



Post Office Box 8043
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**Madison-Kipp
Corporation**

201 Waubesa Street
Madison, WI 53704-5728

October 3, 2016

James Brodzeller
Wastewater Specialist
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. Brodzeller,

The Groundwater Extraction and Treatment System (GETS) ran for the month of September, with the exception of maintenance activities. This letter summarizes the activities completed in September 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 September 9, 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 month of September, the GETS was shut down to finalize program updates relating to the effluent flow meter. If you have any questions or need additional information, please contact me at asatkoski@madison-kipp.com or (608) 242-5200.

Alina Satkoski

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)

FOOTNOTES:

- (1) Total BETX 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, dibenzo(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/Arcadis/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.



10-3-2016

Signature of Person Completing Form

Date



10-3-2016

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: 500-116854-1

Client Project/Site: MadisonKipp - GETS/SVE

For:

Madison-Kipp Corporation

201 Waubesa Street

Madison, Wisconsin 53704

Attn: Alina Satkoski



Authorized for release by:

9/14/2016 7:57:49 AM

Sandie Fredrick, Project Manager II

(920)261-1660

sandie.fredrick@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
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: 500-116854-1

Job ID: 500-116854-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-116854-1

Comments

No additional comments.

Receipt

The samples were received on 9/10/2016 10:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3° C.

Receipt Exceptions

One or more containers for the following sample was received broken or leaking: Influent (500-116854-1). Sufficient sample remaining.

GC/MS VOA

Method(s) 624: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (500-116854-1). 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

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

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Detection Summary

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

TestAmerica Job ID: 500-116854-1

Client Sample ID: Influent

Lab Sample ID: 500-116854-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene - DL	1600		50	19	ug/L	50		624	Total/NA
Chloride	110		5.0	1.9	mg/L	25		300.0	Total/NA

Client Sample ID: Effluent

Lab Sample ID: 500-116854-2

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	39		1.0	0.37	ug/L	1		624	Total/NA
Trichloroethene	9.2		0.50	0.16	ug/L	1		624	Total/NA
Chloride	110		5.0	1.9	mg/L	25		300.0	Total/NA
Total Suspended Solids	4.0	J	5.0	2.5	mg/L	1		SM 2540D	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-116854-3

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: 500-116854-1

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: 500-116854-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-116854-1	Influent	Water	09/09/16 13:00	09/10/16 10:45
500-116854-2	Effluent	Water	09/09/16 13:10	09/10/16 10:45
500-116854-3	Trip Blank	Water	09/09/16 00:00	09/10/16 10:45

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Client Sample Results

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

TestAmerica Job ID: 500-116854-1

Client Sample ID: Influent

Date Collected: 09/09/16 13:00

Date Received: 09/10/16 10:45

Lab Sample ID: 500-116854-1

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			09/13/16 12:27	5
Bromoform	<2.2		5.0	2.2	ug/L			09/13/16 12:27	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			09/13/16 12:27	5
Chloroform	<1.9		5.0	1.9	ug/L			09/13/16 12:27	5
cis-1,2-Dichloroethene	<2.0		5.0	2.0	ug/L			09/13/16 12:27	5
Dichlorobromomethane	<1.9		5.0	1.9	ug/L			09/13/16 12:27	5
1,2-Dichloroethane	<2.0		5.0	2.0	ug/L			09/13/16 12:27	5
1,1-Dichloroethene	<2.0		5.0	2.0	ug/L			09/13/16 12:27	5
Ethylbenzene	<0.92		2.5	0.92	ug/L			09/13/16 12:27	5
Methyl bromide	<3.2		10	3.2	ug/L			09/13/16 12:27	5
Methyl chloride	<1.6		5.0	1.6	ug/L			09/13/16 12:27	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			09/13/16 12:27	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			09/13/16 12:27	5
Toluene	<0.76		2.5	0.76	ug/L			09/13/16 12:27	5
trans-1,2-Dichloroethene	<1.7		5.0	1.7	ug/L			09/13/16 12:27	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			09/13/16 12:27	5
1,1,2-Trichloroethane	<1.8		5.0	1.8	ug/L			09/13/16 12:27	5
Trichloroethene	<0.82		2.5	0.82	ug/L			09/13/16 12:27	5
Vinyl chloride	<1.0		2.5	1.0	ug/L			09/13/16 12:27	5
Xylenes, Total	<2.0		5.0	2.0	ug/L			09/13/16 12:27	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		71 - 120		09/13/16 12:27	5
1,2-Dichloroethane-d4 (Surr)	93		71 - 127		09/13/16 12:27	5
Toluene-d8 (Surr)	99		75 - 120		09/13/16 12:27	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1600		50	19	ug/L			09/13/16 12:53	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		71 - 120		09/13/16 12:53	50
1,2-Dichloroethane-d4 (Surr)	92		71 - 127		09/13/16 12:53	50
Toluene-d8 (Surr)	99		75 - 120		09/13/16 12:53	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	<1.4		5.4	1.4	mg/L		09/12/16 16:25	09/12/16 20:13	1
Chloride	110		5.0	1.9	mg/L			09/12/16 22:33	25
Total Suspended Solids	<2.5		5.0	2.5	mg/L			09/12/16 16:36	1

Client Sample Results

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

TestAmerica Job ID: 500-116854-1

Client Sample ID: Effluent

Date Collected: 09/09/16 13:10

Date Received: 09/10/16 10:45

Lab Sample ID: 500-116854-2

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			09/13/16 12:00	1
Bromoform	<0.45		1.0	0.45	ug/L			09/13/16 12:00	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/13/16 12:00	1
Chloroform	<0.37		1.0	0.37	ug/L			09/13/16 12:00	1
cis-1,2-Dichloroethene	19		1.0	0.41	ug/L			09/13/16 12:00	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			09/13/16 12:00	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/13/16 12:00	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/13/16 12:00	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/13/16 12:00	1
Methyl bromide	<0.65		2.0	0.65	ug/L			09/13/16 12:00	1
Methyl chloride	<0.32		1.0	0.32	ug/L			09/13/16 12:00	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/13/16 12:00	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/13/16 12:00	1
Tetrachloroethene	39		1.0	0.37	ug/L			09/13/16 12:00	1
Toluene	<0.15		0.50	0.15	ug/L			09/13/16 12:00	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/13/16 12:00	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/13/16 12:00	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/13/16 12:00	1
Trichloroethene	9.2		0.50	0.16	ug/L			09/13/16 12:00	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			09/13/16 12:00	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			09/13/16 12:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		71 - 120		09/13/16 12:00	1
1,2-Dichloroethane-d4 (Surr)	90		71 - 127		09/13/16 12:00	1
Toluene-d8 (Surr)	101		75 - 120		09/13/16 12:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	<1.4		5.3	1.4	mg/L		09/12/16 16:31	09/12/16 20:18	1
Chloride	110		5.0	1.9	mg/L			09/12/16 23:11	25
Total Suspended Solids	4.0 J		5.0	2.5	mg/L			09/12/16 16:37	1

Client Sample Results

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

TestAmerica Job ID: 500-116854-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-116854-3

Date Collected: 09/09/16 00:00

Matrix: Water

Date Received: 09/10/16 10:45

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			09/13/16 11:33	1
Bromoform	<0.45		1.0	0.45	ug/L			09/13/16 11:33	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/13/16 11:33	1
Chloroform	<0.37		1.0	0.37	ug/L			09/13/16 11:33	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			09/13/16 11:33	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			09/13/16 11:33	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/13/16 11:33	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/13/16 11:33	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/13/16 11:33	1
Methyl bromide	<0.65		2.0	0.65	ug/L			09/13/16 11:33	1
Methyl chloride	<0.32		1.0	0.32	ug/L			09/13/16 11:33	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/13/16 11:33	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/13/16 11:33	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/13/16 11:33	1
Toluene	<0.15		0.50	0.15	ug/L			09/13/16 11:33	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/13/16 11:33	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/13/16 11:33	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/13/16 11:33	1
Trichloroethene	<0.16		0.50	0.16	ug/L			09/13/16 11:33	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			09/13/16 11:33	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			09/13/16 11:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		71 - 120		09/13/16 11:33	1
1,2-Dichloroethane-d4 (Surr)	89		71 - 127		09/13/16 11:33	1
Toluene-d8 (Surr)	100		75 - 120		09/13/16 11:33	1

Definitions/Glossary

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

TestAmerica Job ID: 500-116854-1

Qualifiers

General Chemistry

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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, 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: 500-116854-1

GC/MS VOA

Analysis Batch: 351410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-116854-1	Influent	Total/NA	Water	624	
500-116854-1 - DL	Influent	Total/NA	Water	624	
500-116854-2	Effluent	Total/NA	Water	624	
500-116854-3	Trip Blank	Total/NA	Water	624	
MB 500-351410/7	Method Blank	Total/NA	Water	624	
LCS 500-351410/5	Lab Control Sample	Total/NA	Water	624	

General Chemistry

Prep Batch: 351341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-116854-1	Influent	Total/NA	Water	1664B	
500-116854-2	Effluent	Total/NA	Water	1664B	
MB 500-351341/1-A	Method Blank	Total/NA	Water	1664B	
LCS 500-351341/2-A	Lab Control Sample	Total/NA	Water	1664B	

Analysis Batch: 351343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-116854-1	Influent	Total/NA	Water	1664B	351341
500-116854-2	Effluent	Total/NA	Water	1664B	351341
MB 500-351341/1-A	Method Blank	Total/NA	Water	1664B	351341
LCS 500-351341/2-A	Lab Control Sample	Total/NA	Water	1664B	351341

Analysis Batch: 351364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-116854-1	Influent	Total/NA	Water	SM 2540D	
500-116854-2	Effluent	Total/NA	Water	SM 2540D	
MB 500-351364/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-351364/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 351457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-116854-1	Influent	Total/NA	Water	300.0	
500-116854-2	Effluent	Total/NA	Water	300.0	
MB 500-351457/15	Method Blank	Total/NA	Water	300.0	
LCS 500-351457/16	Lab Control Sample	Total/NA	Water	300.0	

Surrogate Summary

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

TestAmerica Job ID: 500-116854-1

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)
500-116854-1	Influent	104	93	99
500-116854-1 - DL	Influent	103	92	99
500-116854-2	Effluent	103	90	101
500-116854-3	Trip Blank	102	89	100
LCS 500-351410/5	Lab Control Sample	102	89	101
MB 500-351410/7	Method Blank	102	91	99

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: 500-116854-1

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

Lab Sample ID: MB 500-351410/7

Matrix: Water

Analysis Batch: 351410

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			09/13/16 11:06	1
Bromoform	<0.45		1.0	0.45	ug/L			09/13/16 11:06	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/13/16 11:06	1
Chloroform	<0.37		1.0	0.37	ug/L			09/13/16 11:06	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			09/13/16 11:06	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			09/13/16 11:06	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/13/16 11:06	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/13/16 11:06	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/13/16 11:06	1
Methyl bromide	<0.65		2.0	0.65	ug/L			09/13/16 11:06	1
Methyl chloride	<0.32		1.0	0.32	ug/L			09/13/16 11:06	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/13/16 11:06	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/13/16 11:06	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/13/16 11:06	1
Toluene	<0.15		0.50	0.15	ug/L			09/13/16 11:06	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/13/16 11:06	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/13/16 11:06	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/13/16 11:06	1
Trichloroethene	<0.16		0.50	0.16	ug/L			09/13/16 11:06	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			09/13/16 11:06	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			09/13/16 11:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		71 - 120		09/13/16 11:06	1
1,2-Dichloroethane-d4 (Surr)	91		71 - 127		09/13/16 11:06	1
Toluene-d8 (Surr)	99		75 - 120		09/13/16 11:06	1

Lab Sample ID: LCS 500-351410/5

Matrix: Water

Analysis Batch: 351410

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	48.3		ug/L		97	37 - 151
Bromoform	50.0	43.7		ug/L		87	45 - 169
Carbon tetrachloride	50.0	47.6		ug/L		95	70 - 140
Chloroform	50.0	47.2		ug/L		94	51 - 138
cis-1,2-Dichloroethene	50.0	48.5		ug/L		97	70 - 130
Dichlorobromomethane	50.0	43.7		ug/L		87	35 - 155
1,2-Dichloroethane	50.0	44.8		ug/L		90	49 - 155
1,1-Dichloroethene	50.0	49.7		ug/L		99	10 - 234
Ethylbenzene	50.0	48.2		ug/L		96	37 - 162
Methyl bromide	50.0	37.1		ug/L		74	10 - 242
Methyl chloride	50.0	54.0		ug/L		108	10 - 273
m&p-Xylene	50.0	47.8		ug/L		96	
o-Xylene	50.0	46.6		ug/L		93	
1,1,2,2-Tetrachloroethane	50.0	46.2		ug/L		92	46 - 157
Tetrachloroethene	50.0	53.8		ug/L		108	64 - 148
Toluene	50.0	49.1		ug/L		98	47 - 150

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-116854-1

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

Lab Sample ID: LCS 500-351410/5
Matrix: Water
Analysis Batch: 351410

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	47.9		ug/L		96	54 - 156
1,1,1-Trichloroethane	50.0	48.8		ug/L		98	52 - 162
1,1,2-Trichloroethane	50.0	48.0		ug/L		96	52 - 150
Trichloroethene	50.0	53.2		ug/L		106	71 - 157
Vinyl chloride	50.0	47.4		ug/L		95	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)	101		75 - 120

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 500-351341/1-A
Matrix: Water
Analysis Batch: 351343

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351341

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	<1.3		5.0	1.3	mg/L		09/12/16 16:04	09/12/16 19:50	1

Lab Sample ID: LCS 500-351341/2-A
Matrix: Water
Analysis Batch: 351343

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351341

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	40.0	31.80		mg/L		79	78 - 114

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-351457/15
Matrix: Water
Analysis Batch: 351457

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.076		0.20	0.076	mg/L			09/12/16 16:24	1

Lab Sample ID: LCS 500-351457/16
Matrix: Water
Analysis Batch: 351457

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	2.81		mg/L		94	90 - 110

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-116854-1

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

Lab Sample ID: MB 500-351364/1
 Matrix: Water
 Analysis Batch: 351364

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			09/12/16 16:20	1

Lab Sample ID: LCS 500-351364/2
 Matrix: Water
 Analysis Batch: 351364

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	186		mg/L		93	80 - 120

Lab Chronicle

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

TestAmerica Job ID: 500-116854-1

Client Sample ID: Influent

Date Collected: 09/09/16 13:00

Date Received: 09/10/16 10:45

Lab Sample ID: 500-116854-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		5	351410	09/13/16 12:27	TCT	TAL CHI
Total/NA	Analysis	624	DL	50	351410	09/13/16 12:53	TCT	TAL CHI
Total/NA	Prep	1664B			351341	09/12/16 16:25	ADK	TAL CHI
Total/NA	Analysis	1664B		1	351343	09/12/16 20:13	ADK	TAL CHI
Total/NA	Analysis	300.0		25	351457	09/12/16 22:33	CCK	TAL CHI
Total/NA	Analysis	SM 2540D		1	351364		SMO	TAL CHI
						(Start) 09/12/16 16:36		
						(End) 09/12/16 16:37		

Client Sample ID: Effluent

Date Collected: 09/09/16 13:10

Date Received: 09/10/16 10:45

Lab Sample ID: 500-116854-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	351410	09/13/16 12:00	TCT	TAL CHI
Total/NA	Prep	1664B			351341	09/12/16 16:31	ADK	TAL CHI
Total/NA	Analysis	1664B		1	351343	09/12/16 20:18	ADK	TAL CHI
Total/NA	Analysis	300.0		25	351457	09/12/16 23:11	CCK	TAL CHI
Total/NA	Analysis	SM 2540D		1	351364		SMO	TAL CHI
						(Start) 09/12/16 16:37		
						(End) 09/12/16 16:39		

Client Sample ID: Trip Blank

Date Collected: 09/09/16 00:00

Date Received: 09/10/16 10:45

Lab Sample ID: 500-116854-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	351410	09/13/16 11:33	TCT	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: 500-116854-1

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: 708.634.5200 Fax: 708.634.5211

Report To (optional)
Contact: Alina Satkoski /
Company: Andy Stehn
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PC#/Reference#: 106985

Chain of Custody Record

Lab Job #: 500-116854
Chain of Custody Number: _____
Page 1 of 1
Temperature °C of Cooler: 2.3

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4°	500-116854 COC	
Project Name		Lab Project #		Date		Time		Matrix				Comments
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Matrix	Matrix				
mkc		GETS/SVE								 500-116854 COC Comments For VOC & PAH see attached analyte list.		
Madison, WI		Sardie Fredrick										
Alina Satkoski												
1		Influent	9/9/16	1300	9	W	X	X	X			
2		Effluent	9/9/16	1310	9	W	X	X	X			
3		Trip blank	-	-	2	W	X					

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other

Sample Disposal

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
<u>Alina Satkoski</u>	<u>mkc</u>	<u>9/9/16</u>	<u>1600</u>	<u>Steve Saunz</u>	<u>TA-CH</u>	<u>9/10/16</u>	<u>10:45</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 SATURDAY
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:

Parameter	Method
VOCs	
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
TSS	
Suspended Solids, Total	2540D
BTEX	
Benzene	624
Toluene	
Ethylbenzene	
Xylenes	

500-116859

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
BOD₅	
BOD ₅	5210B
Anions	
Chloride	300

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Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-116854-1

Login Number: 116854

List Source: TestAmerica Chicago

List Number: 1

Creator: Sanchez, Ariel 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	2.3
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	

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: 500-116854-2

Client Project/Site: MadisonKipp - GETS/SVE

For:

Madison-Kipp Corporation

201 Waubesa Street

Madison, Wisconsin 53704

Attn: Alina Satkoski



Authorized for release by:

9/15/2016 3:59:54 PM

Sandie Fredrick, Project Manager II

(920)261-1660

sandie.fredrick@testamericainc.com

LINKS

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results through

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

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

TestAmerica Job ID: 500-116854-2

Job ID: 500-116854-2

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-116854-2

Comments

No additional comments.

Receipt

The samples were received on 9/10/2016 10:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3° C.

Receipt Exceptions

One or more containers for the following sample was received broken or leaking: Influent (500-116854-1). Sufficient sample remains.

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 490-369868 and analytical batch 490-370004.

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

General Chemistry

Method(s) SM 5210B: The BOD unseeded control blank (USB) was found outside the control limit of <0.2 mgO₂/L. However, the laboratory control standard (LCS) was in control; therefore, the data was reported.

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

Organic Prep

Method(s) 625: The sample color could have given a false positive for CI but it was treated to be safe. Influent (500-116854-1)

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 - GETS/SVE

TestAmerica Job ID: 500-116854-2

Client Sample ID: Influent

Lab Sample ID: 500-116854-1

No Detections.

Client Sample ID: Effluent

Lab Sample ID: 500-116854-2

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: 500-116854-2

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: 500-116854-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-116854-1	Influent	Water	09/09/16 13:00	09/10/16 10:45
500-116854-2	Effluent	Water	09/09/16 13:10	09/10/16 10:45

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Client Sample Results

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

TestAmerica Job ID: 500-116854-2

Client Sample ID: Influent

Date Collected: 09/09/16 13:00

Date Received: 09/10/16 10:45

Lab Sample ID: 500-116854-1

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		09/13/16 19:43	09/14/16 14:04	1
Benzo[a]pyrene	<0.024		0.048	0.024	ug/L		09/13/16 19:43	09/14/16 14:04	1
Benzo[b]fluoranthene	<0.024		0.048	0.024	ug/L		09/13/16 19:43	09/14/16 14:04	1
Benzo[g,h,i]perylene	<0.048		0.096	0.048	ug/L		09/13/16 19:43	09/14/16 14:04	1
Benzo[k]fluoranthene	<0.048		0.096	0.048	ug/L		09/13/16 19:43	09/14/16 14:04	1
Chrysene	<0.048		0.096	0.048	ug/L		09/13/16 19:43	09/14/16 14:04	1
Dibenz(a,h)anthracene	<0.024		0.048	0.024	ug/L		09/13/16 19:43	09/14/16 14:04	1
Fluoranthene	<0.048		0.096	0.048	ug/L		09/13/16 19:43	09/14/16 14:04	1
Indeno[1,2,3-cd]pyrene	<0.024		0.048	0.024	ug/L		09/13/16 19:43	09/14/16 14:04	1
Naphthalene	<0.048		0.096	0.048	ug/L		09/13/16 19:43	09/14/16 14:04	1
Phenanthrene	<0.048		0.096	0.048	ug/L		09/13/16 19:43	09/14/16 14:04	1
Pyrene	<0.048		0.096	0.048	ug/L		09/13/16 19:43	09/14/16 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	71		27 - 120	09/13/16 19:43	09/14/16 14:04	1
Terphenyl-d14	87		13 - 120	09/13/16 19:43	09/14/16 14:04	1
2-Fluorobiphenyl (Surr)	71		10 - 120	09/13/16 19:43	09/14/16 14:04	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			09/10/16 13:43	1

Client Sample Results

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

TestAmerica Job ID: 500-116854-2

Client Sample ID: Effluent

Date Collected: 09/09/16 13:10

Date Received: 09/10/16 10:45

Lab Sample ID: 500-116854-2

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		09/13/16 19:43	09/14/16 14:28	1
Benzo[a]pyrene	<0.024		0.048	0.024	ug/L		09/13/16 19:43	09/14/16 14:28	1
Benzo[b]fluoranthene	<0.024		0.048	0.024	ug/L		09/13/16 19:43	09/14/16 14:28	1
Benzo[g,h,i]perylene	<0.048		0.096	0.048	ug/L		09/13/16 19:43	09/14/16 14:28	1
Benzo[k]fluoranthene	<0.048		0.096	0.048	ug/L		09/13/16 19:43	09/14/16 14:28	1
Chrysene	<0.048		0.096	0.048	ug/L		09/13/16 19:43	09/14/16 14:28	1
Dibenz(a,h)anthracene	<0.024		0.048	0.024	ug/L		09/13/16 19:43	09/14/16 14:28	1
Fluoranthene	<0.048		0.096	0.048	ug/L		09/13/16 19:43	09/14/16 14:28	1
Indeno[1,2,3-cd]pyrene	<0.024		0.048	0.024	ug/L		09/13/16 19:43	09/14/16 14:28	1
Naphthalene	<0.048		0.096	0.048	ug/L		09/13/16 19:43	09/14/16 14:28	1
Phenanthrene	<0.048		0.096	0.048	ug/L		09/13/16 19:43	09/14/16 14:28	1
Pyrene	<0.048		0.096	0.048	ug/L		09/13/16 19:43	09/14/16 14:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	93		27 - 120	09/13/16 19:43	09/14/16 14:28	1
Terphenyl-d14	91		13 - 120	09/13/16 19:43	09/14/16 14:28	1
2-Fluorobiphenyl (Surr)	83		10 - 120	09/13/16 19:43	09/14/16 14:28	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			09/10/16 13:47	1

Definitions/Glossary

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

TestAmerica Job ID: 500-116854-2

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: 500-116854-2

GC/MS Semi VOA

Prep Batch: 369868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-116854-1	Influent	Total/NA	Water	625	
500-116854-2	Effluent	Total/NA	Water	625	
MB 490-369868/1-A	Method Blank	Total/NA	Water	625	
LCS 490-369868/2-A	Lab Control Sample	Total/NA	Water	625	

Analysis Batch: 370004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-116854-1	Influent	Total/NA	Water	625 SIM	369868
500-116854-2	Effluent	Total/NA	Water	625 SIM	369868
MB 490-369868/1-A	Method Blank	Total/NA	Water	625 SIM	369868
LCS 490-369868/2-A	Lab Control Sample	Total/NA	Water	625 SIM	369868

General Chemistry

Analysis Batch: 351179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-116854-1	Influent	Total/NA	Water	SM 5210B	
500-116854-2	Effluent	Total/NA	Water	SM 5210B	
USB 500-351179/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 500-351179/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Surrogate Summary

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

TestAmerica Job ID: 500-116854-2

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)
500-116854-1	Influent	71	87	71
500-116854-2	Effluent	93	91	83
LCS 490-369868/2-A	Lab Control Sample	78	83	75
MB 490-369868/1-A	Method Blank	80	83	75

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: 500-116854-2

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

Lab Sample ID: MB 490-369868/1-A
Matrix: Water
Analysis Batch: 370004

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 369868

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.025		0.050	0.025	ug/L		09/13/16 19:43	09/14/16 13:15	1
Benzo[a]pyrene	<0.025		0.050	0.025	ug/L		09/13/16 19:43	09/14/16 13:15	1
Benzo[b]fluoranthene	<0.025		0.050	0.025	ug/L		09/13/16 19:43	09/14/16 13:15	1
Benzo[g,h,i]perylene	<0.050		0.10	0.050	ug/L		09/13/16 19:43	09/14/16 13:15	1
Benzo[k]fluoranthene	<0.050		0.10	0.050	ug/L		09/13/16 19:43	09/14/16 13:15	1
Chrysene	<0.050		0.10	0.050	ug/L		09/13/16 19:43	09/14/16 13:15	1
Dibenz(a,h)anthracene	<0.025		0.050	0.025	ug/L		09/13/16 19:43	09/14/16 13:15	1
Fluoranthene	<0.050		0.10	0.050	ug/L		09/13/16 19:43	09/14/16 13:15	1
Indeno[1,2,3-cd]pyrene	<0.025		0.050	0.025	ug/L		09/13/16 19:43	09/14/16 13:15	1
Naphthalene	<0.050		0.10	0.050	ug/L		09/13/16 19:43	09/14/16 13:15	1
Phenanthrene	<0.050		0.10	0.050	ug/L		09/13/16 19:43	09/14/16 13:15	1
Pyrene	<0.050		0.10	0.050	ug/L		09/13/16 19:43	09/14/16 13:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	80		27 - 120	09/13/16 19:43	09/14/16 13:15	1
Terphenyl-d14	83		13 - 120	09/13/16 19:43	09/14/16 13:15	1
2-Fluorobiphenyl (Surr)	75		10 - 120	09/13/16 19:43	09/14/16 13:15	1

Lab Sample ID: LCS 490-369868/2-A
Matrix: Water
Analysis Batch: 370004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 369868

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzo[a]anthracene	4.00	3.48		ug/L		87	33 - 143
Benzo[a]pyrene	4.00	3.37		ug/L		84	17 - 163
Benzo[b]fluoranthene	4.00	3.38		ug/L		85	24 - 159
Benzo[g,h,i]perylene	4.00	3.26		ug/L		82	10 - 219
Benzo[k]fluoranthene	4.00	2.97		ug/L		74	11 - 162
Chrysene	4.00	3.26		ug/L		82	17 - 168
Dibenz(a,h)anthracene	4.00	3.20		ug/L		80	10 - 227
Fluoranthene	4.00	3.09		ug/L		77	26 - 137
Indeno[1,2,3-cd]pyrene	4.00	3.18		ug/L		79	10 - 171
Naphthalene	4.00	2.74		ug/L		69	21 - 133
Phenanthrene	4.00	2.81		ug/L		70	54 - 120
Pyrene	4.00	2.86		ug/L		71	52 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	78		27 - 120
Terphenyl-d14	83		13 - 120
2-Fluorobiphenyl (Surr)	75		10 - 120

QC Sample Results

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

TestAmerica Job ID: 500-116854-2

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 500-351179/1
Matrix: Water
Analysis Batch: 351179

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			09/10/16 13:35	1

Lab Sample ID: LCS 500-351179/2
Matrix: Water
Analysis Batch: 351179

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	187		mg/L		95	85 - 115



Lab Chronicle

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

TestAmerica Job ID: 500-116854-2

Client Sample ID: Influent

Date Collected: 09/09/16 13:00

Date Received: 09/10/16 10:45

Lab Sample ID: 500-116854-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			369868	09/13/16 19:43	DHC	TAL NSH
Total/NA	Analysis	625 SIM		1	370004	09/14/16 14:04	T1C	TAL NSH
Total/NA	Analysis	SM 5210B		1	351179		EAT	TAL CHI
					(Start)	09/10/16 13:43		
					(End)	09/10/16 13:47		

Client Sample ID: Effluent

Date Collected: 09/09/16 13:10

Date Received: 09/10/16 10:45

Lab Sample ID: 500-116854-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			369868	09/13/16 19:43	DHC	TAL NSH
Total/NA	Analysis	625 SIM		1	370004	09/14/16 14:28	T1C	TAL NSH
Total/NA	Analysis	SM 5210B		1	351179		EAT	TAL CHI
					(Start)	09/10/16 13:47		
					(End)	09/10/16 13:51		

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: 500-116854-2

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

COOLER RECEIPT FORM



500-116854 Chain of Custody

Cooler Received/Opened On 9/13/2016 @ 0900

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

1. Tracking # 0930 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 97310166 pH Strip Lot HC581117 Chlorine Strip Lot 040715C

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? 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) MY

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 # 261290

9/13/16 HKG

9/13/16 HKG

TestAmerica Chicago

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

Chain of Custody Record

Loc: 500
116854



Client Information (Sub Contract Lab)

Client Contact: **TestAmerica Laboratories, Inc**
Shipping/Receiving

Sampler: **Lab PM: Fredrick, Sandle J**
Phone: **E-Mail: sandie.fredrick@testamericainc.com**

Analysis Requested

Job #: 500-116854-2
Page: 1 of 1

Address: 2960 Foster Creighton Drive,
City: Nashville
State, Zip: TN, 37204

Due Date Requested: 9/16/2016
TAT Requested (days):

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Anhydrous
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2CO3
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (Specify)

Project Name: **Madisonkipp - GETS/SVE**
Project #: 50009145
SSOW#:

Field Filtered Sample (Yes or No)
Perform MS/MSD (Yes or No)
625_SIM/625_Prep_LVI (MOD) Single compound

Sample Identification - Client ID (Lab ID)

Sample ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=volatile)	Preservation Code: (B=Tris, A=As, P)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note:
Influent (500-116854-1)	9/9/16	13:00	Central	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	
Effluent (500-116854-2)	9/8/16	13:10	Central	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	

Possible Hazard Identification

Unconfirmed
Deliverable Requested: I, II, III, IV, Other (specify)
Primary Deliverable Rank: 2

Empty Kit Relinquished by:

Date: _____

Time: _____

Method of Shipment:

Relinquished by: *[Signature]*

Date/Time: 09/12/16 1500

Company: TA

Received by: *[Signature]* 2:4

Date/Time: 9/13/16 0900

Company: TAN

Custody Seals Intact: Yes No
Custody Seal No.:

Date/Time:

Company:

Received by:

Date/Time:

Company:

Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-116854-2

Login Number: 116854

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	2.3
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	



Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-116854-2

Login Number: 116854
List Number: 2
Creator: Gundi, Hozar K

List Source: TestAmerica Nashville
List Creation: 09/13/16 04:20 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	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	

