



November 6, 2017

Karl Knutson
Wisconsin Department of Natural Resources
Southeast Region
General Wastewater Permits
2300 N Dr. Martin Luther King Jr. Drive
Milwaukee, WI 53212

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

Dear Mr. Knutson,

The Groundwater Extraction and Treatment System (GETS) ran for the month of October with the exception of maintenance activities. This letter summarizes the activities completed in October 2017 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 for volatile organic compounds and visual monitoring for sodium permanganate on October 5, 2017. The compliance sample results were below the WPDES discharge limits. The Discharge Monitoring Report is included as Attachment A and laboratory reports are included as Attachment B. The GETS ran at 40 gpm on October 31, 2017 due to a maintenance issue.

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

Alina Satkoski

A handwritten signature in blue ink that reads "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 BTEX is the sum of the benzene, ethylbenzene, toluene and xylene concentrations. If all compounds were below their corresponding laboratory detection limits, then the highest detection limit of the BTEX compounds was noted.
- (2) PAH group of 10 (Polynuclear Aromatic Hydrocarbons) include the sum of the following individual compounds: benzo(a)anthracene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, 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/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.
- (8) The GETS was operated at 40 gpm for part of October 31 due to a maintenance issue.

DIRECTIONS:

- ☞ For "Outfall # and Description" enter the number of the outfall you are reporting (001 or 002, etc.) and the source of wastewater, (petroleum contact, tank bottom water, scrap and waste storage area oily water, or secondary containment). Copy and use a new form for each outfall.
- ☞ Monitoring for a given parameter depends on if the discharge is to surface water or groundwater, and petroleum category.
- ☞ The value entered must be the highest value of all samples analyzed for that day.
- ☞ For each quarter, indicate the month monitoring occurred next to "Month"
- ☞ Include as separate attachments to this form the annual reports for (a) waste oil and solids removed, and (b) tank bottom water disposal.

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 Bertolas

11-6-2017

Signature of Person Completing Form

Date

Alina Bertolas

11-6-2017

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: 500-135184-1

Client Project/Site: MadisonKipp - GETS/SVE

For:

Madison-Kipp Corporation

201 Waubesa Street

Madison, Wisconsin 53704

Attn: Alina Satkoski



Authorized for release by:

10/10/2017 11:51:15 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: 500-135184-1

Job ID: 500-135184-1

Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-135184-1**

Comments

No additional comments.

Receipt

The samples were received on 10/6/2017 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

GC/MS VOA

Method(s) 624: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (500-135184-1). 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.



Detection Summary

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

TestAmerica Job ID: 500-135184-1

Client Sample ID: Influent

Lab Sample ID: 500-135184-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 190 | | 5.0 | 2.0 | ug/L | 5 | | 624 | Total/NA |
| Trichloroethene | 240 | | 2.5 | 0.82 | ug/L | 5 | | 624 | Total/NA |
| Tetrachloroethene - DL | 1700 | | 50 | 19 | ug/L | 50 | | 624 | Total/NA |

Client Sample ID: Effluent

Lab Sample ID: 500-135184-2

| 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 | 23 | | 1.0 | 0.37 | ug/L | 1 | | 624 | Total/NA |
| Trichloroethene | 7.2 | | 0.50 | 0.16 | ug/L | 1 | | 624 | Total/NA |

Client Sample ID: Trip Blank

Lab Sample ID: 500-135184-3

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: 500-135184-1

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

Protocol References:

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

Laboratory References:

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



Sample Summary

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

TestAmerica Job ID: 500-135184-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 500-135184-1 | Influent | Water | 10/05/17 07:45 | 10/06/17 09:15 |
| 500-135184-2 | Effluent | Water | 10/05/17 07:40 | 10/06/17 09:15 |
| 500-135184-3 | Trip Blank | Water | 10/05/17 00:00 | 10/06/17 09:15 |

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Client Sample Results

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

TestAmerica Job ID: 500-135184-1

Client Sample ID: Influent

Lab Sample ID: 500-135184-1

Date Collected: 10/05/17 07:45

Matrix: Water

Date Received: 10/06/17 09:15

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 | | | 10/09/17 15:22 | 5 |
| Bromoform | <2.2 | | 5.0 | 2.2 | ug/L | | | 10/09/17 15:22 | 5 |
| Carbon tetrachloride | <1.9 | | 5.0 | 1.9 | ug/L | | | 10/09/17 15:22 | 5 |
| Chloroform | <1.9 | | 10 | 1.9 | ug/L | | | 10/09/17 15:22 | 5 |
| cis-1,2-Dichloroethene | 190 | | 5.0 | 2.0 | ug/L | | | 10/09/17 15:22 | 5 |
| Dichlorobromomethane | <1.9 | | 5.0 | 1.9 | ug/L | | | 10/09/17 15:22 | 5 |
| 1,2-Dichloroethane | <2.0 | | 5.0 | 2.0 | ug/L | | | 10/09/17 15:22 | 5 |
| 1,1-Dichloroethene | <2.0 | | 5.0 | 2.0 | ug/L | | | 10/09/17 15:22 | 5 |
| Ethylbenzene | <0.92 | | 2.5 | 0.92 | ug/L | | | 10/09/17 15:22 | 5 |
| Methyl bromide | <3.2 | | 10 | 3.2 | ug/L | | | 10/09/17 15:22 | 5 |
| Methyl chloride | <1.6 | | 5.0 | 1.6 | ug/L | | | 10/09/17 15:22 | 5 |
| Methyl tert-butyl ether | <2.0 | | 5.0 | 2.0 | ug/L | | | 10/09/17 15:22 | 5 |
| 1,1,1,2-Tetrachloroethane | <2.0 | | 5.0 | 2.0 | ug/L | | | 10/09/17 15:22 | 5 |
| Toluene | <0.76 | | 2.5 | 0.76 | ug/L | | | 10/09/17 15:22 | 5 |
| trans-1,2-Dichloroethene | <1.7 | | 5.0 | 1.7 | ug/L | | | 10/09/17 15:22 | 5 |
| 1,1,1-Trichloroethane | <1.9 | | 5.0 | 1.9 | ug/L | | | 10/09/17 15:22 | 5 |
| 1,1,2-Trichloroethane | <1.8 | | 5.0 | 1.8 | ug/L | | | 10/09/17 15:22 | 5 |
| Trichloroethene | 240 | | 2.5 | 0.82 | ug/L | | | 10/09/17 15:22 | 5 |
| Vinyl chloride | <1.0 | | 2.5 | 1.0 | ug/L | | | 10/09/17 15:22 | 5 |
| Xylenes, Total | <2.0 | | 5.0 | 2.0 | ug/L | | | 10/09/17 15:22 | 5 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 89 | | 71 - 120 | | 10/09/17 15:22 | 5 |
| 1,2-Dichloroethane-d4 (Surr) | 89 | | 71 - 127 | | 10/09/17 15:22 | 5 |
| Toluene-d8 (Surr) | 91 | | 75 - 120 | | 10/09/17 15:22 | 5 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------|-------------|-----------|----|-----|------|---|----------|----------------|---------|
| Tetrachloroethene | 1700 | | 50 | 19 | ug/L | | | 10/09/17 15:51 | 50 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 88 | | 71 - 120 | | 10/09/17 15:51 | 50 |
| 1,2-Dichloroethane-d4 (Surr) | 91 | | 71 - 127 | | 10/09/17 15:51 | 50 |
| Toluene-d8 (Surr) | 93 | | 75 - 120 | | 10/09/17 15:51 | 50 |

Client Sample Results

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

TestAmerica Job ID: 500-135184-1

Client Sample ID: Effluent

Date Collected: 10/05/17 07:40

Date Received: 10/06/17 09:15

Lab Sample ID: 500-135184-2

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 | | | 10/09/17 16:21 | 1 |
| Bromoform | <0.45 | | 1.0 | 0.45 | ug/L | | | 10/09/17 16:21 | 1 |
| Carbon tetrachloride | <0.38 | | 1.0 | 0.38 | ug/L | | | 10/09/17 16:21 | 1 |
| Chloroform | <0.37 | | 2.0 | 0.37 | ug/L | | | 10/09/17 16:21 | 1 |
| cis-1,2-Dichloroethene | 18 | | 1.0 | 0.41 | ug/L | | | 10/09/17 16:21 | 1 |
| Dichlorobromomethane | <0.37 | | 1.0 | 0.37 | ug/L | | | 10/09/17 16:21 | 1 |
| 1,2-Dichloroethane | <0.39 | | 1.0 | 0.39 | ug/L | | | 10/09/17 16:21 | 1 |
| 1,1-Dichloroethene | <0.39 | | 1.0 | 0.39 | ug/L | | | 10/09/17 16:21 | 1 |
| Ethylbenzene | <0.18 | | 0.50 | 0.18 | ug/L | | | 10/09/17 16:21 | 1 |
| Methyl bromide | <0.65 | | 2.0 | 0.65 | ug/L | | | 10/09/17 16:21 | 1 |
| Methyl chloride | <0.32 | | 1.0 | 0.32 | ug/L | | | 10/09/17 16:21 | 1 |
| Methyl tert-butyl ether | <0.39 | | 1.0 | 0.39 | ug/L | | | 10/09/17 16:21 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.40 | | 1.0 | 0.40 | ug/L | | | 10/09/17 16:21 | 1 |
| Tetrachloroethene | 23 | | 1.0 | 0.37 | ug/L | | | 10/09/17 16:21 | 1 |
| Toluene | <0.15 | | 0.50 | 0.15 | ug/L | | | 10/09/17 16:21 | 1 |
| trans-1,2-Dichloroethene | <0.35 | | 1.0 | 0.35 | ug/L | | | 10/09/17 16:21 | 1 |
| 1,1,1-Trichloroethane | <0.38 | | 1.0 | 0.38 | ug/L | | | 10/09/17 16:21 | 1 |
| 1,1,2-Trichloroethane | <0.35 | | 1.0 | 0.35 | ug/L | | | 10/09/17 16:21 | 1 |
| Trichloroethene | 7.2 | | 0.50 | 0.16 | ug/L | | | 10/09/17 16:21 | 1 |
| Vinyl chloride | <0.20 | | 0.50 | 0.20 | ug/L | | | 10/09/17 16:21 | 1 |
| Xylenes, Total | <0.40 | | 1.0 | 0.40 | ug/L | | | 10/09/17 16:21 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 90 | | 71 - 120 | | 10/09/17 16:21 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 89 | | 71 - 127 | | 10/09/17 16:21 | 1 |
| Toluene-d8 (Surr) | 93 | | 75 - 120 | | 10/09/17 16:21 | 1 |

Client Sample Results

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

TestAmerica Job ID: 500-135184-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-135184-3

Date Collected: 10/05/17 00:00

Matrix: Water

Date Received: 10/06/17 09:15

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 | | | 10/09/17 11:26 | 1 |
| Bromoform | <0.45 | | 1.0 | 0.45 | ug/L | | | 10/09/17 11:26 | 1 |
| Carbon tetrachloride | <0.38 | | 1.0 | 0.38 | ug/L | | | 10/09/17 11:26 | 1 |
| Chloroform | <0.37 | | 2.0 | 0.37 | ug/L | | | 10/09/17 11:26 | 1 |
| cis-1,2-Dichloroethene | <0.41 | | 1.0 | 0.41 | ug/L | | | 10/09/17 11:26 | 1 |
| Dichlorobromomethane | <0.37 | | 1.0 | 0.37 | ug/L | | | 10/09/17 11:26 | 1 |
| 1,2-Dichloroethane | <0.39 | | 1.0 | 0.39 | ug/L | | | 10/09/17 11:26 | 1 |
| 1,1-Dichloroethene | <0.39 | | 1.0 | 0.39 | ug/L | | | 10/09/17 11:26 | 1 |
| Ethylbenzene | <0.18 | | 0.50 | 0.18 | ug/L | | | 10/09/17 11:26 | 1 |
| Methyl bromide | <0.65 | | 2.0 | 0.65 | ug/L | | | 10/09/17 11:26 | 1 |
| Methyl chloride | <0.32 | | 1.0 | 0.32 | ug/L | | | 10/09/17 11:26 | 1 |
| Methyl tert-butyl ether | <0.39 | | 1.0 | 0.39 | ug/L | | | 10/09/17 11:26 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.40 | | 1.0 | 0.40 | ug/L | | | 10/09/17 11:26 | 1 |
| Tetrachloroethene | <0.37 | | 1.0 | 0.37 | ug/L | | | 10/09/17 11:26 | 1 |
| Toluene | <0.15 | | 0.50 | 0.15 | ug/L | | | 10/09/17 11:26 | 1 |
| trans-1,2-Dichloroethene | <0.35 | | 1.0 | 0.35 | ug/L | | | 10/09/17 11:26 | 1 |
| 1,1,1-Trichloroethane | <0.38 | | 1.0 | 0.38 | ug/L | | | 10/09/17 11:26 | 1 |
| 1,1,2-Trichloroethane | <0.35 | | 1.0 | 0.35 | ug/L | | | 10/09/17 11:26 | 1 |
| Trichloroethene | <0.16 | | 0.50 | 0.16 | ug/L | | | 10/09/17 11:26 | 1 |
| Vinyl chloride | <0.20 | | 0.50 | 0.20 | ug/L | | | 10/09/17 11:26 | 1 |
| Xylenes, Total | <0.40 | | 1.0 | 0.40 | ug/L | | | 10/09/17 11:26 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 88 | | 71 - 120 | | 10/09/17 11:26 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 92 | | 71 - 127 | | 10/09/17 11:26 | 1 |
| Toluene-d8 (Surr) | 92 | | 75 - 120 | | 10/09/17 11:26 | 1 |

Definitions/Glossary

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

TestAmerica Job ID: 500-135184-1

Glossary

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

QC Association Summary

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

TestAmerica Job ID: 500-135184-1

GC/MS VOA

Analysis Batch: 404450

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 500-135184-1 | Influent | Total/NA | Water | 624 | |
| 500-135184-1 - DL | Influent | Total/NA | Water | 624 | |
| 500-135184-2 | Effluent | Total/NA | Water | 624 | |
| 500-135184-3 | Trip Blank | Total/NA | Water | 624 | |
| MB 500-404450/7 | Method Blank | Total/NA | Water | 624 | |
| LCS 500-404450/6 | Lab Control Sample | Total/NA | Water | 624 | |

Surrogate Summary

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

TestAmerica Job ID: 500-135184-1

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) |
|-------------------|--------------------|-----------------|-------------------|-----------------|
| 500-135184-1 | Influent | 89 | 89 | 91 |
| 500-135184-1 - DL | Influent | 88 | 91 | 93 |
| 500-135184-2 | Effluent | 90 | 89 | 93 |
| 500-135184-3 | Trip Blank | 88 | 92 | 92 |
| LCS 500-404450/6 | Lab Control Sample | 88 | 85 | 93 |
| MB 500-404450/7 | Method Blank | 89 | 87 | 93 |

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: 500-135184-1

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

Lab Sample ID: MB 500-404450/7

Matrix: Water

Analysis Batch: 404450

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 | | | 10/09/17 09:52 | 1 |
| Bromoform | <0.45 | | 1.0 | 0.45 | ug/L | | | 10/09/17 09:52 | 1 |
| Carbon tetrachloride | <0.38 | | 1.0 | 0.38 | ug/L | | | 10/09/17 09:52 | 1 |
| Chloroform | <0.37 | | 2.0 | 0.37 | ug/L | | | 10/09/17 09:52 | 1 |
| cis-1,2-Dichloroethene | <0.41 | | 1.0 | 0.41 | ug/L | | | 10/09/17 09:52 | 1 |
| Dichlorobromomethane | <0.37 | | 1.0 | 0.37 | ug/L | | | 10/09/17 09:52 | 1 |
| 1,2-Dichloroethane | <0.39 | | 1.0 | 0.39 | ug/L | | | 10/09/17 09:52 | 1 |
| 1,1-Dichloroethene | <0.39 | | 1.0 | 0.39 | ug/L | | | 10/09/17 09:52 | 1 |
| Ethylbenzene | <0.18 | | 0.50 | 0.18 | ug/L | | | 10/09/17 09:52 | 1 |
| Methyl bromide | <0.65 | | 2.0 | 0.65 | ug/L | | | 10/09/17 09:52 | 1 |
| Methyl chloride | <0.32 | | 1.0 | 0.32 | ug/L | | | 10/09/17 09:52 | 1 |
| Methyl tert-butyl ether | <0.39 | | 1.0 | 0.39 | ug/L | | | 10/09/17 09:52 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.40 | | 1.0 | 0.40 | ug/L | | | 10/09/17 09:52 | 1 |
| Tetrachloroethene | <0.37 | | 1.0 | 0.37 | ug/L | | | 10/09/17 09:52 | 1 |
| Toluene | <0.15 | | 0.50 | 0.15 | ug/L | | | 10/09/17 09:52 | 1 |
| trans-1,2-Dichloroethene | <0.35 | | 1.0 | 0.35 | ug/L | | | 10/09/17 09:52 | 1 |
| 1,1,1-Trichloroethane | <0.38 | | 1.0 | 0.38 | ug/L | | | 10/09/17 09:52 | 1 |
| 1,1,2-Trichloroethane | <0.35 | | 1.0 | 0.35 | ug/L | | | 10/09/17 09:52 | 1 |
| Trichloroethene | <0.16 | | 0.50 | 0.16 | ug/L | | | 10/09/17 09:52 | 1 |
| Vinyl chloride | <0.20 | | 0.50 | 0.20 | ug/L | | | 10/09/17 09:52 | 1 |
| Xylenes, Total | <0.40 | | 1.0 | 0.40 | ug/L | | | 10/09/17 09:52 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 89 | | 71 - 120 | | 10/09/17 09:52 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 87 | | 71 - 127 | | 10/09/17 09:52 | 1 |
| Toluene-d8 (Surr) | 93 | | 75 - 120 | | 10/09/17 09:52 | 1 |

Lab Sample ID: LCS 500-404450/6

Matrix: Water

Analysis Batch: 404450

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 | 43.1 | | ug/L | | 86 | 37 - 151 |
| Bromoform | 50.0 | 48.1 | | ug/L | | 96 | 45 - 169 |
| Carbon tetrachloride | 50.0 | 45.1 | | ug/L | | 90 | 70 - 140 |
| Chloroform | 50.0 | 41.8 | | ug/L | | 84 | 51 - 138 |
| cis-1,2-Dichloroethene | 50.0 | 45.4 | | ug/L | | 91 | 70 - 130 |
| Dichlorobromomethane | 50.0 | 43.1 | | ug/L | | 86 | 35 - 155 |
| 1,2-Dichloroethane | 50.0 | 38.7 | | ug/L | | 77 | 49 - 155 |
| 1,1-Dichloroethene | 50.0 | 45.4 | | ug/L | | 91 | 10 - 234 |
| Ethylbenzene | 50.0 | 44.1 | | ug/L | | 88 | 37 - 162 |
| Methyl bromide | 50.0 | 56.3 | | ug/L | | 113 | 10 - 242 |
| Methyl chloride | 50.0 | 36.3 | | ug/L | | 73 | 10 - 273 |
| m&p-Xylene | 50.0 | 41.8 | | ug/L | | 84 | |
| o-Xylene | 50.0 | 40.0 | | ug/L | | 80 | |
| 1,1,2,2-Tetrachloroethane | 50.0 | 43.4 | | ug/L | | 87 | 46 - 157 |
| Tetrachloroethene | 50.0 | 46.2 | | ug/L | | 92 | 64 - 148 |
| Toluene | 50.0 | 41.8 | | ug/L | | 84 | 47 - 150 |

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-135184-1

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

Lab Sample ID: LCS 500-404450/6
Matrix: Water
Analysis Batch: 404450

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------|-------------|------------|---------------|------|---|------|--------------|
| trans-1,2-Dichloroethene | 50.0 | 45.7 | | ug/L | | 91 | 54 - 156 |
| 1,1,1-Trichloroethane | 50.0 | 42.2 | | ug/L | | 84 | 52 - 162 |
| 1,1,2-Trichloroethane | 50.0 | 44.9 | | ug/L | | 90 | 52 - 150 |
| Trichloroethene | 50.0 | 48.9 | | ug/L | | 98 | 71 - 157 |
| Vinyl chloride | 50.0 | 51.6 | | ug/L | | 103 | 10 - 251 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 88 | | 71 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 85 | | 71 - 127 |
| Toluene-d8 (Surr) | 93 | | 75 - 120 |



Lab Chronicle

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

TestAmerica Job ID: 500-135184-1

Client Sample ID: Influent

Date Collected: 10/05/17 07:45

Date Received: 10/06/17 09:15

Lab Sample ID: 500-135184-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 624 | | 5 | 404450 | 10/09/17 15:22 | PMF | TAL CHI |
| Total/NA | Analysis | 624 | DL | 50 | 404450 | 10/09/17 15:51 | PMF | TAL CHI |

Client Sample ID: Effluent

Date Collected: 10/05/17 07:40

Date Received: 10/06/17 09:15

Lab Sample ID: 500-135184-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 624 | | 1 | 404450 | 10/09/17 16:21 | PMF | TAL CHI |

Client Sample ID: Trip Blank

Date Collected: 10/05/17 00:00

Date Received: 10/06/17 09:15

Lab Sample ID: 500-135184-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 624 | | 1 | 404450 | 10/09/17 11:26 | PMF | TAL CHI |

Laboratory References:

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

Accreditation/Certification Summary

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

TestAmerica Job ID: 500-135184-1

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | EPA Region | Identification Number | Expiration Date |
|-----------|---------------|------------|-----------------------|-----------------|
| Wisconsin | State Program | 5 | 999580010 | 08-31-18 |

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: Alina Satkoski / A Stehn
 Company: MKC / TRC
 Address: 201 Waukesha St.
 Address: Madison, WI 53704
 Phone: 608 242 5200
 Fax: asatkoski@
 E-Mail: madison-kipp.com

Bill To (optional)
 Contact: Accounts Payable
 Company: MKC
 Address: ap@madison-
 Address: Kipp.com
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-135184

Chain of Custody Number: _____

Page 1 of 1

Temperature °C of Cooler: 21



| Client | | Client Project # | | Preservative | Parameter | | 500-135184 COC | | |
|------------------------|--------|------------------|---------|-----------------|-----------|----------|----------------|------|------------------------------|
| Project Name | | Lab Project # | | # of Containers | Matrix | Comments | | | |
| Project Location/State | | Lab PM | | | | | Date | Time | Sampling |
| Lab ID | MS/MSD | Sample ID | Sampler | Matrix | | Date | | | |
| mkc | | | | 1 | VOCs | | | | |
| GETS | | | | | | | | | |
| Madison, WI | | Sandie Fredrick | | | | | | | |
| Alina Satkoski | | | | | | | | | |
| 1 | | Influent | | 3 | W | X | | | see attached analyte list |
| 2 | | Effluent | | 3 | W | X | | | |
| 3 | | Trip Blank | | 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 <u>Alina Satkoski</u> | Company <u>MKC</u> | Date | Time | Received By <u>[Signature]</u> | Company <u>TA</u> | Date <u>10/06/17</u> | Time <u>09:15</u> |
| Relinquished By | Company | Date | Time | Received By | Company | Date | Time |
| Relinquished By | Company | Date | Time | Received By | Company | Date | Time |

Lab Courier: _____

Shipped:

Hand Delivered: _____

Matrix Key

WW - Wastewater
 W - Water
 S - Soil
 SL - Sludge
 MS - Miscellaneous
 OL - Oil
 A - Air

SE - Sediment
 SO - Soil
 L - Leachate
 WI - Wipe
 DW - Drinking Water
 O - Other

Client Comments:

Lab Comments:

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

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

SHIP DATE: 29SEP17
 ACTWGT: 10.00 LB·MAN
 CAD: 33264/CAFE310B



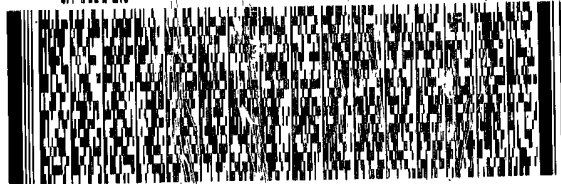
500-135184 Waybill

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

UNIVERSITY PARK IL 60466

(708) 534-5200
 REF: S500-54233

RMA: ||| ||| |||



FedEx
Express

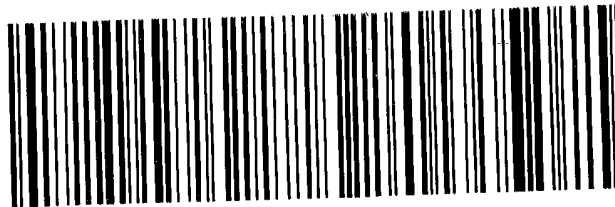


FedEx
 TRK# 4059 7165 8252
 0221

FRI - 06 OCT 10:30A
PRIORITY OVERNIGHT

79 JOTA

60466
 IL-US **OR**



Part # 156148-434 RIT EXP 08/18
 Part # 156148-404 RIT EXP 08/18

9225422_10/05_54913/0890/1040

Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-135184-1

Login Number: 135184

List Source: TestAmerica Chicago

List Number: 1

Creator: Kelsey, Shawn M

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 2.1c |
| 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 | |

