March 14, 2018

Karl Knutson
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. Knutson,

The Groundwater Extraction and Treatment System (GETS) ran for the month of February with the exception of maintenance activities. This letter summarizes the activities completed in February 2018 as part of the GETS at the Madison-Kipp Corporation (MKC) site under the Wisconsin Pollution Discharge Elimination System (WPDES) Permit WI-0046566-6.

The GETS flow rate was periodically operated at 40 gallons per minute (gpm) between February 20 and 28, 2018 to avoid water extraction into the vapor phase activated carbon vessels while repairs to the soil vapor extraction (SVE) were completed. Otherwise, the GETS flow rate was 45 gpm.

Compliance samples were collected for volatile organic compounds and visual monitoring for sodium permanganate on February 6, 2018. The compliance sample results for all parameters were below the WPDES discharge limits. The Discharge Monitoring Report for February 2018 is included as Attachment A and laboratory reports are included as Attachment B.

If you have any questions or need additional information, please contact me at msheppard@madison-kipp.com or (608) 242-5207.

Mark Sheppard
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)

Attachment A
Discharge Monitoring Report Form

DISCHARGE MONITORING REPORT FORM **Year:____2018_____**
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)	Sodium Permanganate (mg/L)	Benzene (µg/L)	TSS (mg/L)
Effluent	Month: February 6, 2018	57,600 - 64,800	--	--	<0.40	--	--	--	Absent	<0.15	--
See Footnotes		(4) (8)			(1)	(2)			(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		Monthly	Quarterly	Quarterly	Monthly	Quarterly	Quarterly	Quarterly	Monthly	Monthly	Quarterly
Sample Frequency: Post-treatment		Monthly	Quarterly	Quarterly	Monthly	Quarterly	Quarterly	Quarterly	Monthly	Monthly	Quarterly
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: February 6, 2018	41.3	<0.20	<0.35	<0.39	21	--	15	5.3	
See Footnotes		(4)		(4)				(4)		
Effluent Limits (refer to sec. 4 of the permit)		--	10 µg/L	--	50 µg/L	50 µg/L	395 mg/L	--	50 µg/L	
Sample Frequency: Pre-treatment		Monthly	Monthly	Monthly	Monthly	Monthly	Quarterly	Monthly	Monthly	
Sample Frequency: Post-treatment		Monthly	Monthly	Monthly	Monthly	Monthly	Quarterly	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/TRC will conduct visual monitoring for this compound.
(4) No effluent limit is established, refer to section 4 of the permit.
(5) B = Compound was found in the blank and in the sample.
(6) J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the detection limit.
(7) M = Matrix Spike and/or Matrix Spike Duplicate Recovery is outside acceptance limits.
(8) GETS operated at 40 gpm between February 20-21, 23-26, and 27-28, 2018.

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 anual reports for (a)waste oil and solids removed, and (b) tank bottom water disposal.

RETURN REPORT BY: **March 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.

Andrew M. Steh — 3-12-2018
Signature of Person Completing Form — Date

[signature] — 3-13-2018
Signature of Principal Exec. or Authorized Agent — Date

Attachment B
Laboratory Reports

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: 500-140594-1
Client Project/Site: MadisonKipp - GETS 292257

For:
TRC Environmental Corporation.
708 Heartland Trail
Suite 3000
Madison, Wisconsin 53717

Attn: Andrew Stehn

Sandie Fredrick

Authorized for release by:
2/12/2018 1:31:05 PM

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

Table of Contents

Case Narrative

Client: TRC Environmental Corporation.
Project/Site: MadisonKipp - GETS 292257

TestAmerica Job ID: 500-140594-1

Job ID: 500-140594-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-140594-1

Comments
No additional comments.

Receipt
The samples were received on 2/7/2018 10:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.4° C.

Receipt Exceptions
A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

GC/MS VOA
Method(s) 624: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (500-140594-1). 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: TRC Environmental Corporation.
Project/Site: MadisonKipp - GETS 292257

TestAmerica Job ID: 500-140594-1

Client Sample ID: Influent — Lab Sample ID: 500-140594-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	130		2.0	0.82	ug/L	2		624	Total/NA
Trichloroethene	180		1.0	0.33	ug/L	2		624	Total/NA
Tetrachloroethene - DL	1700		20	7.4	ug/L	20		624	Total/NA

Client Sample ID: Effluent — Lab Sample ID: 500-140594-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	15		1.0	0.41	ug/L	1		624	Total/NA
Tetrachloroethene	21		1.0	0.37	ug/L	1		624	Total/NA
Trichloroethene	5.3		0.50	0.16	ug/L	1		624	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-140594-3

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: TRC Environmental Corporation.
Project/Site: MadisonKipp - GETS 292257

TestAmerica Job ID: 500-140594-1

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: TRC Environmental Corporation.
Project/Site: MadisonKipp - GETS 292257

TestAmerica Job ID: 500-140594-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-140594-1	Influent	Water	02/06/18 10:10	02/07/18 10:15
500-140594-2	Effluent	Water	02/06/18 10:00	02/07/18 10:15
500-140594-3	Trip Blank	Water	02/06/18 00:00	02/07/18 10:15

Client Sample ID: Influent

Lab Sample ID: 500-140594-1

Date Collected: 02/06/18 10:10

Matrix: Water

Date Received: 02/07/18 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.29		1.0	0.29	ug/L			02/09/18 19:02	2
Bromoform	<0.89		2.0	0.89	ug/L			02/09/18 19:02	2
Carbon tetrachloride	<0.77		2.0	0.77	ug/L			02/09/18 19:02	2
Chloroform	<0.74		4.0	0.74	ug/L			02/09/18 19:02	2
cis-1,2-Dichloroethene	**130**		2.0	0.82	ug/L			02/09/18 19:02	2
Dichlorobromomethane	<0.74		2.0	0.74	ug/L			02/09/18 19:02	2
1,2-Dichloroethane	<0.78		2.0	0.78	ug/L			02/09/18 19:02	2
1,1-Dichloroethene	<0.78		2.0	0.78	ug/L			02/09/18 19:02	2
Ethylbenzene	<0.37		1.0	0.37	ug/L			02/09/18 19:02	2
Methyl bromide	<1.3		4.0	1.3	ug/L			02/09/18 19:02	2
Methyl chloride	<0.64		2.0	0.64	ug/L			02/09/18 19:02	2
Methyl tert-butyl ether	<0.79		2.0	0.79	ug/L			02/09/18 19:02	2
1,1,2,2-Tetrachloroethane	<0.80		2.0	0.80	ug/L			02/09/18 19:02	2
Toluene	<0.30		1.0	0.30	ug/L			02/09/18 19:02	2
trans-1,2-Dichloroethene	<0.70		2.0	0.70	ug/L			02/09/18 19:02	2
1,1,1-Trichloroethane	<0.76		2.0	0.76	ug/L			02/09/18 19:02	2
1,1,2-Trichloroethane	<0.70		2.0	0.70	ug/L			02/09/18 19:02	2
Trichloroethene	**180**		1.0	0.33	ug/L			02/09/18 19:02	2
Vinyl chloride	<0.41		1.0	0.41	ug/L			02/09/18 19:02	2
Xylenes, Total	<0.80		2.0	0.80	ug/L			02/09/18 19:02	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*71 - 120*		*02/09/18 19:02*	*2*
1,2-Dichloroethane-d4 (Surr)	*109*		*71 - 127*		*02/09/18 19:02*	*2*
Toluene-d8 (Surr)	*102*		*75 - 120*		*02/09/18 19:02*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**1700**		20	7.4	ug/L			02/09/18 19:29	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*71 - 120*		*02/09/18 19:29*	*20*
1,2-Dichloroethane-d4 (Surr)	*108*		*71 - 127*		*02/09/18 19:29*	*20*
Toluene-d8 (Surr)	*100*		*75 - 120*		*02/09/18 19:29*	*20*

Client Sample ID: Effluent

Lab Sample ID: 500-140594-2

Date Collected: 02/06/18 10:00

Matrix: Water

Date Received: 02/07/18 10:15

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			02/09/18 19:56	1
Bromoform	<0.45		1.0	0.45	ug/L			02/09/18 19:56	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/09/18 19:56	1
Chloroform	<0.37		2.0	0.37	ug/L			02/09/18 19:56	1
cis-1,2-Dichloroethene	**15**		1.0	0.41	ug/L			02/09/18 19:56	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			02/09/18 19:56	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/09/18 19:56	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/09/18 19:56	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/09/18 19:56	1

Client Sample ID: Effluent

Lab Sample ID: 500-140594-2

Date Collected: 02/06/18 10:00

Matrix: Water

Date Received: 02/07/18 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl bromide	<0.65		2.0	0.65	ug/L			02/09/18 19:56	1
Methyl chloride	<0.32		1.0	0.32	ug/L			02/09/18 19:56	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/09/18 19:56	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/09/18 19:56	1
Tetrachloroethene	**21**		1.0	0.37	ug/L			02/09/18 19:56	1
Toluene	<0.15		0.50	0.15	ug/L			02/09/18 19:56	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/09/18 19:56	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/09/18 19:56	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/09/18 19:56	1
Trichloroethene	**5.3**		0.50	0.16	ug/L			02/09/18 19:56	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/09/18 19:56	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			02/09/18 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*71 - 120*		*02/09/18 19:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*71 - 127*		*02/09/18 19:56*	*1*
Toluene-d8 (Surr)	*102*		*75 - 120*		*02/09/18 19:56*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 500-140594-3

Date Collected: 02/06/18 00:00

Matrix: Water

Date Received: 02/07/18 10:15

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			02/09/18 20:22	1
Bromoform	<0.45		1.0	0.45	ug/L			02/09/18 20:22	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/09/18 20:22	1
Chloroform	<0.37		2.0	0.37	ug/L			02/09/18 20:22	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/09/18 20:22	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			02/09/18 20:22	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/09/18 20:22	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/09/18 20:22	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/09/18 20:22	1
Methyl bromide	<0.65		2.0	0.65	ug/L			02/09/18 20:22	1
Methyl chloride	<0.32		1.0	0.32	ug/L			02/09/18 20:22	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/09/18 20:22	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/09/18 20:22	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/09/18 20:22	1
Toluene	<0.15		0.50	0.15	ug/L			02/09/18 20:22	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/09/18 20:22	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/09/18 20:22	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/09/18 20:22	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/09/18 20:22	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/09/18 20:22	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			02/09/18 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*71 - 120*		*02/09/18 20:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*71 - 127*		*02/09/18 20:22*	*1*
Toluene-d8 (Surr)	*102*		*75 - 120*		*02/09/18 20:22*	*1*

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	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: TRC Environmental Corporation.
Project/Site: MadisonKipp - GETS 292257

TestAmerica Job ID: 500-140594-1

GC/MS VOA

Analysis Batch: 419640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140594-1	Influent	Total/NA	Water	624	
500-140594-1 - DL	Influent	Total/NA	Water	624	
500-140594-2	Effluent	Total/NA	Water	624	
500-140594-3	Trip Blank	Total/NA	Water	624	
MB 500-419640/30	Method Blank	Total/NA	Water	624	
500-140594-2 MS	Effluent	Total/NA	Water	624	
500-140594-2 MSD	Effluent	Total/NA	Water	624	

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: MadisonKipp - GETS 292257

TestAmerica Job ID: 500-140594-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DCA	TOL
Lab Sample ID	Client Sample ID	(71-120)	(71-127)	(75-120)
500-140594-1	Influent	100	109	102
500-140594-1 - DL	Influent	98	108	100
500-140594-2	Effluent	101	108	102
500-140594-2 MS	Effluent	96	109	102
500-140594-2 MSD	Effluent	97	108	101
500-140594-3	Trip Blank	99	107	102
MB 500-419640/30	Method Blank	100	106	103

Surrogate Legend

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

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

Lab Sample ID: MB 500-419640/30
Matrix: Water
Analysis Batch: 419640

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			02/09/18 18:35	1
Bromoform	<0.45		1.0	0.45	ug/L			02/09/18 18:35	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/09/18 18:35	1
Chloroform	<0.37		2.0	0.37	ug/L			02/09/18 18:35	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/09/18 18:35	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			02/09/18 18:35	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/09/18 18:35	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/09/18 18:35	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/09/18 18:35	1
Methyl bromide	<0.65		2.0	0.65	ug/L			02/09/18 18:35	1
Methyl chloride	<0.32		1.0	0.32	ug/L			02/09/18 18:35	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/09/18 18:35	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/09/18 18:35	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/09/18 18:35	1
Toluene	<0.15		0.50	0.15	ug/L			02/09/18 18:35	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/09/18 18:35	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/09/18 18:35	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/09/18 18:35	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/09/18 18:35	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			02/09/18 18:35	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			02/09/18 18:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*71 - 120*		*02/09/18 18:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*71 - 127*		*02/09/18 18:35*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*02/09/18 18:35*	*1*

Lab Sample ID: 500-140594-2 MS
Matrix: Water
Analysis Batch: 419640

Client Sample ID: Effluent
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.15		50.0	48.1		ug/L		96	37 - 151
Bromoform	<0.45		50.0	54.0		ug/L		108	45 - 169
Carbon tetrachloride	<0.38		50.0	49.7		ug/L		99	70 - 140
Chloroform	<0.37		50.0	49.2		ug/L		98	51 - 138
cis-1,2-Dichloroethene	15		50.0	62.8		ug/L		96	70 - 130
Dichlorobromomethane	<0.37		50.0	49.9		ug/L		100	35 - 155
1,2-Dichloroethane	<0.39		50.0	57.0		ug/L		114	49 - 155
1,1-Dichloroethene	<0.39		50.0	47.8		ug/L		96	10 - 234
Ethylbenzene	<0.18		50.0	47.9		ug/L		96	37 - 162
Methyl bromide	<0.65		50.0	54.8		ug/L		110	10 - 242
Methyl chloride	<0.32		50.0	54.6		ug/L		109	10 - 273
m&p-Xylene	<0.40		50.0	49.7		ug/L		99	
o-Xylene	<0.22		50.0	50.4		ug/L		101	
1,1,2,2-Tetrachloroethane	<0.40		50.0	49.6		ug/L		99	46 - 157
Tetrachloroethene	21		50.0	70.5		ug/L		99	64 - 148
Toluene	<0.15		50.0	49.4		ug/L		99	47 - 150

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

Lab Sample ID: 500-140594-2 MS
Matrix: Water
Analysis Batch: 419640

Client Sample ID: Effluent
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	<0.35		50.0	48.4		ug/L		97	54 - 156
1,1,1-Trichloroethane	<0.38		50.0	48.8		ug/L		98	52 - 162
1,1,2-Trichloroethane	<0.35		50.0	51.9		ug/L		104	52 - 150
Trichloroethene	5.3		50.0	54.8		ug/L		99	71 - 157
Vinyl chloride	<0.20		50.0	48.4		ug/L		97	10 - 251

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*71 - 120*
1,2-Dichloroethane-d4 (Surr)	*109*		*71 - 127*
Toluene-d8 (Surr)	*102*		*75 - 120*

Lab Sample ID: 500-140594-2 MSD
Matrix: Water
Analysis Batch: 419640

Client Sample ID: Effluent
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.15		50.0	48.9		ug/L		98	37 - 151	2	20
Bromoform	<0.45		50.0	53.7		ug/L		107	45 - 169	1	20
Carbon tetrachloride	<0.38		50.0	51.6		ug/L		103	70 - 140	4	20
Chloroform	<0.37		50.0	48.8		ug/L		98	51 - 138	1	20
cis-1,2-Dichloroethene	15		50.0	63.2		ug/L		97	70 - 130	1	20
Dichlorobromomethane	<0.37		50.0	50.8		ug/L		102	35 - 155	2	20
1,2-Dichloroethane	<0.39		50.0	57.1		ug/L		114	49 - 155	0	20
1,1-Dichloroethene	<0.39		50.0	50.6		ug/L		101	10 - 234	6	20
Ethylbenzene	<0.18		50.0	49.2		ug/L		98	37 - 162	3	20
Methyl bromide	<0.65		50.0	51.3		ug/L		103	10 - 242	7	20
Methyl chloride	<0.32		50.0	51.3		ug/L		103	10 - 273	6	20
m&p-Xylene	<0.40		50.0	49.7		ug/L		99		0	
o-Xylene	<0.22		50.0	50.0		ug/L		100		1	
1,1,2,2-Tetrachloroethane	<0.40		50.0	51.8		ug/L		104	46 - 157	4	20
Tetrachloroethene	21		50.0	71.8		ug/L		102	64 - 148	2	20
Toluene	<0.15		50.0	49.3		ug/L		99	47 - 150	0	20
trans-1,2-Dichloroethene	<0.35		50.0	48.9		ug/L		98	54 - 156	1	20
1,1,1-Trichloroethane	<0.38		50.0	50.3		ug/L		101	52 - 162	3	20
1,1,2-Trichloroethane	<0.35		50.0	50.7		ug/L		101	52 - 150	2	20
Trichloroethene	5.3		50.0	54.7		ug/L		99	71 - 157	0	20
Vinyl chloride	<0.20		50.0	46.5		ug/L		93	10 - 251	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*71 - 120*
1,2-Dichloroethane-d4 (Surr)	*108*		*71 - 127*
Toluene-d8 (Surr)	*101*		*75 - 120*

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: MadisonKipp - GETS 292257

TestAmerica Job ID: 500-140594-1

Client Sample ID: Influent

Lab Sample ID: 500-140594-1

Date Collected: 02/06/18 10:10

Matrix: Water

Date Received: 02/07/18 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		2	419640	02/09/18 19:02	JDD	TAL CHI
Total/NA	Analysis	624	DL	20	419640	02/09/18 19:29	JDD	TAL CHI

Client Sample ID: Effluent

Lab Sample ID: 500-140594-2

Date Collected: 02/06/18 10:00

Matrix: Water

Date Received: 02/07/18 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	419640	02/09/18 19:56	JDD	TAL CHI

Client Sample ID: Trip Blank

Lab Sample ID: 500-140594-3

Date Collected: 02/06/18 00:00

Matrix: Water

Date Received: 02/07/18 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	419640	02/09/18 20:22	JDD	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: TRC Environmental Corporation.
Project/Site: MadisonKipp - GETS 292257

TestAmerica Job ID: 500-140594-1

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

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: Andrew Stehn
Company: TRC
Address: 708 Heartland Trail Suite 3000
Address: Madison, WI 53717
Phone: 608-826-3605
Fax:
E-Mail: astehn@trcsolutions.com

(optional)
Bill To
Contact: Same as reporting
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference# 117375

Chain of Custody Record

Lab Job #: 500-140594
Chain of Custody Number:
Page 1 of 1
Temperature °C of Cooler: 5.4

Client: MKC/TRC
Client Project #: 292257
Project Name: MKC GETS
Project Location/State: WI
Lab Project #:
Sampler: Ben Wachholz
Lab PM:

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	Comments
1		Influent	2/6/18	1010	3	W	1	X	
2	X	Effluent	2/6/18	1000	6	W		X	

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days X 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
Ben Wachholz	TRC	2/6/18	16:10		TA	02/07/18	1015
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier:
Shipped: FedEx
Hand Delivered:

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

Client Comments:

Lab Comments:
500-140594 COC

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-140594-1

Login Number: 140594
List Number: 1
Creator: Kelsey, Shawn 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	5.4c
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.	False	Received Trip Blank(s) not listed on COC.
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	