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604 Wilson Avenue
Menomonie, WI 54751
715-235-9081
800-472-7372
FAX 715-235-2727
www.cedarcorp.com

Sept. 19, 2018

Mr. Phil Richard
WDNR
875 South Fourth Avenue
Park Falls, WI 54552

via email: Philip.Richard@wisconsin.gov

SUBJECT: Results for Dragovich/Obadal Sampling Event, Phillips, WI
BRRTS #03-51-000623

Dear Mr. Richard,

At your request, Cedar Corporation has completed the drinking water sampling of the Dragovich/Obadal site in Phillips, WI. The sampling included collection of drinking water samples for VOC analysis from the Dragovich/Obadal private well, preparation of data results tables and the following report letter.

The water sampling took place on April 11, 2018 and May 9, 2018. During both sampling events the samples collected were placed in laboratory supplied vials and placed on ice through shipping to the laboratory. The samples were shipped to Test America's University Park, IL lab for analysis by EPA Method 8260B for Volatile Organic Compounds.

The lab reported detections of the following analytes in one or more samples: benzene; 1,2-dichloroethane; and methyl-tert-butyl ether (MTBE). The only reported compounds above its NR 140 Preventive Action Limit was benzene and 1,2-dichloroethane. None of the other reported detections were above the PAL. Furthermore, the reported detections were generally in line with previously reported levels. A table presenting the historic potable well water results is attached as are the complete lab reports.

If there are any questions, please feel free to contact either me or Mitch Evenson at 715-235-9081.

Sincerely;
CEDAR CORPORATION

Matthew A. Taylor, P.G.
Hydrogeologist

c. Mitch Evenson

Att.

Dragovich & Boho Sites
BRRTS # 03-51-000623
Phillips, WI
Groundwater Analytical Results
PVOC and detected VOC

PARAMETER	SAMPLE DATE	Dragovich	Boho / Collins
BENZENE (ug / L) Enforcement Standard - 5.0 Preventive Action Limit - 0.5	1/6/92	69	
	1/22/92	66	
	2/3/92		87
	2/5/01	37	
	6/18/01		140
	4/6/04	<0.41	44
	11/3/06	11	94
	5/22/07	2.2	<0.25
	8/15/07	9.0	75
	11/15/07	7.8	
	6/20/08		86
	11/30/16	3.8	81*
	4/11/18	3.7	
5/9/18	2.7		
CHLOROMETHANE (ug / L) Enforcement Standard - 3 Preventive Action Limit - 0.3	1/6/92	<1.0	
	1/22/92	<1.0	
	11/3/06	0.56	1.2
	8/15/07	<0.20	<0.20
	11/15/07	0.62	
	6/20/08		<0.30
	11/30/16	<0.32	<0.51*
	4/11/18	<0.51	
5/9/18	<0.32		
1,2-DICHLOROETHANE (ug / L) Enforcement Standard - 5 Preventive Action Limit - 0.5	1/6/92	4.3	
	2/3/92		4.9
	1/22/92	3.7	
	2/5/01		2.4
	6/18/01	3	
	11/3/06	<0.50	<1.7
	8/15/07	2.6	<0.50
	11/15/07	2.2	
	6/20/08		<0.50
	11/30/16	2.2	<0.39*
	4/11/18	2.6	
5/9/18	<0.39		
1,1-DICHLOROPROPENE (ug / L)	1/6/92	<2.0	
	1/22/92	<2.0	
	11/3/06	<0.50	2.9
	8/15/07	<0.50	<0.50
	6/20/08		<0.50
	11/30/16	<0.30	<0.30*
	4/11/18	<0.30	
	5/9/18	<0.30	
ETHYLBENZENE (ug / L) Enforcement Standard - 700 Preventive Action Limit - 140	1/6/92	<1.0	
	1/22/92	<1.0	
	2/5/01	0.21	0.17
	4/6/04	<0.54	<0.54
	11/3/06	<0.50	<0.50
	5/22/07	<0.22	<0.22
	8/15/07	<0.50	<0.50
	11/15/07	<0.50	
	6/20/08		<0.50
	11/30/16	<0.18	<0.18*
	4/11/18	<0.18	
5/9/18	<0.18		
MTBE (ug / L) Enforcement Standard - 60 Preventive Action Limit - 12	11/30/16	1.2	2.0*
	4/11/18	0.87	
	5/9/18	<0.39	
NAPHTHALENE (ug / L) Enforcement Standard - 40 Preventive Action Limit - 8	11/3/06	<0.25	<0.25
	5/22/07		
	8/15/07	<0.25	<0.25
	11/15/07	<0.25	
	6/20/08		<0.25
	11/30/16	<0.34	<0.34*
4/11/18	<0.34		
5/9/18	<0.34		
TOLUENE (ug / L) Enforcement Standard - 1000 Preventive Action Limit - 200	1/6/92	<1.0	
	1/22/92	<1.0	
	2/5/01		0.52
	6/18/01	2.2	
	4/6/04	<0.67	<0.67
	11/3/06	<0.20	1.2
	5/22/07	<0.11	<0.11
	8/15/07	<0.20	1.0
	11/15/07	<0.20	
	6/20/08		1
	11/30/16	<0.15	<0.15*
4/11/18	<0.15		
5/9/18	<0.15		
1,2,4-TRIMETHYLBENZENE & 1,3,5-TRIMETHYLBENZENE (ug / L) Enforcement Standard - 480 Preventive Action Limit - 96 (Total Trimethylbenzenes)	4/6/04	<1.80	<1.80
	11/3/06	<0.20	<0.20
	5/22/07	<0.25	<0.25
	8/15/07	<0.20	<0.20
	11/15/07	<0.20	
	6/20/08		<0.20
	11/30/16	<0.36	<0.36*
4/11/18	<0.36		
5/9/18	<0.36		
XYLENES (ug / L) Enforcement Standard - 10,000 Preventive Action Limit - 1000	1/6/92	<2.0	
	1/22/92	<2.0	
	2/5/01	0.27	
	6/18/01		1.3
	4/6/04	<2.63	<2.63
	11/3/06	<0.50	0.94
	5/22/07	<0.39	<0.39
	8/15/07	<0.50	0.81
	11/15/07	<0.50	
	6/20/08		0.88
	11/30/16	<0.22	<0.22*
4/11/18	<0.22		
5/9/18	<0.22		

BOLD - Exceeds NR 140 ES
Italics - Exceeds NR 140 PAL
* - Sample date 10/16/2017

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: 500-143775-1
Client Project/Site: Dragovich & Boho Site - 0950-0026

For:
Cedar Corporation
604 Wilson Avenue
Menomonie, Wisconsin 54751

Attn: Mitch Evenson



Authorized for release by:
4/24/2018 8:02:37 AM

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

LINKS

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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: Dragovich & Boho Site - 0950-0026

TestAmerica Job ID: 500-143775-1

Job ID: 500-143775-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-143775-1

Comments

No additional comments.

Receipt

The samples were received on 4/13/2018 8:55 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/MS VOA

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

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Detection Summary

Client: Cedar Corporation
Project/Site: Dragovich & Boho Site - 0950-0026

TestAmerica Job ID: 500-143775-1

Client Sample ID: 556 Eyder Ave Raw

Lab Sample ID: 500-143775-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.7		0.50	0.15	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	2.6		1.0	0.39	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	0.87	J	1.0	0.39	ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-143775-2

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



Method Summary

Client: Cedar Corporation
Project/Site: Dragovich & Boho Site - 0950-0026

TestAmerica Job ID: 500-143775-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI

Protocol References:

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

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: Cedar Corporation
Project/Site: Dragovich & Boho Site - 0950-0026

TestAmerica Job ID: 500-143775-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-143775-1	556 Eyder Ave Raw	Water	04/11/18 12:30	04/13/18 08:55
500-143775-2	Trip Blank	Water	04/11/18 00:00	04/13/18 08:55

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Dragovich & Boho Site - 0950-0026

TestAmerica Job ID: 500-143775-1

Client Sample ID: 556 Eyder Ave Raw

Lab Sample ID: 500-143775-1

Date Collected: 04/11/18 12:30

Matrix: Water

Date Received: 04/13/18 08:55

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.7		0.50	0.15	ug/L			04/18/18 14:28	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/18/18 14:28	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/18/18 14:28	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/18/18 14:28	1
Bromoform	<0.48		1.0	0.48	ug/L			04/18/18 14:28	1
Bromomethane	<0.80		2.0	0.80	ug/L			04/18/18 14:28	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/18/18 14:28	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/18/18 14:28	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/18/18 14:28	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/18/18 14:28	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/18/18 14:28	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/18/18 14:28	1
Chloroethane	<0.51		1.0	0.51	ug/L			04/18/18 14:28	1
Chloroform	<0.37		2.0	0.37	ug/L			04/18/18 14:28	1
Chloromethane	<0.32		1.0	0.32	ug/L			04/18/18 14:28	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/18/18 14:28	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/18/18 14:28	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			04/18/18 14:28	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			04/18/18 14:28	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/18/18 14:28	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/18/18 14:28	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/18/18 14:28	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/18/18 14:28	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			04/18/18 14:28	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/18/18 14:28	1
1,2-Dichloroethane	2.6		1.0	0.39	ug/L			04/18/18 14:28	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/18/18 14:28	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/18/18 14:28	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/18/18 14:28	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/18/18 14:28	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/18/18 14:28	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			04/18/18 14:28	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/18/18 14:28	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/18/18 14:28	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/18/18 14:28	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			04/18/18 14:28	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/18/18 14:28	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/18/18 14:28	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/18/18 14:28	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/18/18 14:28	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/18/18 14:28	1
Methyl tert-butyl ether	0.87 J		1.0	0.39	ug/L			04/18/18 14:28	1
Naphthalene	<0.34		1.0	0.34	ug/L			04/18/18 14:28	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/18/18 14:28	1
Styrene	<0.39		1.0	0.39	ug/L			04/18/18 14:28	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/18/18 14:28	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/18/18 14:28	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/18/18 14:28	1
Toluene	<0.15		0.50	0.15	ug/L			04/18/18 14:28	1

TestAmerica Chicago

Client Sample Results

Client: Cedar Corporation
 Project/Site: Dragovich & Boho Site - 0950-0026

TestAmerica Job ID: 500-143775-1

Client Sample ID: 556 Eyder Ave Raw

Lab Sample ID: 500-143775-1

Date Collected: 04/11/18 12:30

Matrix: Water

Date Received: 04/13/18 08:55

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			04/18/18 14:28	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			04/18/18 14:28	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/18/18 14:28	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/18/18 14:28	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/18/18 14:28	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/18/18 14:28	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			04/18/18 14:28	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/18/18 14:28	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/18/18 14:28	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/18/18 14:28	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/18/18 14:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 126					04/18/18 14:28	1
Toluene-d8 (Surr)	103		75 - 120					04/18/18 14:28	1
4-Bromofluorobenzene (Surr)	99		72 - 124					04/18/18 14:28	1
Dibromofluoromethane	98		75 - 120					04/18/18 14:28	1

Client Sample ID: Trip Blank

Lab Sample ID: 500-143775-2

Date Collected: 04/11/18 00:00

Matrix: Water

Date Received: 04/13/18 08:55

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			04/18/18 14:55	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/18/18 14:55	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/18/18 14:55	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/18/18 14:55	1
Bromoform	<0.48		1.0	0.48	ug/L			04/18/18 14:55	1
Bromomethane	<0.80		2.0	0.80	ug/L			04/18/18 14:55	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/18/18 14:55	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/18/18 14:55	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/18/18 14:55	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/18/18 14:55	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/18/18 14:55	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/18/18 14:55	1
Chloroethane	<0.51		1.0	0.51	ug/L			04/18/18 14:55	1
Chloroform	<0.37		2.0	0.37	ug/L			04/18/18 14:55	1
Chloromethane	<0.32		1.0	0.32	ug/L			04/18/18 14:55	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/18/18 14:55	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/18/18 14:55	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			04/18/18 14:55	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			04/18/18 14:55	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/18/18 14:55	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/18/18 14:55	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/18/18 14:55	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/18/18 14:55	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			04/18/18 14:55	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/18/18 14:55	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/18/18 14:55	1

TestAmerica Chicago

Client Sample Results

Client: Cedar Corporation
 Project/Site: Dragovich & Boho Site - 0950-0026

TestAmerica Job ID: 500-143775-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-143775-2

Date Collected: 04/11/18 00:00

Matrix: Water

Date Received: 04/13/18 08:55

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/18/18 14:55	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/18/18 14:55	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/18/18 14:55	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/18/18 14:55	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/18/18 14:55	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			04/18/18 14:55	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/18/18 14:55	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/18/18 14:55	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/18/18 14:55	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			04/18/18 14:55	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/18/18 14:55	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/18/18 14:55	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/18/18 14:55	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/18/18 14:55	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/18/18 14:55	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/18/18 14:55	1
Naphthalene	<0.34		1.0	0.34	ug/L			04/18/18 14:55	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/18/18 14:55	1
Styrene	<0.39		1.0	0.39	ug/L			04/18/18 14:55	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/18/18 14:55	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/18/18 14:55	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/18/18 14:55	1
Toluene	<0.15		0.50	0.15	ug/L			04/18/18 14:55	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			04/18/18 14:55	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			04/18/18 14:55	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/18/18 14:55	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/18/18 14:55	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/18/18 14:55	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/18/18 14:55	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			04/18/18 14:55	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/18/18 14:55	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/18/18 14:55	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/18/18 14:55	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/18/18 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 126		04/18/18 14:55	1
Toluene-d8 (Surr)	101		75 - 120		04/18/18 14:55	1
4-Bromofluorobenzene (Surr)	98		72 - 124		04/18/18 14:55	1
Dibromofluoromethane	99		75 - 120		04/18/18 14:55	1

Definitions/Glossary

Client: Cedar Corporation
Project/Site: Dragovich & Boho Site - 0950-0026

TestAmerica Job ID: 500-143775-1

Qualifiers

GC/MS 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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	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: Dragovich & Boho Site - 0950-0026

TestAmerica Job ID: 500-143775-1

GC/MS VOA

Analysis Batch: 428305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-143775-1	556 Eyder Ave Raw	Total/NA	Water	8260B	
500-143775-2	Trip Blank	Total/NA	Water	8260B	
MB 500-428305/28	Method Blank	Total/NA	Water	8260B	
LCS 500-428305/26	Lab Control Sample	Total/NA	Water	8260B	

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Surrogate Summary

Client: Cedar Corporation
Project/Site: Dragovich & Boho Site - 0950-0026

TestAmerica Job ID: 500-143775-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (75-126)	TOL (75-120)	BFB (72-124)	DBFM (75-120)
500-143775-1	556 Eyder Ave Raw	103	103	99	98
500-143775-2	Trip Blank	104	101	98	99
LCS 500-428305/26	Lab Control Sample	99	105	97	94
MB 500-428305/28	Method Blank	102	103	98	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

QC Sample Results

Client: Cedar Corporation
 Project/Site: Dragovich & Boho Site - 0950-0026

TestAmerica Job ID: 500-143775-1

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

Lab Sample ID: MB 500-428305/28
Matrix: Water
Analysis Batch: 428305

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			04/18/18 11:49	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/18/18 11:49	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/18/18 11:49	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/18/18 11:49	1
Bromoform	<0.48		1.0	0.48	ug/L			04/18/18 11:49	1
Bromomethane	<0.80		2.0	0.80	ug/L			04/18/18 11:49	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/18/18 11:49	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/18/18 11:49	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/18/18 11:49	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/18/18 11:49	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/18/18 11:49	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/18/18 11:49	1
Chloroethane	<0.51		1.0	0.51	ug/L			04/18/18 11:49	1
Chloroform	1.01	J	2.0	0.37	ug/L			04/18/18 11:49	1
Chloromethane	<0.32		1.0	0.32	ug/L			04/18/18 11:49	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/18/18 11:49	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/18/18 11:49	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			04/18/18 11:49	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			04/18/18 11:49	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/18/18 11:49	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/18/18 11:49	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/18/18 11:49	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/18/18 11:49	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			04/18/18 11:49	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/18/18 11:49	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/18/18 11:49	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/18/18 11:49	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/18/18 11:49	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/18/18 11:49	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/18/18 11:49	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/18/18 11:49	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			04/18/18 11:49	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/18/18 11:49	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/18/18 11:49	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/18/18 11:49	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			04/18/18 11:49	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/18/18 11:49	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/18/18 11:49	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/18/18 11:49	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/18/18 11:49	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/18/18 11:49	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/18/18 11:49	1
Naphthalene	<0.34		1.0	0.34	ug/L			04/18/18 11:49	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/18/18 11:49	1
Styrene	<0.39		1.0	0.39	ug/L			04/18/18 11:49	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/18/18 11:49	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/18/18 11:49	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/18/18 11:49	1

TestAmerica Chicago

QC Sample Results

Client: Cedar Corporation
 Project/Site: Dragovich & Boho Site - 0950-0026

TestAmerica Job ID: 500-143775-1

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

Lab Sample ID: MB 500-428305/28
Matrix: Water
Analysis Batch: 428305

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.15		0.50	0.15	ug/L			04/18/18 11:49	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			04/18/18 11:49	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			04/18/18 11:49	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/18/18 11:49	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/18/18 11:49	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/18/18 11:49	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/18/18 11:49	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			04/18/18 11:49	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/18/18 11:49	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/18/18 11:49	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/18/18 11:49	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/18/18 11:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 126		04/18/18 11:49	1
Toluene-d8 (Surr)	103		75 - 120		04/18/18 11:49	1
4-Bromofluorobenzene (Surr)	98		72 - 124		04/18/18 11:49	1
Dibromofluoromethane	99		75 - 120		04/18/18 11:49	1

Lab Sample ID: LCS 500-428305/26
Matrix: Water
Analysis Batch: 428305

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	46.8		ug/L		94	70 - 120
Bromobenzene	50.0	47.0		ug/L		94	70 - 122
Bromochloromethane	50.0	44.4		ug/L		89	65 - 122
Bromodichloromethane	50.0	47.4		ug/L		95	69 - 120
Bromoform	50.0	50.8		ug/L		102	56 - 132
Bromomethane	50.0	47.1		ug/L		94	40 - 130
n-Butylbenzene	50.0	50.1		ug/L		100	68 - 125
sec-Butylbenzene	50.0	48.7		ug/L		97	70 - 123
tert-Butylbenzene	50.0	48.5		ug/L		97	70 - 121
Carbon tetrachloride	50.0	50.8		ug/L		102	65 - 122
Chlorobenzene	50.0	48.6		ug/L		97	70 - 120
Dibromochloromethane	50.0	51.7		ug/L		103	68 - 125
Chloroethane	50.0	49.0		ug/L		98	45 - 127
Chloroform	50.0	47.3		ug/L		95	70 - 120
Chloromethane	50.0	63.4		ug/L		127	54 - 147
2-Chlorotoluene	50.0	48.3		ug/L		97	70 - 125
4-Chlorotoluene	50.0	49.3		ug/L		99	68 - 124
1,2-Dibromo-3-Chloropropane	50.0	46.8		ug/L		94	56 - 123
1,2-Dibromoethane	50.0	46.5		ug/L		93	70 - 125
Dibromomethane	50.0	45.5		ug/L		91	70 - 120
1,2-Dichlorobenzene	50.0	48.4		ug/L		97	70 - 125
1,3-Dichlorobenzene	50.0	49.1		ug/L		98	70 - 125
1,4-Dichlorobenzene	50.0	48.3		ug/L		97	70 - 120
Dichlorodifluoromethane	50.0	63.0		ug/L		126	40 - 150

TestAmerica Chicago

QC Sample Results

Client: Cedar Corporation
 Project/Site: Dragovich & Boho Site - 0950-0026

TestAmerica Job ID: 500-143775-1

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

Lab Sample ID: LCS 500-428305/26

Matrix: Water

Analysis Batch: 428305

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	50.0	48.5		ug/L		97	70 - 125
1,2-Dichloroethane	50.0	49.9		ug/L		100	68 - 127
1,1-Dichloroethene	50.0	46.4		ug/L		93	67 - 122
cis-1,2-Dichloroethene	50.0	45.6		ug/L		91	70 - 125
trans-1,2-Dichloroethene	50.0	47.7		ug/L		95	70 - 125
1,2-Dichloropropane	50.0	48.1		ug/L		96	67 - 130
1,3-Dichloropropane	50.0	49.3		ug/L		99	62 - 136
2,2-Dichloropropane	50.0	49.1		ug/L		98	58 - 129
1,1-Dichloropropene	50.0	49.6		ug/L		99	70 - 121
cis-1,3-Dichloropropene	50.0	50.2		ug/L		100	64 - 127
trans-1,3-Dichloropropene	50.0	50.1		ug/L		100	62 - 128
Ethylbenzene	50.0	49.0		ug/L		98	70 - 120
Hexachlorobutadiene	50.0	52.3		ug/L		105	51 - 150
Isopropylbenzene	50.0	48.4		ug/L		97	70 - 126
p-Isopropyltoluene	50.0	50.2		ug/L		100	70 - 125
Methylene Chloride	50.0	45.2		ug/L		90	69 - 125
Methyl tert-butyl ether	50.0	45.8		ug/L		92	70 - 120
Naphthalene	50.0	49.4		ug/L		99	59 - 130
N-Propylbenzene	50.0	49.5		ug/L		99	69 - 127
Styrene	50.0	48.6		ug/L		97	70 - 120
1,1,1,2-Tetrachloroethane	50.0	49.0		ug/L		98	70 - 125
1,1,1,2,2-Tetrachloroethane	50.0	45.8		ug/L		92	67 - 127
Tetrachloroethene	50.0	52.5		ug/L		105	70 - 128
Toluene	50.0	50.7		ug/L		101	70 - 125
1,2,3-Trichlorobenzene	50.0	51.4		ug/L		103	55 - 140
1,2,4-Trichlorobenzene	50.0	51.2		ug/L		102	66 - 127
1,1,1-Trichloroethane	50.0	49.2		ug/L		98	70 - 125
1,1,2-Trichloroethane	50.0	49.7		ug/L		99	70 - 122
Trichloroethene	50.0	49.7		ug/L		99	70 - 125
Trichlorofluoromethane	50.0	50.1		ug/L		100	70 - 126
1,2,3-Trichloropropane	50.0	45.0		ug/L		90	50 - 133
1,2,4-Trimethylbenzene	50.0	48.3		ug/L		97	70 - 123
1,3,5-Trimethylbenzene	50.0	48.7		ug/L		97	70 - 123
Vinyl chloride	50.0	49.7		ug/L		99	64 - 126
Xylenes, Total	100	101		ug/L		101	70 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		75 - 126
Toluene-d8 (Surr)	105		75 - 120
4-Bromofluorobenzene (Surr)	97		72 - 124
Dibromofluoromethane	94		75 - 120

Lab Chronicle

Client: Cedar Corporation
Project/Site: Dragovich & Boho Site - 0950-0026

TestAmerica Job ID: 500-143775-1

Client Sample ID: 556 Eyder Ave Raw

Date Collected: 04/11/18 12:30

Date Received: 04/13/18 08:55

Lab Sample ID: 500-143775-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	428305	04/18/18 14:28	JDD	TAL CHI

Client Sample ID: Trip Blank

Date Collected: 04/11/18 00:00

Date Received: 04/13/18 08:55

Lab Sample ID: 500-143775-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	428305	04/18/18 14:55	JDD	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Cedar Corporation
Project/Site: Dragovich & Boho Site - 0950-0026

TestAmerica Job ID: 500-143775-1

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

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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: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# 500-143775 COC



Chain of Custody Record

Lab Job #: 500-143775
 Chain of Custody Number: _____
 Page 1 of 1
 Temperature °C of Cooler: 2-6

Client		Client Project #		Preservative	Parameter		Matrix		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	# of Containers	Matrix	Matrix	Comments	
Project Location/State		Lab PM							
Cedar Corp		0950-0020		1	VOCs				
Dragovich Boho Site		Sandie Fredrick							
Phillips, WI									
KAL									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Matrix	Matrix	Comments
1		556 Eyder Ave Raw Trip Blank	4/1/18	1230	3	DW	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>Kristina</u>	Company Cedar Corp	Date 4/12/18	Time 0830	Received By <u>[Signature]</u>	Company TA	Date 04/13/18	Time 0855
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: _____
 Shipped: _____
 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:

Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-143775-1

Login Number: 143775

List Source: TestAmerica Chicago

List Number: 1

Creator: Kelsey, Shawn 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	2.6c
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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: 500-145462-1
Client Project/Site: DNR - 00950-0026

For:
Cedar Corporation
604 Wilson Avenue
Menomonie, Wisconsin 54751

Attn: Mitch Evenson



Authorized for release by:
5/25/2018 4:15:29 PM

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

LINKS

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results through
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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: DNR - 00950-0026

TestAmerica Job ID: 500-145462-1

Job ID: 500-145462-1

Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-145462-1**

Comments

No additional comments.

Receipt

The sample was received on 5/15/2018 10:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

GC/MS VOA

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

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Detection Summary

Client: Cedar Corporation
Project/Site: DNR - 00950-0026

TestAmerica Job ID: 500-145462-1

Client Sample ID: 556 South Eyder Ave Raw

Lab Sample ID: 500-145462-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.7		0.50	0.15	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

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Method Summary

Client: Cedar Corporation
Project/Site: DNR - 00950-0026

TestAmerica Job ID: 500-145462-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI

Protocol References:

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

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: Cedar Corporation
Project/Site: DNR - 00950-0026

TestAmerica Job ID: 500-145462-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-145462-1	556 South Eyder Ave Raw	Water	05/09/18 12:00	05/15/18 10:00

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Client Sample Results

Client: Cedar Corporation
Project/Site: DNR - 00950-0026

TestAmerica Job ID: 500-145462-1

Client Sample ID: 556 South Eyder Ave Raw

Lab Sample ID: 500-145462-1

Date Collected: 05/09/18 12:00

Matrix: Water

Date Received: 05/15/18 10:00

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.7		0.50	0.15	ug/L			05/21/18 16:30	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/21/18 16:30	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/21/18 16:30	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/21/18 16:30	1
Bromoform	<0.48		1.0	0.48	ug/L			05/21/18 16:30	1
Bromomethane	<0.80		2.0	0.80	ug/L			05/21/18 16:30	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/21/18 16:30	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/21/18 16:30	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/21/18 16:30	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/21/18 16:30	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/21/18 16:30	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/21/18 16:30	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/21/18 16:30	1
Chloroform	<0.37		2.0	0.37	ug/L			05/21/18 16:30	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/21/18 16:30	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/21/18 16:30	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/21/18 16:30	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/21/18 16:30	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/21/18 16:30	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/21/18 16:30	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/21/18 16:30	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/21/18 16:30	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/21/18 16:30	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			05/21/18 16:30	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/21/18 16:30	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/21/18 16:30	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/21/18 16:30	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/21/18 16:30	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/21/18 16:30	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/21/18 16:30	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/21/18 16:30	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/21/18 16:30	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/21/18 16:30	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/21/18 16:30	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/21/18 16:30	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/21/18 16:30	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/21/18 16:30	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/21/18 16:30	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/21/18 16:30	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/21/18 16:30	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/21/18 16:30	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/21/18 16:30	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/21/18 16:30	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/21/18 16:30	1
Styrene	<0.39		1.0	0.39	ug/L			05/21/18 16:30	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/21/18 16:30	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/21/18 16:30	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/21/18 16:30	1
Toluene	<0.15		0.50	0.15	ug/L			05/21/18 16:30	1

TestAmerica Chicago

Client Sample Results

Client: Cedar Corporation
 Project/Site: DNR - 00950-0026

TestAmerica Job ID: 500-145462-1

Client Sample ID: 556 South Eyder Ave Raw

Lab Sample ID: 500-145462-1

Date Collected: 05/09/18 12:00

Matrix: Water

Date Received: 05/15/18 10:00

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/21/18 16:30	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/21/18 16:30	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/21/18 16:30	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/21/18 16:30	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/21/18 16:30	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/21/18 16:30	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			05/21/18 16:30	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/21/18 16:30	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/21/18 16:30	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/21/18 16:30	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/21/18 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 126		05/21/18 16:30	1
Toluene-d8 (Surr)	90		75 - 120		05/21/18 16:30	1
4-Bromofluorobenzene (Surr)	85		72 - 124		05/21/18 16:30	1
Dibromofluoromethane	96		75 - 120		05/21/18 16:30	1

Definitions/Glossary

Client: Cedar Corporation
Project/Site: DNR - 00950-0026

TestAmerica Job ID: 500-145462-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	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: DNR - 00950-0026

TestAmerica Job ID: 500-145462-1

GC/MS VOA

Analysis Batch: 433180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-145462-1	556 South Eyder Ave Raw	Total/NA	Water	8260B	
MB 500-433180/7	Method Blank	Total/NA	Water	8260B	
LCS 500-433180/5	Lab Control Sample	Total/NA	Water	8260B	

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Surrogate Summary

Client: Cedar Corporation
Project/Site: DNR - 00950-0026

TestAmerica Job ID: 500-145462-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (75-126)	TOL (75-120)	BFB (72-124)	DBFM (75-120)
500-145462-1	556 South Eyder Ave Raw	98	90	85	96
LCS 500-433180/5	Lab Control Sample	93	94	86	91
MB 500-433180/7	Method Blank	96	91	86	93

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

QC Sample Results

Client: Cedar Corporation
 Project/Site: DNR - 00950-0026

TestAmerica Job ID: 500-145462-1

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

Lab Sample ID: MB 500-433180/7
Matrix: Water
Analysis Batch: 433180

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			05/21/18 10:56	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/21/18 10:56	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/21/18 10:56	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/21/18 10:56	1
Bromoform	<0.48		1.0	0.48	ug/L			05/21/18 10:56	1
Bromomethane	<0.80		2.0	0.80	ug/L			05/21/18 10:56	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/21/18 10:56	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/21/18 10:56	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/21/18 10:56	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/21/18 10:56	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/21/18 10:56	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/21/18 10:56	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/21/18 10:56	1
Chloroform	<0.37		2.0	0.37	ug/L			05/21/18 10:56	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/21/18 10:56	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/21/18 10:56	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/21/18 10:56	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/21/18 10:56	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/21/18 10:56	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/21/18 10:56	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/21/18 10:56	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/21/18 10:56	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/21/18 10:56	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			05/21/18 10:56	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/21/18 10:56	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/21/18 10:56	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/21/18 10:56	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/21/18 10:56	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/21/18 10:56	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/21/18 10:56	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/21/18 10:56	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/21/18 10:56	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/21/18 10:56	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/21/18 10:56	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/21/18 10:56	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/21/18 10:56	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/21/18 10:56	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/21/18 10:56	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/21/18 10:56	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/21/18 10:56	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/21/18 10:56	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/21/18 10:56	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/21/18 10:56	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/21/18 10:56	1
Styrene	<0.39		1.0	0.39	ug/L			05/21/18 10:56	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/21/18 10:56	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/21/18 10:56	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/21/18 10:56	1

TestAmerica Chicago

QC Sample Results

Client: Cedar Corporation
Project/Site: DNR - 00950-0026

TestAmerica Job ID: 500-145462-1

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

Lab Sample ID: MB 500-433180/7
Matrix: Water
Analysis Batch: 433180

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.15		0.50	0.15	ug/L			05/21/18 10:56	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/21/18 10:56	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/21/18 10:56	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/21/18 10:56	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/21/18 10:56	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/21/18 10:56	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/21/18 10:56	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			05/21/18 10:56	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/21/18 10:56	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/21/18 10:56	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/21/18 10:56	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/21/18 10:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 126		05/21/18 10:56	1
Toluene-d8 (Surr)	91		75 - 120		05/21/18 10:56	1
4-Bromofluorobenzene (Surr)	86		72 - 124		05/21/18 10:56	1
Dibromofluoromethane	93		75 - 120		05/21/18 10:56	1

Lab Sample ID: LCS 500-433180/5
Matrix: Water
Analysis Batch: 433180

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	45.9		ug/L		92	70 - 120
Bromobenzene	50.0	45.2		ug/L		90	70 - 122
Bromochloromethane	50.0	48.1		ug/L		96	65 - 122
Bromodichloromethane	50.0	46.7		ug/L		93	69 - 120
Bromoform	50.0	50.6		ug/L		101	56 - 132
Bromomethane	50.0	54.5		ug/L		109	40 - 130
n-Butylbenzene	50.0	48.0		ug/L		96	68 - 125
sec-Butylbenzene	50.0	48.0		ug/L		96	70 - 123
tert-Butylbenzene	50.0	46.6		ug/L		93	70 - 121
Carbon tetrachloride	50.0	55.0		ug/L		110	65 - 122
Chlorobenzene	50.0	45.6		ug/L		91	70 - 120
Dibromochloromethane	50.0	49.5		ug/L		99	68 - 125
Chloroethane	50.0	55.8		ug/L		112	45 - 127
Chloroform	50.0	46.2		ug/L		92	70 - 120
Chloromethane	50.0	44.9		ug/L		90	54 - 147
2-Chlorotoluene	50.0	45.0		ug/L		90	70 - 125
4-Chlorotoluene	50.0	45.4		ug/L		91	68 - 124
1,2-Dibromo-3-Chloropropane	50.0	46.3		ug/L		93	56 - 123
1,2-Dibromoethane	50.0	46.4		ug/L		93	70 - 125
Dibromomethane	50.0	47.5		ug/L		95	70 - 120
1,2-Dichlorobenzene	50.0	44.5		ug/L		89	70 - 125
1,3-Dichlorobenzene	50.0	45.3		ug/L		91	70 - 125
1,4-Dichlorobenzene	50.0	44.5		ug/L		89	70 - 120
Dichlorodifluoromethane	50.0	54.1		ug/L		108	40 - 150

TestAmerica Chicago

QC Sample Results

Client: Cedar Corporation
Project/Site: DNR - 00950-0026

TestAmerica Job ID: 500-145462-1

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

Lab Sample ID: LCS 500-433180/5
Matrix: Water
Analysis Batch: 433180

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	50.0	46.3		ug/L		93	70 - 125
1,2-Dichloroethane	50.0	47.1		ug/L		94	68 - 127
1,1-Dichloroethene	50.0	52.5		ug/L		105	67 - 122
cis-1,2-Dichloroethene	50.0	48.2		ug/L		96	70 - 125
trans-1,2-Dichloroethene	50.0	50.5		ug/L		101	70 - 125
1,2-Dichloropropane	50.0	44.4		ug/L		89	67 - 130
1,3-Dichloropropane	50.0	45.5		ug/L		91	62 - 136
2,2-Dichloropropane	50.0	52.6		ug/L		105	58 - 129
1,1-Dichloropropene	50.0	49.9		ug/L		100	70 - 121
cis-1,3-Dichloropropene	50.0	46.2		ug/L		92	64 - 127
trans-1,3-Dichloropropene	50.0	47.3		ug/L		95	62 - 128
Ethylbenzene	50.0	49.0		ug/L		98	70 - 120
Hexachlorobutadiene	50.0	45.8		ug/L		92	51 - 150
Isopropylbenzene	50.0	46.6		ug/L		93	70 - 126
p-Isopropyltoluene	50.0	47.6		ug/L		95	70 - 125
Methylene Chloride	50.0	45.5		ug/L		91	69 - 125
Methyl tert-butyl ether	50.0	46.2		ug/L		92	70 - 120
Naphthalene	50.0	42.9		ug/L		86	59 - 130
N-Propylbenzene	50.0	47.0		ug/L		94	69 - 127
Styrene	50.0	46.3		ug/L		93	70 - 120
1,1,1,2-Tetrachloroethane	50.0	49.4		ug/L		99	70 - 125
1,1,1,2,2-Tetrachloroethane	50.0	43.7		ug/L		87	67 - 127
Tetrachloroethene	50.0	50.4		ug/L		101	70 - 128
Toluene	50.0	47.4		ug/L		95	70 - 125
1,2,3-Trichlorobenzene	50.0	44.7		ug/L		89	55 - 140
1,2,4-Trichlorobenzene	50.0	45.0		ug/L		90	66 - 127
1,1,1-Trichloroethane	50.0	50.4		ug/L		101	70 - 125
1,1,2-Trichloroethane	50.0	45.8		ug/L		92	70 - 122
Trichloroethene	50.0	50.3		ug/L		101	70 - 125
Trichlorofluoromethane	50.0	56.6		ug/L		113	70 - 126
1,2,3-Trichloropropane	50.0	45.3		ug/L		91	50 - 133
1,2,4-Trimethylbenzene	50.0	45.0		ug/L		90	70 - 123
1,3,5-Trimethylbenzene	50.0	46.1		ug/L		92	70 - 123
Vinyl chloride	50.0	49.5		ug/L		99	64 - 126
Xylenes, Total	100	95.6		ug/L		96	70 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	93		75 - 126
Toluene-d8 (Surr)	94		75 - 120
4-Bromofluorobenzene (Surr)	86		72 - 124
Dibromofluoromethane	91		75 - 120

Lab Chronicle

Client: Cedar Corporation
Project/Site: DNR - 00950-0026

TestAmerica Job ID: 500-145462-1

Client Sample ID: 556 South Eyder Ave Raw

Lab Sample ID: 500-145462-1

Date Collected: 05/09/18 12:00

Matrix: Water

Date Received: 05/15/18 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	433180	05/21/18 16:30	EMA	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Accreditation/Certification Summary

Client: Cedar Corporation
Project/Site: DNR - 00950-0026

TestAmerica Job ID: 500-145462-1

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

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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 Everson
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# 500-145462 COC



Chain of Custody Record

Lab Job #: 500-145462
 Chain of Custody Number: _____
 Page 1 of 1
 Temperature °C of Cooler: 2.1

Client		Client Project #		Preservative		Parameter		Comments	
<u>Cedar Corp</u>		<u>00950-0026</u>		<u>1</u>		<u>VOCs</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 #		# of Containers		Matrix		Comments	
<u>DNR</u>				<u>3</u>		<u>AW</u>			
Project Location/State		Lab PM		Date		Time		Comments	
<u>Phillips, WI</u>		<u>Sandie Fredrick</u>		<u>5/14/18</u>		<u>1200</u>			
Sampler		Sample ID		Date		Time		Comments	
<u>KAL</u>		<u>556 South Eyder Ave Row</u>		<u>5/14/18</u>		<u>1200</u>		<u>X</u>	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Comments		
<u>1</u>		<u>556 South Eyder Ave Row</u>	<u>5/14/18</u>	<u>1200</u>	<u>3</u>	<u>AW</u>	<u>X</u>		

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>Kirsten Lee</u>	Company <u>Cedar Corp</u>	Date <u>5/14/18</u>	Time <u>1200</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>05/15/18</u>	Time <u>1000</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: _____
 Shipped:
 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

Lab Comments:

Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-145462-1

Login Number: 145462

List Source: TestAmerica Chicago

List Number: 1

Creator: Kelsey, Shawn 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	2.1c
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	