



**Madison-Kipp  
Corporation**

Post Office Box 8043  
Madison, WI 53708-8043

201 Waubesa Street  
Madison, WI 53704-5728

January 9, 2017

Alan Hopfensperfer  
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. Hopfensperfer,

The Groundwater Extraction and Treatment System (GETS) ran for the month of December, with the exception of maintenance activities. This letter summarizes the activities completed in December 2016 as part of the GETS at the Madison Kipp Corporation (MKC) site under the Wisconsin Pollution Discharge Elimination System (WPDES) Permit WI-0046566-6. Compliance samples were collected on December 7, 2016 per the WPDES permit, including visual monitoring for sodium permanganate neutralization. The compliance sample results were below the WPDES discharge limits. The Discharge Monitoring Report is included as Attachment A and laboratory reports are included as Attachment B.

During the latter part of the month of November, the GETS was shut down for approximately three days while troubleshooting an issue with one of the transfer pumps. The pump was replaced on December 2, 2016 and the system operated for the remainder of the month of December. If you have any questions or need additional information, please contact Andrew Stehn of TRC Environmental at [astehn@trcsolutions.com](mailto:astehn@trcsolutions.com) or (608) 826-3665.

Mark Sheppard

Madison Kipp Corporation

Attachment A Discharge Monitoring Report Form

Attachment B Laboratory Reports

Copies:

Andrew Stehn - TRC (electronic)

Mike Schmoller - WDNR (electronic)

Wendy Weihemuller - WDNR (electronic)

George Parrino - Madison Department of Health (electronic)



treatment									
Sample Type	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	

**FOOTNOTES:**

- (1) Total BTEX is the sum of the benzene, ethylbenzene, toluene and xylene concentrations. If all compounds were below their corresponding laboratory detection limits, then the highest detection limit of the BTEX compounds was noted.
- (2) PAH group of 10 (Polynuclear Aromatic Hydrocarbons) include the sum of the following individual compounds: benzo(a)anthracene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene. If all compounds were below their corresponding laboratory detection limits, then the highest detection limit of the PAH group compounds was noted.
- (3) Madison Kipp/TRC will conduct visual monitoring for this compound.
- (4) No effluent limit is established, refer to section 4 of the permit.
- (5) Compound was found in the blank and in the sample.
- (6) Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the detection limit.
- (7) Matrix Spike and/or Matrix Spike Duplicate Recovery is outside acceptance limits.

**DIRECTIONS:**

- For "Outfall # and Description" enter the number of the outfall you are reporting (001 or 002, etc.)
- Monitoring for a given parameter depends on if the discharge is to surface water or groundwater.
- The value entered must be the highest value of all samples analyzed for that day.
- Print additional DMRs as necessary for monthly reporting.

RETURN REPORT BY: February 15, of the year following completion of monitoring

RETURN TO: **ATTN: Nicholas Bertolas**  
**Department of Natural Resources**  
**3911 Fish Hatchery Rd.**  
**Fitchburg, WI 53711**

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment, (40 CFR 122.5). I also certify that the values being submitted are the actual values found in the samples; no values have been modified or changed in any manner. Wherever I believe a value being reported is inaccurate, I have added an explanation indicating the reasons why the value is inaccurate.

*Andrew M. Steh*

01/05/2017

Signature of Person Completing Form

Date

*[Signature]*

1-9-17

Signature of Principal, Exec. or Authorized Agent

Date

# 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: 500-121156-1

Client Project/Site: MadisonKipp - GETS/SVE

For:

Madison-Kipp Corporation

201 Waubesa Street

Madison, Wisconsin 53704

Attn: Alina Satkoski



Authorized for release by:

12/12/2016 3:51:57 PM

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: Madison-Kipp Corporation  
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-121156-1

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**Job ID: 500-121156-1**

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**Laboratory: TestAmerica Chicago**

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**Narrative**

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**Job Narrative**  
**500-121156-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 12/8/2016 9:00 AM; the samples 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**

Method(s) 624: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (500-121156-2). 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.

**General Chemistry**

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



# Detection Summary

Client: Madison-Kipp Corporation  
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-121156-1

## Client Sample ID: Effluent

Lab Sample ID: 500-121156-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	18		1.0	0.41	ug/L	1		624	Total/NA
Tetrachloroethene	28		1.0	0.37	ug/L	1		624	Total/NA
Trichloroethene	6.5		0.50	0.16	ug/L	1		624	Total/NA
Chloride	100	B	5.0	1.9	mg/L	25		300.0	Total/NA

## Client Sample ID: Influent

Lab Sample ID: 500-121156-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene - DL	1700		10	3.7	ug/L	10		624	Total/NA
Chloride	110	B	5.0	1.9	mg/L	25		300.0	Total/NA

## Client Sample ID: Trip Blank

Lab Sample ID: 500-121156-3

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Method Summary

Client: Madison-Kipp Corporation  
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-121156-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL CHI
1664B	HEM and SGT-HEM	1664B	TAL CHI
300.0	Anions, Ion Chromatography	MCAWW	TAL CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL CHI

#### Protocol References:

1664B = 1664B

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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

#### Laboratory References:

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



# Sample Summary

Client: Madison-Kipp Corporation  
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-121156-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-121156-1	Effluent	Water	12/07/16 09:40	12/08/16 09:00
500-121156-2	Influent	Water	12/07/16 09:55	12/08/16 09:00
500-121156-3	Trip Blank	Water	12/07/16 00:00	12/08/16 09:00

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# Client Sample Results

Client: Madison-Kipp Corporation  
 Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-121156-1

**Client Sample ID: Effluent**

**Date Collected: 12/07/16 09:40**

**Date Received: 12/08/16 09:00**

**Lab Sample ID: 500-121156-1**

**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			12/10/16 12:20	1
Bromoform	<0.45		1.0	0.45	ug/L			12/10/16 12:20	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/10/16 12:20	1
Chloroform	<0.37		1.0	0.37	ug/L			12/10/16 12:20	1
<b>cis-1,2-Dichloroethene</b>	<b>18</b>		1.0	0.41	ug/L			12/10/16 12:20	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			12/10/16 12:20	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/10/16 12:20	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/10/16 12:20	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/10/16 12:20	1
Methyl bromide	<0.65		2.0	0.65	ug/L			12/10/16 12:20	1
Methyl chloride	<0.32		1.0	0.32	ug/L			12/10/16 12:20	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/10/16 12:20	1
1,1,1,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/10/16 12:20	1
<b>Tetrachloroethene</b>	<b>28</b>		1.0	0.37	ug/L			12/10/16 12:20	1
Toluene	<0.15		0.50	0.15	ug/L			12/10/16 12:20	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/10/16 12:20	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/10/16 12:20	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/10/16 12:20	1
<b>Trichloroethene</b>	<b>6.5</b>		0.50	0.16	ug/L			12/10/16 12:20	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			12/10/16 12:20	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			12/10/16 12:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		71 - 120		12/10/16 12:20	1
1,2-Dichloroethane-d4 (Surr)	109		71 - 127		12/10/16 12:20	1
Toluene-d8 (Surr)	101		75 - 120		12/10/16 12:20	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	<1.4		5.4	1.4	mg/L		12/08/16 16:39	12/08/16 19:28	1
<b>Chloride</b>	<b>100</b>	<b>B</b>	5.0	1.9	mg/L			12/09/16 23:37	25
Total Suspended Solids	<2.5		5.0	2.5	mg/L			12/08/16 12:26	1

# Client Sample Results

Client: Madison-Kipp Corporation  
 Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-121156-1

## Client Sample ID: Influent

Date Collected: 12/07/16 09:55

Date Received: 12/08/16 09:00

## Lab Sample ID: 500-121156-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.29		1.0	0.29	ug/L			12/12/16 12:20	2
Bromoform	<0.89		2.0	0.89	ug/L			12/12/16 12:20	2
Carbon tetrachloride	<0.77		2.0	0.77	ug/L			12/12/16 12:20	2
Chloroform	<0.74		2.0	0.74	ug/L			12/12/16 12:20	2
cis-1,2-Dichloroethene	<0.82		2.0	0.82	ug/L			12/12/16 12:20	2
Dichlorobromomethane	<0.74		2.0	0.74	ug/L			12/12/16 12:20	2
1,2-Dichloroethane	<0.78		2.0	0.78	ug/L			12/12/16 12:20	2
1,1-Dichloroethene	<0.78		2.0	0.78	ug/L			12/12/16 12:20	2
Ethylbenzene	<0.37		1.0	0.37	ug/L			12/12/16 12:20	2
Methyl bromide	<1.3		4.0	1.3	ug/L			12/12/16 12:20	2
Methyl chloride	<0.64		2.0	0.64	ug/L			12/12/16 12:20	2
Methyl tert-butyl ether	<0.79		2.0	0.79	ug/L			12/12/16 12:20	2
1,1,1,2-Tetrachloroethane	<0.80		2.0	0.80	ug/L			12/12/16 12:20	2
Toluene	<0.30		1.0	0.30	ug/L			12/12/16 12:20	2
trans-1,2-Dichloroethene	<0.70		2.0	0.70	ug/L			12/12/16 12:20	2
1,1,1-Trichloroethane	<0.76		2.0	0.76	ug/L			12/12/16 12:20	2
1,1,2-Trichloroethane	<0.70		2.0	0.70	ug/L			12/12/16 12:20	2
Trichloroethene	<0.33		1.0	0.33	ug/L			12/12/16 12:20	2
Vinyl chloride	<0.41		1.0	0.41	ug/L			12/12/16 12:20	2
Xylenes, Total	<0.80		2.0	0.80	ug/L			12/12/16 12:20	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		71 - 120		12/12/16 12:20	2
1,2-Dichloroethane-d4 (Surr)	91		71 - 127		12/12/16 12:20	2
Toluene-d8 (Surr)	94		75 - 120		12/12/16 12:20	2

### 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>		10	3.7	ug/L			12/10/16 12:47	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		71 - 120		12/10/16 12:47	10
1,2-Dichloroethane-d4 (Surr)	109		71 - 127		12/10/16 12:47	10
Toluene-d8 (Surr)	101		75 - 120		12/10/16 12:47	10

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	<1.4		5.1	1.4	mg/L		12/08/16 16:49	12/08/16 19:36	1
<b>Chloride</b>	<b>110</b>	<b>B</b>	5.0	1.9	mg/L			12/09/16 23:49	25
Total Suspended Solids	<2.5		5.0	2.5	mg/L			12/08/16 12:27	1

# Client Sample Results

Client: Madison-Kipp Corporation  
 Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-121156-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 500-121156-3**

**Date Collected: 12/07/16 00:00**

**Matrix: Water**

**Date Received: 12/08/16 09:00**

**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			12/10/16 13:43	1
Bromoform	<0.45		1.0	0.45	ug/L			12/10/16 13:43	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/10/16 13:43	1
Chloroform	<0.37		1.0	0.37	ug/L			12/10/16 13:43	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/10/16 13:43	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			12/10/16 13:43	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/10/16 13:43	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/10/16 13:43	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/10/16 13:43	1
Methyl bromide	<0.65		2.0	0.65	ug/L			12/10/16 13:43	1
Methyl chloride	<0.32		1.0	0.32	ug/L			12/10/16 13:43	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/10/16 13:43	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/10/16 13:43	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/10/16 13:43	1
Toluene	<0.15		0.50	0.15	ug/L			12/10/16 13:43	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/10/16 13:43	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/10/16 13:43	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/10/16 13:43	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/10/16 13:43	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			12/10/16 13:43	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			12/10/16 13:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		71 - 120		12/10/16 13:43	1
1,2-Dichloroethane-d4 (Surr)	110		71 - 127		12/10/16 13:43	1
Toluene-d8 (Surr)	99		75 - 120		12/10/16 13:43	1

# Definitions/Glossary

Client: Madison-Kipp Corporation  
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-121156-1

## Qualifiers

### General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# QC Association Summary

Client: Madison-Kipp Corporation  
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-121156-1

## GC/MS VOA

### Analysis Batch: 364500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121156-1	Effluent	Total/NA	Water	624	
500-121156-2 - DL	Influent	Total/NA	Water	624	
500-121156-3	Trip Blank	Total/NA	Water	624	
MB 500-364500/7	Method Blank	Total/NA	Water	624	
LCS 500-364500/5	Lab Control Sample	Total/NA	Water	624	

### Analysis Batch: 364589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121156-2	Influent	Total/NA	Water	624	
MB 500-364589/7	Method Blank	Total/NA	Water	624	
LCS 500-364589/5	Lab Control Sample	Total/NA	Water	624	

## General Chemistry

### Analysis Batch: 364191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121156-1	Effluent	Total/NA	Water	SM 2540D	
500-121156-2	Influent	Total/NA	Water	SM 2540D	
MB 500-364191/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-364191/2	Lab Control Sample	Total/NA	Water	SM 2540D	
500-121156-2 MS	Influent	Total/NA	Water	SM 2540D	
500-121156-2 DU	Influent	Total/NA	Water	SM 2540D	

### Prep Batch: 364235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121156-1	Effluent	Total/NA	Water	1664B	
500-121156-2	Influent	Total/NA	Water	1664B	
MB 500-364235/1-A	Method Blank	Total/NA	Water	1664B	
LCS 500-364235/2-A	Lab Control Sample	Total/NA	Water	1664B	
500-121156-1 MS	Effluent	Total/NA	Water	1664B	

### Analysis Batch: 364239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121156-1	Effluent	Total/NA	Water	1664B	364235
500-121156-2	Influent	Total/NA	Water	1664B	364235
MB 500-364235/1-A	Method Blank	Total/NA	Water	1664B	364235
LCS 500-364235/2-A	Lab Control Sample	Total/NA	Water	1664B	364235
500-121156-1 MS	Effluent	Total/NA	Water	1664B	364235

### Analysis Batch: 364516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121156-1	Effluent	Total/NA	Water	300.0	
500-121156-2	Influent	Total/NA	Water	300.0	
MB 500-364516/3	Method Blank	Total/NA	Water	300.0	
LCS 500-364516/4	Lab Control Sample	Total/NA	Water	300.0	

TestAmerica Chicago

# Surrogate Summary

Client: Madison-Kipp Corporation  
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-121156-1

## 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)	12DCE (71-127)	TOL (75-120)
500-121156-1	Effluent	102	109	101
500-121156-2 - DL	Influent	104	109	101
500-121156-2	Influent	104	91	94
500-121156-3	Trip Blank	102	110	99
LCS 500-364500/5	Lab Control Sample	105	106	100
LCS 500-364589/5	Lab Control Sample	102	89	97
MB 500-364500/7	Method Blank	105	109	101
MB 500-364589/7	Method Blank	104	92	97

### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

# QC Sample Results

Client: Madison-Kipp Corporation  
 Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-121156-1

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

**Lab Sample ID: MB 500-364500/7**  
**Matrix: Water**  
**Analysis Batch: 364500**

**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			12/10/16 10:56	1
Bromoform	<0.45		1.0	0.45	ug/L			12/10/16 10:56	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/10/16 10:56	1
Chloroform	<0.37		1.0	0.37	ug/L			12/10/16 10:56	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/10/16 10:56	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			12/10/16 10:56	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/10/16 10:56	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/10/16 10:56	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/10/16 10:56	1
Methyl bromide	<0.65		2.0	0.65	ug/L			12/10/16 10:56	1
Methyl chloride	<0.32		1.0	0.32	ug/L			12/10/16 10:56	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/10/16 10:56	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/10/16 10:56	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/10/16 10:56	1
Toluene	<0.15		0.50	0.15	ug/L			12/10/16 10:56	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/10/16 10:56	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/10/16 10:56	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/10/16 10:56	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/10/16 10:56	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			12/10/16 10:56	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			12/10/16 10:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		71 - 120		12/10/16 10:56	1
1,2-Dichloroethane-d4 (Surr)	109		71 - 127		12/10/16 10:56	1
Toluene-d8 (Surr)	101		75 - 120		12/10/16 10:56	1

**Lab Sample ID: LCS 500-364500/5**  
**Matrix: Water**  
**Analysis Batch: 364500**

**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	47.9		ug/L		96	37 - 151
Bromoform	50.0	44.3		ug/L		89	45 - 169
Carbon tetrachloride	50.0	47.5		ug/L		95	70 - 140
Chloroform	50.0	47.9		ug/L		96	51 - 138
cis-1,2-Dichloroethene	50.0	47.2		ug/L		94	70 - 130
Dichlorobromomethane	50.0	49.0		ug/L		98	35 - 155
1,2-Dichloroethane	50.0	51.7		ug/L		103	49 - 155
1,1-Dichloroethene	50.0	48.7		ug/L		97	10 - 234
Ethylbenzene	50.0	49.0		ug/L		98	37 - 162
Methyl bromide	50.0	39.9		ug/L		80	10 - 242
Methyl chloride	50.0	42.9		ug/L		86	10 - 273
m&p-Xylene	50.0	48.7		ug/L		97	
o-Xylene	50.0	48.2		ug/L		96	
1,1,2,2-Tetrachloroethane	50.0	51.3		ug/L		103	46 - 157
Tetrachloroethene	50.0	45.4		ug/L		91	64 - 148
Toluene	50.0	47.8		ug/L		96	47 - 150

TestAmerica Chicago



# QC Sample Results

Client: Madison-Kipp Corporation  
 Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-121156-1

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

**Lab Sample ID: LCS 500-364500/5**  
**Matrix: Water**  
**Analysis Batch: 364500**

**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	48.2		ug/L		96	54 - 156
1,1,1-Trichloroethane	50.0	48.4		ug/L		97	52 - 162
1,1,2-Trichloroethane	50.0	48.9		ug/L		98	52 - 150
Trichloroethene	50.0	46.6		ug/L		93	71 - 157
Vinyl chloride	50.0	50.3		ug/L		101	10 - 251

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		71 - 120
1,2-Dichloroethane-d4 (Surr)	106		71 - 127
Toluene-d8 (Surr)	100		75 - 120

**Lab Sample ID: MB 500-364589/7**  
**Matrix: Water**  
**Analysis Batch: 364589**

**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			12/12/16 10:33	1
Bromoform	<0.45		1.0	0.45	ug/L			12/12/16 10:33	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/12/16 10:33	1
Chloroform	<0.37		1.0	0.37	ug/L			12/12/16 10:33	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/12/16 10:33	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			12/12/16 10:33	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/12/16 10:33	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/12/16 10:33	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/12/16 10:33	1
Methyl bromide	<0.65		2.0	0.65	ug/L			12/12/16 10:33	1
Methyl chloride	<0.32		1.0	0.32	ug/L			12/12/16 10:33	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/12/16 10:33	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/12/16 10:33	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/12/16 10:33	1
Toluene	<0.15		0.50	0.15	ug/L			12/12/16 10:33	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/12/16 10:33	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/12/16 10:33	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/12/16 10:33	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/12/16 10:33	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			12/12/16 10:33	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			12/12/16 10:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		71 - 120		12/12/16 10:33	1
1,2-Dichloroethane-d4 (Surr)	92		71 - 127		12/12/16 10:33	1
Toluene-d8 (Surr)	97		75 - 120		12/12/16 10:33	1

TestAmerica Chicago

# QC Sample Results

Client: Madison-Kipp Corporation  
 Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-121156-1

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

**Lab Sample ID: LCS 500-364589/5**

**Matrix: Water**

**Analysis Batch: 364589**

**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	41.1		ug/L		82	37 - 151
Bromoform	50.0	37.5		ug/L		75	45 - 169
Carbon tetrachloride	50.0	40.3		ug/L		81	70 - 140
Chloroform	50.0	41.6		ug/L		83	51 - 138
cis-1,2-Dichloroethene	50.0	44.3		ug/L		89	70 - 130
Dichlorobromomethane	50.0	37.7		ug/L		75	35 - 155
1,2-Dichloroethane	50.0	37.8		ug/L		76	49 - 155
1,1-Dichloroethene	50.0	47.1		ug/L		94	10 - 234
Ethylbenzene	50.0	41.3		ug/L		83	37 - 162
Methyl bromide	50.0	40.9		ug/L		82	10 - 242
Methyl chloride	50.0	50.4		ug/L		101	10 - 273
m&p-Xylene	50.0	40.3		ug/L		81	
o-Xylene	50.0	39.5		ug/L		79	
1,1,2,2-Tetrachloroethane	50.0	42.7		ug/L		85	46 - 157
Tetrachloroethene	50.0	42.7		ug/L		85	64 - 148
Toluene	50.0	40.6		ug/L		81	47 - 150
trans-1,2-Dichloroethene	50.0	44.6		ug/L		89	54 - 156
1,1,1-Trichloroethane	50.0	41.8		ug/L		84	52 - 162
1,1,2-Trichloroethane	50.0	41.8		ug/L		84	52 - 150
Trichloroethene	50.0	46.7		ug/L		93	71 - 157
Vinyl chloride	50.0	44.5		ug/L		89	10 - 251

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		71 - 120
1,2-Dichloroethane-d4 (Surr)	89		71 - 127
Toluene-d8 (Surr)	97		75 - 120

## Method: 1664B - HEM and SGT-HEM

**Lab Sample ID: MB 500-364235/1-A**

**Matrix: Water**

**Analysis Batch: 364239**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 364235**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	1.70	J	5.0	1.3	mg/L		12/08/16 16:30	12/08/16 19:20	1

**Lab Sample ID: LCS 500-364235/2-A**

**Matrix: Water**

**Analysis Batch: 364239**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 364235**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	40.0	34.90		mg/L		87	78 - 114

TestAmerica Chicago

# QC Sample Results

Client: Madison-Kipp Corporation  
 Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-121156-1

## Method: 1664B - HEM and SGT-HEM (Continued)

**Lab Sample ID: 500-121156-1 MS**  
**Matrix: Water**  
**Analysis Batch: 364239**

**Client Sample ID: Effluent**  
**Prep Type: Total/NA**  
**Prep Batch: 364235**  
 %Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
HEM (Oil & Grease)	<1.4		44.2	36.87		mg/L		84	78 - 114

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 500-364516/3**  
**Matrix: Water**  
**Analysis Batch: 364516**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.100	J	0.20	0.076	mg/L			12/09/16 17:52	1

**Lab Sample ID: LCS 500-364516/4**  
**Matrix: Water**  
**Analysis Batch: 364516**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3.00	2.83		mg/L		94	90 - 110

## Method: SM 2540D - Solids, Total Suspended (TSS)

**Lab Sample ID: MB 500-364191/1**  
**Matrix: Water**  
**Analysis Batch: 364191**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<2.5		5.0	2.5	mg/L			12/08/16 12:05	1

**Lab Sample ID: LCS 500-364191/2**  
**Matrix: Water**  
**Analysis Batch: 364191**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	200	189		mg/L		94	80 - 120

**Lab Sample ID: 500-121156-2 MS**  
**Matrix: Water**  
**Analysis Batch: 364191**

**Client Sample ID: Influent**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	<2.5		100	96.0		mg/L		96	75 - 125

**Lab Sample ID: 500-121156-2 DU**  
**Matrix: Water**  
**Analysis Batch: 364191**

**Client Sample ID: Influent**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	<2.5		<2.5		mg/L		NC	5

TestAmerica Chicago

# Lab Chronicle

Client: Madison-Kipp Corporation  
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-121156-1

## Client Sample ID: Effluent

Date Collected: 12/07/16 09:40

Date Received: 12/08/16 09:00

## Lab Sample ID: 500-121156-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	364500	12/10/16 12:20	PJH	TAL CHI
Total/NA	Prep	1664B			364235	12/08/16 16:39	ADK	TAL CHI
Total/NA	Analysis	1664B		1	364239	12/08/16 19:28	ADK	TAL CHI
Total/NA	Analysis	300.0		25	364516	12/09/16 23:37	EAT	TAL CHI
Total/NA	Analysis	SM 2540D		1	364191		SMO	TAL CHI
					(Start)	12/08/16 12:26		
					(End)	12/08/16 12:27		

## Client Sample ID: Influent

Date Collected: 12/07/16 09:55

Date Received: 12/08/16 09:00

## Lab Sample ID: 500-121156-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		2	364589	12/12/16 12:20	PMF	TAL CHI
Total/NA	Analysis	624	DL	10	364500	12/10/16 12:47	PJH	TAL CHI
Total/NA	Prep	1664B			364235	12/08/16 16:49	ADK	TAL CHI
Total/NA	Analysis	1664B		1	364239	12/08/16 19:36	ADK	TAL CHI
Total/NA	Analysis	300.0		25	364516	12/09/16 23:49	EAT	TAL CHI
Total/NA	Analysis	SM 2540D		1	364191		SMO	TAL CHI
					(Start)	12/08/16 12:27		
					(End)	12/08/16 12:28		

## Client Sample ID: Trip Blank

Date Collected: 12/07/16 00:00

Date Received: 12/08/16 09:00

## Lab Sample ID: 500-121156-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	364500	12/10/16 13:43	PJH	TAL CHI

### Laboratory References:

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

# Certification Summary

Client: Madison-Kipp Corporation  
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-121156-1

## Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-17

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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>Alina Statkieski/</u>	Contact: <u>Accounts Payable</u>
Company: <u>Andy Stehn</u>	Company: <u>MKC</u>
Address: _____	Address: _____
Address: _____	Address: _____
Phone: _____	Phone: _____
Fax: _____	Fax: _____
E-Mail: _____	PO#/Reference#: <u>106985</u>

## Chain of Custody Record

Lab Job #: 500-121156  
Chain of Custody Number: 903698  
Page 1 of 1  
Temperature °C of Cooler: 2.1

Client		Client Project #		Preservative		Parameter		Matrix	
<u>MKC</u>				<u>1</u>	<u>8</u>	<u>8</u>	<u>2</u>		
Project Name		Lab Project #		Date		Time		# of Containers	
<u>GETS / SUE</u>									
Project Location/State		Lab PM		Date		Time		# of Containers	
<u>Madison, WI</u>		<u>Sandi Frederick</u>							
Sampler		Lab PM		Date		Time		# of Containers	
<u>John Koelke</u>		<u>Sandi Frederick</u>							
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Parameter	Matrix	Comments
<u>1</u>		<u>Effluent</u>	<u>12/7/16</u>	<u>940</u>	<u>9</u>	<u>W</u>	<u>VOC</u>		<u>For VOC + PAH See attached Analyte list</u>
<u>2</u>		<u>Influent</u>	<u>12/7/16</u>	<u>955</u>	<u>9</u>	<u>W</u>	<u>PAH</u>		
<u>3</u>		<u>Trip Blank</u>	<u>11/2/16</u>	<u>-</u>	<u>1</u>	<u>W</u>	<u>BOD/TSS/ chloride oil Grease</u>		

Preservative Key  
Cool to 4°  
Cool to 4°  
Cool to 4°  
Cool to 4°  
In, Cool to 4°  
4  
2°



500-121156 COC

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>J. Koelke</u> Company: <u>TRC</u> Date: <u>12/7/16</u> Time: <u>1</u>	Received By: <u>April Samuels</u> Company: <u>TACMI</u> Date: <u>12/08/16</u> Time: <u>0900</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____

Lab Courier: \_\_\_\_\_  
Shipped: EX Priority  
Hand Delivered: \_\_\_\_\_

- Matrix Key
- WW - Wastewater
  - 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:

500-121156

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	

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<b>PAHs (Group of 10)</b>	
Benzo(a)anthracene	625 SIM
Benzo(b)fluoranthene	
Benzo(g,h,i)perylene	
Benzo(k)fluoranthene	
Chrysene	
Dibenzo(a,h)anthracene	
Fluoranthene	
Indeno(1,2,3-cd)pyrene	
Phenanthrene	
Pyrene	
<b>PAHs</b>	
Benzo(a)pyrene	625 SIM
Naphthalene	
<b>Oil and Grease</b>	
Oil and Grease	1664
<b>BOD<sub>5</sub></b>	
BOD <sub>5</sub>	5210B
<b>Anions</b>	
Chloride	300

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- 11
- 12
- 13
- 14
- 15



ORIGIN ID: JOTA (708) 534-5200  
ALINA SATKOSKI  
MADISON-KIPP CORPORATION  
201 WAUBESA STREET  
MADISON, WI 53704  
UNITED STATES US

SHIP DATE: 22NOV16  
ACTWGT: 50.00 LB MAN  
CAD: 33264/CAFE3010

TO **SAMPLE LOGIN**  
**TESTAMERICA LABS**  
**2417 BOND ST**

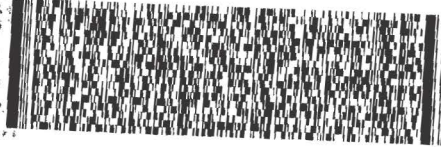
**UNIVERSITY PARK IL 60466**

(708) 534-5200

REF:

DEPT:

RMA: IIIIIII



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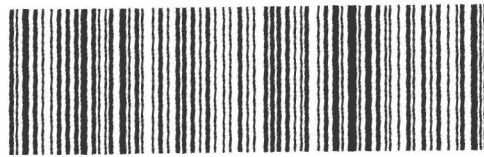
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500-121156 Waybill

W368300 12/07 544J1/D42F/14E8

## Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-121156-1

**Login Number: 121156**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Sanchez, Ariel M**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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: 500-121156-2

Client Project/Site: MadisonKipp - GETS/SVE

For:

Madison-Kipp Corporation

201 Waubesa Street

Madison, Wisconsin 53704

Attn: Alina Satkoski



Authorized for release by:

12/13/2016 4:42:48 PM

Sandie Fredrick, Project Manager II

(920)261-1660

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

### LINKS

Review your project  
results through

Total Access

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: Madison-Kipp Corporation  
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-121156-2

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**Job ID: 500-121156-2**

---

**Laboratory: TestAmerica Chicago**

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## Narrative

**Job Narrative**  
**500-121156-2**

### Comments

No additional comments.

### Receipt

The samples were received on 12/8/2016 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

### GC/MS Semi VOA

Method(s) 625 SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 490-393257 and analytical batch 490-393211.

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

### General Chemistry

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.

# Detection Summary

Client: Madison-Kipp Corporation  
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-121156-2

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## Client Sample ID: Effluent

Lab Sample ID: 500-121156-1

No Detections.

---

## Client Sample ID: Influent

Lab Sample ID: 500-121156-2

No Detections.

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This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Method Summary

Client: Madison-Kipp Corporation  
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-121156-2

Method	Method Description	Protocol	Laboratory
625 SIM	Semivolatile Organic Compounds GC/MS (SIM)	40CFR136A	TAL NSH
SM 5210B	BOD, 5-Day	SM	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.

SM = "Standard Methods For The Examination Of Water And Wastewater",

**Laboratory References:**

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

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

# Sample Summary

Client: Madison-Kipp Corporation  
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-121156-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-121156-1	Effluent	Water	12/07/16 09:40	12/08/16 09:00
500-121156-2	Influent	Water	12/07/16 09:55	12/08/16 09:00

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# Client Sample Results

Client: Madison-Kipp Corporation  
 Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-121156-2

**Client Sample ID: Effluent**

**Date Collected: 12/07/16 09:40**

**Date Received: 12/08/16 09:00**

**Lab Sample ID: 500-121156-1**

**Matrix: Water**

**Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.025		0.050	0.025	ug/L		12/09/16 15:10	12/10/16 00:34	1
Benzo[a]pyrene	<0.025		0.050	0.025	ug/L		12/09/16 15:10	12/10/16 00:34	1
Benzo[b]fluoranthene	<0.025		0.050	0.025	ug/L		12/09/16 15:10	12/10/16 00:34	1
Benzo[g,h,i]perylene	<0.050		0.10	0.050	ug/L		12/09/16 15:10	12/10/16 00:34	1
Benzo[k]fluoranthene	<0.050		0.10	0.050	ug/L		12/09/16 15:10	12/10/16 00:34	1
Chrysene	<0.050		0.10	0.050	ug/L		12/09/16 15:10	12/10/16 00:34	1
Dibenz(a,h)anthracene	<0.025		0.050	0.025	ug/L		12/09/16 15:10	12/10/16 00:34	1
Fluoranthene	<0.050		0.10	0.050	ug/L		12/09/16 15:10	12/10/16 00:34	1
Indeno[1,2,3-cd]pyrene	<0.025		0.050	0.025	ug/L		12/09/16 15:10	12/10/16 00:34	1
Naphthalene	<0.050		0.10	0.050	ug/L		12/09/16 15:10	12/10/16 00:34	1
Phenanthrene	<0.050		0.10	0.050	ug/L		12/09/16 15:10	12/10/16 00:34	1
Pyrene	<0.050		0.10	0.050	ug/L		12/09/16 15:10	12/10/16 00:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	34		27 - 120	12/09/16 15:10	12/10/16 00:34	1
Terphenyl-d14	52		13 - 120	12/09/16 15:10	12/10/16 00:34	1
2-Fluorobiphenyl (Surr)	35		10 - 120	12/09/16 15:10	12/10/16 00:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	<2.0		2.0	2.0	mg/L			12/08/16 16:31	1

# Client Sample Results

Client: Madison-Kipp Corporation  
 Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-121156-2

**Client Sample ID: Influent**

**Date Collected: 12/07/16 09:55**

**Date Received: 12/08/16 09:00**

**Lab Sample ID: 500-121156-2**

**Matrix: Water**

**Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.025		0.050	0.025	ug/L		12/09/16 15:10	12/10/16 00:55	1
Benzo[a]pyrene	<0.025		0.050	0.025	ug/L		12/09/16 15:10	12/10/16 00:55	1
Benzo[b]fluoranthene	<0.025		0.050	0.025	ug/L		12/09/16 15:10	12/10/16 00:55	1
Benzo[g,h,i]perylene	<0.050		0.10	0.050	ug/L		12/09/16 15:10	12/10/16 00:55	1
Benzo[k]fluoranthene	<0.050		0.10	0.050	ug/L		12/09/16 15:10	12/10/16 00:55	1
Chrysene	<0.050		0.10	0.050	ug/L		12/09/16 15:10	12/10/16 00:55	1
Dibenz(a,h)anthracene	<0.025		0.050	0.025	ug/L		12/09/16 15:10	12/10/16 00:55	1
Fluoranthene	<0.050		0.10	0.050	ug/L		12/09/16 15:10	12/10/16 00:55	1
Indeno[1,2,3-cd]pyrene	<0.025		0.050	0.025	ug/L		12/09/16 15:10	12/10/16 00:55	1
Naphthalene	<0.050		0.10	0.050	ug/L		12/09/16 15:10	12/10/16 00:55	1
Phenanthrene	<0.050		0.10	0.050	ug/L		12/09/16 15:10	12/10/16 00:55	1
Pyrene	<0.050		0.10	0.050	ug/L		12/09/16 15:10	12/10/16 00:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	39		27 - 120	12/09/16 15:10	12/10/16 00:55	1
Terphenyl-d14	59		13 - 120	12/09/16 15:10	12/10/16 00:55	1
2-Fluorobiphenyl (Surr)	42		10 - 120	12/09/16 15:10	12/10/16 00:55	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	<2.0		2.0	2.0	mg/L			12/08/16 16:38	1

# Definitions/Glossary

Client: Madison-Kipp Corporation  
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-121156-2

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# QC Association Summary

Client: Madison-Kipp Corporation  
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-121156-2

## GC/MS Semi VOA

### Analysis Batch: 393211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121156-1	Effluent	Total/NA	Water	625 SIM	393257
500-121156-2	Influent	Total/NA	Water	625 SIM	393257
MB 490-393257/1-A	Method Blank	Total/NA	Water	625 SIM	393257
LCS 490-393257/2-A	Lab Control Sample	Total/NA	Water	625 SIM	393257
LCSD 490-393257/3-A	Lab Control Sample Dup	Total/NA	Water	625 SIM	393257

### Prep Batch: 393257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121156-1	Effluent	Total/NA	Water	625	
500-121156-2	Influent	Total/NA	Water	625	
MB 490-393257/1-A	Method Blank	Total/NA	Water	625	
LCS 490-393257/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 490-393257/3-A	Lab Control Sample Dup	Total/NA	Water	625	

## General Chemistry

### Analysis Batch: 364186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121156-1	Effluent	Total/NA	Water	SM 5210B	
500-121156-2	Influent	Total/NA	Water	SM 5210B	
USB 500-364186/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 500-364186/2	Lab Control Sample	Total/NA	Water	SM 5210B	

# Surrogate Summary

Client: Madison-Kipp Corporation  
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-121156-2

## Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	NBZ (27-120)	TPH (13-120)	FBP (10-120)
500-121156-1	Effluent	34	52	35
500-121156-2	Influent	39	59	42
LCS 490-393257/2-A	Lab Control Sample	59	76	62
LCSD 490-393257/3-A	Lab Control Sample Dup	58	74	60
MB 490-393257/1-A	Method Blank	53	74	54

#### Surrogate Legend

NBZ = Nitrobenzene-d5

TPH = Terphenyl-d14

FBP = 2-Fluorobiphenyl (Surr)

# QC Sample Results

Client: Madison-Kipp Corporation  
 Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-121156-2

## Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM)

**Lab Sample ID: MB 490-393257/1-A**

**Matrix: Water**

**Analysis Batch: 393211**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 393257**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.025		0.050	0.025	ug/L		12/09/16 15:10	12/09/16 23:30	1
Benzo[a]pyrene	<0.025		0.050	0.025	ug/L		12/09/16 15:10	12/09/16 23:30	1
Benzo[b]fluoranthene	<0.025		0.050	0.025	ug/L		12/09/16 15:10	12/09/16 23:30	1
Benzo[g,h,i]perylene	<0.050		0.10	0.050	ug/L		12/09/16 15:10	12/09/16 23:30	1
Benzo[k]fluoranthene	<0.050		0.10	0.050	ug/L		12/09/16 15:10	12/09/16 23:30	1
Chrysene	<0.050		0.10	0.050	ug/L		12/09/16 15:10	12/09/16 23:30	1
Dibenz(a,h)anthracene	<0.025		0.050	0.025	ug/L		12/09/16 15:10	12/09/16 23:30	1
Fluoranthene	<0.050		0.10	0.050	ug/L		12/09/16 15:10	12/09/16 23:30	1
Indeno[1,2,3-cd]pyrene	<0.025		0.050	0.025	ug/L		12/09/16 15:10	12/09/16 23:30	1
Naphthalene	0.305		0.10	0.050	ug/L		12/09/16 15:10	12/09/16 23:30	1
Phenanthrene	0.198		0.10	0.050	ug/L		12/09/16 15:10	12/09/16 23:30	1
Pyrene	0.189		0.10	0.050	ug/L		12/09/16 15:10	12/09/16 23:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	53		27 - 120	12/09/16 15:10	12/09/16 23:30	1
Terphenyl-d14	74		13 - 120	12/09/16 15:10	12/09/16 23:30	1
2-Fluorobiphenyl (Surr)	54		10 - 120	12/09/16 15:10	12/09/16 23:30	1

**Lab Sample ID: LCS 490-393257/2-A**

**Matrix: Water**

**Analysis Batch: 393211**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 393257**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzo[a]anthracene	4.00	2.78		ug/L		69	33 - 143
Benzo[a]pyrene	4.00	2.81		ug/L		70	17 - 163
Benzo[b]fluoranthene	4.00	2.90		ug/L		72	24 - 159
Benzo[g,h,i]perylene	4.00	2.89		ug/L		72	10 - 219
Benzo[k]fluoranthene	4.00	2.93		ug/L		73	11 - 162
Chrysene	4.00	2.78		ug/L		70	17 - 168
Dibenz(a,h)anthracene	4.00	2.79		ug/L		70	10 - 227
Fluoranthene	4.00	2.77		ug/L		69	26 - 137
Indeno[1,2,3-cd]pyrene	4.00	2.71		ug/L		68	10 - 171
Naphthalene	4.00	2.35		ug/L		59	21 - 133
Phenanthrene	4.00	2.66		ug/L		67	54 - 120
Pyrene	4.00	2.71		ug/L		68	52 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	59		27 - 120
Terphenyl-d14	76		13 - 120
2-Fluorobiphenyl (Surr)	62		10 - 120

**Lab Sample ID: LCSD 490-393257/3-A**

**Matrix: Water**

**Analysis Batch: 393211**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 393257**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Benzo[a]anthracene	4.00	2.73		ug/L		68	33 - 143	2	30

TestAmerica Chicago

# QC Sample Results

Client: Madison-Kipp Corporation  
 Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-121156-2

## Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM) (Continued)

**Lab Sample ID: LCSD 490-393257/3-A**  
**Matrix: Water**  
**Analysis Batch: 393211**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 393257**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]pyrene	4.00	2.72		ug/L		68	17 - 163	3	30
Benzo[b]fluoranthene	4.00	2.84		ug/L		71	24 - 159	2	30
Benzo[g,h,i]perylene	4.00	2.78		ug/L		69	10 - 219	4	30
Benzo[k]fluoranthene	4.00	2.84		ug/L		71	11 - 162	3	30
Chrysene	4.00	2.73		ug/L		68	17 - 168	2	30
Dibenz(a,h)anthracene	4.00	2.69		ug/L		67	10 - 227	4	30
Fluoranthene	4.00	2.63		ug/L		66	26 - 137	5	30
Indeno[1,2,3-cd]pyrene	4.00	2.60		ug/L		65	10 - 171	4	30
Naphthalene	4.00	2.20		ug/L		55	21 - 133	6	30
Phenanthrene	4.00	2.50		ug/L		62	54 - 120	6	30
Pyrene	4.00	2.59		ug/L		65	52 - 115	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
Nitrobenzene-d5	58		27 - 120
Terphenyl-d14	74		13 - 120
2-Fluorobiphenyl (Surr)	60		10 - 120

## Method: SM 5210B - BOD, 5-Day

**Lab Sample ID: USB 500-364186/1**  
**Matrix: Water**  
**Analysis Batch: 364186**

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

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	<2.0		2.0	2.0	mg/L			12/08/16 15:18	1

**Lab Sample ID: LCS 500-364186/2**  
**Matrix: Water**  
**Analysis Batch: 364186**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	178		mg/L		90	85 - 115

# Lab Chronicle

Client: Madison-Kipp Corporation  
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-121156-2

## Client Sample ID: Effluent

Date Collected: 12/07/16 09:40

Date Received: 12/08/16 09:00

## Lab Sample ID: 500-121156-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			393257	12/09/16 15:10	SAT	TAL NSH
Total/NA	Analysis	625 SIM		1	393211	12/10/16 00:34	WDS	TAL NSH
Total/NA	Analysis	SM 5210B		1	364186	(Start) 12/08/16 16:31 (End) 12/08/16 16:38	MAN	TAL CHI

## Client Sample ID: Influent

Date Collected: 12/07/16 09:55

Date Received: 12/08/16 09:00

## Lab Sample ID: 500-121156-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			393257	12/09/16 15:10	SAT	TAL NSH
Total/NA	Analysis	625 SIM		1	393211	12/10/16 00:55	WDS	TAL NSH
Total/NA	Analysis	SM 5210B		1	364186	(Start) 12/08/16 16:38 (End) 12/08/16 16:45	MAN	TAL CHI

### Laboratory References:

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

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



# Certification Summary

Client: Madison-Kipp Corporation  
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-121156-2

## Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-17

## Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	998020430	08-31-17

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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>Alina Statkieski/</u>	Contact: <u>Accounts Payable</u>
Company: <u>Andy Stehn</u>	Company: <u>MKC</u>
Address: _____	Address: _____
Address: _____	Address: _____
Phone: _____	Phone: _____
Fax: _____	Fax: _____
E-Mail: _____	PO#/Reference#: <u>106985</u>

## Chain of Custody Record

Lab Job #: 500-121156  
Chain of Custody Number: 903698  
Page 1 of 1  
Temperature °C of Cooler: 2.1

Client		Client Project #		Preservative		Parameter		Matrix	
<u>MKC</u>				<u>1</u>	<u>8</u>	<u>8</u>	<u>2</u>		
Project Name		Lab Project #		Date		Time		# of Containers	
<u>GETS / SUE</u>									
Project Location/State		Lab PM		Date		Time		# of Containers	
<u>Madison, WI</u>		<u>Sandi Frederick</u>							
Sampler		Lab PM		Date		Time		# of Containers	
<u>John Koelke</u>		<u>Sandi Frederick</u>							
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Parameter	Matrix	Comments
<u>1</u>		<u>Effluent</u>	<u>12/7/16</u>	<u>940</u>	<u>9</u>	<u>W</u>	<u>VOC</u>		<u>For VOC + PAH See attached Analyte list</u>
<u>2</u>		<u>Influent</u>	<u>12/7/16</u>	<u>955</u>	<u>9</u>	<u>W</u>	<u>PAH</u>		
<u>3</u>		<u>Trip Blank</u>	<u>11/2/16</u>	<u>-</u>	<u>1</u>	<u>W</u>	<u>BOD/TSS/ chloride oil Grease</u>		

Preservative Key  
Cool to 4°  
Cool to 4°  
Cool to 4°  
Cool to 4°  
In, Cool to 4°  
4  
2°



500-121156 COC

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>J. Koelke</u> Company: <u>TRC</u> Date: <u>12/7/16</u> Time: <u>1</u>	Received By: <u>Ami Samak</u> Company: <u>TACMI</u> Date: <u>12/08/16</u> Time: <u>0900</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____

Lab Courier: \_\_\_\_\_  
Shipped: EX Priority  
Hand Delivered: \_\_\_\_\_

- Matrix Key
- WW - Wastewater
  - 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: \_\_\_\_\_

500-121150

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	

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<b>PAHs (Group of 10)</b>	
Benzo(a)anthracene	625 SIM
Benzo(b)fluoranthene	
Benzo(g,h,i)perylene	
Benzo(k)fluoranthene	
Chrysene	
Dibenzo(a,h)anthracene	
Fluoranthene	
Indeno(1,2,3-cd)pyrene	
Phenanthrene	
Pyrene	
<b>PAHs</b>	
Benzo(a)pyrene	625 SIM
Naphthalene	
<b>Oil and Grease</b>	
Oil and Grease	1664
<b>BOD<sub>5</sub></b>	
BOD <sub>5</sub>	5210B
<b>Anions</b>	
Chloride	300

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ORIGIN ID: JOTA (708) 534-5200  
ALINA SATKOSKI  
MADISON-KIPP CORPORATION  
201 WAUBESA STREET  
MADISON, WI 53704  
UNITED STATES US

SHIP DATE: 22NOV16  
ACTWGT: 50.00 LB MAN  
CAD: 33264/CAFE3010

TO **SAMPLE LOGIN**  
**TESTAMERICA LABS**  
**2417 BOND ST**

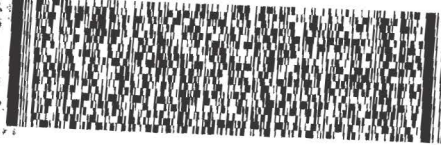
**UNIVERSITY PARK IL 60466**

(708) 534-5200

REF:

DEPT:

RMA: 11111111



**FedEx**  
Express



54633/CB1/72F

116101607260101

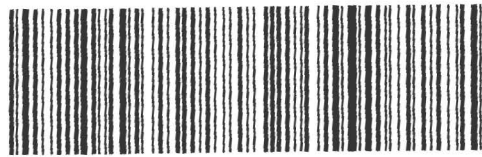
**FedEx**

TRK# 6514 8429 3508  
0221

**THU - 08 DEC 10:30A**  
**PRIORITY OVERNIGHT**

**79 JOTA**

**60466**  
IL-US **ORD**



500-121156 Waybill

W368300 12/07 544J1/D42F/14E8

## COOLER RECEIPT FORM



500-121156 Chain of Custody

Cooler Received/Opened On 12/9/2016 @ 10:25

Time Samples Removed From Cooler 1145 Time Samples Placed In Storage 1156 (2 Hour Window)

1. Tracking # 9506 (last 4 digits, FedEx) Courier: FedEx  
IR Gun ID 14740456 pH Strip Lot HC682547 Chlorine Strip Lot 8116K

2. Temperature of rep. sample or temp blank when opened: 2.4 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? one front YES...NO...NA

If yes, how many and where: \_\_\_\_\_

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 (initial) DA

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



## Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-121156-2

**Login Number: 121156**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Sanchez, Ariel M**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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	2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





## Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-121156-2

**Login Number: 121156**  
**List Number: 2**  
**Creator: Gundi, Hozar K**

**List Source: TestAmerica Nashville**  
**List Creation: 12/09/16 11:51 AM**

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

