



Post Office Box 8043  
Madison, WI 53708-8043

**Madison-Kipp  
Corporation**

201 Waubesa Street  
Madison, WI 53704-5728

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January 12, 2016

Alan Hopfensperger  
Hydrogeologist  
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. Hopfensperger,

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 2015 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 9, 2015 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.

The GETS did not operate from December 10th through the remainder of the month due to an issue with one of the pumps. Repair on the pump was delayed due to lead time on a replacement part. We anticipate having the GETS operating again by next week.

If you have any questions or need additional information, please contact myself at [asatkoski@madison-kipp.com](mailto:asatkoski@madison-kipp.com) or (608) 242-5200.

Alina Satkoski

Madison Kipp Corporation

Attachment A Discharge Monitoring Report Form

Attachment B Laboratory Reports

Copies:

Jennine Trask - Arcadis (electronic)

Mike Schmoller - WDNR (electronic)

George Parrino - Madison Department of Health (electronic)



**FOOTNOTES:**

- (1) Total BETX is the sum of the benzene, ethylbenzene, toluene and xylene concentrations.
- (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, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene
- (3) Madison Kipp/Arcadis will conduct visual monitoring for this compound.

**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.

*Alina Lottke*

1-12-2016

Signature of Person Completing Form

Date

*Alina Lottke*

1-12-2016

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: 500-105051-1

Client Project/Site: MadisonKipp WI001368.26.3

For:

Madison-Kipp Corporation

201 Waubesa Street

Madison, Wisconsin 53704

Attn: Alina Satkoski



Authorized for release by:

12/11/2015 5:21:24 PM

Therese Hargraves, Project Manager I

[therese.hargraves@testamericainc.com](mailto:therese.hargraves@testamericainc.com)

Designee for

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 WI001368.26.3

TestAmerica Job ID: 500-105051-1

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**Job ID: 500-105051-1**

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**Laboratory: TestAmerica Chicago**

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## Narrative

**Job Narrative  
500-105051-1**

### Comments

No additional comments.

### Receipt

The samples were received on 12/10/2015 8:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0° C.

### GC/MS VOA

Method(s) 624: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (500-105051-1). 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.

### General Chemistry

Method(s) 300.0: Manual integration was performed due to the software incorrectly identifying the baseline on the following IC8 samples in batch 500-316042: (CCV 500-316042/43) and (CCV 500-316042/55).

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

# Detection Summary

Client: Madison-Kipp Corporation  
Project/Site: MadisonKipp WI001368.26.3

TestAmerica Job ID: 500-105051-1

## Client Sample ID: Influent

Lab Sample ID: 500-105051-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloroethane	32		5.0	1.8	ug/L	5		624	Total/NA
Trichloroethene	7.3		2.5	0.82	ug/L	5		624	Total/NA
Tetrachloroethene - DL	2800		50	19	ug/L	50		624	Total/NA
HEM (Oil & Grease)	4.0	J B	5.6	0.60	mg/L	1		1664B	Total/NA
Chloride	100	B	5.0	1.9	mg/L	25		300.0	Total/NA

## Client Sample ID: Effluent

Lab Sample ID: 500-105051-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	19		1.0	0.41	ug/L	1		624	Total/NA
Tetrachloroethene	40		1.0	0.37	ug/L	1		624	Total/NA
Trichloroethene	6.2		0.50	0.16	ug/L	1		624	Total/NA
HEM (Oil & Grease)	1.5	J B	5.6	0.61	mg/L	1		1664B	Total/NA
Chloride	100	B	5.0	1.9	mg/L	25		300.0	Total/NA

## Client Sample ID: Trip Blank

Lab Sample ID: 500-105051-3

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Method Summary

Client: Madison-Kipp Corporation  
Project/Site: MadisonKipp WI001368.26.3

TestAmerica Job ID: 500-105051-1

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 WI001368.26.3

TestAmerica Job ID: 500-105051-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-105051-1	Influent	Water	12/09/15 09:50	12/10/15 08:55
500-105051-2	Effluent	Water	12/09/15 10:00	12/10/15 08:55
500-105051-3	Trip Blank	Water	12/09/15 00:00	12/10/15 08:55

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# Client Sample Results

Client: Madison-Kipp Corporation  
 Project/Site: MadisonKipp WI001368.26.3

TestAmerica Job ID: 500-105051-1

## Client Sample ID: Influent

Date Collected: 12/09/15 09:50

Date Received: 12/10/15 08:55

## Lab Sample ID: 500-105051-1

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			12/11/15 07:52	5
Bromoform	<2.2		5.0	2.2	ug/L			12/11/15 07:52	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			12/11/15 07:52	5
Chloroform	<1.9		5.0	1.9	ug/L			12/11/15 07:52	5
cis-1,2-Dichloroethene	<2.0		5.0	2.0	ug/L			12/11/15 07:52	5
Dichlorobromomethane	<1.9		5.0	1.9	ug/L			12/11/15 07:52	5
1,2-Dichloroethane	<2.0		5.0	2.0	ug/L			12/11/15 07:52	5
1,1-Dichloroethene	<2.0		5.0	2.0	ug/L			12/11/15 07:52	5
Ethylbenzene	<0.92		2.5	0.92	ug/L			12/11/15 07:52	5
Methyl bromide	<3.2		10	3.2	ug/L			12/11/15 07:52	5
Methyl chloride	<1.6		5.0	1.6	ug/L			12/11/15 07:52	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			12/11/15 07:52	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			12/11/15 07:52	5
Toluene	<0.76		2.5	0.76	ug/L			12/11/15 07:52	5
trans-1,2-Dichloroethene	<1.7		5.0	1.7	ug/L			12/11/15 07:52	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			12/11/15 07:52	5
<b>1,1,2-Trichloroethane</b>	<b>32</b>		5.0	1.8	ug/L			12/11/15 07:52	5
<b>Trichloroethene</b>	<b>7.3</b>		2.5	0.82	ug/L			12/11/15 07:52	5
Vinyl chloride	<1.0		2.5	1.0	ug/L			12/11/15 07:52	5
Xylenes, Total	<2.0		5.0	2.0	ug/L			12/11/15 07:52	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 120		12/11/15 07:52	5
1,2-Dichloroethane-d4 (Surr)	100		75 - 125		12/11/15 07:52	5
Toluene-d8 (Surr)	91		75 - 120		12/11/15 07:52	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Tetrachloroethene</b>	<b>2800</b>		50	19	ug/L			12/11/15 08:19	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 120		12/11/15 08:19	50
1,2-Dichloroethane-d4 (Surr)	99		75 - 125		12/11/15 08:19	50
Toluene-d8 (Surr)	91		75 - 120		12/11/15 08:19	50

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>HEM (Oil &amp; Grease)</b>	<b>4.0</b>	<b>J B</b>	5.6	0.60	mg/L		12/10/15 15:46	12/10/15 18:00	1
<b>Chloride</b>	<b>100</b>	<b>B</b>	5.0	1.9	mg/L			12/11/15 02:20	25
Total Suspended Solids	<1.6		5.0	1.6	mg/L			12/10/15 12:54	1

# Client Sample Results

Client: Madison-Kipp Corporation  
 Project/Site: MadisonKipp WI001368.26.3

TestAmerica Job ID: 500-105051-1

**Client Sample ID: Effluent**

**Date Collected: 12/09/15 10:00**

**Date Received: 12/10/15 08:55**

**Lab Sample ID: 500-105051-2**

**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			12/11/15 07:25	1
Bromoform	<0.45		1.0	0.45	ug/L			12/11/15 07:25	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/11/15 07:25	1
Chloroform	<0.37		1.0	0.37	ug/L			12/11/15 07:25	1
<b>cis-1,2-Dichloroethene</b>	<b>19</b>		1.0	0.41	ug/L			12/11/15 07:25	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			12/11/15 07:25	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/11/15 07:25	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/11/15 07:25	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/11/15 07:25	1
Methyl bromide	<0.65		2.0	0.65	ug/L			12/11/15 07:25	1
Methyl chloride	<0.32		1.0	0.32	ug/L			12/11/15 07:25	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/11/15 07:25	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/11/15 07:25	1
<b>Tetrachloroethene</b>	<b>40</b>		1.0	0.37	ug/L			12/11/15 07:25	1
Toluene	<0.15		0.50	0.15	ug/L			12/11/15 07:25	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/11/15 07:25	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/11/15 07:25	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/11/15 07:25	1
<b>Trichloroethene</b>	<b>6.2</b>		0.50	0.16	ug/L			12/11/15 07:25	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			12/11/15 07:25	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			12/11/15 07:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		75 - 120		12/11/15 07:25	1
1,2-Dichloroethane-d4 (Surr)	100		75 - 125		12/11/15 07:25	1
Toluene-d8 (Surr)	91		75 - 120		12/11/15 07:25	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>HEM (Oil &amp; Grease)</b>	<b>1.5</b>	<b>J B</b>	5.6	0.61	mg/L		12/10/15 15:54	12/10/15 18:05	1
<b>Chloride</b>	<b>100</b>	<b>B</b>	5.0	1.9	mg/L			12/11/15 02:32	25
Total Suspended Solids	<1.6		5.0	1.6	mg/L			12/10/15 12:56	1

# Client Sample Results

Client: Madison-Kipp Corporation  
 Project/Site: MadisonKipp WI001368.26.3

TestAmerica Job ID: 500-105051-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 500-105051-3**

**Date Collected: 12/09/15 00:00**

**Matrix: Water**

**Date Received: 12/10/15 08:55**

**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			12/10/15 21:54	1
Bromoform	<0.45		1.0	0.45	ug/L			12/10/15 21:54	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/10/15 21:54	1
Chloroform	<0.37		1.0	0.37	ug/L			12/10/15 21:54	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/10/15 21:54	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			12/10/15 21:54	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/10/15 21:54	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/10/15 21:54	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/10/15 21:54	1
Methyl bromide	<0.65		2.0	0.65	ug/L			12/10/15 21:54	1
Methyl chloride	<0.32		1.0	0.32	ug/L			12/10/15 21:54	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/10/15 21:54	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/10/15 21:54	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/10/15 21:54	1
Toluene	<0.15		0.50	0.15	ug/L			12/10/15 21:54	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/10/15 21:54	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/10/15 21:54	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/10/15 21:54	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/10/15 21:54	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			12/10/15 21:54	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			12/10/15 21:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 120					12/10/15 21:54	1
1,2-Dichloroethane-d4 (Surr)	98		75 - 125					12/10/15 21:54	1
Toluene-d8 (Surr)	91		75 - 120					12/10/15 21:54	1

# Definitions/Glossary

Client: Madison-Kipp Corporation  
Project/Site: MadisonKipp WI001368.26.3

TestAmerica Job ID: 500-105051-1

## 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 WI001368.26.3

TestAmerica Job ID: 500-105051-1

## GC/MS VOA

### Analysis Batch: 315848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-105051-1	Influent	Total/NA	Water	624	
500-105051-1 - DL	Influent	Total/NA	Water	624	
500-105051-2	Effluent	Total/NA	Water	624	
500-105051-3	Trip Blank	Total/NA	Water	624	
LCS 500-315848/27	Lab Control Sample	Total/NA	Water	624	
MB 500-315848/29	Method Blank	Total/NA	Water	624	

## General Chemistry

### Prep Batch: 315914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-105051-1	Influent	Total/NA	Water	1664B	
500-105051-2	Effluent	Total/NA	Water	1664B	
LCS 500-315914/2-A	Lab Control Sample	Total/NA	Water	1664B	
MB 500-315914/1-A	Method Blank	Total/NA	Water	1664B	

### Analysis Batch: 315915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-105051-1	Influent	Total/NA	Water	1664B	315914
500-105051-2	Effluent	Total/NA	Water	1664B	315914
LCS 500-315914/2-A	Lab Control Sample	Total/NA	Water	1664B	315914
MB 500-315914/1-A	Method Blank	Total/NA	Water	1664B	315914

### Analysis Batch: 315924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-105051-1	Influent	Total/NA	Water	SM 2540D	
500-105051-2	Effluent	Total/NA	Water	SM 2540D	
500-105051-2 DU	Effluent	Total/NA	Water	SM 2540D	
LCS 500-315924/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 500-315924/1	Method Blank	Total/NA	Water	SM 2540D	

### Analysis Batch: 316042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-105051-1	Influent	Total/NA	Water	300.0	
500-105051-2	Effluent	Total/NA	Water	300.0	
LCS 500-316042/16	Lab Control Sample	Total/NA	Water	300.0	
MB 500-316042/15	Method Blank	Total/NA	Water	300.0	

# Surrogate Summary

Client: Madison-Kipp Corporation  
Project/Site: MadisonKipp WI001368.26.3

TestAmerica Job ID: 500-105051-1

## 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 (75-120)	12DCE (75-125)	TOL (75-120)
500-105051-1	Influent	95	100	91
500-105051-1 - DL	Influent	97	99	91
500-105051-2	Effluent	96	100	91
500-105051-3	Trip Blank	90	98	91
LCS 500-315848/27	Lab Control Sample	92	96	92
MB 500-315848/29	Method Blank	94	98	92

### 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 WI001368.26.3

TestAmerica Job ID: 500-105051-1

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

**Lab Sample ID: MB 500-315848/29**

**Matrix: Water**

**Analysis Batch: 315848**

**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			12/10/15 21:00	1
Bromoform	<0.45		1.0	0.45	ug/L			12/10/15 21:00	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/10/15 21:00	1
Chloroform	<0.37		1.0	0.37	ug/L			12/10/15 21:00	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/10/15 21:00	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			12/10/15 21:00	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/10/15 21:00	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/10/15 21:00	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/10/15 21:00	1
Methyl bromide	<0.65		2.0	0.65	ug/L			12/10/15 21:00	1
Methyl chloride	<0.32		1.0	0.32	ug/L			12/10/15 21:00	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/10/15 21:00	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/10/15 21:00	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/10/15 21:00	1
Toluene	<0.15		0.50	0.15	ug/L			12/10/15 21:00	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/10/15 21:00	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/10/15 21:00	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/10/15 21:00	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/10/15 21:00	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			12/10/15 21:00	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			12/10/15 21:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		75 - 120		12/10/15 21:00	1
1,2-Dichloroethane-d4 (Surr)	98		75 - 125		12/10/15 21:00	1
Toluene-d8 (Surr)	92		75 - 120		12/10/15 21:00	1

**Lab Sample ID: LCS 500-315848/27**

**Matrix: Water**

**Analysis Batch: 315848**

**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	44.1		ug/L		88	37 - 151
Bromoform	50.0	45.6		ug/L		91	45 - 169
Carbon tetrachloride	50.0	44.0		ug/L		88	70 - 140
Chloroform	50.0	44.9		ug/L		90	51 - 138
cis-1,2-Dichloroethene	50.0	45.5		ug/L		91	70 - 130
Dichlorobromomethane	50.0	44.9		ug/L		90	35 - 155
1,2-Dichloroethane	50.0	48.4		ug/L		97	49 - 155
1,1-Dichloroethene	50.0	43.8		ug/L		88	10 - 234
Ethylbenzene	50.0	45.0		ug/L		90	37 - 162
Methyl bromide	50.0	49.6		ug/L		99	10 - 242
Methyl chloride	50.0	46.6		ug/L		93	10 - 273
m&p-Xylene	50.0	45.6		ug/L		91	
o-Xylene	50.0	46.0		ug/L		92	
1,1,2,2-Tetrachloroethane	50.0	45.0		ug/L		90	46 - 157
Tetrachloroethene	50.0	46.2		ug/L		92	64 - 148
Toluene	50.0	44.7		ug/L		89	47 - 150

TestAmerica Chicago



# QC Sample Results

Client: Madison-Kipp Corporation  
 Project/Site: MadisonKipp WI001368.26.3

TestAmerica Job ID: 500-105051-1

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

**Lab Sample ID:** LCS 500-315848/27  
**Matrix:** Water  
**Analysis Batch:** 315848

**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	45.2		ug/L		90	54 - 156
1,1,1-Trichloroethane	50.0	45.9		ug/L		92	52 - 162
1,1,2-Trichloroethane	50.0	46.7		ug/L		93	52 - 150
Trichloroethene	50.0	45.7		ug/L		91	71 - 157
Vinyl chloride	50.0	48.2		ug/L		96	10 - 251

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		75 - 120
1,2-Dichloroethane-d4 (Surr)	96		75 - 125
Toluene-d8 (Surr)	92		75 - 120

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

**Lab Sample ID:** MB 500-315914/1-A  
**Matrix:** Water  
**Analysis Batch:** 315915

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 315914

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	1.50	J	5.0	0.54	mg/L		12/10/15 13:00	12/10/15 16:15	1

**Lab Sample ID:** LCS 500-315914/2-A  
**Matrix:** Water  
**Analysis Batch:** 315915

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 315914

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	40.0	39.5		mg/L		99	78 - 114

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID:** MB 500-316042/15  
**Matrix:** Water  
**Analysis Batch:** 316042

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.114	J	0.20	0.076	mg/L			12/10/15 17:17	1

**Lab Sample ID:** LCS 500-316042/16  
**Matrix:** Water  
**Analysis Batch:** 316042

**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	2.89		mg/L		96	90 - 110

TestAmerica Chicago

# QC Sample Results

Client: Madison-Kipp Corporation  
 Project/Site: MadisonKipp WI001368.26.3

TestAmerica Job ID: 500-105051-1

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

**Lab Sample ID: MB 500-315924/1**  
**Matrix: Water**  
**Analysis Batch: 315924**

**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	<1.6		5.0	1.6	mg/L	-		12/10/15 12:50	1

**Lab Sample ID: LCS 500-315924/2**  
**Matrix: Water**  
**Analysis Batch: 315924**

**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	221		mg/L	-	111	80 - 120

**Lab Sample ID: 500-105051-2 DU**  
**Matrix: Water**  
**Analysis Batch: 315924**

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	<1.6		<1.6		mg/L	-	NC	5

# Lab Chronicle

Client: Madison-Kipp Corporation  
 Project/Site: MadisonKipp WI001368.26.3

TestAmerica Job ID: 500-105051-1

## Client Sample ID: Influent

Date Collected: 12/09/15 09:50

Date Received: 12/10/15 08:55

## Lab Sample ID: 500-105051-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		5	315848	12/11/15 07:52	PMF	TAL CHI
Total/NA	Analysis	624	DL	50	315848	12/11/15 08:19	PMF	TAL CHI
Total/NA	Prep	1664B			315914	12/10/15 15:46	SSF	TAL CHI
Total/NA	Analysis	1664B		1	315915	12/10/15 18:00	SSF	TAL CHI
Total/NA	Analysis	300.0		25	316042	12/11/15 02:20	CCK	TAL CHI
Total/NA	Analysis	SM 2540D		1	315924		SMO	TAL CHI
					(Start)	12/10/15 12:54		
					(End)	12/10/15 12:56		

## Client Sample ID: Effluent

Date Collected: 12/09/15 10:00

Date Received: 12/10/15 08:55

## Lab Sample ID: 500-105051-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	315848	12/11/15 07:25	PMF	TAL CHI
Total/NA	Prep	1664B			315914	12/10/15 15:54	SSF	TAL CHI
Total/NA	Analysis	1664B		1	315915	12/10/15 18:05	SSF	TAL CHI
Total/NA	Analysis	300.0		25	316042	12/11/15 02:32	CCK	TAL CHI
Total/NA	Analysis	SM 2540D		1	315924		SMO	TAL CHI
					(Start)	12/10/15 12:56		
					(End)	12/10/15 12:58		

## Client Sample ID: Trip Blank

Date Collected: 12/09/15 00:00

Date Received: 12/10/15 08:55

## Lab Sample ID: 500-105051-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	315848	12/10/15 21:54	PMF	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 WI001368.26.3

TestAmerica Job ID: 500-105051-1

## 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	08-31-16

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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: Alina Satkosti  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

Bill To (optional)  
 Contact: Alina Satkosti  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 PO#/Reference#: 106371

## Chain of Custody Record

Lab Job #: 500-105051

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

Page 1 of 1

Temperature °C of Cooler: 4.0

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key
Project Name		Project Location/State		Date		Time		Matrix		
mkc				1		7		7		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
GETS		Madison, WI		VOC		PAHS		BOD/TOSS/ Chloride		
Alina Satkosti		Sardie Fredrick		3		2		2		Comments
Sample Location/State		Lab Project #		# of Containers		Matrix		Matrix		
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Matrix	Matrix	Matrix	Comments
1		Influent +	12/9/15	0950	9	W	3	2	2	for VOC +
2		Effluent	12/9/15	1000	9	W	3	2	2	PAH see
3		Trip Blank			1	W	1			attached
										analyte list



500-105051 COC

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>Alina Satkosti</u> Company: <u>mkc</u>	Date <u>12/9/15</u>	Time <u>1000</u>	Received By <u>[Signature]</u>	Company <u>TAL</u>	Date <u>12/10/15</u>	Time <u>0950</u>	Lab Courier
Relinquished By	Date	Time	Received By	Company	Date	Time	Shipped <input checked="" type="checkbox"/>
Relinquished By	Date	Time	Received By	Company	Date	Time	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:

500-105051

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
1,1,1,2-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	

**PAHs (Group of 10)**

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	

**PAHs**

Benzo(a)pyrene	625 SIM
Naphthalene	

**Oil and Grease**

Oil and Grease	1664
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**BOD<sub>5</sub>**

BOD <sub>5</sub>	5210B
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**Anions**

Chloride	300
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500-105051 Waybill

00074

00352

**FedEx Express** Package *US Airbill* FedEx Tracking Number **8094 6772 5003**

00759

fedex.com 1.800.GoFedEx 1.800.463.3339

0582000

**1 From**  
Date 12/19/15  
Sender's Name Alina Sattkosti Phone 616 265 7183  
Company MKC  
Address 201 Waubesa St.  
City Madison State WI ZIP 53704

**2 Your Internal Billing Reference**

**3 To**  
Recipient's Name SAMPLE RECEIPT Phone 708 534-5200  
Company TESTAMERICA CHICAGO  
Address 2417 BOND ST  
City UNIVERSITY PARK State IL ZIP 60484-3101

0121751793



8094 6772 5003

Form ID No. **0215**

**4 Express Package Service** \* To meet regulations. Packages up to 150 lbs. For packages over 150 lbs, use the FedEx Express Freight US Airbill.

Next Business Day	2 or 3 Business Days
<input type="checkbox"/> FedEx First Overnight Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected. <input checked="" type="checkbox"/> <b>FedEx Priority Overnight</b> Next business morning. * Friday shipments will be delivered on Monday unless Saturday Delivery is selected. <input type="checkbox"/> FedEx Standard Overnight Next business afternoon. * Saturday Delivery NOT available.	<input type="checkbox"/> FedEx 2Day A.M. Second business morning. * Saturday Delivery NOT available. <input type="checkbox"/> FedEx 2Day Second business afternoon. * Thursday shipments will be collected on Monday unless Saturday Delivery is selected. <input type="checkbox"/> FedEx Express Saver Third business day. * Saturday Delivery NOT available.

**5 Packaging** \* Declared value limit \$500.  
 FedEx Envelope\*  FedEx Pak\*  FedEx Box  FedEx Tube  Other

**6 Special Handling and Delivery Signature Options** \* Fees may apply. See the FedEx Service Guide.  
 Saturday Delivery  
 No Signature Required  
 Direct Signature  
 Indirect Signature  
 Does this shipment contain dangerous goods?  
 No  Yes  
 Dry Ice  
 Cargo Aircraft Only

**7 Payment Bill to:**  
 Enter FedEx Acct. No. or Credit Card No. below. Obtain Fed. Acct. No.  
 Sender Acct. No. in Section 1 of this form  Recipient  Third-Party  Credit Card  Cash/Check  
 Total Packages 1 Total Weight 4.2 lbs. Credit Card Auth. [Redacted]

Align Open End of FedEx Pouch Here



# Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-105051-1

**Login Number: 105051**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Kelsey, Shawn M**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.0c
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.	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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

# 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: 500-105051-2

Client Project/Site: MadisonKipp WI001368.26.3

For:

Madison-Kipp Corporation

201 Waubesa Street

Madison, Wisconsin 53704

Attn: Alina Satkoski



Authorized for release by:

12/18/2015 1:51:20 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 WI001368.26.3

TestAmerica Job ID: 500-105051-2

**Job ID: 500-105051-2**

**Laboratory: TestAmerica Chicago**

## Narrative

**Job Narrative  
500-105051-2**

### Comments

No additional comments.

### Receipt

The samples were received on 12/10/2015 8:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0° C.

### GC/MS Semi VOA

Method(s) 625 SIM: 2-Fluorophenol surrogate recovery for the following sample was outside the control limit. The sample was analyzed for base/neutral compounds only, which are not associated with this surrogate; therefore, the data is reported. Effluent (500-105051-2).

Method(s) 625 SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 490-306790 and analytical batch 490-307183.

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 WI001368.26.3

TestAmerica Job ID: 500-105051-2

## Client Sample ID: Influent

## Lab Sample ID: 500-105051-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.062	J	0.096	0.048	ug/L	1		625 SIM	Total/NA
Phenanthrene	0.051	J	0.096	0.048	ug/L	1		625 SIM	Total/NA

## Client Sample ID: Effluent

## Lab Sample ID: 500-105051-2

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Method Summary

Client: Madison-Kipp Corporation  
Project/Site: MadisonKipp WI001368.26.3

TestAmerica Job ID: 500-105051-2

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 WI001368.26.3

TestAmerica Job ID: 500-105051-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-105051-1	Influent	Water	12/09/15 09:50	12/10/15 08:55
500-105051-2	Effluent	Water	12/09/15 10:00	12/10/15 08:55

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# Client Sample Results

Client: Madison-Kipp Corporation  
 Project/Site: MadisonKipp WI001368.26.3

TestAmerica Job ID: 500-105051-2

**Client Sample ID: Influent**

**Date Collected: 12/09/15 09:50**

**Date Received: 12/10/15 08:55**

**Lab Sample ID: 500-105051-1**

**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	<0.024		0.048	0.024	ug/L		12/16/15 13:11	12/17/15 18:52	1
Benzo[a]pyrene	<0.024		0.048	0.024	ug/L		12/16/15 13:11	12/17/15 18:52	1
Benzo[b]fluoranthene	<0.024		0.048	0.024	ug/L		12/16/15 13:11	12/17/15 18:52	1
Benzo[g,h,i]perylene	<0.048		0.096	0.048	ug/L		12/16/15 13:11	12/17/15 18:52	1
Benzo[k]fluoranthene	<0.048		0.096	0.048	ug/L		12/16/15 13:11	12/17/15 18:52	1
Chrysene	<0.048		0.096	0.048	ug/L		12/16/15 13:11	12/17/15 18:52	1
Dibenz(a,h)anthracene	<0.024		0.048	0.024	ug/L		12/16/15 13:11	12/17/15 18:52	1
<b>Fluoranthene</b>	<b>0.062</b>	<b>J</b>	0.096	0.048	ug/L		12/16/15 13:11	12/17/15 18:52	1
Indeno[1,2,3-cd]pyrene	<0.024		0.048	0.024	ug/L		12/16/15 13:11	12/17/15 18:52	1
Naphthalene	<0.048		0.096	0.048	ug/L		12/16/15 13:11	12/17/15 18:52	1
<b>Phenanthrene</b>	<b>0.051</b>	<b>J</b>	0.096	0.048	ug/L		12/16/15 13:11	12/17/15 18:52	1
Pyrene	<0.048		0.096	0.048	ug/L		12/16/15 13:11	12/17/15 18:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	39		29 - 120	12/16/15 13:11	12/17/15 18:52	1
Nitrobenzene-d5	55		27 - 120	12/16/15 13:11	12/17/15 18:52	1
Phenol-d5	25		10 - 120	12/16/15 13:11	12/17/15 18:52	1
Terphenyl-d14	46		13 - 120	12/16/15 13:11	12/17/15 18:52	1
2,4,6-Tribromophenol	82		10 - 120	12/16/15 13:11	12/17/15 18:52	1
2-Fluorobiphenyl (Surr)	58		10 - 120	12/16/15 13:11	12/17/15 18:52	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			12/10/15 16:46	1



# Client Sample Results

Client: Madison-Kipp Corporation  
 Project/Site: MadisonKipp WI001368.26.3

TestAmerica Job ID: 500-105051-2

**Client Sample ID: Effluent**

**Date Collected: 12/09/15 10:00**

**Date Received: 12/10/15 08:55**

**Lab Sample ID: 500-105051-2**

**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	<0.024		0.048	0.024	ug/L		12/16/15 13:11	12/17/15 19:17	1
Benzo[a]pyrene	<0.024		0.048	0.024	ug/L		12/16/15 13:11	12/17/15 19:17	1
Benzo[b]fluoranthene	<0.024		0.048	0.024	ug/L		12/16/15 13:11	12/17/15 19:17	1
Benzo[g,h,i]perylene	<0.048		0.096	0.048	ug/L		12/16/15 13:11	12/17/15 19:17	1
Benzo[k]fluoranthene	<0.048		0.096	0.048	ug/L		12/16/15 13:11	12/17/15 19:17	1
Chrysene	<0.048		0.096	0.048	ug/L		12/16/15 13:11	12/17/15 19:17	1
Dibenz(a,h)anthracene	<0.024		0.048	0.024	ug/L		12/16/15 13:11	12/17/15 19:17	1
Fluoranthene	<0.048		0.096	0.048	ug/L		12/16/15 13:11	12/17/15 19:17	1
Indeno[1,2,3-cd]pyrene	<0.024		0.048	0.024	ug/L		12/16/15 13:11	12/17/15 19:17	1
Naphthalene	<0.048		0.096	0.048	ug/L		12/16/15 13:11	12/17/15 19:17	1
Phenanthrene	<0.048		0.096	0.048	ug/L		12/16/15 13:11	12/17/15 19:17	1
Pyrene	<0.048		0.096	0.048	ug/L		12/16/15 13:11	12/17/15 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	34		29 - 120	12/16/15 13:11	12/17/15 19:17	1
Nitrobenzene-d5	50		27 - 120	12/16/15 13:11	12/17/15 19:17	1
Phenol-d5	19		10 - 120	12/16/15 13:11	12/17/15 19:17	1
Terphenyl-d14	74		13 - 120	12/16/15 13:11	12/17/15 19:17	1
2,4,6-Tribromophenol	9	X	10 - 120	12/16/15 13:11	12/17/15 19:17	1
2-Fluorobiphenyl (Surr)	60		10 - 120	12/16/15 13:11	12/17/15 19:17	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			12/10/15 17:02	1

# Definitions/Glossary

Client: Madison-Kipp Corporation  
Project/Site: MadisonKipp WI001368.26.3

TestAmerica Job ID: 500-105051-2

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

## 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 WI001368.26.3

TestAmerica Job ID: 500-105051-2

## GC/MS Semi VOA

### Prep Batch: 306790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-105051-1	Influent	Total/NA	Water	625	
500-105051-2	Effluent	Total/NA	Water	625	
LCS 490-306790/2-A	Lab Control Sample	Total/NA	Water	625	
MB 490-306790/1-A	Method Blank	Total/NA	Water	625	

### Analysis Batch: 307183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-105051-1	Influent	Total/NA	Water	625 SIM	306790
500-105051-2	Effluent	Total/NA	Water	625 SIM	306790
LCS 490-306790/2-A	Lab Control Sample	Total/NA	Water	625 SIM	306790
MB 490-306790/1-A	Method Blank	Total/NA	Water	625 SIM	306790

## General Chemistry

### Analysis Batch: 315909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-105051-1	Influent	Total/NA	Water	SM 5210B	
500-105051-2	Effluent	Total/NA	Water	SM 5210B	
LCS 500-315909/2	Lab Control Sample	Total/NA	Water	SM 5210B	
USB 500-315909/1	Method Blank	Total/NA	Water	SM 5210B	

# Surrogate Summary

Client: Madison-Kipp Corporation  
Project/Site: MadisonKipp WI001368.26.3

TestAmerica Job ID: 500-105051-2

## 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	2FP (29-120)	NBZ (27-120)	PHL (10-120)	TPH (13-120)	TBP (10-120)	FBP (10-120)
500-105051-1	Influent	39	55	25	46	82	58
500-105051-2	Effluent	34	50	19	74	9 X	60
LCS 490-306790/2-A	Lab Control Sample	38	62	24	88	58	71
MB 490-306790/1-A	Method Blank	43	55	25	84	43	67

### Surrogate Legend

2FP = 2-Fluorophenol  
NBZ = Nitrobenzene-d5  
PHL = Phenol-d5  
TPH = Terphenyl-d14  
TBP = 2,4,6-Tribromophenol  
FBP = 2-Fluorobiphenyl (Surr)

# QC Sample Results

Client: Madison-Kipp Corporation  
 Project/Site: MadisonKipp WI001368.26.3

TestAmerica Job ID: 500-105051-2

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

**Lab Sample ID: MB 490-306790/1-A**  
**Matrix: Water**  
**Analysis Batch: 307183**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 306790**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.025		0.050	0.025	ug/L		12/16/15 13:11	12/17/15 18:00	1
Benzo[a]pyrene	<0.025		0.050	0.025	ug/L		12/16/15 13:11	12/17/15 18:00	1
Benzo[b]fluoranthene	<0.025		0.050	0.025	ug/L		12/16/15 13:11	12/17/15 18:00	1
Benzo[g,h,i]perylene	<0.050		0.10	0.050	ug/L		12/16/15 13:11	12/17/15 18:00	1
Benzo[k]fluoranthene	<0.050		0.10	0.050	ug/L		12/16/15 13:11	12/17/15 18:00	1
Chrysene	<0.050		0.10	0.050	ug/L		12/16/15 13:11	12/17/15 18:00	1
Dibenz(a,h)anthracene	<0.025		0.050	0.025	ug/L		12/16/15 13:11	12/17/15 18:00	1
Fluoranthene	<0.050		0.10	0.050	ug/L		12/16/15 13:11	12/17/15 18:00	1
Indeno[1,2,3-cd]pyrene	<0.025		0.050	0.025	ug/L		12/16/15 13:11	12/17/15 18:00	1
Naphthalene	<0.050		0.10	0.050	ug/L		12/16/15 13:11	12/17/15 18:00	1
Phenanthrene	<0.050		0.10	0.050	ug/L		12/16/15 13:11	12/17/15 18:00	1
Pyrene	<0.050		0.10	0.050	ug/L		12/16/15 13:11	12/17/15 18:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	43		29 - 120	12/16/15 13:11	12/17/15 18:00	1
Nitrobenzene-d5	55		27 - 120	12/16/15 13:11	12/17/15 18:00	1
Phenol-d5	25		10 - 120	12/16/15 13:11	12/17/15 18:00	1
Terphenyl-d14	84		13 - 120	12/16/15 13:11	12/17/15 18:00	1
2,4,6-Tribromophenol	43		10 - 120	12/16/15 13:11	12/17/15 18:00	1
2-Fluorobiphenyl (Surr)	67		10 - 120	12/16/15 13:11	12/17/15 18:00	1

**Lab Sample ID: LCS 490-306790/2-A**  
**Matrix: Water**  
**Analysis Batch: 307183**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 306790**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzo[a]anthracene	0.800	0.668		ug/L		84	33 - 143
Benzo[a]pyrene	0.800	0.691		ug/L		86	17 - 163
Benzo[b]fluoranthene	0.800	0.679		ug/L		85	24 - 159
Benzo[g,h,i]perylene	0.800	0.698		ug/L		87	10 - 219
Benzo[k]fluoranthene	0.800	0.641		ug/L		80	11 - 162
Chrysene	0.800	0.712		ug/L		89	17 - 168
Dibenz(a,h)anthracene	0.800	0.700		ug/L		88	10 - 227
Fluoranthene	0.800	0.666		ug/L		83	26 - 137
Indeno[1,2,3-cd]pyrene	0.800	0.704		ug/L		88	10 - 171
Naphthalene	0.800	0.623		ug/L		78	21 - 133
Phenanthrene	0.800	0.656		ug/L		82	54 - 120
Pyrene	0.800	0.656		ug/L		82	52 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	38		29 - 120
Nitrobenzene-d5	62		27 - 120
Phenol-d5	24		10 - 120
Terphenyl-d14	88		13 - 120
2,4,6-Tribromophenol	58		10 - 120
2-Fluorobiphenyl (Surr)	71		10 - 120

TestAmerica Chicago

# QC Sample Results

Client: Madison-Kipp Corporation  
 Project/Site: MadisonKipp WI001368.26.3

TestAmerica Job ID: 500-105051-2

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

Lab Sample ID: USB 500-315909/1  
 Matrix: Water  
 Analysis Batch: 315909

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			12/10/15 11:38	1

Lab Sample ID: LCS 500-315909/2  
 Matrix: Water  
 Analysis Batch: 315909

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	183		mg/L		92	85 - 115



# Lab Chronicle

Client: Madison-Kipp Corporation  
Project/Site: MadisonKipp WI001368.26.3

TestAmerica Job ID: 500-105051-2

## Client Sample ID: Influent

Date Collected: 12/09/15 09:50

Date Received: 12/10/15 08:55

## Lab Sample ID: 500-105051-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			306790	12/16/15 13:11	MLT	TAL NSH
Total/NA	Analysis	625 SIM		1	307183	12/17/15 18:52	SNR	TAL NSH
Total/NA	Analysis	SM 5210B		1	315909	12/10/15 16:46 (Start) 12/10/15 17:02 (End)	MAN	TAL CHI

## Client Sample ID: Effluent

Date Collected: 12/09/15 10:00

Date Received: 12/10/15 08:55

## Lab Sample ID: 500-105051-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			306790	12/16/15 13:11	MLT	TAL NSH
Total/NA	Analysis	625 SIM		1	307183	12/17/15 19:17	SNR	TAL NSH
Total/NA	Analysis	SM 5210B		1	315909	12/10/15 17:02 (Start) 12/10/15 17:17 (End)	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 WI001368.26.3

TestAmerica Job ID: 500-105051-2

## 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	08-31-16

## Laboratory: TestAmerica Nashville

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-15
A2LA	ISO/IEC 17025		0453.07	12-31-15 *
Alaska (UST)	State Program	10	UST-087	07-24-16
Arizona	State Program	9	AZ0473	05-05-16
Arkansas DEQ	State Program	6	88-0737	04-25-16
California	State Program	9	2938	10-31-16
Connecticut	State Program	1	PH-0220	12-31-15 *
Florida	NELAP	4	E87358	06-30-16
Georgia	State Program	4	N/A	06-30-16
Illinois	NELAP	5	200010	12-09-16
Iowa	State Program	7	131	04-01-16
Kansas	NELAP	7	E-10229	01-31-16
Kentucky (UST)	State Program	4	19	06-30-16
Kentucky (WW)	State Program	4	90038	12-31-15 *
Louisiana	NELAP	6	30613	06-30-16
Maine	State Program	1	TN00032	11-03-17
Maryland	State Program	3	316	03-31-16
Massachusetts	State Program	1	M-TN032	06-30-16
Minnesota	NELAP	5	047-999-345	12-31-16
Mississippi	State Program	4	N/A	06-30-16
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-16
New Hampshire	NELAP	1	2963	10-09-16
New Jersey	NELAP	2	TN965	06-30-16
New York	NELAP	2	11342	03-31-16
North Carolina (WW/SW)	State Program	4	387	12-31-15 *
North Dakota	State Program	8	R-146	06-30-16
Ohio VAP	State Program	5	CL0033	07-10-17
Oklahoma	State Program	6	9412	08-31-16
Oregon	NELAP	10	TN200001	04-27-16
Pennsylvania	NELAP	3	68-00585	06-30-16
Rhode Island	State Program	1	LAO00268	12-30-15 *
South Carolina	State Program	4	84009 (001)	02-28-16
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-16-17
Tennessee	State Program	4	2008	02-23-17
Texas	NELAP	6	T104704077	08-31-16
USDA	Federal		S-48469	10-30-16
Utah	NELAP	8	TN00032	07-31-16
Virginia	NELAP	3	460152	06-14-16
Washington	State Program	10	C789	07-19-16
West Virginia DEP	State Program	3	219	02-28-16
Wisconsin	State Program	5	998020430	08-31-16
Wyoming (UST)	A2LA	8	453.07	12-31-15 *

\* Certification renewal pending - certification considered valid.

TestAmerica Chicago



# 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: Alina Satkosti  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Bill To (optional)  
Contact: Alina Satkosti  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference# 106371


## Chain of Custody Record

Lab Job #: 500-105051

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

Page 1 of 1

Temperature °C of Cooler: 4.0

Client		Client Project #		Preservative		Parameter		Matrix		Comments
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix				
mkc				1		7		7		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
GETS				VOC		PAHS		BOD/TOSS/ Chloride		
Project Name		Project Location/State		Lab Project #						
Project Location/State		Lab Project #								for VOC + PAH see attached analyte list
Project Location/State		Lab Project #								
Project Location/State		Lab Project #								
Sampler		Lab PM								 500-105051 COC
Sampler		Lab PM								
Sampler		Lab PM								
1		Influent +	12/9/15	950	9	W	3	2	2	
2		Effluent	12/9/15	1800	9	W	3	2	2	
3		Trip Blank			1	W	1			

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	Company	Date	Time	Received By	Company	Date	Time
<u>Alina Satkosti</u>	<u>mkc</u>	<u>12/9/15</u>	<u>1600</u>	<u>[Signature]</u>	<u>TAL</u>	<u>12/10/15</u>	<u>0950</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
- 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:

500-105051

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	

<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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500-105051 Waybill

00074

00352

**FedEx Express** Package *US Airbill* FedEx Tracking Number 8094 6772 5003

Form ID No. 0215

00759

fedex.com 1.800.GoFedEx 1.800.463.3339

0582000

**1 From**  
Date 12/19/15  
Sender's Name Alina Sattkosti Phone 616 265 7183  
Company MKC  
Address 201 Waubesa St.  
City Madison State WI ZIP 53704

**2 Your Internal Billing Reference**

**3 To**  
Recipient's Name SAMPLE RECEIPT Phone 708 534-5200  
Company TESTAMERICA CHICAGO  
Address 2417 BOND ST  
City UNIVERSITY PARK State IL ZIP 60484-3101

0121751793



8094 6772 5003

**4 Express Package Service** \* To meet regulations. Packages up to 150 lbs. For packages over 150 lbs, use the FedEx Express Freight US Airtail.

Next Business Day	2 or 3 Business Days
<input type="checkbox"/> FedEx First Overnight Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected. <input checked="" type="checkbox"/> FedEx Priority Overnight Next business morning. * Friday shipments will be delivered on Monday unless Saturday Delivery is selected. <input type="checkbox"/> FedEx Standard Overnight Next business afternoon. * Saturday Delivery NOT available.	<input type="checkbox"/> FedEx 2Day A.M. Second business morning. * Saturday Delivery NOT available. <input type="checkbox"/> FedEx 2Day Second business afternoon. * Thursday shipments will be collected on Monday unless Saturday Delivery is selected. <input type="checkbox"/> FedEx Express Saver Third business day. * Saturday Delivery NOT available.

**5 Packaging** \* Declared value limit \$500.  
 FedEx Envelope\*  FedEx Pak\*  FedEx Box  FedEx Tube  Other

**6 Special Handling and Delivery Signature Options** \* Fees may apply. See the FedEx Service Guide.  
 Saturday Delivery  
 No Signature Required  
 Direct Signature  
 Indirect Signature  
 Does this shipment contain dangerous goods?  
 No  Yes  
 Cargo Aircraft Only

**7 Payment Bill to:**  
 Enter FedEx Acct. No. or Credit Card No. below. Obtain P.O. Acct. No. if applicable.  
 Sender Acct. No. in Section 1 of this form  Recipient  Third-Party  Credit Card  Cash/Check  
 Total Packages 1 Total Weight 4.2 lbs. Credit Card Auth. [Redacted]

Align Open End of FedEx Pouch Here

**TestAmerica Chicago**

2417 Bond Street  
University Park, IL 60484  
Phone (708) 534-5200 Fax (708) 534-4211

**Chain of Custody Record**



**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information (Sub Contract Lab)</b> Client Contact: _____ Shipping/Receiving: _____		Sampler: _____ Lab Pwt: _____ Carrier Tracking No(s): _____																										
Company: TestAmerica Laboratories, Inc Address: 2960 Foster Creighton Drive, City: Nashville State, Zip: TN, 37204 Phone: 615-726-0177(Tel) 615-726-3404(Fax) Email: _____ Project Name: MadisonKipp W/001368.26.3 Site: _____		Due Date Requested: 12/16/2015 TAT Requested (days): _____ PO #: _____ WQ #: _____ Project #: 50009145 SSOV#: _____																										
<b>Analysis Requested</b>																												
Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/>																												
625_SIM/625_Prep_LVI (MOD) Single compound																												
Special Instructions/Note: _____																												
Total Number of containers: _____																												
Preservation Codes: <table border="0"> <tr> <td>A - HCL</td> <td>M - Hexane</td> </tr> <tr> <td>B - NaOH</td> <td>N - None</td> </tr> <tr> <td>C - Zn Acetate</td> <td>O - AsH2O2</td> </tr> <tr> <td>D - Nitric Acid</td> <td>P - Na2O4S</td> </tr> <tr> <td>E - NH4SO4</td> <td>Q - Na2SO3</td> </tr> <tr> <td>F - MeOH</td> <td>R - Na2S2O3</td> </tr> <tr> <td>G - Amchlor</td> <td>S - H2SO4</td> </tr> <tr> <td>H - Ascorbic Acid</td> <td>T - TSP Dodecylhydrate</td> </tr> <tr> <td>I - Ice</td> <td>U - Acetone</td> </tr> <tr> <td>J - DI Water</td> <td>V - MCAA</td> </tr> <tr> <td>K - EDTA</td> <td>W - Ph 4.5</td> </tr> <tr> <td>L - EDTA</td> <td>Z - other (Specify)</td> </tr> <tr> <td>Other:</td> <td></td> </tr> </table>			A - HCL	M - Hexane	B - NaOH	N - None	C - Zn Acetate	O - AsH2O2	D - Nitric Acid	P - Na2O4S	E - NH4SO4	Q - Na2SO3	F - MeOH	R - Na2S2O3	G - Amchlor	S - H2SO4	H - Ascorbic Acid	T - TSP Dodecylhydrate	I - Ice	U - Acetone	J - DI Water	V - MCAA	K - EDTA	W - Ph 4.5	L - EDTA	Z - other (Specify)	Other:	
A - HCL	M - Hexane																											
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J - DI Water	V - MCAA																											
K - EDTA	W - Ph 4.5																											
L - EDTA	Z - other (Specify)																											
Other:																												
Sample Identification - Client ID (Lab ID) Influent (500-105051-1) Effluent (500-105051-2)	Sample Date 12/9/15 12/9/15	Sample Time 09:50 Central 10:00 Central																										
Sample Type (C=Comp, G=Grab) Matrix (W=Water, S=Soil, O=Oven-dried, A=Air)	Preservation Code Water Water	Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/>																										
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																												
Empty Kit Relinquished by: _____ Relinquished by: <i>[Signature]</i> Relinquished by: _____	Date/Time: 12/10/15 Date/Time: 10/15 Date/Time: _____	Date: _____ Time: _____ Method of Shipment: _____ Received by: <i>[Signature]</i> Received by: _____																										
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: _____	Cooler Temperature(s) °C and Other Remarks: _____																											

Cooler Received/Opened On 12/11/2015 @ 1000

1. Tracking # 5307 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 17960353

2. Temperature of rep. sample or temp blank when opened: 2.1 Degrees Celsius

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

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

If yes, how many and where: 1, Front

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

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

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

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 # NA

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

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) AS

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) AS

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

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: 500-105051-2

**Login Number: 105051**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Kelsey, Shawn 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	4.0c
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.	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.	True	

# Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-105051-2

**Login Number: 105051**

**List Number: 2**

**Creator: Ford, Easton**

**List Source: TestAmerica Nashville**

**List Creation: 12/12/15 08:31 AM**

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	
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.	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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

