MKC
Madison-Kipp Corporation

Post Office Box 8043
Madison, WI 53708-8043

201 Waubesa Street
Madison, WI 53704-5728

June 6, 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 May, with the exception of routine maintenance activities. This letter summarizes the activities completed in May 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 May 4, 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 May, the GETS shut down in order to change out the hydrogen peroxide tank. 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)

DISCHARGE MONITORING REPORT FORM **Year:____2016_____**
Contaminated Groundwater from Remedial Action Operations - Surface Water Discharge
Permit No. WI-0046566-6 Rev. December16, 2013

Facility Name and Location
Madison Kipp Corporation
201 Waubesa St
Madison, WI 53704
Consultant Managing Project: TRC
FIN#:

Outfall # and Description		Flow (gal/day)	Oil & Grease (mg/L)	BOD_5 (mg/L)	Total BETX (µg/L)	PAHs group of 10 (µg/L)	Benzo(a) pyrene (µg/L)	Naphthalene (µg/L)	Potassium Permanganate (mg/L)	Benzene (µg/L)	TSS (mg/L)
Effluent	Month: May 4, 2016	64,800	1.1 J B	< 2.0	< 0.40	0.077 J	< 0.023	0.077 J	Absent	< 0.15	< 1.6
	Month:										
	Month:										
	Month:										
See Footnotes		(4)	(6) (5)		(1)	(2) (6)		(6)	(3)		
Effluent Limits (refer to sec. 4 of the permit)		--	10 mg/l	20 mg/L	750 µg/L	0.1 µg/l	0.1 µg/l	70 µg/l	--	50 µg/l	40 mg/L
Sample Frequency: Pre-treatment		Daily	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly
Sample Frequency: Post-treatment		Daily	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly
Sample Type		Estimate	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab

Impaired or TMDL surface waters		Does this facility discharge a pollutant of concern to an impaired surface water or to a surface water with a TMDL allocation? ☐ No ● Yes

Outfall # and Description		VOCs (µg/L)	Vinyl Chloride (µg/L)	trans-1,2-Dichloroethene (µg/L)	1,1-Dichloroethene (µg/L)	Tetrachloroethene (µg/L)	Chloride (mg/L)	cis-1,2-Dichloroethene (µg/L)	Trichloroethene (µg/L)	
Effluent	Month: May 4, 2016	60.9	< 0.20	< 0.35	< 0.39	38	100	17	5.9	
	Month:									
	Month:									
	Month:									
See Footnotes		(4)		(4)				(4)		
Effluent Limits (refer to sec. 4 of the permit)		--	10 ug/L	--	50 µg/L	50 µg/L	395 mg/L	--	50 µg/L	
Sample Frequency: Pre-treatment		Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	
Sample Frequency: Post-treatment		Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	
Sample Type		Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	

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.

6-6-2016

Signature of Person Completing Form — Date

6-6-2016

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: 500-111148-1
Client Project/Site: MadisonKipp - GETS/SVE

For:
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin 53704

Attn: Alina Satkoski

Sandie Fredrick

Authorized for release by:
5/9/2016 1:38:05 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

Table of Contents

Job ID: 500-111148-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-111148-1

Comments
No additional comments.

Receipt
The samples were received on 5/5/2016 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.0º C.

GC/MS VOA
Method(s) 624: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (500-111148-1). 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: 500-111148-1

Client Sample ID: Influent — Lab Sample ID: 500-111148-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene - DL	1700		50	19	ug/L	50		624	Total/NA
HEM (Oil & Grease)	1.0	J B	5.2	0.56	mg/L	1		1664B	Total/NA
Chloride	100		4.0	1.5	mg/L	20		300.0	Total/NA

Client Sample ID: Effluent — Lab Sample ID: 500-111148-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	17		1.0	0.41	ug/L	1		624	Total/NA
Tetrachloroethene	38		1.0	0.37	ug/L	1		624	Total/NA
Trichloroethene	5.9		0.50	0.16	ug/L	1		624	Total/NA
HEM (Oil & Grease)	1.1	J B	5.5	0.59	mg/L	1		1664B	Total/NA
Chloride	100		4.0	1.5	mg/L	20		300.0	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-111148-3

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

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

TestAmerica Job ID: 500-111148-1

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: 500-111148-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-111148-1	Influent	Water	05/04/16 07:30	05/05/16 10:20
500-111148-2	Effluent	Water	05/04/16 07:35	05/05/16 10:20
500-111148-3	Trip Blank	Water	05/04/16 00:00	05/05/16 10:20

Client Sample ID: Influent

Date Collected: 05/04/16 07:30
Date Received: 05/05/16 10:20

Lab Sample ID: 500-111148-1
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			05/07/16 12:59	5
Bromoform	<2.2		5.0	2.2	ug/L			05/07/16 12:59	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			05/07/16 12:59	5
Chloroform	<1.9		5.0	1.9	ug/L			05/07/16 12:59	5
cis-1,2-Dichloroethene	<2.0		5.0	2.0	ug/L			05/07/16 12:59	5
Dichlorobromomethane	<1.9		5.0	1.9	ug/L			05/07/16 12:59	5
1,2-Dichloroethane	<2.0		5.0	2.0	ug/L			05/07/16 12:59	5
1,1-Dichloroethene	<2.0		5.0	2.0	ug/L			05/07/16 12:59	5
Ethylbenzene	<0.92		2.5	0.92	ug/L			05/07/16 12:59	5
Methyl bromide	<3.2		10	3.2	ug/L			05/07/16 12:59	5
Methyl chloride	<1.6		5.0	1.6	ug/L			05/07/16 12:59	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			05/07/16 12:59	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			05/07/16 12:59	5
Toluene	<0.76		2.5	0.76	ug/L			05/07/16 12:59	5
trans-1,2-Dichloroethene	<1.7		5.0	1.7	ug/L			05/07/16 12:59	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			05/07/16 12:59	5
1,1,2-Trichloroethane	<1.8		5.0	1.8	ug/L			05/07/16 12:59	5
Trichloroethene	<0.82		2.5	0.82	ug/L			05/07/16 12:59	5
Vinyl chloride	<1.0		2.5	1.0	ug/L			05/07/16 12:59	5
Xylenes, Total	<2.0		5.0	2.0	ug/L			05/07/16 12:59	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*71 - 120*		*05/07/16 12:59*	*5*
1,2-Dichloroethane-d4 (Surr)	*88*		*71 - 127*		*05/07/16 12:59*	*5*
Toluene-d8 (Surr)	*101*		*75 - 120*		*05/07/16 12:59*	*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			05/07/16 13:26	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*71 - 120*		*05/07/16 13:26*	*50*
1,2-Dichloroethane-d4 (Surr)	*85*		*71 - 127*		*05/07/16 13:26*	*50*
Toluene-d8 (Surr)	*101*		*75 - 120*		*05/07/16 13:26*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	**1.0**	**J B**	5.2	0.56	mg/L		05/06/16 08:56	05/06/16 11:31	1
Chloride	**100**		4.0	1.5	mg/L			05/06/16 02:43	20
Total Suspended Solids	<1.6		5.0	1.6	mg/L			05/05/16 17:20	1

Client Sample ID: Effluent
Date Collected: 05/04/16 07:35
Date Received: 05/05/16 10:20

Lab Sample ID: 500-111148-2
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			05/07/16 13:53	1
Bromoform	<0.45		1.0	0.45	ug/L			05/07/16 13:53	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/07/16 13:53	1
Chloroform	<0.37		1.0	0.37	ug/L			05/07/16 13:53	1
cis-1,2-Dichloroethene	**17**		1.0	0.41	ug/L			05/07/16 13:53	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			05/07/16 13:53	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/07/16 13:53	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/07/16 13:53	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/07/16 13:53	1
Methyl bromide	<0.65		2.0	0.65	ug/L			05/07/16 13:53	1
Methyl chloride	<0.32		1.0	0.32	ug/L			05/07/16 13:53	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/07/16 13:53	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/07/16 13:53	1
Tetrachloroethene	**38**		1.0	0.37	ug/L			05/07/16 13:53	1
Toluene	<0.15		0.50	0.15	ug/L			05/07/16 13:53	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/07/16 13:53	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/07/16 13:53	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/07/16 13:53	1
Trichloroethene	**5.9**		0.50	0.16	ug/L			05/07/16 13:53	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			05/07/16 13:53	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			05/07/16 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*71 - 120*		*05/07/16 13:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*71 - 127*		*05/07/16 13:53*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*05/07/16 13:53*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	**1.1**	**J B**	5.5	0.59	mg/L		05/06/16 08:30	05/06/16 11:08	1
Chloride	**100**		4.0	1.5	mg/L			05/06/16 03:20	20
Total Suspended Solids	<1.6		5.0	1.6	mg/L			05/05/16 17:22	1

Client Sample Results

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

TestAmerica Job ID: 500-111148-1

Client Sample ID: Trip Blank
Date Collected: 05/04/16 00:00
Date Received: 05/05/16 10:20

Lab Sample ID: 500-111148-3
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			05/07/16 12:33	1
Bromoform	<0.45		1.0	0.45	ug/L			05/07/16 12:33	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/07/16 12:33	1
Chloroform	<0.37		1.0	0.37	ug/L			05/07/16 12:33	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/07/16 12:33	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			05/07/16 12:33	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/07/16 12:33	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/07/16 12:33	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/07/16 12:33	1
Methyl bromide	<0.65		2.0	0.65	ug/L			05/07/16 12:33	1
Methyl chloride	<0.32		1.0	0.32	ug/L			05/07/16 12:33	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/07/16 12:33	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/07/16 12:33	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/07/16 12:33	1
Toluene	<0.15		0.50	0.15	ug/L			05/07/16 12:33	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/07/16 12:33	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/07/16 12:33	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/07/16 12:33	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/07/16 12:33	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			05/07/16 12:33	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			05/07/16 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*71 - 120*		*05/07/16 12:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*71 - 127*		*05/07/16 12:33*	*1*
Toluene-d8 (Surr)	*102*		*75 - 120*		*05/07/16 12:33*	*1*

Definitions/Glossary

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

TestAmerica Job ID: 500-111148-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

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: 500-111148-1

GC/MS VOA

Analysis Batch: 334410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111148-1	Influent	Total/NA	Water	624	
500-111148-1 - DL	Influent	Total/NA	Water	624	
500-111148-2	Effluent	Total/NA	Water	624	
500-111148-3	Trip Blank	Total/NA	Water	624	
LCS 500-334410/5	Lab Control Sample	Total/NA	Water	624	
MB 500-334410/7	Method Blank	Total/NA	Water	624	

General Chemistry

Analysis Batch: 334203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111148-1	Influent	Total/NA	Water	SM 2540D	
500-111148-2	Effluent	Total/NA	Water	SM 2540D	
LCS 500-334203/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 500-334203/1	Method Blank	Total/NA	Water	SM 2540D	

Prep Batch: 334216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111148-1	Influent	Total/NA	Water	1664B	
500-111148-2	Effluent	Total/NA	Water	1664B	
LCS 500-334216/2-A	Lab Control Sample	Total/NA	Water	1664B	
MB 500-334216/1-A	Method Blank	Total/NA	Water	1664B	

Analysis Batch: 334259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111148-1	Influent	Total/NA	Water	1664B	334216
500-111148-2	Effluent	Total/NA	Water	1664B	334216
LCS 500-334216/2-A	Lab Control Sample	Total/NA	Water	1664B	334216
MB 500-334216/1-A	Method Blank	Total/NA	Water	1664B	334216

Analysis Batch: 334264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111148-1	Influent	Total/NA	Water	300.0	
500-111148-1 MS	Influent	Total/NA	Water	300.0	
500-111148-1 MSD	Influent	Total/NA	Water	300.0	
500-111148-2	Effluent	Total/NA	Water	300.0	
LCS 500-334264/4	Lab Control Sample	Total/NA	Water	300.0	
MB 500-334264/3	Method Blank	Total/NA	Water	300.0	

Surrogate Summary

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

TestAmerica Job ID: 500-111148-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	12DCE	TOL
Lab Sample ID	Client Sample ID	(71-120)	(71-127)	(75-120)
500-111148-1	Influent	95	88	101
500-111148-1 - DL	Influent	96	85	101
500-111148-2	Effluent	94	85	101
500-111148-3	Trip Blank	97	88	102
LCS 500-334410/5	Lab Control Sample	92	87	97
MB 500-334410/7	Method Blank	97	90	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Lab Sample ID: MB 500-334410/7
Matrix: Water
Analysis Batch: 334410

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			05/07/16 08:02	1
Bromoform	<0.45		1.0	0.45	ug/L			05/07/16 08:02	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/07/16 08:02	1
Chloroform	<0.37		1.0	0.37	ug/L			05/07/16 08:02	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/07/16 08:02	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			05/07/16 08:02	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/07/16 08:02	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/07/16 08:02	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/07/16 08:02	1
Methyl bromide	<0.65		2.0	0.65	ug/L			05/07/16 08:02	1
Methyl chloride	<0.32		1.0	0.32	ug/L			05/07/16 08:02	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/07/16 08:02	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/07/16 08:02	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/07/16 08:02	1
Toluene	<0.15		0.50	0.15	ug/L			05/07/16 08:02	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/07/16 08:02	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/07/16 08:02	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/07/16 08:02	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/07/16 08:02	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			05/07/16 08:02	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			05/07/16 08:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*71 - 120*		*05/07/16 08:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*71 - 127*		*05/07/16 08:02*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*05/07/16 08:02*	*1*

Lab Sample ID: LCS 500-334410/5
Matrix: Water
Analysis Batch: 334410

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	48.7		ug/L		97	37 - 151
Bromoform	50.0	46.5		ug/L		93	45 - 169
Carbon tetrachloride	50.0	53.6		ug/L		107	70 - 140
Chloroform	50.0	48.6		ug/L		97	51 - 138
cis-1,2-Dichloroethene	50.0	51.4		ug/L		103	70 - 130
Dichlorobromomethane	50.0	46.0		ug/L		92	35 - 155
1,2-Dichloroethane	50.0	43.6		ug/L		87	49 - 155
1,1-Dichloroethene	50.0	54.2		ug/L		108	10 - 234
Ethylbenzene	50.0	49.4		ug/L		99	37 - 162
Methyl bromide	50.0	62.7		ug/L		125	10 - 242
Methyl chloride	50.0	52.0		ug/L		104	10 - 273
m&p-Xylene	50.0	47.9		ug/L		96	
o-Xylene	50.0	46.9		ug/L		94	
1,1,2,2-Tetrachloroethane	50.0	46.6		ug/L		93	46 - 157
Tetrachloroethene	50.0	51.8		ug/L		104	64 - 148
Toluene	50.0	47.7		ug/L		95	47 - 150

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

Lab Sample ID: LCS 500-334410/5
Matrix: Water
Analysis Batch: 334410

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	53.4		ug/L		107	54 - 156
1,1,1-Trichloroethane	50.0	53.8		ug/L		108	52 - 162
1,1,2-Trichloroethane	50.0	45.2		ug/L		90	52 - 150
Trichloroethene	50.0	49.0		ug/L		98	71 - 157
Vinyl chloride	50.0	60.1		ug/L		120	10 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*71 - 120*
1,2-Dichloroethane-d4 (Surr)	*87*		*71 - 127*
Toluene-d8 (Surr)	*97*		*75 - 120*

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 500-334216/1-A
Matrix: Water
Analysis Batch: 334259

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 334216

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	1.40	J	5.0	0.54	mg/L		05/06/16 08:20	05/06/16 11:00	1

Lab Sample ID: LCS 500-334216/2-A
Matrix: Water
Analysis Batch: 334259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 334216

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	40.0	40.5		mg/L		101	78 - 114

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-334264/3
Matrix: Water
Analysis Batch: 334264

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			05/05/16 16:41	1

Lab Sample ID: LCS 500-334264/4
Matrix: Water
Analysis Batch: 334264

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	2.97		mg/L		99	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 500-111148-1 MS
Matrix: Water
Analysis Batch: 334264

Client Sample ID: Influent
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	100		20.0	121	4	mg/L		81	80 - 120		

Lab Sample ID: 500-111148-1 MSD
Matrix: Water
Analysis Batch: 334264

Client Sample ID: Influent
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100		20.0	122	4	mg/L		87	80 - 120	1	20

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

Lab Sample ID: MB 500-334203/1
Matrix: Water
Analysis Batch: 334203

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.6		5.0	1.6	mg/L			05/05/16 17:15	1

Lab Sample ID: LCS 500-334203/2
Matrix: Water
Analysis Batch: 334203

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	197		mg/L		98	80 - 120		

Lab Chronicle

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

TestAmerica Job ID: 500-111148-1

Client Sample ID: Influent
Lab Sample ID: 500-111148-1
Date Collected: 05/04/16 07:30
Matrix: Water
Date Received: 05/05/16 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		5	334410	05/07/16 12:59	PMF	TAL CHI
Total/NA	Analysis	624	DL	50	334410	05/07/16 13:26	PMF	TAL CHI
Total/NA	Prep	1664B			334216	05/06/16 08:56	ADK	TAL CHI
Total/NA	Analysis	1664B		1	334259	05/06/16 11:31	ADK	TAL CHI
Total/NA	Analysis	300.0		20	334264	05/06/16 02:43	CCK	TAL CHI
Total/NA	Analysis	SM 2540D		1	334203		SMO	TAL CHI
					(Start)	05/05/16 17:20		
					(End)	05/05/16 17:22		

Client Sample ID: Effluent
Lab Sample ID: 500-111148-2
Date Collected: 05/04/16 07:35
Matrix: Water
Date Received: 05/05/16 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	334410	05/07/16 13:53	PMF	TAL CHI
Total/NA	Prep	1664B			334216	05/06/16 08:30	ADK	TAL CHI
Total/NA	Analysis	1664B		1	334259	05/06/16 11:08	ADK	TAL CHI
Total/NA	Analysis	300.0		20	334264	05/06/16 03:20	CCK	TAL CHI
Total/NA	Analysis	SM 2540D		1	334203		SMO	TAL CHI
					(Start)	05/05/16 17:22		
					(End)	05/05/16 17:23		

Client Sample ID: Trip Blank
Lab Sample ID: 500-111148-3
Date Collected: 05/04/16 00:00
Matrix: Water
Date Received: 05/05/16 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	334410	05/07/16 12:33	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: 500-111148-1

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

(optional)
Report To
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-111148
Chain of Custody Number:
Page 1 of 1
Temperature °C of Cooler: 5.0

Client: MKC
Client Project #:
Project Name: GETS / SVE
Project Location/State: Madison, WI
Lab Project #:
Sampler: Alina Satkoski
Lab PM:

Preservative
Parameter

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	PAH	BOD/ DO/ Chloride	Oil + Grease					
1		Influent	5/4/16	730	9	W	X	X	X	X					
2		Effluent	5/4/16	735	9	W	X	X	X	X					
3		Trip Blank	5/4/16	-	1	W	X								

Preservative Key
1. HCL, Cool to 4°
2. HNO3, Cool to 4°
3. H2SO4, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH+ZnAc, Cool to 4°

500-111148 COC

Comments
For VOC + PAH see attached analyte list

Turnaround Time Required (Business Days)
___ 1 Day X 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
[ ] Return to Client [X] 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
Alina Satkoski	MKE	5/4/16	1600	[signature]	TAL	05/05/16	10:20
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier:
Shipped FX Priority
Hand Delivered:

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

Client Comments
Report to Alina Satkoski + Andy Stehn

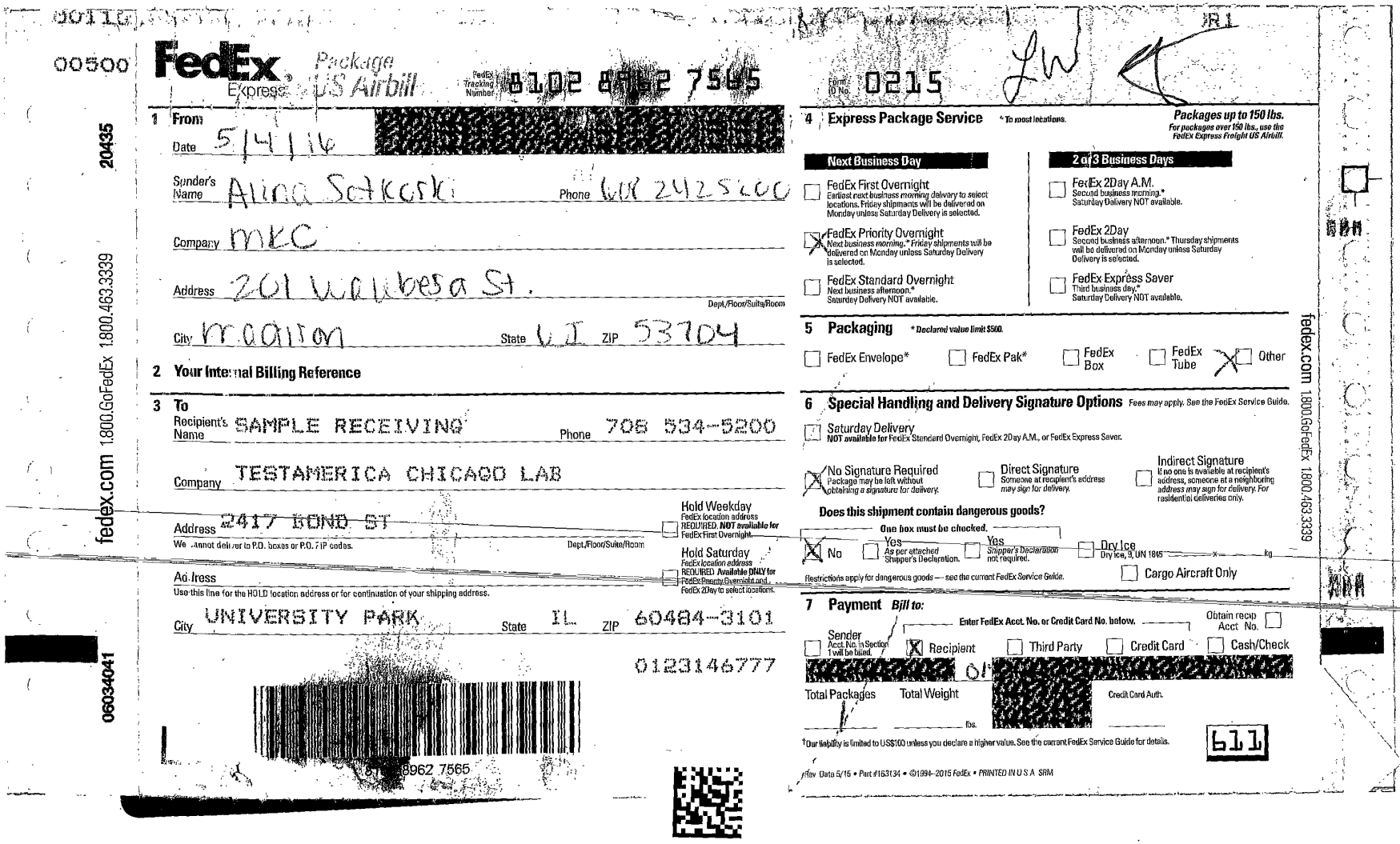
Lab Comments:

TAL-4124-500 (1209)

5/9/2016

500-111148

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	



FedEx Express Package US Airbill

FedEx Tracking Number 8102 8962 7565

Form ID No. 0215

1 From

Date 5/4/16

Sender's Name Alina Sotkoski Phone 608 2425200

Company MKC

Address 201 Wausau St.

Dept./Floor/Suite/Room

City Madison State WI ZIP 53704

2 Your Internal Billing Reference

3 To

Recipient's Name SAMPLE RECEIVING Phone 708 534-5200

Company TESTAMERICA CHICAGO LAB

Address 2417 BOND ST

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City UNIVERSITY PARK State IL ZIP 60484-3101

0123146777

8102 8962 7565

4 Express Package Service * To most locations.

Packages up to 150 lbs.
For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

- FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube [X] Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

Saturday Delivery NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

- [X] No Signature Required — Package may be left without obtaining a signature for delivery.
- Direct Signature — Someone at recipient's address may sign for delivery.
- Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods?

One box must be checked.

- [X] No
- Yes — As per attached Shipper's Declaration.
- Yes — Shipper's Declaration not required.
- Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Restrictions apply for dangerous goods — see the current FedEx Service Guide.

Cargo Aircraft Only

Hold Weekday — FedEx location address REQUIRED. NOT available for FedEx First Overnight.

Hold Saturday — FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below.

Obtain recip Acct. No. [ ]

- Sender Acct. No. in Section 1 will be billed.
- [X] Recipient
- Third Party
- Credit Card
- Cash/Check

Total Packages ____ Total Weight ____ lbs. Credit Card Auth. ____

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

611

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20435

06034041

500-111148 Waybill

Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-111148-1

Login Number: 111148
List Number: 1
Creator: Sanchez, Ariel M

List Source: TestAmerica Chicago

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	5.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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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: 500-111148-2
Client Project/Site: MadisonKipp - GETS/SVE

For:
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin 53704

Attn: Alina Satkoski

Authorized for release by:
5/12/2016 1:14:33 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

Table of Contents

Job ID: 500-111148-2

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-111148-2

Comments
No additional comments.

Receipt
The samples were received on 5/5/2016 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.0º C.

GC/MS Semi VOA
Method(s) 625 SIM: The continuing calibration verification (CCV) associated with batch 490-339186 recovered above the upper control limit for Dibenz(a,h)anthracene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: Influent (500-111148-1) and Effluent (500-111148-2).

Method(s) 625 SIM: Internal standard responses were outside of acceptance limits for the following samples: Influent (500-111148-1) and Effluent (500-111148-2). The sample(s) shows evidence of matrix interference.

Method(s) 625 SIM: Internal standard for the laboratory control sample (LCS) and laboratory control sample (LCSD) associated with preparation batch 490-338389 and analytical batch 490-339186 was outside the upper control limits. All targets were in range for expected LCS and LCSD recovery limits; therefore, the samples have been reported.

Method(s) 625 SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 490-338389 and analytical batch 490-339186.

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: 500-111148-2

Client Sample ID: Influent — Lab Sample ID: 500-111148-1

No Detections.

Client Sample ID: Effluent — Lab Sample ID: 500-111148-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.077	J	0.093	0.046	ug/L	1		625 SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

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

TestAmerica Job ID: 500-111148-2

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: 500-111148-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-111148-1	Influent	Water	05/04/16 07:30	05/05/16 10:20
500-111148-2	Effluent	Water	05/04/16 07:35	05/05/16 10:20

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

TestAmerica Job ID: 500-111148-2

Client Sample ID: Influent
Date Collected: 05/04/16 07:30
Date Received: 05/05/16 10:20

Lab Sample ID: 500-111148-1
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		05/09/16 14:36	05/11/16 22:35	1
Benzo[a]pyrene	<0.025		0.050	0.025	ug/L		05/09/16 14:36	05/11/16 22:35	1
Benzo[b]fluoranthene	<0.025		0.050	0.025	ug/L		05/09/16 14:36	05/11/16 22:35	1
Benzo[g,h,i]perylene	<0.050		0.10	0.050	ug/L		05/09/16 14:36	05/11/16 22:35	1
Benzo[k]fluoranthene	<0.050		0.10	0.050	ug/L		05/09/16 14:36	05/11/16 22:35	1
Chrysene	<0.050	*	0.10	0.050	ug/L		05/09/16 14:36	05/11/16 22:35	1
Dibenz(a,h)anthracene	<0.025		0.050	0.025	ug/L		05/09/16 14:36	05/11/16 22:35	1
Fluoranthene	<0.050		0.10	0.050	ug/L		05/09/16 14:36	05/11/16 22:35	1
Indeno[1,2,3-cd]pyrene	<0.025		0.050	0.025	ug/L		05/09/16 14:36	05/11/16 22:35	1
Naphthalene	<0.050		0.10	0.050	ug/L		05/09/16 14:36	05/11/16 22:35	1
Phenanthrene	<0.050		0.10	0.050	ug/L		05/09/16 14:36	05/11/16 22:35	1
Pyrene	<0.050	*	0.10	0.050	ug/L		05/09/16 14:36	05/11/16 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*50*		*27 - 120*	*05/09/16 14:36*	*05/11/16 22:35*	*1*
Terphenyl-d14	*14*	*	*13 - 120*	*05/09/16 14:36*	*05/11/16 22:35*	*1*
2-Fluorobiphenyl (Surr)	*62*		*10 - 120*	*05/09/16 14:36*	*05/11/16 22:35*	*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			05/05/16 16:00	1

Client Sample ID: Effluent
Date Collected: 05/04/16 07:35
Date Received: 05/05/16 10:20

Lab Sample ID: 500-111148-2
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	<0.023	*	0.046	0.023	ug/L		05/09/16 14:36	05/11/16 23:02	1
Benzo[a]pyrene	<0.023		0.046	0.023	ug/L		05/09/16 14:36	05/11/16 23:02	1
Benzo[b]fluoranthene	<0.023		0.046	0.023	ug/L		05/09/16 14:36	05/11/16 23:02	1
Benzo[g,h,i]perylene	<0.046		0.093	0.046	ug/L		05/09/16 14:36	05/11/16 23:02	1
Benzo[k]fluoranthene	<0.046		0.093	0.046	ug/L		05/09/16 14:36	05/11/16 23:02	1
Chrysene	<0.046	*	0.093	0.046	ug/L		05/09/16 14:36	05/11/16 23:02	1
Dibenz(a,h)anthracene	<0.023		0.046	0.023	ug/L		05/09/16 14:36	05/11/16 23:02	1
Fluoranthene	<0.046		0.093	0.046	ug/L		05/09/16 14:36	05/11/16 23:02	1
Indeno[1,2,3-cd]pyrene	<0.023		0.046	0.023	ug/L		05/09/16 14:36	05/11/16 23:02	1
Naphthalene	**0.077**	**J**	0.093	0.046	ug/L		05/09/16 14:36	05/11/16 23:02	1
Phenanthrene	<0.046		0.093	0.046	ug/L		05/09/16 14:36	05/11/16 23:02	1
Pyrene	<0.046	*	0.093	0.046	ug/L		05/09/16 14:36	05/11/16 23:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*69*		*27 - 120*	*05/09/16 14:36*	*05/11/16 23:02*	*1*
Terphenyl-d14	*13*	*	*13 - 120*	*05/09/16 14:36*	*05/11/16 23:02*	*1*
2-Fluorobiphenyl (Surr)	*84*		*10 - 120*	*05/09/16 14:36*	*05/11/16 23:02*	*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			05/05/16 19:47	1

Definitions/Glossary

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

TestAmerica Job ID: 500-111148-2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
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: 500-111148-2

GC/MS Semi VOA

Prep Batch: 338389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111148-1	Influent	Total/NA	Water	625	
500-111148-2	Effluent	Total/NA	Water	625	
LCS 490-338389/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 490-338389/3-A	Lab Control Sample Dup	Total/NA	Water	625	
MB 490-338389/1-A	Method Blank	Total/NA	Water	625	

Analysis Batch: 339186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111148-1	Influent	Total/NA	Water	625 SIM	338389
500-111148-2	Effluent	Total/NA	Water	625 SIM	338389
LCS 490-338389/2-A	Lab Control Sample	Total/NA	Water	625 SIM	338389
LCSD 490-338389/3-A	Lab Control Sample Dup	Total/NA	Water	625 SIM	338389
MB 490-338389/1-A	Method Blank	Total/NA	Water	625 SIM	338389

General Chemistry

Analysis Batch: 334116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111148-1	Influent	Total/NA	Water	SM 5210B	
LCS 500-334116/2	Lab Control Sample	Total/NA	Water	SM 5210B	
USB 500-334116/1	Method Blank	Total/NA	Water	SM 5210B	

Analysis Batch: 334174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111148-2	Effluent	Total/NA	Water	SM 5210B	
LCS 500-334174/2	Lab Control Sample	Total/NA	Water	SM 5210B	
USB 500-334174/1	Method Blank	Total/NA	Water	SM 5210B	

Surrogate Summary

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

TestAmerica Job ID: 500-111148-2

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	TPH	FBP
Lab Sample ID	Client Sample ID	(27-120)	(13-120)	(10-120)
500-111148-1	Influent	50	14 *	62
500-111148-2	Effluent	69	13 *	84
LCS 490-338389/2-A	Lab Control Sample	79	85	81
LCSD 490-338389/3-A	Lab Control Sample Dup	81	92	86
MB 490-338389/1-A	Method Blank	75	89	89

Surrogate Legend

NBZ = Nitrobenzene-d5
TPH = Terphenyl-d14
FBP = 2-Fluorobiphenyl (Surr)

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

Lab Sample ID: MB 490-338389/1-A
Matrix: Water
Analysis Batch: 339186

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 338389

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.025		0.050	0.025	ug/L		05/09/16 14:36	05/11/16 21:12	1
Benzo[a]pyrene	<0.025		0.050	0.025	ug/L		05/09/16 14:36	05/11/16 21:12	1
Benzo[b]fluoranthene	<0.025		0.050	0.025	ug/L		05/09/16 14:36	05/11/16 21:12	1
Benzo[g,h,i]perylene	<0.050		0.10	0.050	ug/L		05/09/16 14:36	05/11/16 21:12	1
Benzo[k]fluoranthene	<0.050		0.10	0.050	ug/L		05/09/16 14:36	05/11/16 21:12	1
Chrysene	<0.050		0.10	0.050	ug/L		05/09/16 14:36	05/11/16 21:12	1
Dibenz(a,h)anthracene	<0.025		0.050	0.025	ug/L		05/09/16 14:36	05/11/16 21:12	1
Fluoranthene	<0.050		0.10	0.050	ug/L		05/09/16 14:36	05/11/16 21:12	1
Indeno[1,2,3-cd]pyrene	<0.025		0.050	0.025	ug/L		05/09/16 14:36	05/11/16 21:12	1
Naphthalene	<0.050		0.10	0.050	ug/L		05/09/16 14:36	05/11/16 21:12	1
Phenanthrene	<0.050		0.10	0.050	ug/L		05/09/16 14:36	05/11/16 21:12	1
Pyrene	<0.050		0.10	0.050	ug/L		05/09/16 14:36	05/11/16 21:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*75*		*27 - 120*	*05/09/16 14:36*	*05/11/16 21:12*	*1*
Terphenyl-d14	*89*		*13 - 120*	*05/09/16 14:36*	*05/11/16 21:12*	*1*
2-Fluorobiphenyl (Surr)	*89*		*10 - 120*	*05/09/16 14:36*	*05/11/16 21:12*	*1*

Lab Sample ID: LCS 490-338389/2-A
Matrix: Water
Analysis Batch: 339186

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 338389

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]anthracene	40.0	30.7		ug/L		77	33 - 143
Benzo[a]pyrene	40.0	31.5		ug/L		79	17 - 163
Benzo[b]fluoranthene	40.0	31.0		ug/L		77	24 - 159
Benzo[g,h,i]perylene	40.0	35.5		ug/L		89	10 - 219
Benzo[k]fluoranthene	40.0	33.6		ug/L		84	11 - 162
Chrysene	40.0	30.8		ug/L		77	17 - 168
Dibenz(a,h)anthracene	40.0	38.1		ug/L		95	10 - 227
Fluoranthene	40.0	32.0		ug/L		80	26 - 137
Indeno[1,2,3-cd]pyrene	40.0	35.9		ug/L		90	10 - 171
Naphthalene	40.0	26.6		ug/L		66	21 - 133
Phenanthrene	40.0	27.6		ug/L		69	54 - 120
Pyrene	40.0	26.7		ug/L		67	52 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*79*		*27 - 120*
Terphenyl-d14	*85*		*13 - 120*
2-Fluorobiphenyl (Surr)	*81*		*10 - 120*

Lab Sample ID: LCSD 490-338389/3-A
Matrix: Water
Analysis Batch: 339186

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 338389

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]anthracene	40.0	32.8		ug/L		82	33 - 143	7	30

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

Lab Sample ID: LCSD 490-338389/3-A
Matrix: Water
Analysis Batch: 339186

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 338389

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]pyrene			40.0	32.6		ug/L		82	17 - 163	4	30
Benzo[b]fluoranthene			40.0	36.5		ug/L		91	24 - 159	16	30
Benzo[g,h,i]perylene			40.0	34.9		ug/L		87	10 - 219	2	30
Benzo[k]fluoranthene			40.0	31.4		ug/L		79	11 - 162	7	30
Chrysene			40.0	32.8		ug/L		82	17 - 168	6	30
Dibenz(a,h)anthracene			40.0	38.1		ug/L		95	10 - 227	0	30
Fluoranthene			40.0	34.6		ug/L		86	26 - 137	8	30
Indeno[1,2,3-cd]pyrene			40.0	35.9		ug/L		90	10 - 171	0	30
Naphthalene			40.0	27.2		ug/L		68	21 - 133	2	30
Phenanthrene			40.0	29.5		ug/L		74	54 - 120	7	30
Pyrene			40.0	29.3		ug/L		73	52 - 115	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*81*		*27 - 120*
Terphenyl-d14	*92*		*13 - 120*
2-Fluorobiphenyl (Surr)	*86*		*10 - 120*

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 500-334116/1
Matrix: Water
Analysis Batch: 334116

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			05/05/16 12:00	1

Lab Sample ID: LCS 500-334116/2
Matrix: Water
Analysis Batch: 334116

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	179		mg/L		91	85 - 115		

Lab Sample ID: USB 500-334174/1
Matrix: Water
Analysis Batch: 334174

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			05/05/16 19:40	1

Lab Sample ID: LCS 500-334174/2
Matrix: Water
Analysis Batch: 334174

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	224		mg/L		113	85 - 115		

Lab Chronicle

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

TestAmerica Job ID: 500-111148-2

Client Sample ID: Influent

Lab Sample ID: 500-111148-1

Date Collected: 05/04/16 07:30

Matrix: Water

Date Received: 05/05/16 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			338389	05/09/16 14:36	MRM	TAL NSH
Total/NA	Analysis	625 SIM		1	339186	05/11/16 22:35	RP	TAL NSH
Total/NA	Analysis	SM 5210B		1	334116		MAN	TAL CHI
					(Start)	05/05/16 16:00		
					(End)	05/05/16 16:12		

Client Sample ID: Effluent

Lab Sample ID: 500-111148-2

Date Collected: 05/04/16 07:35

Matrix: Water

Date Received: 05/05/16 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			338389	05/09/16 14:36	MRM	TAL NSH
Total/NA	Analysis	625 SIM		1	339186	05/11/16 23:02	RP	TAL NSH
Total/NA	Analysis	SM 5210B		1	334174		JBJ	TAL CHI
					(Start)	05/05/16 19:47		
					(End)	05/05/16 19:51		

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: 500-111148-2

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

(optional)
Report To
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-111148
Chain of Custody Number:
Page 1 of 1
Temperature °C of Cooler: 5.0

Client: MKE
Client Project #:
Project Name: GETS / SVE
Project Location/State: Madison, WI
Lab Project #:
Sampler: Alina Satkoski
Lab PM:

Preservative
Parameter

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	PAH	BOD/ DO/ Chloride	Oil + Grease					
1		Influent	5/4/16	730	9	W	X	X	X	X					
2		Effluent	5/4/16	735	9	W	X	X	X	X					
3		Trip Blank	5/4/16	-	1	W	X								

Preservative Key
1. HCL, Cool to 4°
2. HNO3, Cool to 4°
3. H2SO4, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH+ZnAc, Cool to 4°

500-111148 COC

Comments
For VOC + PAH see attached analyte list

Turnaround Time Required (Business Days)
___ 1 Day X 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
[ ] Return to Client [X] 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
Alina Satkoski	MKE	5/4/16	1600	[signature]	TAL-MT	05/05/16	10:20
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier:
Shipped FX Priority
Hand Delivered:

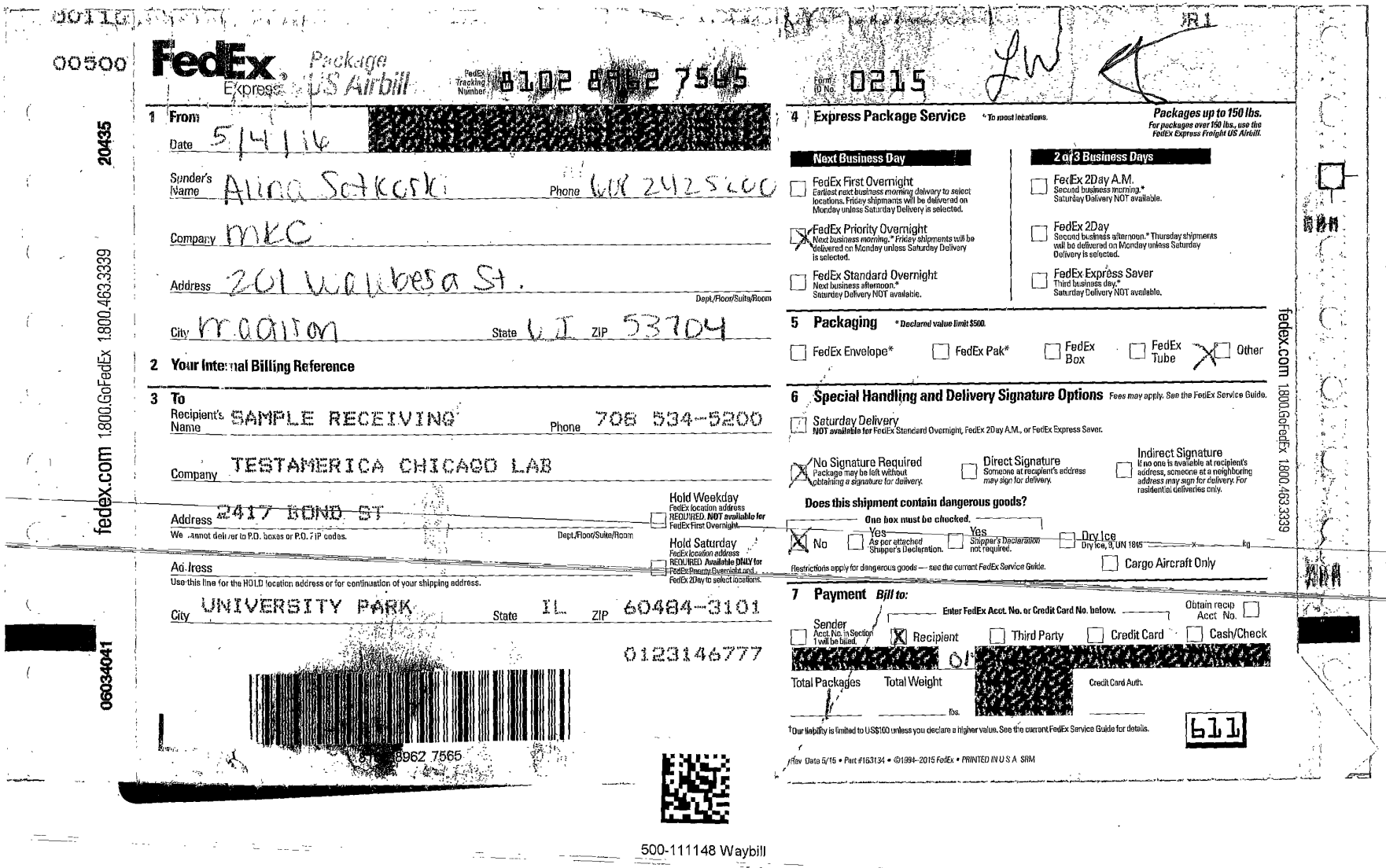
Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments
Report to Alina Satkoski + Andy Stehn

Lab Comments:

TAL-4124-500 (1209)

5/12/2016



FedEx Express Package US Airbill

FedEx Tracking Number 8102 8962 7565

Form ID No. 0215

1 From

Date 5/4/16

Sender's Name Alina Sotkoski Phone 608 2425200

Company MKC

Address 201 Wausau St.

Dept./Floor/Suite/Room

City Madison State WI ZIP 53704

2 Your Internal Billing Reference

3 To

Recipient's Name SAMPLE RECEIVING Phone 708 534-5200

Company TESTAMERICA CHICAGO LAB

Address 2417 BOND ST

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City UNIVERSITY PARK State IL ZIP 60484-3101

0123146777

Hold Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

Hold Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

4 Express Package Service * To most locations.

Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- [ ] FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube
- [X] Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

- [ ] Saturday Delivery NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

- [X] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery.
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods?

One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Restrictions apply for dangerous goods — see the current FedEx Service Guide.

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender Acct. No. in Section 1 will be billed.
- [X] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Obtain recip Acct. No. [ ]

Total Packages ____ Total Weight ____ lbs.

Credit Card Auth.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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20435

06034041

500-111148 Waybill

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

500-111148 Chain of Custody

Cooler Received/Opened On 5/6/2016 @ 1010

Time Samples Removed From Cooler 1630 Time Samples Placed In Storage 1755 (2 Hour Window)

1. Tracking # 8504 (last 4 digits, FedEx) Courier: _FedEx_

IR Gun ID 17960358 pH Strip Lot HC564992 Chlorine Strip Lot 1211515B

2. Temperature of rep. sample or temp blank when opened: 1.8 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 (intial) BH

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 (intial) MMB

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 (intial) MMB

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 (intial) MMB

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

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

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 12/15/15

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

Chain of Custody Record

Loc: 500 111148

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

5/12/2016

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie J	COC No: 500-72987.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandie.fredrick@testamericainc.com	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Analysis Requested	Job #: 500-111148-2

Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 5/10/2016
City: Nashville	TAT Requested (days):
State, Zip: TN, 37204	
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:
Email:	WO #:
Project Name: MadisonKipp - GETS/SVE	Project #: 50009145
Site:	SSOW#:

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	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:
			Preservation Code:						
Influent (500-111148-1)	5/4/16	07:30 Central		Water			X	2	
Effluent (500-111148-2)	5/4/16	07:35 Central		Water			X	2	

Possible Hazard Identification
Unconfirmed
Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	05/05/16 1600	TAL		5/6 1ce 1010	TAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.8

Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-111148-2

Login Number: 111148
List Number: 1
Creator: Sanchez, Ariel M

List Source: TestAmerica Chicago

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	5.0
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: 500-111148-2

Login Number: 111148
List Number: 2
Creator: Ramos, Martina M

List Source: TestAmerica Nashville
List Creation: 05/06/16 05:57 PM

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	
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	