chain of Custody Record

Loc: 500
161417

eurofins

Environment Testing
 TestAmerica

Client Information (Sub Contract Lab)
 Client Contact: Shipping/Receiving
 Company: TestAmerica Laboratories, Inc.
 Address: 2960 Foster Creighton Drive, Nashville, TN, 37204
 Phone: 615-726-0177(Tel) 615-726-3404(Fax)
 Email: sandie.fredrick@testamericainc.com

Sampler: Fredrick, Sandie
 Lab PM: Fredrick, Sandie
 Carrier Track: Wisconsin
 State of Orig: Wisconsin

QC No: 00-119642.3
 Page: 3 of 3
 Job #: 500-161417-1

Due Date Requested: 4/23/2019
 TAT Requested (days):
 PO #: WO #:
 Project #: 50006556
 SSOW#:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	WI_GRO/503B (MOD) WISC PVOC + Nap	Analysis Requested	Preservation Codes:	Total Number of Containers	Special Instructions/Note:
Trip Blank (500-161417-19)	4/9/19	Central		Water	X		X		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	1	

Note: Since laboratory accreditations are subject to changes, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify)
 Primary Deliverable Rank: 2
 Special Instructions/QC Requirements:

Empty Kit Relinquished by: [Signature]
 Date: 4/11/19
 Relinquished by: [Signature]
 Date: 4/13/19
 Relinquished by: [Signature]
 Date: 4/13/19

Received by: [Signature]
 Date/Time: 4/13/19 09:00
 Company: TA-NAS

Received by: [Signature]
 Date/Time: [Blank]
 Company: [Blank]

Received by: [Signature]
 Date/Time: [Blank]
 Company: [Blank]

Cooler Temperature(s) °C and Other Remarks: 3.0

Custody Seal No.:
 Δ Yes Δ No



Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-161417-1

Login Number: 161417

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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	5.1
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 containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Table 1: Groundwater Analytical Data
Perrys Corner
Hannibal, WI

Results reported in ug/L		Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	Total TMB	Xylenes	
Wis Adm. Code NR140, Table 1 PAL		0.5	140	12	10	160	96	400	
Wis Adm. Code NR140, Table 1 ES		5	700	60	100	800	480	2000	
Monitoring Well	Sample Date								
MW-3	05/31/07	110	4.40	<0.50	<0.25	0.61	0.49	2.50	
	08/15/07	100	3.80	<0.23	<0.5	0.79	1.14	3.20	
	10/23/07	64	2.10	<0.23	<0.5	1.10	<0.44	2.20	
	1/9/2008	190	6	<0.23	<0.5	1	0.24	5.5	
	3/25/2009	220	8.4	<1.2	<2.5	<1.2	<2.15	6.8	
	6/1/2009	230	16	<0.50	1.7	2.6	22.3	6.3	
	4/15/2010	310	36	<0.92	<2	3.1	<1.76	8.3	
	7/14/2010	330	66	<0.92	<2.0	6.8	<1.76	8.9	
	10/6/2010	420	160	<1.2	130	540	560	2,300	
	6/3/2011	200	330	<0.23	69	300	434	1,200	
	10/4/2011	130	570	<2.3	67	67	540	950	
	4/24/2012	161	475	94.5	115	26.5	264	655	
	5/16/2013	110	370	110	190	13	610	1,700	
	10/14/2013	180	360	67	61	7.1	480	350	
	6/23/2015	28	120	32	20	4.7	63	88	
	11/19/2015	60	62	98	94	13	396	310	
	4/7/2016	19	84	48	48	6.5	23.8	70	
	8/25/2016	4.9	35	16	17	2.7	38.8	49	
	11/30/2018		Well Destroyed						
4/9/2019		Well Destroyed							
MW-3D	4/15/2010	<0.25	<0.25	<0.25	<0.25	0.49	<0.25	<0.25	
	7/14/2010	<0.25	<0.22	<0.23	<0.50	0.83	<0.44	<0.39	
	10/6/2010	<0.25	<0.22	<0.23	<0.50	1.7	<0.44	<0.39	
	6/3/2011	0.43	0.41	4.7	3.7	1.60	1.06	2	
	10/4/2011	0.26	<0.22	1.7	<0.50	1.7	<0.44	<0.39	
	4/24/2012	0.44	0.49	0.37	<2.5	0.51	0.72	0.36	
	5/16/2013	0.7	<0.37	0.86	<2.4	<0.33	<0.60	<0.58	
	10/14/2013	<0.36	<0.37	0.87	<2.4	<0.33	<0.67	<0.58	
	6/23/2015		Not Sampled						
	11/19/2015		Not Sampled						
	4/7/2016		Not Sampled						
	8/25/2016		Not Sampled						
	11/30/2018	<0.36	<0.37	<0.24	<2.4	<0.33	<0.30	<0.58	
4/9/2019	<0.36	<0.37	<0.24	<2.4	<0.33	<0.30	<0.58		
MW-4	05/31/07	5000	2,100	<40	580	86	760	1,700	
	08/15/07	4300	3,700	<23	1,800	340	10,100	7,500	
	10/23/07	4700	1,800	<9.2	790	330	2,680	3,900	
	1/9/2008	4400	1,500	<9.2	650	250	1910	3200	
	3/25/2009	2000	910	<9.2	490	240	1430	2300	
	6/1/2009	3200	1400	<25	440	240	1590	3200	
	4/15/2010		FREE PRODUCT						
	7/14/2010		FREE PRODUCT						
	10/6/2010		FREE PRODUCT						
	6/3/2011	2500	880	<0.23	450	340	1,680	3,100	
	10/4/2011		FREE PRODUCT						
	4/24/2012	3340	1,580	200	840	393	2,422	4,210	
	5/16/2013		FREE PRODUCT						
	10/14/2013	4200	710	38	550	920	2100	2700	
	6/23/2015	6300	1300	46	570	1700	2150	3900	
	11/19/2015	3300	540	72	1000	710	1520	2100	
	4/7/2016	2900	490	98	1100	530	1380	2100	
8/25/2016	4500	770	74	970	890	1460	2400		
11/30/2018	5000	580	80	670	490	1130	1700		
4/9/2019	4600	1000	130	1400	700	2500	2800		

Table 1: Groundwater Analytical Data
Perrys Corner
Hannibal, WI

Results reported in ug/L		Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	Total TMB	Xylenes
Wis Adm. Code NR140, Table 1 PAL		0.5	140	12	10	160	96	400
Wis Adm. Code NR140, Table 1 ES		5	700	60	100	800	480	2000
Monitoring Well	Sample Date							
MW-4P	3/25/2009	180	110	0.77	26	9.3	4.7	8.5
	6/1/2009	980	560	<0.50	93	35	13.9	29
	4/15/2010	290	34	<0.92	6.5	9.4	<1.76	4.1
	7/14/2010	470	120	<0.92	17	15	<1.76	5
	10/6/2010	300	150	<0.92	38	8.9	<1.76	3.2
	6/3/2011	190	86	<0.23	19	3.50	0.35	2.40
	10/4/2011	780	260	<0.46	69	25	7.4	44
	4/24/2012	737	223	100	38.5	16	3.1	24.7
	5/16/2013	1600	210	130	41	21	6.8	23
	10/14/2013	920	350	21	59	28	14.3	53
	6/23/2015	1700	460	13	47	41	11	81
	11/19/2015	140	63	16	20	17	9.3	17
	4/7/2016	32	11	2.3	4.9	3.2	0.86	4.2
	8/25/2016	360	280	81	98	30	73	230
	11/30/2018	800	1400	34	150	43	123	210
	4/9/2019	<0.36	<0.37	<0.24	<2.4	<0.33	<0.30	<0.58
MW-5	05/31/07	13000	2,700	<100	590	35,000	2,630	17,000
	08/15/07	12000	2,600	<46	670	31,000	2,360	15,000
	10/23/07	10000	2,700	<92	630	31,000	2,420	16,000
	1/9/2008	13000	2500	<400	740	35000	2150	15,000
	6/1/2009	11000	3000	<2.0	700	38000	2500	18,000
	4/15/2010	9700	2800	<46	800	34000	3960	20,000
	7/12/2010	Not Sampled						
MW-6	05/31/07	<0.20	<0.50	<0.50	1.20	0.25	0.27	0.53
	08/15/07	0.45	0.29	<0.23	2.20	0.13	<0.44	0.44
	10/23/07	1	<0.22	<0.23	2.20	<0.11	0.19	0.45
	1/9/2008							
	6/1/2009	NS	NS	NS	NS	NS	NS	NS
	4/15/2010	3.2	0.26	<0.23	<0.50	<0.25	<0.44	<0.39
	7/13/2010	2.3	<0.22	<0.23	<0.50	<0.25	<0.44	<0.39
	10/6/2010	2.4	0.27	<0.23	<0.50	<0.25	<0.44	<0.39
	6/3/2011							
	10/4/2011	3.3	3.1	<0.23	6.2	<0.25	<0.44	0.54
	4/24/2012	<0.25	5.73	0.33	11	<0.25	<0.50	0.88
	5/16/2013	26	2.4	<0.24	44	<0.33	1.9	<0.58
	10/14/2013	3.7	5.5	1.2	44	<0.33	5.4	<0.58
	6/23/2015	11	5.4	<0.24	20	<0.33	<0.60	<0.58
	11/19/2015	3	6.7	0.42	91	<0.33	5.9	<0.58
	4/7/2016	2.3	3.9	<0.24	74	<0.33	2	<0.58
8/25/2016	2.1	4.2	<0.24	62	<0.33	4.4	<0.58	
11/30/2018	6.1	9.6	1.7 J	48	<1.7	<1.5	<1.9	
4/9/2019	0.41 J	<0.37	1	<2.4	<0.33	<0.30	3.2	

Table 1: Groundwater Analytical Data
Perrys Corner
Hannibal, WI

Results reported in ug/L		Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	Total TMB	Xylenes
Wis Adm. Code NR140, Table 1 PAL		0.5	140	12	10	160	96	400
Wis Adm. Code NR140, Table 1 ES		5	700	60	100	800	480	2000
Monitoring Well	Sample Date							
MW-6P	3/25/2009	820	1.4	5.6	2.2	2.6	2.6	18
	6/1/2009	7.9	<0.50	11	<0.25	<0.50	<0.40	<0.50
	4/15/2010	330	<0.88	13	<2	<1	<1.76	<1.6
	7/13/2010	57	<0.22	8.3	<0.50	<0.25	<0.44	<0.39
	10/6/2010	3.9	<0.22	7.3	<0.50	<0.25	<0.44	<0.39
	6/3/2011							
	10/4/2011	100	<0.22	<0.23	<0.50	<0.25	<0.44	<0.39
	4/24/2012	1060	<0.50	36.8	<2.5	1.9	<0.50	<0.25
	5/16/2013	40	<0.37	0.36	<2.4	<0.33	<0.60	<0.58
	10/14/2013	73	<0.37	2.8	<2.4	<0.33	0.6	<0.58
	6/23/2015	6	<0.37	0.98	<2.4	<0.33	<0.60	<0.58
	11/19/2015	5.4	<0.37	0.35	<2.4	<0.33	<0.60	<0.58
	4/7/2016	<0.36	<0.37	<0.24	<2.4	<0.33	<0.60	<0.58
	8/25/2016	2.5	<0.37	0.7	<2.4	<0.33	<0.60	<0.58
	11/30/2018	<0.36	<0.37	<0.24	<2.4	<0.33	<0.30	<0.58
	4/9/2019	3.5	6.5	0.51	63	<0.33	4	<0.58
MW-6D	4/15/2010	26	<0.22	0.57	0.57	<0.25	1.1	<0.39
	7/13/2010	9.7	<0.22	0.55	<0.50	0.57	<0.44	<0.39
	10/6/2010	8.6	<0.22	0.52	<0.50	0.56	<0.44	<0.39
	6/3/2011							
	10/4/2011	11	<0.22	1.3	<0.50	0.54	<0.44	<0.39
	4/24/2012	2.52	0.29	0.69	<2.5	<0.25	0.32	0.26
	5/16/2013	<0.36	<0.37	0.81	<2.4	<0.33	<0.60	<0.58
	10/14/2013	<0.36	<0.37	2.1	<2.4	<0.33	<0.60	<0.58
	6/23/2015	Not Sampled						
	11/19/2015	Not Sampled						
	4/7/2016	Not Sampled						
	8/25/2016	Not Sampled						
	11/30/2018	Not Sampled; under parked car						
4/9/2019	<0.36	<0.37	<0.24	<2.4	<0.33	<0.30	<0.58	
MW-7	5/31/2007	0.28	<0.50	<0.50	<0.25	<0.20	<0.40	<0.50
	8/15/2007	0.54	<0.22	<0.23	<0.50	<0.11	<0.44	<0.39
	10/23/2007	<0.25	<0.22	<0.23	<0.50	<0.11	<0.44	<0.39
	1/9/2008	0.48	<0.22	<0.23	<0.50	<0.11	<0.44	<0.39
	6/1/2009	NS	NS	NS	NS	NS	NS	NS
	4/15/2010	<0.25	<0.22	<0.23	<0.50	<0.25	<0.44	<0.39
	7/13/2010	<0.25	<0.22	<0.23	<0.50	<0.25	<0.44	<0.39
	10/6/2010	<0.25	<0.22	<0.23	<0.50	<0.25	<0.44	<0.39
	6/3/2011	0.69	<0.22	0.63	1.2	<0.25	<0.44	<0.39
	10/4/2011	<0.25	<0.22	<0.23	<0.50	<0.25	<0.44	<0.39
	4/24/2012	<0.25	<0.25	<0.25	<2.5	<0.25	<0.50	<0.25
	5/16/2013	<0.36	<0.37	<0.24	<2.4	<0.33	<0.60	<0.58
	10/14/2013	<0.36	<0.37	2.4	<2.4	<0.33	<0.60	<0.58
	6/23/2015	Not Sampled						
	11/19/2015	Not Sampled						
	4/7/2016	Not Sampled						
	8/25/2016	Not Sampled						
11/30/2018	<0.36	<0.37	<0.24	<2.4	<0.33	<0.30	<0.58	
4/9/2019	<0.36	<0.37	<0.24	<2.4	<0.33	<0.30	<0.58	

Table 1: Groundwater Analytical Data
Perrys Corner
Hannibal, WI

Results reported in ug/L		Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	Total TMB	Xylenes
Wis Adm. Code NR140, Table 1 PAL		0.5	140	12	10	160	96	400
Wis Adm. Code NR140, Table 1 ES		5	700	60	100	800	480	2000
Monitoring Well	Sample Date							
MW-8P	05/31/07	3600	160	22.00	2.80	27	6.40	15
	08/15/07	3500	<8.8	29.00	<20	9.20	<17.6	<16
	10/23/07	5000	480	<9.2	61	62	31.00	34
	1/9/2008	3900	5.7	26	1	11	1.66	5.8
	3/25/2009	3400	<18	26	98	<20	<35	<1.9
	6/1/2009	5900	170	<20	24	51	13.2	<20
	4/15/2010	6400	350	<23	53	63	<44	54
	7/13/2010	5700	430	<0.92	16	69	14.2	57
	10/6/2010	4200	63	<0.23	13	52	10.9	45
	6/3/2011	890	3.70	6.40	0.72	3.10	0.29	2
	10/4/2011	1400	11	11	4.9	6	<3.5	8.8
	4/24/2012	4700	9.25	289	3.89	14.3	0.67	4.4
	5/16/2013	5200	77	120	3.1	15	0.96	5.8
	10/14/2013	4600	8.7	260	<2.4	15	<0.60	3.4
	6/23/2015	5200	530	68	20	14	46	170
	11/19/2015	620	380	510	6.4	14	7.5	34
	4/7/2016	2600	120	<0.24	<2.4	7.2	<0.60	8
	8/25/2016	2500	140	<0.24	<2.4	7.9	<0.60	5.8
	11/30/2018	13	<0.37	1.8	<2.4	<0.33	<0.30	<0.58
4/9/2019	140	120	66	6	2.2	0.31 J	4.3	
MW-9	10/23/07	<0.20	<0.50	<0.50	<0.25	<0.20	<0.40	<0.50
	1/9/2008	<0.25	<0.22	<0.23	<0.50	<0.11	<0.44	<0.39
	6/1/2009	NS	NS	NS	NS	NS	NS	NS
	4/15/2010	<0.25	<0.22	<0.23	<0.50	<0.25	<0.44	<0.39
	7/13/2010	<0.25	<0.22	<0.23	<0.50	<0.25	<0.44	<0.39
	10/6/2010	<0.25	<0.22	<0.23	<0.50	<0.25	<0.44	<0.39
	6/3/2011	0.28	<0.22	1.7	<0.50	<0.25	<0.44	<0.39
	10/4/2011	<0.25	<0.22	<0.23	<0.50	<0.25	<0.44	<0.39
	4/24/2012	<0.25	<0.25	<0.25	<2.5	<0.25	<0.50	<0.25
	5/16/2013	<0.36	<0.37	0.53	<2.4	<0.33	0.4	<0.58
	10/14/2013	<0.36	<0.37	0.61	<2.4	<0.33	<0.60	<0.58
	6/23/2015	Not Sampled						
	11/19/2015	Not Sampled						
	4/7/2016	Not Sampled						
8/25/2016	Not Sampled							
11/30/2018	<0.36	<0.37	<0.24	<2.4	<0.33	<0.30	<0.58	
4/9/2019	Not Sampled							
MW-10	10/23/07	<0.20	<0.50	<0.50	<0.25	<0.20	<0.40	<0.50
	1/9/2008	0.41	<0.22	<0.23	<0.50	<0.11	<0.44	<0.39
	6/1/2009	NS	NS	NS	NS	NS	NS	NS
	4/15/2010	<0.25	<0.22	<0.23	<0.50	<0.11	<0.44	<0.39
	7/13/2010	<0.25	<0.22	<0.23	<0.50	<0.11	<0.44	<0.39
	10/6/2010	<0.25	<0.22	<0.23	<0.50	<0.11	<0.44	<0.39
	6/3/2011	<0.25	<0.22	1.3	<0.50	<0.11	<0.44	<0.39
	10/4/2011	<0.25	<0.22	<0.23	<0.50	<0.25	<0.44	<0.39
	4/24/2012	<0.25	<0.25	<0.25	<2.5	<0.25	<0.50	<0.25
	5/16/2013	<0.36	<0.37	<0.24	<2.4	<0.33	<0.60	<0.58
	10/14/2013	<0.36	<0.37	1.7	<2.4	<0.33	<0.60	<0.58
	6/23/2015	Not Sampled						
	11/19/2015	Not Sampled						
	4/7/2016	Not Sampled						
8/25/2016	Not Sampled							
11/30/2018	<0.36	<0.37	<0.24	<2.4	<0.33	<0.30	<0.58	
4/9/2019	<0.36	<0.37	<0.24	<2.4	<0.33	0.6	<0.58	

Table 1: Groundwater Analytical Data
Perrys Corner
Hannibal, WI

Results reported in ug/L		Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	Total TMB	Xylenes
Wis Adm. Code NR140, Table 1 PAL		0.5	140	12	10	160	96	400
Wis Adm. Code NR140, Table 1 ES		5	700	60	100	800	480	2000
Monitoring Well	Sample Date							
MW-11	10/23/07	<0.20	<0.50	<0.50	<0.25	<0.20	<0.40	<0.50
	1/9/2008	<0.25	<0.22	<0.23	<0.50	<0.11	<0.44	<0.39
	6/1/2009	NS	NS	NS	NS	NS	NS	NS
	4/15/2010	<0.25	<0.22	<0.23	<0.50	<0.25	<0.44	<0.39
	7/13/2010	<0.25	<0.22	<0.23	<0.50	<0.25	<0.44	<0.39
	10/6/2010	<0.25	<0.22	<0.23	<0.50	<0.25	<0.44	<0.39
	6/3/2011	<0.25	<0.22	1.4	<0.50	<0.11	<0.44	<0.39
	10/4/2011	<0.25	<0.22	0.99	<0.50	<0.25	<0.44	<0.39
	4/24/2012	<0.25	<0.25	<0.25	<2.5	<0.25	<0.50	<0.25
	5/16/2013	<0.36	<0.37	<0.24	<2.4	<0.33	<0.60	<0.58
	10/14/2013	<0.36	<0.37	0.49	<2.4	<0.33	<0.60	<0.58
	6/23/2015	Not Sampled						
	11/19/2015	Not Sampled						
	4/7/2016	Not Sampled						
8/25/2016	Not Sampled							
11/30/2018	<0.36	<0.37	<0.24	<2.4	<0.33	<0.33	<0.58	
4/9/2019	<0.36	<0.37	<0.24	<2.4	<0.33	<0.30	<0.58	
MW-12P	10/23/07	1800	<2.0	22	<1.0	6.60	<0.80	4.70
	1/9/2008	1500	<0.22	22	<0.50	4.2	0.85	4.7
	3/25/2009	820	<2.2	10	<5.0	<0.25	<4.4	<3.9
	6/1/2009	660	<0.50	7.2	<0.25	0.94	16.1	1.4
	4/15/2010	1000	<4.4	<4.6	<10	7.2	<8.8	<7.8
	7/13/2010	960	<2.2	<2.3	<5.0	<.25	<0.44	<0.39
	10/6/2010	940	19	<0.23	<0.50	5.9	3.3	8.5
	6/3/2011	460	38	<0.92	3	5.4	<0.44	5
	10/4/2011	390	51	<0.92	9.5	4.2	<1.76	4.9
	4/24/2012	<0.25	26.8	36.1	<2.5	<0.25	1.13	1.2
	5/16/2013	23	<0.37	11	<2.4	0.48	<0.60	<0.58
	10/14/2013	17	1.1	15	<2.4	0.69	0.43	0.79
	6/23/2015	110	0.58	33	<2.4	0.41	<0.60	1.2
	11/19/2015	210	1.2	65	4.1	1.1	0.45	2
4/7/2016	320	0.91	63	<2.4	0.81	<0.60	<0.58	
8/25/2016	360	0.57	64	<2.4	0.94	<0.60	0.99	
11/30/2018	11	<0.37	7.4	<2.4	<0.33	<0.30	<0.58	
4/9/2019	8.3	<0.37	23	<2.4	<0.33	<0.30	<0.58	
MW-12D	4/15/2010	3.5	<0.22	<0.23	<0.50	<0.25	<0.44	<0.39
	7/13/2010	27	<0.22	0.79	<0.50	<0.25	<0.44	<0.39
	10/6/2010	0.36	<0.22	0.64	<0.50	<0.25	<0.44	<0.39
	6/3/2011	<0.25	<0.22	2.2	<0.50	<0.25	<0.44	<0.39
	10/4/2011	<0.25	<0.22	2.7	<0.50	<0.25	<0.44	<0.39
	4/24/2012	<0.25	<0.25	0.48	<2.5	<0.25	<0.50	<0.25
	5/16/2013	1.3	<0.37	0.26	<2.4	<0.33	<0.60	<0.58
	10/14/2013	<0.36	<0.37	2	<2.4	<0.33	<0.60	<0.58
	6/23/2015	<0.36	<0.37	<0.24	<2.4	<0.33	<0.60	<0.58
	11/19/2015	<0.36	<0.37	<0.24	<2.4	<0.33	0.53	1.2
	4/7/2016	<0.36	<0.37	<0.24	<2.4	<0.33	<0.60	<0.58
8/25/2016	<0.36	<0.37	0.29	<2.4	<0.33	<0.60	<0.58	
11/30/2018	<0.36	<0.37	0.49 J	<2.4	<0.33	<0.30	<0.58	
4/9/2019	<0.36	<0.37	0.34 J	<2.4	<0.33	<0.30	<0.58	

Table 1: Groundwater Analytical Data
Perrys Corner
Hannibal, WI

Results reported in ug/L		Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	Total TMB	Xylenes	
Wis Adm. Code NR140, Table 1 PAL		0.5	140	12	10	160	96	400	
Wis Adm. Code NR140, Table 1 ES		5	700	60	100	800	480	2000	
Monitoring Well	Sample Date								
MW-13	4/15/2010	<0.25	<0.22	<0.23	<0.50	<0.25	<0.44	<0.39	
	7/13/2010	<0.25	<0.22	<0.23	<0.50	<0.25	<0.44	<0.39	
	10/6/2010	<0.25	<0.22	<0.23	<0.50	<0.25	<0.44	<0.39	
	6/3/2011	<0.25	<0.22	3.4	<0.50	<0.25	<0.44	<0.39	
	10/4/2011	<0.25	<0.22	1	<0.50	<0.25	<0.44	<0.39	
	4/24/2012	<0.25	<0.25	<0.25	<2.5	<0.25	<0.50	<0.25	
	5/16/2013	<0.36	<0.37	<0.24	<2.4	<0.33	<0.60	<0.58	
	10/14/2013	<0.36	<0.37	3.4	<2.4	<0.33	<0.60	<0.58	
	6/23/2015	Not Sampled							
	11/19/2015	Not Sampled							
	4/7/2016	Not Sampled							
	8/25/2016	Not Sampled							
	11/30/2018	<0.36	<0.37	<0.24	<2.4	<0.33	<0.30	<0.58	
	4/9/2019	<0.36	<0.37	<0.24	<2.4	<0.33	<0.30	<0.58	
MW-13D	4/15/2010	0.69	<0.22	2.2	<0.50	<0.25	<0.44	<0.39	
	7/13/2010	2.7	<0.22	2.1	<0.50	0.26	<0.44	<0.39	
	10/6/2010	0.83	<0.22	1.9	<0.50	0.29	<0.44	<0.39	
	6/3/2011	0.36	<0.22	2.2	<0.50	<0.25	1.2	<0.39	
	10/4/2011	0.97	<0.22	3.6	<0.50	0.29	<0.44	<0.39	
	4/24/2012	<0.25	<0.25	1.65	<2.5	0.27	<0.50	<0.25	
	5/16/2013	<0.36	<0.37	0.82	<2.4	<0.33	<0.60	<0.58	
	10/14/2013	<0.36	<0.37	3.2	<2.4	<0.33	<0.60	<0.58	
	6/23/2015	Not Sampled							
	11/19/2015	Not Sampled							
	4/7/2016	Not Sampled							
	8/25/2016	Not Sampled							
	11/30/2018	<0.36	<0.37	0.57	<2.4	<0.33	<0.30	<0.58	
	4/9/2019	<0.36	<0.37	0.43 J	<2.4	<0.33	<0.30	<0.58	
N. Sump	10/6/2010	Not Sampled							
	6/3/2011	Not Sampled							
	10/4/2011	Not Sampled							
	4/24/2012	Not Sampled							
	5/16/2013	Not Sampled							
	10/14/2013	Not Sampled							
	6/23/2015	<0.36	<0.37	<0.24	<2.4	<0.33	<0.60	<0.58	
	11/19/2015	Not Sampled							
	4/7/2016	Not Sampled							
	8/25/2016	Not Sampled							
	11/30/2018	Not Sampled							
	4/9/2019	Not Sampled							
	S. Sump	10/6/2010	Not Sampled						
		6/3/2011	Not Sampled						
10/4/2011		Not Sampled							
4/24/2012		Not Sampled							
5/16/2013		Not Sampled							
10/14/2013		Not Sampled							
6/23/2015		60	18	<0.24	<2.4	1.3	6.8	50	
11/19/2015		Not Sampled							
4/7/2016		Not Sampled							
8/25/2016		Not Sampled							
11/30/2018		Not Sampled							
4/9/2019		Not Sampled							

Table 1: Groundwater Analytical Data
Perrys Corner
Hannibal, WI

Results reported in ug/L		Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	Total TMB	Xylenes
Wis Adm. Code NR140, Table 1 PAL		<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>
Wis Adm. Code NR140, Table 1 ES		5	700	60	100	800	480	2000
Monitoring Well	Sample Date							
Olson's Well	3/25/2009	<0.25	<0.22	<0.23	<0.50	<0.25	<0.44	<0.39
	6/1/2009	<0.20	<0.50	<0.50	<0.25	<0.50	<0.40	<0.50
	4/15/2010	<0.25	<0.22	<0.23	<0.50	<0.25	<0.44	<0.39
	7/13/2010	<0.25	<0.22	<0.23	<0.50	<0.25	<0.44	<0.39
	10/6/2010	<0.25	<0.22	<0.23	<0.50	<0.25	<0.44	<0.39
	10/4/2011	<0.25	<0.22	<0.23	<0.50	<0.25	<0.44	<0.39
	4/24/2012	<0.25	<0.25	<0.25	<2.5	<0.25	<0.50	<0.25
	5/16/2013	<0.36	<0.37	<0.24	<2.4	<0.33	<0.60	<0.58
	6/23/2015	<0.36	<0.37	<0.24	<2.4	<0.33	<0.60	<0.58
4/7/2016	<0.36	<0.37	<0.24	<2.4	<0.33	<0.60	<0.58	
Webster Well	6/1/2016	<0.15	<0.18	<0.39	<0.34	<0.15	<0.61	<0.22
	10/31/2016	<0.15	<0.18	<0.39	<0.34	<0.15	<0.61	<0.22
	11/30/2018	<0.36	<0.37	<0.24	<2.4	<0.33	<0.30	<0.58
	4/9/2019	<0.36	<0.37	<0.24	<2.4	<0.33	<0.30	<0.58
Witkowski's Well	3/25/2009	65	<0.22	1.9	<0.50	<0.25	<0.44	<0.39
	6/1/2009	69	<0.50	1.6	<0.25	<0.50	<0.40	<0.50
	4/15/2010	77	<0.22	2.2	<0.50	<0.25	<0.44	<0.39
	7/13/2010	19	<0.22	2.0	<0.50	<0.25	<0.44	<0.39
	10/6/2010	60	<0.22	2.0	<0.50	<0.25	<0.44	<0.39
	10/4/2011	61	<0.22	5	<0.50	<0.25	<0.44	<0.39
	4/24/2012	55.5	<0.25	2.45	<2.5	<0.25	<0.50	<0.25
	5/16/2013	72	<0.37	2.7	<2.4	<0.33	<0.60	<0.58
	6/23/2015	23	<0.37	3.4	<2.4	<0.33	<0.60	<0.58
	4/7/2016	18	<0.37	2.7	<2.4	<0.33	<0.60	<0.58
11/30/2018	Not Sampled							
4/9/2019	<0.36	<0.37	4.9	<2.4	<0.33	<0.30	<0.58	

ug/L = micrograms per liter = ppb = parts per billion

J = reported value was between the limit of detection and the limit of quantitation

Italic Numbers indicate a concentration above PAL outlined in NR 140.10

Bold Numbers indicate a concentration above ES outlined in NR 140.10