



May 7, 2018

Karl Knutson  
Wisconsin Department of Natural Resources  
South Central Region  
3911 Fish Hatchery Rd.  
Fitchburg, WI 53711

Subject: Discharge Monitoring Report - Groundwater Extraction and Treatment System,  
Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin

Dear Mr. Knutson,

The Groundwater Extraction and Treatment System (GETS) ran for the month of April with the exception of maintenance activities. This letter summarizes the activities completed in April 2018 as part of the GETS at the Madison-Kipp Corporation (MKC) site under the Wisconsin Pollution Discharge Elimination System (WPDES) Permit WI-0046566-6.

The GETS flow rate was operated between 35 and 40 gallons per minute (gpm) between April 20 and 23, 2018 to avoid water extraction into the vapor phase activated carbon vessels while repairs to the soil vapor extraction (SVE) were completed. On April 27, 2018 the GETS was shut down for maintenance which was completed through the end of April 2018. Otherwise the GETS flow rate was 45 gpm.

Compliance samples were collected for volatile organic compounds and visual monitoring for sodium permanganate on April 3, 2018. The compliance sample results for all parameters were below the WPDES discharge limits. The Discharge Monitoring Report for April 2018 is included as Attachment A and laboratory reports are included as Attachment B.

If you have any questions or need additional information, please contact me at [msheppard@madison-kipp.com](mailto:msheppard@madison-kipp.com) or (608) 242-5207.

Mark Sheppard

A handwritten signature in blue ink, appearing to read "Mark Sheppard", is written over a light blue horizontal line.

Madison-Kipp Corporation

Attachment A Discharge Monitoring Report Form  
Attachment B Laboratory Reports



Copies:

Andrew Stehn / Katherine Vater - TRC (electronic)

Mike Schmoller - WDNR (electronic)

Wendy Weihemuller - WDNR (electronic)

George Parrino - Madison Department of Health (electronic)

Attachment A  
Discharge Monitoring Report Form





Attachment B  
Laboratory Reports

# 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: 500-143266-1

Client Project/Site: MadisonKipp - GETS 292257

For:

TRC Environmental Corporation.

708 Heartland Trail

Suite 3000

Madison, Wisconsin 53717

Attn: Andrew Stehn



Authorized for release by:

4/11/2018 10:27:43 AM

Sandie Fredrick, Project Manager II

(920)261-1660

[sandie.fredrick@testamericainc.com](mailto:sandie.fredrick@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://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: TRC Environmental Corporation.  
Project/Site: MadisonKipp - GETS 292257

TestAmerica Job ID: 500-143266-1

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**Job ID: 500-143266-1**

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**Laboratory: TestAmerica Chicago**

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**Narrative**

**Job Narrative  
500-143266-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 4/4/2018 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4° C.

**GC/MS VOA**

Method(s) 624: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (500-143266-1). Elevated reporting limits (RLs) are provided.

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

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# Detection Summary

Client: TRC Environmental Corporation.  
Project/Site: MadisonKipp - GETS 292257

TestAmerica Job ID: 500-143266-1

## Client Sample ID: Influent

Lab Sample ID: 500-143266-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	110		5.0	2.0	ug/L	5		624	Total/NA
Trichloroethene	160		2.5	0.82	ug/L	5		624	Total/NA
Tetrachloroethene - DL	1700		50	19	ug/L	50		624	Total/NA

## Client Sample ID: Effluent

Lab Sample ID: 500-143266-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	15		1.0	0.41	ug/L	1		624	Total/NA
Tetrachloroethene	20		1.0	0.37	ug/L	1		624	Total/NA
Trichloroethene	5.4		0.50	0.16	ug/L	1		624	Total/NA

## Client Sample ID: Trip Blank

Lab Sample ID: 500-143266-3

No Detections.

This Detection Summary does not include radiochemical test results.

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# Method Summary

Client: TRC Environmental Corporation.  
Project/Site: MadisonKipp - GETS 292257

TestAmerica Job ID: 500-143266-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL CHI

**Protocol References:**

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

**Laboratory References:**

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



# Sample Summary

Client: TRC Environmental Corporation.  
Project/Site: MadisonKipp - GETS 292257

TestAmerica Job ID: 500-143266-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-143266-1	Influent	Water	04/03/18 09:45	04/04/18 09:10
500-143266-2	Effluent	Water	04/03/18 09:55	04/04/18 09:10
500-143266-3	Trip Blank	Water	04/03/18 00:00	04/04/18 09:10

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# Client Sample Results

Client: TRC Environmental Corporation.  
Project/Site: MadisonKipp - GETS 292257

TestAmerica Job ID: 500-143266-1

**Client Sample ID: Influent**

**Date Collected: 04/03/18 09:45**

**Date Received: 04/04/18 09:10**

**Lab Sample ID: 500-143266-1**

**Matrix: Water**

**Method: 624 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.73		2.5	0.73	ug/L			04/11/18 01:02	5
Bromoform	<2.2		5.0	2.2	ug/L			04/11/18 01:02	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			04/11/18 01:02	5
Chloroform	<1.9		10	1.9	ug/L			04/11/18 01:02	5
<b>cis-1,2-Dichloroethene</b>	<b>110</b>		5.0	2.0	ug/L			04/11/18 01:02	5
Dichlorobromomethane	<1.9		5.0	1.9	ug/L			04/11/18 01:02	5
1,2-Dichloroethane	<2.0		5.0	2.0	ug/L			04/11/18 01:02	5
1,1-Dichloroethene	<2.0		5.0	2.0	ug/L			04/11/18 01:02	5
Ethylbenzene	<0.92		2.5	0.92	ug/L			04/11/18 01:02	5
Methyl bromide	<3.2		10	3.2	ug/L			04/11/18 01:02	5
Methyl chloride	<1.6		5.0	1.6	ug/L			04/11/18 01:02	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			04/11/18 01:02	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			04/11/18 01:02	5
Toluene	<0.76		2.5	0.76	ug/L			04/11/18 01:02	5
trans-1,2-Dichloroethene	<1.7		5.0	1.7	ug/L			04/11/18 01:02	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			04/11/18 01:02	5
1,1,2-Trichloroethane	<1.8		5.0	1.8	ug/L			04/11/18 01:02	5
<b>Trichloroethene</b>	<b>160</b>		2.5	0.82	ug/L			04/11/18 01:02	5
Vinyl chloride	<1.0		5.0	1.0	ug/L			04/11/18 01:02	5
Xylenes, Total	<2.0		5.0	2.0	ug/L			04/11/18 01:02	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		71 - 120		04/11/18 01:02	5
1,2-Dichloroethane-d4 (Surr)	105		71 - 127		04/11/18 01:02	5
Toluene-d8 (Surr)	101		75 - 120		04/11/18 01:02	5

**Method: 624 - Volatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Tetrachloroethene</b>	<b>1700</b>		50	19	ug/L			04/11/18 01:29	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		71 - 120		04/11/18 01:29	50
1,2-Dichloroethane-d4 (Surr)	108		71 - 127		04/11/18 01:29	50
Toluene-d8 (Surr)	101		75 - 120		04/11/18 01:29	50

**Client Sample ID: Effluent**

**Date Collected: 04/03/18 09:55**

**Date Received: 04/04/18 09:10**

**Lab Sample ID: 500-143266-2**

**Matrix: Water**

**Method: 624 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			04/11/18 01:55	1
Bromoform	<0.45		1.0	0.45	ug/L			04/11/18 01:55	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/11/18 01:55	1
Chloroform	<0.37		2.0	0.37	ug/L			04/11/18 01:55	1
<b>cis-1,2-Dichloroethene</b>	<b>15</b>		1.0	0.41	ug/L			04/11/18 01:55	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			04/11/18 01:55	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/11/18 01:55	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/11/18 01:55	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/11/18 01:55	1

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# Client Sample Results

Client: TRC Environmental Corporation.  
Project/Site: MadisonKipp - GETS 292257

TestAmerica Job ID: 500-143266-1

**Client Sample ID: Effluent**

**Lab Sample ID: 500-143266-2**

**Date Collected: 04/03/18 09:55**

**Matrix: Water**

**Date Received: 04/04/18 09:10**

**Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl bromide	<0.65		2.0	0.65	ug/L			04/11/18 01:55	1
Methyl chloride	<0.32		1.0	0.32	ug/L			04/11/18 01:55	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/11/18 01:55	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/11/18 01:55	1
<b>Tetrachloroethene</b>	<b>20</b>		1.0	0.37	ug/L			04/11/18 01:55	1
Toluene	<0.15		0.50	0.15	ug/L			04/11/18 01:55	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/11/18 01:55	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/11/18 01:55	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/11/18 01:55	1
<b>Trichloroethene</b>	<b>5.4</b>		0.50	0.16	ug/L			04/11/18 01:55	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/11/18 01:55	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			04/11/18 01:55	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	102		71 - 120					04/11/18 01:55	1
1,2-Dichloroethane-d4 (Surr)	104		71 - 127					04/11/18 01:55	1
Toluene-d8 (Surr)	102		75 - 120					04/11/18 01:55	1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 500-143266-3**

**Date Collected: 04/03/18 00:00**

**Matrix: Water**

**Date Received: 04/04/18 09:10**

**Method: 624 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			04/11/18 02:22	1
Bromoform	<0.45		1.0	0.45	ug/L			04/11/18 02:22	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/11/18 02:22	1
Chloroform	<0.37		2.0	0.37	ug/L			04/11/18 02:22	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/11/18 02:22	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			04/11/18 02:22	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/11/18 02:22	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/11/18 02:22	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/11/18 02:22	1
Methyl bromide	<0.65		2.0	0.65	ug/L			04/11/18 02:22	1
Methyl chloride	<0.32		1.0	0.32	ug/L			04/11/18 02:22	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/11/18 02:22	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/11/18 02:22	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/11/18 02:22	1
Toluene	<0.15		0.50	0.15	ug/L			04/11/18 02:22	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/11/18 02:22	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/11/18 02:22	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/11/18 02:22	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/11/18 02:22	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/11/18 02:22	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			04/11/18 02:22	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	103		71 - 120					04/11/18 02:22	1
1,2-Dichloroethane-d4 (Surr)	105		71 - 127					04/11/18 02:22	1
Toluene-d8 (Surr)	102		75 - 120					04/11/18 02:22	1

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## Definitions/Glossary

Client: TRC Environmental Corporation.  
Project/Site: MadisonKipp - GETS 292257

TestAmerica Job ID: 500-143266-1

### 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: TRC Environmental Corporation.  
Project/Site: MadisonKipp - GETS 292257

TestAmerica Job ID: 500-143266-1

## GC/MS VOA

### Analysis Batch: 427066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-143266-1	Influent	Total/NA	Water	624	
500-143266-1 - DL	Influent	Total/NA	Water	624	
500-143266-2	Effluent	Total/NA	Water	624	
500-143266-3	Trip Blank	Total/NA	Water	624	
MB 500-427066/28	Method Blank	Total/NA	Water	624	
LCS 500-427066/27	Lab Control Sample	Total/NA	Water	624	



# Surrogate Summary

Client: TRC Environmental Corporation.  
Project/Site: MadisonKipp - GETS 292257

TestAmerica Job ID: 500-143266-1

## Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (71-120)	DCA (71-127)	TOL (75-120)
500-143266-1	Influent	102	105	101
500-143266-1 - DL	Influent	105	108	101
500-143266-2	Effluent	102	104	102
500-143266-3	Trip Blank	103	105	102
LCS 500-427066/27	Lab Control Sample	103	102	101
MB 500-427066/28	Method Blank	102	101	104

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

TOL = Toluene-d8 (Surr)

# QC Sample Results

Client: TRC Environmental Corporation.  
Project/Site: MadisonKipp - GETS 292257

TestAmerica Job ID: 500-143266-1

## Method: 624 - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 500-427066/28**

**Matrix: Water**

**Analysis Batch: 427066**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			04/10/18 21:52	1
Bromoform	<0.45		1.0	0.45	ug/L			04/10/18 21:52	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/10/18 21:52	1
Chloroform	<0.37		2.0	0.37	ug/L			04/10/18 21:52	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/10/18 21:52	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			04/10/18 21:52	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/10/18 21:52	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/10/18 21:52	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/10/18 21:52	1
Methyl bromide	<0.65		2.0	0.65	ug/L			04/10/18 21:52	1
Methyl chloride	<0.32		1.0	0.32	ug/L			04/10/18 21:52	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/10/18 21:52	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/10/18 21:52	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/10/18 21:52	1
Toluene	<0.15		0.50	0.15	ug/L			04/10/18 21:52	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/10/18 21:52	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/10/18 21:52	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/10/18 21:52	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/10/18 21:52	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/10/18 21:52	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			04/10/18 21:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		71 - 120		04/10/18 21:52	1
1,2-Dichloroethane-d4 (Surr)	101		71 - 127		04/10/18 21:52	1
Toluene-d8 (Surr)	104		75 - 120		04/10/18 21:52	1

**Lab Sample ID: LCS 500-427066/27**

**Matrix: Water**

**Analysis Batch: 427066**

**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	46.5		ug/L		93	37 - 151
Bromoform	50.0	54.4		ug/L		109	45 - 169
Carbon tetrachloride	50.0	42.2		ug/L		84	70 - 140
Chloroform	50.0	45.1		ug/L		90	51 - 138
cis-1,2-Dichloroethene	50.0	44.2		ug/L		88	70 - 130
Dichlorobromomethane	50.0	48.7		ug/L		97	35 - 155
1,2-Dichloroethane	50.0	49.9		ug/L		100	49 - 155
1,1-Dichloroethene	50.0	42.1		ug/L		84	10 - 234
Ethylbenzene	50.0	46.2		ug/L		92	37 - 162
Methyl bromide	50.0	47.0		ug/L		94	10 - 242
Methyl chloride	50.0	49.6		ug/L		99	10 - 273
m&p-Xylene	50.0	51.0		ug/L		102	
o-Xylene	50.0	51.7		ug/L		103	
1,1,2,2-Tetrachloroethane	50.0	56.9		ug/L		114	46 - 157
Tetrachloroethene	50.0	47.9		ug/L		96	64 - 148
Toluene	50.0	50.5		ug/L		101	47 - 150

TestAmerica Chicago

# QC Sample Results

Client: TRC Environmental Corporation.  
 Project/Site: MadisonKipp - GETS 292257

TestAmerica Job ID: 500-143266-1

## Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-427066/27

Matrix: Water

Analysis Batch: 427066

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	50.0	43.5		ug/L		87	54 - 156
1,1,1-Trichloroethane	50.0	42.6		ug/L		85	52 - 162
1,1,2-Trichloroethane	50.0	54.6		ug/L		109	52 - 150
Trichloroethene	50.0	45.2		ug/L		90	71 - 157
Vinyl chloride	50.0	47.4		ug/L		95	10 - 251

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		71 - 120
1,2-Dichloroethane-d4 (Surr)	102		71 - 127
Toluene-d8 (Surr)	101		75 - 120

# Lab Chronicle

Client: TRC Environmental Corporation.  
Project/Site: MadisonKipp - GETS 292257

TestAmerica Job ID: 500-143266-1

## Client Sample ID: Influent

Date Collected: 04/03/18 09:45

Date Received: 04/04/18 09:10

Lab Sample ID: 500-143266-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		5	427066	04/11/18 01:02	JDD	TAL CHI
Total/NA	Analysis	624	DL	50	427066	04/11/18 01:29	JDD	TAL CHI

## Client Sample ID: Effluent

Date Collected: 04/03/18 09:55

Date Received: 04/04/18 09:10

Lab Sample ID: 500-143266-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	427066	04/11/18 01:55	JDD	TAL CHI

## Client Sample ID: Trip Blank

Date Collected: 04/03/18 00:00

Date Received: 04/04/18 09:10

Lab Sample ID: 500-143266-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	427066	04/11/18 02:22	JDD	TAL CHI

### Laboratory References:

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

# Accreditation/Certification Summary

Client: TRC Environmental Corporation.  
Project/Site: MadisonKipp - GETS 292257

TestAmerica Job ID: 500-143266-1

## 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)	Bill To (optional)
Contact: <u>Andy Stehn</u>	Contact: _____
Company: <u>TRC</u>	Company: <u>Same</u>
Address: <u>700 Hartland Trail</u>	Address: _____
Address: <u>Suite 3006 Madison WI 53717</u>	Address: <u>as</u>
Phone: <u>(608) 826-3665</u>	Phone: <u>reporting</u>
Fax: _____	Fax: _____
E-Mail: <u>astehn@trcsolutions.com</u>	PO#/Reference# _____

## Chain of Custody Record

Lab Job #: 500-143266

Chain of Custody Number: \_\_\_\_\_

Page 1 of 1

Temperature °C of Cooler: 1.9 → 3.4

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		Comments		
Project Location/State		Lab PM		Date	Time					
Lab ID	MS/MSD	Sample ID								
<u>MKC</u>		<u>292257</u>								VOC's X
<u>GETS</u>										
<u>Madison WI</u>		<u>Sandy Fredrick</u>								
<u>Schm Koelke</u>										
<u>1</u>		<u>Influent</u>	<u>4/3/18</u>	<u>9:45</u>	<u>3</u>	<u>W</u>	<u>X</u>			
<u>2</u>		<u>Effluent</u>	<u>4/3/18</u>	<u>9:55</u>	<u>3</u>	<u>W</u>	<u>X</u>			
<u>3</u>		<u>Top Blank</u>	<u>3/30/18</u>	<u>-</u>	<u>1</u>	<u>W</u>	<u>X</u>			

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days  5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days \_\_\_ Other

Requested Due Date: \_\_\_\_\_


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

Relinquished By: <u>[Signature]</u>	Company: <u>TRC</u>	Date: <u>4/3/18</u>	Time: <u>14:30</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>04/04/18</u>	Time: <u>0910</u>	Lab Courier: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Shipped: <input checked="" type="checkbox"/>
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	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: See Additional sheet

Lab Comments:



500-143266 COC

500-143266

Parameter	Method
<b>VOCs</b>	
Bromoform	624
Carbon Tetrachloride	624
Dichlorobromomethane	624
1,2-Dichloroethane	624
1,1-Dichloroethylene	624
Methyl Bromide	624
Methyl Chloride	624
1,1,2,2-Tetrachloroethane	624
Tetrachloroethylene	624
1,1,2-Trichloroethane	624
1,1,1-Trichloroethane	624
Trichloroethylene	624
Vinyl Chloride	624
Cis-1,2-Dichloroethene	624
Trans-1,2-Dichloroethene	624
<b>TSS</b>	
Suspended Solids, Total	2540D
<b>BTEX</b>	
Benzene	624
Toluene	
Ethylbenzene	
Xylenes	



# Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-143266-1

**Login Number: 143266**

**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	3.4c
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	

