09-49-580451

Shafel, Kathleen S - DNR

From: Richard, Philip E - DNR
Sent: Friday, November 03, 2017 2:34 PM
To: Shafel, Kathleen S - DNR
Subject: RE: 01-49-580461 FW: Mork's Big Lake Store - Osceola

Kathleen,

I have reviewed the TSSA report for Mork's Big Lake Store. Soil sample results show no detects for PVOCS and naphthalene. Based on this, a NAR determination is applicable for the site.

Let me know if you need anything else.

Thanks

Philip E. Richard
Hydrogeologist
Wisconsin Department of Natural Resources
Phone: 715 762 1352
Fax: 715 762 4348
philip.richard@wisconsin.gov

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.


dnr.wi.gov

From: Shafel, Kathleen S - DNR
Sent: Wednesday, November 01, 2017 2:49 PM
To: Richard, Philip E - DNR <Philip.Richard@wisconsin.gov>
Subject: 01-49-580461 FW: Mork's Big Lake Store - Osceola

Hi Phil – here is a TSSA report Notification for a property in Osceola, Polk Co. This is assigned Pending # 01-49-580451.

Let me know of developments.

Thanks,
We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Kathleen Shafel
Phone: (715) 623-4190 x 3127
Kathleen.Shafel@wisconsin.gov

From: Matt Taylor [mailto:matt.taylor@cedarcorp.com]
Sent: Wednesday, November 01, 2017 9:27 AM
To: DNR RR NOR <DNRRRNOR@wisconsin.gov>
Subject: Mork's Big Lake Store - Osceola

Attached is the TSSA report for Mork's Big Lake Store at 1838 60th Ave, Osceola (Town of Alden), Polk Co. No detections of contaminants in any samples. Please feel free to contact me if there are any questions.

Matt Taylor, P.G.
Professional Hydrogeologist
Cedar Corporation
604 Wilson Avenue | Menomonie | WI | 54751
Office: 715-235-9081 | TF: 800-472-7372
matt.taylor@cedarcorp.com
www.cedarcorp.com | LinkedIn | Facebook | Twitter

From: Matt Taylor <matt.taylor@cedarcorp.com>
Sent: Wednesday, November 01, 2017 9:27 AM
To: DNR RR NOR
Subject: 01-49-580451 Mork's Big Lake Store - Osceola
Attachments: Morks Big Lake Store TSSA.pdf

Attached is the TSSA report for Mork's Big Lake Store at 1838 60th Ave, Osceola (Town of Alden), Polk Co. No detections of contaminants in any samples. Please feel free to contact me if there are any questions.

Matt Taylor, P.G.
Professional Hydrogeologist
Cedar Corporation
604 Wilson Avenue | Menomonie | WI | 54751
Office: 715-235-9081 | TF: 800-472-7372
matt.taylor@cedarcorp.com
www.cedarcorp.com | LinkedIn | Facebook | Twitter

TR-WM-140 (04/15)
Formerly ERS-8951 (R. 07/13)

Part B – To be completed by environmental professional

Submit original Part B to the WDNR along with a copy of Part A

I. TANK-SYSTEM SITE ASSESSMENT (TSSA)

Site Name: Marks Big Lake Store

Address: 1838 60th Ave., Osceola

Note: Site name and address must match with Part A Section 1.

To determine if a TSSA is required, see ATCP 93 and section II part B of *ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS.*

If a TSSA is required, then follow the procedures detailed in *ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS.*

1. Site Information

a. Has there been a previously documented release at this site? ☒ Y ☐ N

If yes, provide the DATCP # _____, or DNR BRRT's # 03-49-000709.

b. Number of active tanks[1] at facility prior to completion of current services USTs 2 ASTs _____.

(NOTE 1: Do not include previously closed systems or system components.)

c. Excavation/trench dimensions (in feet). (Photos must be provided.)

EXCAVATION/TRENCH #	LENGTH	WIDTH	DEPTH
Tank bed	8	14	8

2. Visual Excavation/Trench Inspection (Photos must be provided for "Yes" responses, except item b.)

Do any of the following conditions exist in or about the excavation(s)?

a. Stained soils: ☐ Y ☒ N b. Petroleum odor: ☐ Y ☒ N c. Water In excavation/trench: ☐ Y ☒ N

d. Free product in the excavation/trench: ☐ Y ☐ N e. Sheen or free product on water: ☐ Y ☐ N

3. Geology/Hydrogeology

a. Depth to groundwater 8 feet b. Indicate type of geology[2] S/Gr

(Note 2: Use these symbols individually or in combination as appropriate: C = Clay, SLT = Silt, S = Sand, Gr = Gravel)

4. Receptors

a. Water supply well(s) within 250 feet of the facility? ☒ Y ☐ N If yes, specify site well, residence to west

b. Surface water(s) within 1000 feet of the facility? ☒ Y ☐ N If yes, specify Big Lake, Wind Lake

5. Sampling

a. Follow the procedures detailed in *ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS.*

b. Complete Tables 1 and 2 as appropriate. (Attach chain-of-custody and laboratory analytical reports.)

c. Attach a detailed map of site features and sample locations.

J. NOTE RELEVANT OBSERVATIONS, SPECIFIC PROBLEMS OR CONCERNS BELOW

Piping & islands not removed, new ASTs to replace USTs removed.

Distribution: DATCP DNR Inspector Contractor Owner

TR-WM-140 (04/15)
Formerly ERS-8951 (R. 07/13)

TABLE 1 SOIL FIELD SCREENING & GRO/DRO LABORATORY ANALYTICAL RESULTS-FOR PETROLEUM PRODUCTS

Sample ID #	Sample Location & Soil/Geologic Description	Sample Collection Method				Depth Below Tank/Piping (feet)	Field Screening Result (ppm)	GRO (mg/kg)	DRO (mg/kg)
		Grab	Shelby Tube	Direct Push	Split Spoon				
Base	base of tank / S+Gr	☒	☐	☐	☐	1			
NW	north wall / S	☒	☐	☐	☐	0			
EW	east wall / S	☒	☐	☐	☐	0			
SW	south wall / S	☒	☐	☐	☐	0			
WW	west wall / S+Gr	☒	☐	☐	☐	0			
		☐	☐	☐	☐				
		☐	☐	☐	☐				
		☐	☐	☐	☐				
		☐	☐	☐	☐				
		☐	☐	☐	☐				
		☐	☐	☐	☐				
		☐	☐	☐	☐				
		☐	☐	☐	☐				
		☐	☐	☐	☐				

TABLE 2 SOIL LABORATORY ANALYTICAL RESULTS-FOR PETROLEUM PRODUCTS

Sample ID #	BENZENE	TOLUENE	ETHYLBENZENE	MTBE	TRIMETHYL - BENZENES (TOTAL)	XYLENES (TOTAL)	NAPHTHALENE
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Base	<23	<22	<24	<15	<19	<38	<150
NW	<22	<20	<23	<14	<18	<36	<140
EW	<19	<18	<20	<13	<16	<31	<130
SW	<17	<16	<18	<12	<14	<29	<120
WW	<18	<17	<19	<12	<15	<30	<120

K. TANK-SYSTEM SITE ASSESSMENT INFORMATION

☒ As a tank-system site assessor certified under Wis. Admin. Code section SPS 305.83, it is my opinion that there is no indication of a release of a regulated substance to the environment.

☐ Sampling at the site indicates there has been a release to the environment. Pursuant to Wis. Admin. Code section ATCP 93.585 (2) (a) and Wis. Stats. section 292.11 (2) (a), the owner or operator or contractor performing work under chapter ATCP 93 shall immediately report any release of a regulated substance to the Wisconsin Department of Natural Resources. Failure to do so may result in forfeitures of a minimum of $10 and a maximum of $5000 for each violation under Wis. Stats. section 168.26 (5). Each day of continued violation and each tank are treated as separate offenses.

Tank-System Site Assessor Name (print)	Tank-System Site Assessor Signature	Certification Number #
Matt Taylor	Matt Taylor	401178
Tank-System Site Assessor Telephone Number	**Date Signed**	**Company Name**
715-235-9081	11-1-2017	Cedar Corporation

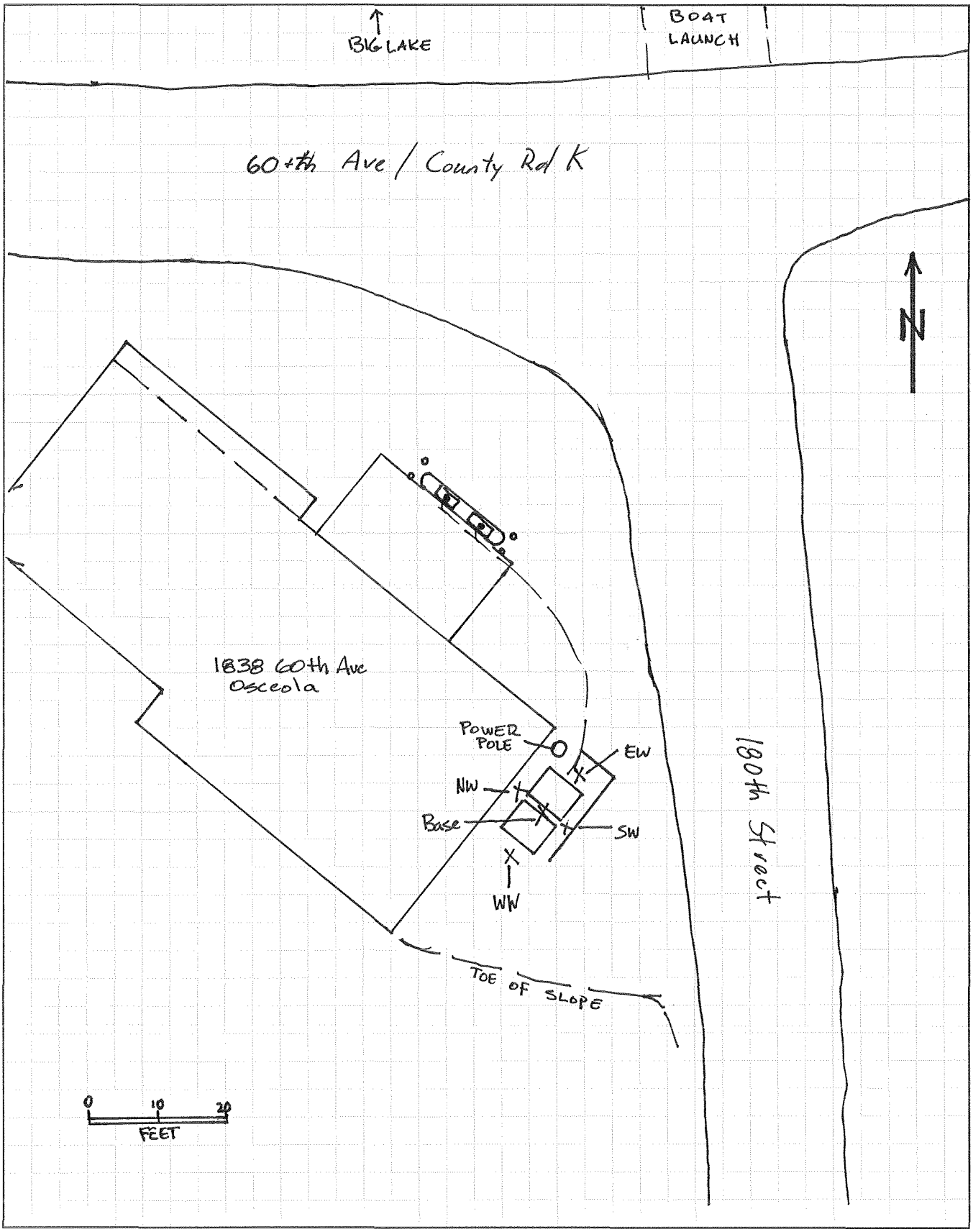
Distribution: DATCP DNR Inspector Contractor Owner

Cedar corporation
604 Wilson Avenue • Menomonie, WI 54751
2820 Walton Commons W., Suite 142 • Madison, WI 53718
1496 Bellevue Street, Suite 502 • Green Bay, WI 54311
800-472-7372 • www.cedarcorp.com

JOB Mork's Big Lake Store

CALCULATED BY _____ DATE _____

CHECK BY _____ DATE _____



Tank bed after removal

View of site looking west

Tanks removed

Tanks removed

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: 500-136237-1
Client Project/Site: Mark's Big Lake Store

For:
Cedar Corporation
604 Wilson Avenue
Menomonie, Wisconsin 54751

Attn: Mitch Evenson

Sandie Fredrick

Authorized for release by:
10/30/2017 12:31:05 PM

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

Table of Contents

Case Narrative

Client: Cedar Corporation
Project/Site: Mark's Big Lake Store

TestAmerica Job ID: 500-136237-1

Job ID: 500-136237-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-136237-1

Comments
No additional comments.

Receipt
The samples were received on 10/25/2017 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.9º C.

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

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

VOA Prep
Method(s) 5035: added methanol to provide 1:1 ratio. Base (500-136237-1) and NW (500-136237-2)

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

Detection Summary

Client: Cedar Corporation
Project/Site: Mark's Big Lake Store

TestAmerica Job ID: 500-136237-1

Client Sample ID: Base — Lab Sample ID: 500-136237-1

No Detections.

Client Sample ID: NW — Lab Sample ID: 500-136237-2

No Detections.

Client Sample ID: EW — Lab Sample ID: 500-136237-3

No Detections.

Client Sample ID: SW — Lab Sample ID: 500-136237-4

No Detections.

Client Sample ID: WW — Lab Sample ID: 500-136237-5

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Cedar Corporation
Project/Site: Mark's Big Lake Store

TestAmerica Job ID: 500-136237-1

Method	Method Description	Protocol	Laboratory
WDNR	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL NSH
Moisture	Percent Moisture	EPA	TAL NSH

Protocol References:

EPA = US Environmental Protection Agency

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: Mark's Big Lake Store

TestAmerica Job ID: 500-136237-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-136237-1	Base	Solid	10/18/17 08:45	10/25/17 08:45
500-136237-2	NW	Solid	10/18/17 08:55	10/25/17 08:45
500-136237-3	EW	Solid	10/18/17 09:00	10/25/17 08:45
500-136237-4	SW	Solid	10/18/17 09:05	10/25/17 08:45
500-136237-5	WW	Solid	10/18/17 08:50	10/25/17 08:45

Client Sample ID: Base

Lab Sample ID: 500-136237-1
Date Collected: 10/18/17 08:45
Matrix: Solid
Date Received: 10/25/17 08:45
Percent Solids: 89.3

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<19		32	19	ug/Kg	☼	10/27/17 12:25	10/28/17 01:00	1
1,3,5-Trimethylbenzene	<19		32	19	ug/Kg	☼	10/27/17 12:25	10/28/17 01:00	1
Benzene	<23		32	23	ug/Kg	☼	10/27/17 12:25	10/28/17 01:00	1
Ethylbenzene	<24		32	24	ug/Kg	☼	10/27/17 12:25	10/28/17 01:00	1
Methyl tert-butyl ether	<15		32	15	ug/Kg	☼	10/27/17 12:25	10/28/17 01:00	1
Naphthalene	<150		320	150	ug/Kg	☼	10/27/17 12:25	10/28/17 01:00	1
Toluene	<22		32	22	ug/Kg	☼	10/27/17 12:25	10/28/17 01:00	1
Xylenes, Total	<38		95	38	ug/Kg	☼	10/27/17 12:25	10/28/17 01:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*100*		*80 - 120*	*10/27/17 12:25*	*10/28/17 01:00*	*1*

Client Sample ID: NW

Lab Sample ID: 500-136237-2
Date Collected: 10/18/17 08:55
Matrix: Solid
Date Received: 10/25/17 08:45
Percent Solids: 92.2

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	10/27/17 12:25	10/28/17 00:33	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	10/27/17 12:25	10/28/17 00:33	1
Benzene	<22		30	22	ug/Kg	☼	10/27/17 12:25	10/28/17 00:33	1
Ethylbenzene	<23		30	23	ug/Kg	☼	10/27/17 12:25	10/28/17 00:33	1
Methyl tert-butyl ether	<14		30	14	ug/Kg	☼	10/27/17 12:25	10/28/17 00:33	1
Naphthalene	<140		300	140	ug/Kg	☼	10/27/17 12:25	10/28/17 00:33	1
Toluene	<20		30	20	ug/Kg	☼	10/27/17 12:25	10/28/17 00:33	1
Xylenes, Total	<36		90	36	ug/Kg	☼	10/27/17 12:25	10/28/17 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*99*		*80 - 120*	*10/27/17 12:25*	*10/28/17 00:33*	*1*

Client Sample ID: EW

Lab Sample ID: 500-136237-3
Date Collected: 10/18/17 09:00
Matrix: Solid
Date Received: 10/25/17 08:45
Percent Solids: 92.8

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<16		26	16	ug/Kg	☼	10/27/17 12:25	10/28/17 00:06	1
1,3,5-Trimethylbenzene	<16		26	16	ug/Kg	☼	10/27/17 12:25	10/28/17 00:06	1
Benzene	<19		26	19	ug/Kg	☼	10/27/17 12:25	10/28/17 00:06	1
Ethylbenzene	<20		26	20	ug/Kg	☼	10/27/17 12:25	10/28/17 00:06	1
Methyl tert-butyl ether	<13		26	13	ug/Kg	☼	10/27/17 12:25	10/28/17 00:06	1
Naphthalene	<130		260	130	ug/Kg	☼	10/27/17 12:25	10/28/17 00:06	1
Toluene	<18		26	18	ug/Kg	☼	10/27/17 12:25	10/28/17 00:06	1
Xylenes, Total	<31		79	31	ug/Kg	☼	10/27/17 12:25	10/28/17 00:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*100*		*80 - 120*	*10/27/17 12:25*	*10/28/17 00:06*	*1*

Client Sample ID: SW

Lab Sample ID: 500-136237-4
Date Collected: 10/18/17 09:05
Matrix: Solid
Date Received: 10/25/17 08:45
Percent Solids: 96.1

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<14		24	14	ug/Kg	☼	10/27/17 12:25	10/28/17 01:53	1
1,3,5-Trimethylbenzene	<14		24	14	ug/Kg	☼	10/27/17 12:25	10/28/17 01:53	1
Benzene	<17		24	17	ug/Kg	☼	10/27/17 12:25	10/28/17 01:53	1
Ethylbenzene	<18		24	18	ug/Kg	☼	10/27/17 12:25	10/28/17 01:53	1
Methyl tert-butyl ether	<12		24	12	ug/Kg	☼	10/27/17 12:25	10/28/17 01:53	1
Naphthalene	<120		240	120	ug/Kg	☼	10/27/17 12:25	10/28/17 01:53	1
Toluene	<16		24	16	ug/Kg	☼	10/27/17 12:25	10/28/17 01:53	1
Xylenes, Total	<29		72	29	ug/Kg	☼	10/27/17 12:25	10/28/17 01:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*80 - 120*	*10/27/17 12:25*	*10/28/17 01:53*	*1*

Client Sample ID: WW

Lab Sample ID: 500-136237-5
Date Collected: 10/18/17 08:50
Matrix: Solid
Date Received: 10/25/17 08:45
Percent Solids: 94.8

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<15		25	15	ug/Kg	☼	10/27/17 12:25	10/28/17 01:27	1
1,3,5-Trimethylbenzene	<15		25	15	ug/Kg	☼	10/27/17 12:25	10/28/17 01:27	1
Benzene	<18		25	18	ug/Kg	☼	10/27/17 12:25	10/28/17 01:27	1
Ethylbenzene	<19		25	19	ug/Kg	☼	10/27/17 12:25	10/28/17 01:27	1
Methyl tert-butyl ether	<12		25	12	ug/Kg	☼	10/27/17 12:25	10/28/17 01:27	1
Naphthalene	<120		250	120	ug/Kg	☼	10/27/17 12:25	10/28/17 01:27	1
Toluene	<17		25	17	ug/Kg	☼	10/27/17 12:25	10/28/17 01:27	1
Xylenes, Total	<30		75	30	ug/Kg	☼	10/27/17 12:25	10/28/17 01:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*98*		*80 - 120*	*10/27/17 12:25*	*10/28/17 01:27*	*1*

Client: Cedar Corporation
Project/Site: Mark's Big Lake Store

TestAmerica Job ID: 500-136237-1

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: Mark's Big Lake Store

TestAmerica Job ID: 500-136237-1

GC VOA

Prep Batch: 471292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136237-1	Base	Total/NA	Solid	5035	
500-136237-2	NW	Total/NA	Solid	5035	
500-136237-3	EW	Total/NA	Solid	5035	
500-136237-4	SW	Total/NA	Solid	5035	
500-136237-5	WW	Total/NA	Solid	5035	
MB 490-471292/1-A	Method Blank	Total/NA	Solid	5035	
LCS 490-471292/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 490-471292/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 471351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136237-1	Base	Total/NA	Solid	WDNR	471292
500-136237-2	NW	Total/NA	Solid	WDNR	471292
500-136237-3	EW	Total/NA	Solid	WDNR	471292
500-136237-4	SW	Total/NA	Solid	WDNR	471292
500-136237-5	WW	Total/NA	Solid	WDNR	471292
MB 490-471292/1-A	Method Blank	Total/NA	Solid	WDNR	471292
LCS 490-471292/2-A	Lab Control Sample	Total/NA	Solid	WDNR	471292
LCSD 490-471292/3-A	Lab Control Sample Dup	Total/NA	Solid	WDNR	471292

General Chemistry

Analysis Batch: 471710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136237-1	Base	Total/NA	Solid	Moisture	
500-136237-2	NW	Total/NA	Solid	Moisture	
500-136237-3	EW	Total/NA	Solid	Moisture	
500-136237-4	SW	Total/NA	Solid	Moisture	
500-136237-5	WW	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Cedar Corporation
Project/Site: Mark's Big Lake Store

TestAmerica Job ID: 500-136237-1

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	TFT (80-120)								
500-136237-1	Base	100								
500-136237-2	NW	99								
500-136237-3	EW	100								
500-136237-4	SW	96								
500-136237-5	WW	98								
LCS 490-471292/2-A	Lab Control Sample	103								
LCSD 490-471292/3-A	Lab Control Sample Dup	98								
MB 490-471292/1-A	Method Blank	98								

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

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

Lab Sample ID: MB 490-471292/1-A
Matrix: Solid
Analysis Batch: 471351

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 471292

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<15		25	15	ug/Kg		10/27/17 12:18	10/27/17 17:25	1
1,3,5-Trimethylbenzene	<15		25	15	ug/Kg		10/27/17 12:18	10/27/17 17:25	1
Benzene	<18		25	18	ug/Kg		10/27/17 12:18	10/27/17 17:25	1
Ethylbenzene	<19		25	19	ug/Kg		10/27/17 12:18	10/27/17 17:25	1
Methyl tert-butyl ether	<12		25	12	ug/Kg		10/27/17 12:18	10/27/17 17:25	1
Naphthalene	<120		250	120	ug/Kg		10/27/17 12:18	10/27/17 17:25	1
Toluene	<17		25	17	ug/Kg		10/27/17 12:18	10/27/17 17:25	1
Xylenes, Total	<30		75	30	ug/Kg		10/27/17 12:18	10/27/17 17:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*98*		*80 - 120*	*10/27/17 12:18*	*10/27/17 17:25*	*1*

Lab Sample ID: LCS 490-471292/2-A
Matrix: Solid
Analysis Batch: 471351

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 471292

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	2500	2350		ug/Kg		94	60 - 140
1,3,5-Trimethylbenzene	2500	2280		ug/Kg		91	74 - 133
Benzene	2500	2250		ug/Kg		90	76 - 120
Ethylbenzene	2500	2250		ug/Kg		90	77 - 120
Methyl tert-butyl ether	2500	2470		ug/Kg		99	73 - 120
m-Xylene & p-Xylene	5000	4490		ug/Kg		90	80 - 120
Naphthalene	2500	3150		ug/Kg		126	74 - 127
o-Xylene	2500	2320		ug/Kg		93	79 - 120
Toluene	2500	2270		ug/Kg		91	79 - 120
Xylenes, Total	7500	6810		ug/Kg		91	

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

Lab Sample ID: LCSD 490-471292/3-A
Matrix: Solid
Analysis Batch: 471351

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 471292

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	2500	2310		ug/Kg		92	60 - 140	2	50
1,3,5-Trimethylbenzene	2500	2250		ug/Kg		90	74 - 133	2	42
Benzene	2500	2270		ug/Kg		91	76 - 120	1	27
Ethylbenzene	2500	2240		ug/Kg		89	77 - 120	0	49
Methyl tert-butyl ether	2500	2240		ug/Kg		90	73 - 120	10	31
m-Xylene & p-Xylene	5000	4470		ug/Kg		89	80 - 120	0	47
Naphthalene	2500	2280		ug/Kg		91	74 - 127	32	50
o-Xylene	2500	2320		ug/Kg		93	79 - 120	0	47
Toluene	2500	2270		ug/Kg		91	79 - 120	0	37
Xylenes, Total	7500	6790		ug/Kg		91		0	

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

Lab Sample ID: LCSD 490-471292/3-A
Matrix: Solid
Analysis Batch: 471351

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 471292

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene	98		80 - 120

Lab Chronicle

Client: Cedar Corporation
Project/Site: Mark's Big Lake Store

TestAmerica Job ID: 500-136237-1

Client Sample ID: Base
Lab Sample ID: 500-136237-1
Date Collected: 10/18/17 08:45
Matrix: Solid
Date Received: 10/25/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	471710	10/29/17 11:50	BAA	TAL NSH

Client Sample ID: Base
Lab Sample ID: 500-136237-1
Date Collected: 10/18/17 08:45
Matrix: Solid
Date Received: 10/25/17 08:45
Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			471292	10/27/17 12:25	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	471351	10/28/17 01:00	S1S	TAL NSH

Client Sample ID: NW
Lab Sample ID: 500-136237-2
Date Collected: 10/18/17 08:55
Matrix: Solid
Date Received: 10/25/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	471710	10/29/17 11:50	BAA	TAL NSH

Client Sample ID: NW
Lab Sample ID: 500-136237-2
Date Collected: 10/18/17 08:55
Matrix: Solid
Date Received: 10/25/17 08:45
Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			471292	10/27/17 12:25	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	471351	10/28/17 00:33	S1S	TAL NSH

Client Sample ID: EW
Lab Sample ID: 500-136237-3
Date Collected: 10/18/17 09:00
Matrix: Solid
Date Received: 10/25/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	471710	10/29/17 11:50	BAA	TAL NSH

Client Sample ID: EW
Lab Sample ID: 500-136237-3
Date Collected: 10/18/17 09:00
Matrix: Solid
Date Received: 10/25/17 08:45
Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			471292	10/27/17 12:25	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	471351	10/28/17 00:06	S1S	TAL NSH

Lab Chronicle

Client: Cedar Corporation
Project/Site: Mark's Big Lake Store

TestAmerica Job ID: 500-136237-1

Client Sample ID: SW
Lab Sample ID: 500-136237-4
Date Collected: 10/18/17 09:05
Matrix: Solid
Date Received: 10/25/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	471710	10/29/17 11:50	BAA	TAL NSH

Client Sample ID: SW
Lab Sample ID: 500-136237-4
Date Collected: 10/18/17 09:05
Matrix: Solid
Date Received: 10/25/17 08:45
Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			471292	10/27/17 12:25	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	471351	10/28/17 01:53	S1S	TAL NSH

Client Sample ID: WW
Lab Sample ID: 500-136237-5
Date Collected: 10/18/17 08:50
Matrix: Solid
Date Received: 10/25/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	471710	10/29/17 11:50	BAA	TAL NSH

Client Sample ID: WW
Lab Sample ID: 500-136237-5
Date Collected: 10/18/17 08:50
Matrix: Solid
Date Received: 10/25/17 08:45
Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			471292	10/27/17 12:25	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	471351	10/28/17 01:27	S1S	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: Mark's Big Lake Store

TestAmerica Job ID: 500-136237-1

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	08-31-18

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	08-31-18

TestAmerica
THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 60
Phone: 708.534.5200 Fax: 708.534

500-136237 COC

Report To (optional)	Bill To (optional)
Contact:	Contact:
Company:	Company:
Address:	Address:
Address:	Address:
Phone:	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Chain of Custody Record

Lab Job #: 500-136237

Chain of Custody Number:

Page ____ of ____

Temperature °C of Cooler: 3.9

Client: Cedar Corporation
Client Project #:
Project Name: Mark's Big Lake Store
Project Location/State: Osceola / WI
Lab Project #:
Sampler: Matt Taylor
Lab PM:

Preservative:
Parameter: PVOC + Naph.

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	PVOC + Naph.	Comments
1		Base	10/18	845	2	S	X	
2		NW	↓	855	↓	↓	↓	
3		EW	↓	900	↓	↓	↓	
4		SW	↓	905	↓	↓	↓	
5		WW	↓	850	↓	↓	↓	

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 X 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	Company	Date	Time	Received By	Company	Date	Time
M. Taylor	Cedar	10/18/17	1330	Sherri Scott	TA-CHI	10/25/17	0845
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier:
Shipped: FedEx
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:

Lab Comments:

TAL-4124-500 (1209)


ORIGIN ID:JOTA (715) 235-9081
MITCH EVENSON
CEDAR CORPORATION
604 WILSON AVE
MENOMONIE, WI 54751
UNITED STATES US
SHIP DATE: 14APR17
ACTWGT: 50.00 LB MAN
CAD: 33264/CAFE3011
TO SAMPLE LOGIN
TESTAMERICA LABS
2417 BOND ST
UNIVERSITY PARK IL 60466
(708) 534-5200
500-136237 Waybill
REF:
INV:
PO:
DEPT:
RMA:
FedEx Express
RETURNS MON-SAT
FedEx
TRK# 0221 6514 8433 6103
WED - 25 OCT 10:30A
PRIORITY OVERNIGHT
NA JOTA
60466
IL-US
ORD
FID 5033614 24OCT17 EAUA 546C4/94FC/0C8A

16 qt.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

500-136237 Chain of Custody

COOLER RECEIPT FORM

Cooler Received/Opened On_10-26-2017_@__09:50_____

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking #_____8540_____(last 4 digits, FedEx) Courier: _FedEx_

IR Gun ID__17960357_____ pH Strip Lot_____ Chlorine Strip Lot_____

2. Temperature of rep. sample or temp blank when opened:_____0.5_____ *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

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

I certify that I opened the cooler and answered questions 1-6 (intial) _____es_____

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

Larger than this.

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 (intial) _____es_____

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 (intial) _____es_____

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 (intial) _____es_____

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

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

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 8/23/17

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

Chain of Custody Record

500-136237 TestAmerica — THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie J		500-94792.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandie.fredrick@testamericainc.com	State of Origin: Wisconsin	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Wisconsin		Job #: 500-136237-1
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 10/27/2017			
City: Nashville	TAT Requested (days):			
State, Zip: TN, 37204				
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:			
Email:	WO #:			
Project Name: General Projects	Project #: 50006556			
Site:	SSOW#:			

Analysis Requested

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, 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)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	WI_GRO/5035FM_Calc (MOD) WISC PVOC + Nap	Moisture/ Percent Solids	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Base (500-136237-1)	10/18/17	08:45 Central		Solid			X	X	2	
NW (500-136237-2)	10/18/17	08:55 Central		Solid			X	X	2	
EW (500-136237-3)	10/18/17	09:00 Central		Solid			X	X	2	
SW (500-136237-4)	10/18/17	09:05 Central		Solid			X	X	2	
WW (500-136237-5)	10/18/17	08:50 Central		Solid			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. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/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 complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 10/25/17 @ 1600	Company TA	Received by:	Date/Time: 10/26/17 9:50	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.5

Ver: 09/20/2016

10/30/2017

Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-136237-1

Login Number: 136237
List Number: 1
Creator: Scott, Sherri L

List Source: TestAmerica Chicago

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	3.9
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-136237-1

Login Number: 136237
List Number: 2
Creator: Stewart, Eric S

List Source: TestAmerica Nashville
List Creation: 10/26/17 03:18 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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	
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.	N/A	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	