



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

201 Waubesa Street
Madison, WI 53704-5728

August 4, 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 July, with the exception of routine maintenance activities. This letter summarizes the activities completed in July 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 July 20, 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 July, the GETS was shut down in order to clean the air stripper trays as part of routine maintenance. 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.

Alina Lottke

8-4-2016

Signature of Person Completing Form

Date

Alina Lottke

8-4-2016

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: 500-114639-1

Client Project/Site: MadisonKipp - GETS/SVE

For:

Madison-Kipp Corporation

201 Waubesa Street

Madison, Wisconsin 53704

Attn: Alina Satkoski



Authorized for release by:

7/25/2016 4:12:26 PM

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: 500-114639-1

Job ID: 500-114639-1

Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-114639-1**

Comments

No additional comments.

Receipt

The samples were received on 7/21/2016 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 7.8° C.

GC/MS VOA

Method(s) 624: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (500-114639-1). 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.

Detection Summary

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

TestAmerica Job ID: 500-114639-1

Client Sample ID: Influent

Lab Sample ID: 500-114639-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene - DL	1600		50	19	ug/L	50		624	Total/NA
HEM (Oil & Grease)	1.8	J	5.1	1.3	mg/L	1		1664B	Total/NA
Chloride	100		5.0	1.9	mg/L	25		300.0	Total/NA
Total Suspended Solids	2.5	J	5.0	2.5	mg/L	1		SM 2540D	Total/NA

Client Sample ID: Effluent

Lab Sample ID: 500-114639-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	18		1.0	0.41	ug/L	1		624	Total/NA
Tetrachloroethene	37		1.0	0.37	ug/L	1		624	Total/NA
Trichloroethene	8.3		0.50	0.16	ug/L	1		624	Total/NA
HEM (Oil & Grease)	1.6	J F1	5.4	1.4	mg/L	1		1664B	Total/NA
Chloride	70		5.0	1.9	mg/L	25		300.0	Total/NA
Total Suspended Solids	2.5	J	5.0	2.5	mg/L	1		SM 2540D	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-114639-3

No Detections.

Method Summary

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

TestAmerica Job ID: 500-114639-1

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: 500-114639-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-114639-1	Influent	Water	07/20/16 09:00	07/21/16 10:20
500-114639-2	Effluent	Water	07/20/16 09:05	07/21/16 10:20
500-114639-3	Trip Blank	Water	07/20/16 00:00	07/21/16 10:20

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Client Sample Results

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

TestAmerica Job ID: 500-114639-1

Client Sample ID: Influent

Date Collected: 07/20/16 09:00

Date Received: 07/21/16 10:20

Lab Sample ID: 500-114639-1

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			07/22/16 22:34	5
Bromoform	<2.2		5.0	2.2	ug/L			07/22/16 22:34	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			07/22/16 22:34	5
Chloroform	<1.9		5.0	1.9	ug/L			07/22/16 22:34	5
cis-1,2-Dichloroethene	<2.0		5.0	2.0	ug/L			07/22/16 22:34	5
Dichlorobromomethane	<1.9		5.0	1.9	ug/L			07/22/16 22:34	5
1,2-Dichloroethane	<2.0		5.0	2.0	ug/L			07/22/16 22:34	5
1,1-Dichloroethene	<2.0		5.0	2.0	ug/L			07/22/16 22:34	5
Ethylbenzene	<0.92		2.5	0.92	ug/L			07/22/16 22:34	5
Methyl bromide	<3.2		10	3.2	ug/L			07/22/16 22:34	5
Methyl chloride	<1.6		5.0	1.6	ug/L			07/22/16 22:34	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			07/22/16 22:34	5
1,1,1,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			07/22/16 22:34	5
Toluene	<0.76		2.5	0.76	ug/L			07/22/16 22:34	5
trans-1,2-Dichloroethene	<1.7		5.0	1.7	ug/L			07/22/16 22:34	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			07/22/16 22:34	5
1,1,2-Trichloroethane	<1.8		5.0	1.8	ug/L			07/22/16 22:34	5
Trichloroethene	<0.82		2.5	0.82	ug/L			07/22/16 22:34	5
Vinyl chloride	<1.0		2.5	1.0	ug/L			07/22/16 22:34	5
Xylenes, Total	<2.0		5.0	2.0	ug/L			07/22/16 22:34	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		71 - 120		07/22/16 22:34	5
1,2-Dichloroethane-d4 (Surr)	92		71 - 127		07/22/16 22:34	5
Toluene-d8 (Surr)	97		75 - 120		07/22/16 22:34	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			07/22/16 23:00	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		71 - 120		07/22/16 23:00	50
1,2-Dichloroethane-d4 (Surr)	94		71 - 127		07/22/16 23:00	50
Toluene-d8 (Surr)	96		75 - 120		07/22/16 23:00	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	1.8	J	5.1	1.3	mg/L		07/22/16 07:55	07/22/16 11:42	1
Chloride	100		5.0	1.9	mg/L			07/25/16 12:35	25
Total Suspended Solids	2.5	J	5.0	2.5	mg/L			07/21/16 12:38	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-114639-1

Client Sample ID: Effluent

Date Collected: 07/20/16 09:05

Date Received: 07/21/16 10:20

Lab Sample ID: 500-114639-2

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			07/22/16 22:07	1
Bromoform	<0.45		1.0	0.45	ug/L			07/22/16 22:07	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/22/16 22:07	1
Chloroform	<0.37		1.0	0.37	ug/L			07/22/16 22:07	1
cis-1,2-Dichloroethene	18		1.0	0.41	ug/L			07/22/16 22:07	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			07/22/16 22:07	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/22/16 22:07	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/22/16 22:07	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/22/16 22:07	1
Methyl bromide	<0.65		2.0	0.65	ug/L			07/22/16 22:07	1
Methyl chloride	<0.32		1.0	0.32	ug/L			07/22/16 22:07	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/22/16 22:07	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/22/16 22:07	1
Tetrachloroethene	37		1.0	0.37	ug/L			07/22/16 22:07	1
Toluene	<0.15		0.50	0.15	ug/L			07/22/16 22:07	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/22/16 22:07	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/22/16 22:07	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/22/16 22:07	1
Trichloroethene	8.3		0.50	0.16	ug/L			07/22/16 22:07	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			07/22/16 22:07	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			07/22/16 22:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		71 - 120		07/22/16 22:07	1
1,2-Dichloroethane-d4 (Surr)	91		71 - 127		07/22/16 22:07	1
Toluene-d8 (Surr)	99		75 - 120		07/22/16 22:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	1.6	J F1	5.4	1.4	mg/L		07/22/16 08:01	07/22/16 11:46	1
Chloride	70		5.0	1.9	mg/L			07/25/16 12:47	25
Total Suspended Solids	2.5	J	5.0	2.5	mg/L			07/21/16 12:40	1

Client Sample Results

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

TestAmerica Job ID: 500-114639-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-114639-3

Date Collected: 07/20/16 00:00

Matrix: Water

Date Received: 07/21/16 10:20

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			07/22/16 21:40	1
Bromoform	<0.45		1.0	0.45	ug/L			07/22/16 21:40	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/22/16 21:40	1
Chloroform	<0.37		1.0	0.37	ug/L			07/22/16 21:40	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			07/22/16 21:40	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			07/22/16 21:40	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/22/16 21:40	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/22/16 21:40	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/22/16 21:40	1
Methyl bromide	<0.65		2.0	0.65	ug/L			07/22/16 21:40	1
Methyl chloride	<0.32		1.0	0.32	ug/L			07/22/16 21:40	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/22/16 21:40	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/22/16 21:40	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			07/22/16 21:40	1
Toluene	<0.15		0.50	0.15	ug/L			07/22/16 21:40	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/22/16 21:40	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/22/16 21:40	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/22/16 21:40	1
Trichloroethene	<0.16		0.50	0.16	ug/L			07/22/16 21:40	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			07/22/16 21:40	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			07/22/16 21:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		71 - 120		07/22/16 21:40	1
1,2-Dichloroethane-d4 (Surr)	92		71 - 127		07/22/16 21:40	1
Toluene-d8 (Surr)	96		75 - 120		07/22/16 21:40	1

Definitions/Glossary

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

TestAmerica Job ID: 500-114639-1

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.
F1	MS and/or MSD Recovery is outside acceptance 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 - GETS/SVE

TestAmerica Job ID: 500-114639-1

GC/MS VOA

Analysis Batch: 344726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-114639-1	Influent	Total/NA	Water	624	
500-114639-1 - DL	Influent	Total/NA	Water	624	
500-114639-2	Effluent	Total/NA	Water	624	
500-114639-3	Trip Blank	Total/NA	Water	624	
MB 500-344726/41	Method Blank	Total/NA	Water	624	
LCS 500-344726/27	Lab Control Sample	Total/NA	Water	624	

General Chemistry

Analysis Batch: 344651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-114639-1	Influent	Total/NA	Water	SM 2540D	
500-114639-2	Effluent	Total/NA	Water	SM 2540D	
MB 500-344651/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-344651/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Prep Batch: 344737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-114639-1	Influent	Total/NA	Water	1664B	
500-114639-2	Effluent	Total/NA	Water	1664B	
MB 500-344737/1-A	Method Blank	Total/NA	Water	1664B	
LCS 500-344737/2-A	Lab Control Sample	Total/NA	Water	1664B	
500-114639-2 MS	Effluent	Total/NA	Water	1664B	

Analysis Batch: 344742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-114639-1	Influent	Total/NA	Water	1664B	344737
500-114639-2	Effluent	Total/NA	Water	1664B	344737
MB 500-344737/1-A	Method Blank	Total/NA	Water	1664B	344737
LCS 500-344737/2-A	Lab Control Sample	Total/NA	Water	1664B	344737
500-114639-2 MS	Effluent	Total/NA	Water	1664B	344737

Analysis Batch: 345064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-114639-1	Influent	Total/NA	Water	300.0	
500-114639-2	Effluent	Total/NA	Water	300.0	
MB 500-345064/3	Method Blank	Total/NA	Water	300.0	
LCS 500-345064/4	Lab Control Sample	Total/NA	Water	300.0	

Surrogate Summary

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

TestAmerica Job ID: 500-114639-1

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)
500-114639-1	Influent	98	92	97
500-114639-1 - DL	Influent	102	94	96
500-114639-2	Effluent	102	91	99
500-114639-3	Trip Blank	101	92	96
LCS 500-344726/27	Lab Control Sample	97	90	96
MB 500-344726/41	Method Blank	102	91	100

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: 500-114639-1

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

Lab Sample ID: MB 500-344726/41
Matrix: Water
Analysis Batch: 344726

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			07/22/16 20:57	1
Bromoform	<0.45		1.0	0.45	ug/L			07/22/16 20:57	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/22/16 20:57	1
Chloroform	<0.37		1.0	0.37	ug/L			07/22/16 20:57	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			07/22/16 20:57	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			07/22/16 20:57	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/22/16 20:57	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/22/16 20:57	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/22/16 20:57	1
Methyl bromide	<0.65		2.0	0.65	ug/L			07/22/16 20:57	1
Methyl chloride	<0.32		1.0	0.32	ug/L			07/22/16 20:57	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/22/16 20:57	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/22/16 20:57	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			07/22/16 20:57	1
Toluene	<0.15		0.50	0.15	ug/L			07/22/16 20:57	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/22/16 20:57	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/22/16 20:57	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/22/16 20:57	1
Trichloroethene	<0.16		0.50	0.16	ug/L			07/22/16 20:57	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			07/22/16 20:57	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			07/22/16 20:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		71 - 120		07/22/16 20:57	1
1,2-Dichloroethane-d4 (Surr)	91		71 - 127		07/22/16 20:57	1
Toluene-d8 (Surr)	100		75 - 120		07/22/16 20:57	1

Lab Sample ID: LCS 500-344726/27
Matrix: Water
Analysis Batch: 344726

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	46.9		ug/L		94	37 - 151
Bromoform	50.0	40.3		ug/L		81	45 - 169
Carbon tetrachloride	50.0	39.0		ug/L		78	70 - 140
Chloroform	50.0	41.4		ug/L		83	51 - 138
cis-1,2-Dichloroethene	50.0	44.9		ug/L		90	70 - 130
Dichlorobromomethane	50.0	41.6		ug/L		83	35 - 155
1,2-Dichloroethane	50.0	42.5		ug/L		85	49 - 155
1,1-Dichloroethene	50.0	44.3		ug/L		89	10 - 234
Ethylbenzene	50.0	43.4		ug/L		87	37 - 162
Methyl bromide	50.0	38.3		ug/L		77	10 - 242
Methyl chloride	50.0	47.4		ug/L		95	10 - 273
m&p-Xylene	50.0	42.7		ug/L		85	
o-Xylene	50.0	43.1		ug/L		86	
1,1,2,2-Tetrachloroethane	50.0	42.8		ug/L		86	46 - 157
Tetrachloroethene	50.0	46.4		ug/L		93	64 - 148
Toluene	50.0	43.5		ug/L		87	47 - 150

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-114639-1

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

Lab Sample ID: LCS 500-344726/27
Matrix: Water
Analysis Batch: 344726

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	50.0	43.1		ug/L		86	54 - 156
1,1,1-Trichloroethane	50.0	41.3		ug/L		83	52 - 162
1,1,2-Trichloroethane	50.0	42.3		ug/L		85	52 - 150
Trichloroethene	50.0	44.9		ug/L		90	71 - 157
Vinyl chloride	50.0	45.7		ug/L		91	10 - 251

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		71 - 120
1,2-Dichloroethane-d4 (Surr)	90		71 - 127
Toluene-d8 (Surr)	96		75 - 120

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 500-344737/1-A
Matrix: Water
Analysis Batch: 344742

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 344737

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	<1.3		5.0	1.3	mg/L		07/22/16 07:45	07/22/16 11:35	1

Lab Sample ID: LCS 500-344737/2-A
Matrix: Water
Analysis Batch: 344742

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 344737

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	40.0	33.0		mg/L		82	78 - 114

Lab Sample ID: 500-114639-2 MS
Matrix: Water
Analysis Batch: 344742

Client Sample ID: Effluent
Prep Type: Total/NA
Prep Batch: 344737

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	1.6	J F1	43.3	24.1	F1	mg/L		52	78 - 114

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-345064/3
Matrix: Water
Analysis Batch: 345064

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			07/25/16 11:52	1

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-114639-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-345064/4
 Matrix: Water
 Analysis Batch: 345064

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	2.75		mg/L		92	90 - 110

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

Lab Sample ID: MB 500-344651/1
 Matrix: Water
 Analysis Batch: 344651

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			07/21/16 12:35	1

Lab Sample ID: LCS 500-344651/2
 Matrix: Water
 Analysis Batch: 344651

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	184		mg/L		92	80 - 120

Lab Chronicle

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

TestAmerica Job ID: 500-114639-1

Client Sample ID: Influent

Date Collected: 07/20/16 09:00

Date Received: 07/21/16 10:20

Lab Sample ID: 500-114639-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		5	344726	07/22/16 22:34	PMF	TAL CHI
Total/NA	Analysis	624	DL	50	344726	07/22/16 23:00	PMF	TAL CHI
Total/NA	Prep	1664B			344737	07/22/16 07:55	ADK	TAL CHI
Total/NA	Analysis	1664B		1	344742	07/22/16 11:42	ADK	TAL CHI
Total/NA	Analysis	300.0		25	345064	07/25/16 12:35	CCK	TAL CHI
Total/NA	Analysis	SM 2540D		1	344651		SMO	TAL CHI
						(Start) 07/21/16 12:38		
						(End) 07/21/16 12:40		

Client Sample ID: Effluent

Date Collected: 07/20/16 09:05

Date Received: 07/21/16 10:20

Lab Sample ID: 500-114639-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	344726	07/22/16 22:07	PMF	TAL CHI
Total/NA	Prep	1664B			344737	07/22/16 08:01	ADK	TAL CHI
Total/NA	Analysis	1664B		1	344742	07/22/16 11:46	ADK	TAL CHI
Total/NA	Analysis	300.0		25	345064	07/25/16 12:47	CCK	TAL CHI
Total/NA	Analysis	SM 2540D		1	344651		SMO	TAL CHI
						(Start) 07/21/16 12:40		
						(End) 07/21/16 12:41		

Client Sample ID: Trip Blank

Date Collected: 07/20/16 00:00

Date Received: 07/21/16 10:20

Lab Sample ID: 500-114639-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	344726	07/22/16 21:40	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 - GETS/SVE

TestAmerica Job ID: 500-114639-1

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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* Certification renewal pending - certification considered valid.

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 Satkoski
Company: MKC
Address: 201 Waluhera
Address: Madison, WI 53704
Phone: 608-242-5200
Fax: asatkoski@
E-Mail: madison-kipp.com

Bill To (optional)
Contact: Accounts Payable
Company: MKC
Address: _____
Address: _____
Phone: _____
Phone: _____
Fax: _____
PO#/Reference# 100371

Chain of Custody Record

Lab Job #: 500-114639

Chain of Custody Number: _____

Page 1 of 1

Temperature °C of Cooler: 7.8

Client		Client Project #		Preservative		Parameter		Matrix		500-114639 COC	Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Lab Project #		Sampling		Containers		Matrix			
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	DOC	PAH	BOB/ TSS/ Chloride		
mKC											
GETS											
Project Location/State		Lab Project #									
madison, WI											
Sampler		Lab PM									
Alina Satkoski		Sandie Frodnick									
1		Influent	7/20/16	900	9	W	X	X	X	X	for DOC + PAH see attached analytical list
2		Effluent	7/20/16	905	9	W	X	X	X	X	
3		Trip Blank	7/20/16	-	1	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>7/20/16</u>	<u>11:00</u>	<u>[Signature]</u>	<u>TAL</u>	<u>07/21/16</u>	<u>1020</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier _____
Shipped
Hand Delivered _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WL - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments
Report to Andy Stehn + Alina Satkoski

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
1,1,1,2-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
TSS	
Suspended Solids, Total	2540D
BTEX	
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
----------------	------

BOD₅

BOD ₅	5210B
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Anions

Chloride	300
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ORIGIN ID:MSNA

SHIP DATE: 20JUL16
ACTWT: 48.90 LB MAN
CAD: /OFFC1704
DIMS: 25x15x14 IN

Part # 188297V-438 RITZ EXP 04/17 ***

UNITED STATES US

BILL RECIPIENT

TO **SAMPLE**
TESTAMERICA LABORATORIES, INC.
2417 BOND ST

UNIVERSITY PARK IL 60484

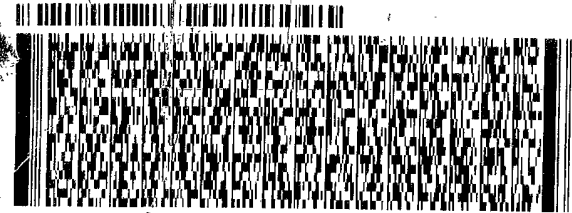
(708) 634-6200

REF:

INV:

DEPT:

PO:



FedEx
Express



THU - 21 JUL 10:30A
PRIORITY OVERNIGHT

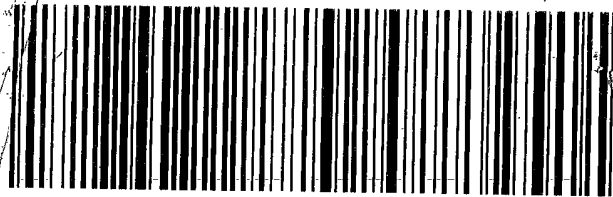
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500-114639 Waybill



Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-114639-1

Login Number: 114639

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.	False	ON ICE
Cooler Temperature is recorded.	True	7.8c
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.	True	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-114639-2

Client Project/Site: MadisonKipp - GETS/SVE

For:

Madison-Kipp Corporation

201 Waubesa Street

Madison, Wisconsin 53704

Attn: Alina Satkoski



Authorized for release by:

7/26/2016 4:03:40 PM

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: 500-114639-2

Job ID: 500-114639-2

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-114639-2

Comments

No additional comments.

Receipt

The samples were received on 7/21/2016 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 7.8° C.

GC/MS Semi VOA

Method(s) 625 SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 490-357309 and analytical batch 490-357503.

Method(s) 625 SIM: Internal standard response for Chrysene-d12 was outside of acceptance limits for the following samples: Influent (500-114639-1) and Effluent (500-114639-2). The samples were re-analyzed with concurring results; therefore, the original data is reported.

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

General Chemistry

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

Organic Prep

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

Detection Summary

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

TestAmerica Job ID: 500-114639-2

Client Sample ID: Influent

Lab Sample ID: 500-114639-1

No Detections.

Client Sample ID: Effluent

Lab Sample ID: 500-114639-2

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: 500-114639-2

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: 500-114639-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-114639-1	Influent	Water	07/20/16 09:00	07/21/16 10:20
500-114639-2	Effluent	Water	07/20/16 09:05	07/21/16 10:20

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Client Sample Results

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

TestAmerica Job ID: 500-114639-2

Client Sample ID: Influent

Date Collected: 07/20/16 09:00

Date Received: 07/21/16 10:20

Lab Sample ID: 500-114639-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.025	*	0.050	0.025	ug/L		07/22/16 15:56	07/24/16 17:59	1
Benzo[a]pyrene	<0.025		0.050	0.025	ug/L		07/22/16 15:56	07/24/16 17:59	1
Benzo[b]fluoranthene	<0.025		0.050	0.025	ug/L		07/22/16 15:56	07/24/16 17:59	1
Benzo[g,h,i]perylene	<0.050		0.10	0.050	ug/L		07/22/16 15:56	07/24/16 17:59	1
Benzo[k]fluoranthene	<0.050		0.10	0.050	ug/L		07/22/16 15:56	07/24/16 17:59	1
Chrysene	<0.050	*	0.10	0.050	ug/L		07/22/16 15:56	07/24/16 17:59	1
Dibenz(a,h)anthracene	<0.025		0.050	0.025	ug/L		07/22/16 15:56	07/24/16 17:59	1
Fluoranthene	<0.050		0.10	0.050	ug/L		07/22/16 15:56	07/24/16 17:59	1
Indeno[1,2,3-cd]pyrene	<0.025		0.050	0.025	ug/L		07/22/16 15:56	07/24/16 17:59	1
Naphthalene	<0.050		0.10	0.050	ug/L		07/22/16 15:56	07/24/16 17:59	1
Phenanthrene	<0.050		0.10	0.050	ug/L		07/22/16 15:56	07/24/16 17:59	1
Pyrene	<0.050	*	0.10	0.050	ug/L		07/22/16 15:56	07/24/16 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	72		27 - 120	07/22/16 15:56	07/24/16 17:59	1
Terphenyl-d14	15	*	13 - 120	07/22/16 15:56	07/24/16 17:59	1
2-Fluorobiphenyl (Surr)	72		10 - 120	07/22/16 15:56	07/24/16 17:59	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			07/21/16 17:14	1

Client Sample Results

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

TestAmerica Job ID: 500-114639-2

Client Sample ID: Effluent

Date Collected: 07/20/16 09:05

Date Received: 07/21/16 10:20

Lab Sample ID: 500-114639-2

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		07/22/16 15:56	07/24/16 18:24	1
Benzo[a]pyrene	<0.024		0.048	0.024	ug/L		07/22/16 15:56	07/24/16 18:24	1
Benzo[b]fluoranthene	<0.024		0.048	0.024	ug/L		07/22/16 15:56	07/24/16 18:24	1
Benzo[g,h,i]perylene	<0.048		0.096	0.048	ug/L		07/22/16 15:56	07/24/16 18:24	1
Benzo[k]fluoranthene	<0.048		0.096	0.048	ug/L		07/22/16 15:56	07/24/16 18:24	1
Chrysene	<0.048	*	0.096	0.048	ug/L		07/22/16 15:56	07/24/16 18:24	1
Dibenz(a,h)anthracene	<0.024		0.048	0.024	ug/L		07/22/16 15:56	07/24/16 18:24	1
Fluoranthene	<0.048		0.096	0.048	ug/L		07/22/16 15:56	07/24/16 18:24	1
Indeno[1,2,3-cd]pyrene	<0.024		0.048	0.024	ug/L		07/22/16 15:56	07/24/16 18:24	1
Naphthalene	<0.048		0.096	0.048	ug/L		07/22/16 15:56	07/24/16 18:24	1
Phenanthrene	<0.048		0.096	0.048	ug/L		07/22/16 15:56	07/24/16 18:24	1
Pyrene	<0.048	*	0.096	0.048	ug/L		07/22/16 15:56	07/24/16 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	44		27 - 120	07/22/16 15:56	07/24/16 18:24	1
Terphenyl-d14	14	*	13 - 120	07/22/16 15:56	07/24/16 18:24	1
2-Fluorobiphenyl (Surr)	56		10 - 120	07/22/16 15:56	07/24/16 18:24	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			07/21/16 17:32	1

Definitions/Glossary

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

TestAmerica Job ID: 500-114639-2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits

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: 500-114639-2

GC/MS Semi VOA

Prep Batch: 357309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-114639-1	Influent	Total/NA	Water	625	
500-114639-2	Effluent	Total/NA	Water	625	
MB 490-357309/1-A	Method Blank	Total/NA	Water	625	
LCS 490-357309/2-A	Lab Control Sample	Total/NA	Water	625	

Analysis Batch: 357503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-114639-1	Influent	Total/NA	Water	625 SIM	357309
500-114639-2	Effluent	Total/NA	Water	625 SIM	357309
MB 490-357309/1-A	Method Blank	Total/NA	Water	625 SIM	357309
LCS 490-357309/2-A	Lab Control Sample	Total/NA	Water	625 SIM	357309

General Chemistry

Analysis Batch: 344620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-114639-1	Influent	Total/NA	Water	SM 5210B	
500-114639-2	Effluent	Total/NA	Water	SM 5210B	
USB 500-344620/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 500-344620/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Surrogate Summary

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

TestAmerica Job ID: 500-114639-2

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)
500-114639-1	Influent	72	15 *	72
500-114639-2	Effluent	44	14 *	56
LCS 490-357309/2-A	Lab Control Sample	61	65	71
MB 490-357309/1-A	Method Blank	45	67	65

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: 500-114639-2

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

Lab Sample ID: MB 490-357309/1-A
Matrix: Water
Analysis Batch: 357503

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 357309

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.025		0.050	0.025	ug/L		07/22/16 15:56	07/24/16 17:11	1
Benzo[a]pyrene	<0.025		0.050	0.025	ug/L		07/22/16 15:56	07/24/16 17:11	1
Benzo[b]fluoranthene	<0.025		0.050	0.025	ug/L		07/22/16 15:56	07/24/16 17:11	1
Benzo[g,h,i]perylene	<0.050		0.10	0.050	ug/L		07/22/16 15:56	07/24/16 17:11	1
Benzo[k]fluoranthene	<0.050		0.10	0.050	ug/L		07/22/16 15:56	07/24/16 17:11	1
Chrysene	<0.050		0.10	0.050	ug/L		07/22/16 15:56	07/24/16 17:11	1
Dibenz(a,h)anthracene	<0.025		0.050	0.025	ug/L		07/22/16 15:56	07/24/16 17:11	1
Fluoranthene	<0.050		0.10	0.050	ug/L		07/22/16 15:56	07/24/16 17:11	1
Indeno[1,2,3-cd]pyrene	<0.025		0.050	0.025	ug/L		07/22/16 15:56	07/24/16 17:11	1
Naphthalene	<0.050		0.10	0.050	ug/L		07/22/16 15:56	07/24/16 17:11	1
Phenanthrene	<0.050		0.10	0.050	ug/L		07/22/16 15:56	07/24/16 17:11	1
Pyrene	<0.050		0.10	0.050	ug/L		07/22/16 15:56	07/24/16 17:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	45		27 - 120	07/22/16 15:56	07/24/16 17:11	1
Terphenyl-d14	67		13 - 120	07/22/16 15:56	07/24/16 17:11	1
2-Fluorobiphenyl (Surr)	65		10 - 120	07/22/16 15:56	07/24/16 17:11	1

Lab Sample ID: LCS 490-357309/2-A
Matrix: Water
Analysis Batch: 357503

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 357309

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzo[a]anthracene	2.00	1.29		ug/L		65	33 - 143
Benzo[a]pyrene	2.00	1.44		ug/L		72	17 - 163
Benzo[b]fluoranthene	2.00	1.33		ug/L		66	24 - 159
Benzo[g,h,i]perylene	2.00	1.41		ug/L		71	10 - 219
Benzo[k]fluoranthene	2.00	1.34		ug/L		67	11 - 162
Chrysene	2.00	1.55		ug/L		78	17 - 168
Dibenz(a,h)anthracene	2.00	1.44		ug/L		72	10 - 227
Fluoranthene	2.00	1.60		ug/L		80	26 - 137
Indeno[1,2,3-cd]pyrene	2.00	1.45		ug/L		72	10 - 171
Naphthalene	2.00	1.13		ug/L		57	21 - 133
Phenanthrene	2.00	1.17		ug/L		59	54 - 120
Pyrene	2.00	1.11		ug/L		55	52 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	61		27 - 120
Terphenyl-d14	65		13 - 120
2-Fluorobiphenyl (Surr)	71		10 - 120

QC Sample Results

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

TestAmerica Job ID: 500-114639-2

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 500-344620/1
Matrix: Water
Analysis Batch: 344620

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			07/21/16 12:00	1

Lab Sample ID: LCS 500-344620/2
Matrix: Water
Analysis Batch: 344620

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

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

Lab Chronicle

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

TestAmerica Job ID: 500-114639-2

Client Sample ID: Influent

Date Collected: 07/20/16 09:00

Date Received: 07/21/16 10:20

Lab Sample ID: 500-114639-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			357309	07/22/16 15:56	MRM	TAL NSH
Total/NA	Analysis	625 SIM		1	357503	07/24/16 17:59	T1C	TAL NSH
Total/NA	Analysis	SM 5210B		1	344620		MAN	TAL CHI
					(Start)	07/21/16 17:14		
					(End)	07/21/16 17:32		

Client Sample ID: Effluent

Date Collected: 07/20/16 09:05

Date Received: 07/21/16 10:20

Lab Sample ID: 500-114639-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			357309	07/22/16 15:56	MRM	TAL NSH
Total/NA	Analysis	625 SIM		1	357503	07/24/16 18:24	T1C	TAL NSH
Total/NA	Analysis	SM 5210B		1	344620		MAN	TAL CHI
					(Start)	07/21/16 17:32		
					(End)	07/21/16 17:49		

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: 500-114639-2

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

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	998020430	08-31-16

* Certification renewal pending - certification considered valid.



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 Satkoski
Company: MKC
Address: 201 Walubera
Address: Madison, WI 53704
Phone: 608-242-5200
Fax: asatkoski@
E-Mail: madison-kipp.com

Bill To (optional)
Contact: Accounts Payable
Company: MKC
Address: _____
Address: _____
Phone: _____
Phone: _____
Fax: _____
PO#/Reference# 100371


Chain of Custody Record

Lab Job #: 500-114639

Chain of Custody Number: _____

Page 1 of 1

Temperature °C of Cooler: 7.8

Client		Client Project #		Preservative		Parameter		Matrix		500-114639 COC	 500-114639 COC Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Lab Project #		Sampling		Containers		Matrix			
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	DOC	PAH	BOB/ TSS/ Chloride		
mkc											
GETS											
Project Location/State		Lab Project #									
madison, WI											
Sampler		Lab PM									
Alina Satkoski		Sandie Frodnick									
1		Influent	7/20/16	900	9 W	X	X	X	X		for DOC + PAH see attached analytical list
2		Effluent	7/20/16	905	9 W	X	X	X	X		
3		Trip Blank	7/20/16	-	1 W	X					

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	Company	Date	Time	Received By	Company	Date	Time
<u>Alina Satkoski</u>	<u>MKC</u>	<u>7/20/16</u>	<u>11:00</u>	<u>[Signature]</u>	<u>TAL</u>	<u>07/21/16</u>	<u>1020</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier _____
Shipped
Hand Delivered _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WL - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments
Report to Andy Stehn + Alina Satkoski

Lab Comments:

ORIGIN ID:MSNA

SHIP DATE: 20JUL16
ACTWGT: 48.90 LB MAN
CAD: /OFFC1704
DIMS: 25x15x14 IN

Part # 188297V-438 RITZ EXP 04/17 ***
SHIP/DATA/11 THS 16/210 36CDBA1*

UNITED STATES US

BILL RECIPIENT

TO **SAMPLE**
TESTAMERICA LABORATORIES, INC.
2417 BOND ST

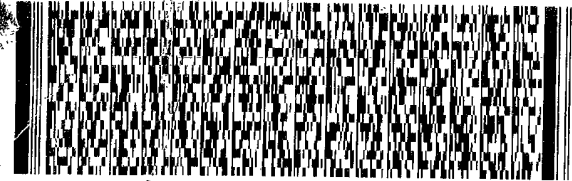
UNIVERSITY PARK IL 60484

(708) 634-6200

REF:

INV:

DEPT:



FedEx
Express



THU - 21 JUL 10:30A
PRIORITY OVERNIGHT

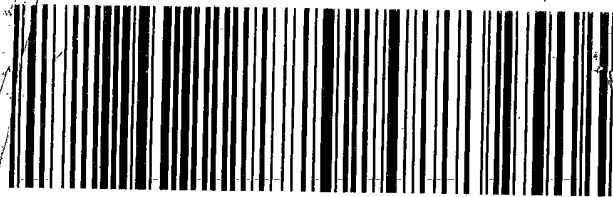
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T 0215

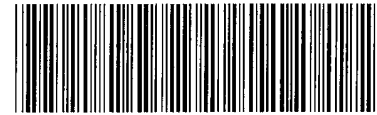
79 JOTA

60484
IL-US ORD



500-114639 Waybill





Cooler Received/Opened On 7/22/2016 @ 1000

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

1. Tracking # 7944 (last 4 digits, FedEx) Courier: FedEx
IR Gun ID 17960353 pH Strip Lot HC564992 Chlorine Strip Lot 012516A

2. Temperature of rep. sample or temp blank when opened: 0.9 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: (2) 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) mm

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 # sh

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

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) sh

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) sh

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

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

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

Chain of Custody Record

500-114639

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)
 Client Contact: _____ Phone: _____ Lab Pk#: _____
 Shipping/Receiving: _____ E-Mail: sandie.fredrick@testamericainc.com
 Company: TestAmerica Laboratories, Inc

Address: 2960 Foster Creighton Drive, Nashville, TN, 37204
 City: Nashville
 State Zip: TN, 37204
 Phone: 615-726-0177(Tel) 615-726-3404(Fax)
 Email: W/O #:
 Project Name: MadisonKipp - GETS/SVE Project #: 50009145
 Site: S50W#:

Due Date Requested: 7/26/2016
 TAT Requested (days):
 PO #:
 W/O #:
 Analysis Requested

Job #: 500-114639-2
 Page: Page 1 of 1
 Preservation Codes:
 A - HCL M - Hexane
 B - NaOH N - None
 C - Zn Acetate O - AshK2O
 D - Nitric Acid P - Na2O/S
 E - NaHSO4 Q - Na2SO3
 F - MeOH R - Na2S2O3
 G - Amchlor S - H2SO4
 H - Ascorbic Acid T - TSP Dodecylsulfate
 I - Ice U - Acetone
 J - DI Water V - MCAA
 K - EDTA W - pH 4-5
 L - EDTA Z - other (specify)
 Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Vendor, Serial, Orientation)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	625_SIM/625_Prep_LVI (MOD) Single compound	Total Number of containers	Special Instructions/Note:
Influent (500-114639-1)	7/20/16	09:00	Central	Water	X		2		
Effluent (500-114639-2)	7/20/16	09:05	Central	Water	X		2		

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify)
 Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: _____ Company: TAL
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: Yes No
 Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: O₂

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:
 Method of Shipment: _____
 Received by: _____ Date/Time: _____ Company: _____
 Received by: _____ Date/Time: _____ Company: _____

Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-114639-2

Login Number: 114639

List Source: TestAmerica Chicago

List Number: 1

Creator: Kelsey, Shawn M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	ON ICE
Cooler Temperature is recorded.	True	7.8c
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.	True	



Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-114639-2

Login Number: 114639

List Number: 2

Creator: Vest, Laura E

List Source: TestAmerica Nashville

List Creation: 07/22/16 01:37 PM

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.	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	0.9
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 <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	

