

May 7, 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 April with the exception of maintenance activities. This letter summarizes the activities completed in April 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 operated between 35 and 40 gallons per minute (gpm) between April 20 and 23, 2018 to avoid water extraction into the vapor phase activated carbon vessels while repairs to the soil vapor extraction (SVE) were completed. On April 27, 2018 the GETS was shut down for maintenance which was completed through the end of April 2018. Otherwise the GETS flow rate was 45 gpm.

Compliance samples were collected for volatile organic compounds and visual monitoring for sodium permanganate on April 3, 2018. The compliance sample results for all parameters were below the WPDES discharge limits. The Discharge Monitoring Report for April 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 / Katherine Vater - 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

Contaminated Groundwater from Remedial Action Operations - Surface Water Discharge Permit No. WI-0046566-6 Rev. December 16, 2013

Facility Name and Location

Madison Kipp Corporation 201 Waubesa St Madison, WI 53704

Consultant Managing Project: TRC

FIN#:

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Outfall #	and Description	Flow (gal/day)	Oil & Grea (mg/L)	se BOD ₅ (mg/L)	Total BETY (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: April 3, 2018	50,400 - 64,800			<0.40				Absent	<0.15	
See Footn	notes	(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 waters	or TMDL surface	Does th	nis facility disch	arge a pollutant of	concern to an im	paired surface water or	to a surface water w	rith a TMDL allocation	on? O No &	Yes	
Outfall #	# and Description	VOCs (μg/L)	Vinyl Chloride (µg/L)	trans-1,2- Dichloroethene (µg/L)	1,1- Dichloroeth ene (µg/L)	Tetrachloroethene (µg/L)	Chloride (mg/L)	cis-1,2- Dichloroethene (µg/L)	Trichloroethene (μg/L)		
Effluent	Month: April 3, 2018	40.4	<0.20	<0.35	<0.39	20		15	5.4		
See Footn	otes	(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 Fr treatment	requency: Post-	Monthly	Monthly	Monthly	Monthly	Monthly	Quarterly	Monthly	Monthly		
Sample T	ype	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab		

Year:___2018_

FOOTNOTES:

- 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.
- 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.
- J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the detection limit.
- M = Matrix Spike and/or Matrix Spike Duplicate Recovery is outside acceptance
- (8) GETS operated between 35 and 40 gpm between April 20 and 23, 2018.

- <u>DIRECTIONS</u>:

 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
- Monitoring for a given parameter depends on if the discharge is to surface water or
- groundwater, and petroleum category.

 The value entered must be the highest value of all samples analyzed for that day.
- For each quarter, indicate the month monitoring occurred next to "Month" Include as separate attachments to this form the annual reports for (a) waste oil and solids removed, and (b) tank bottom water disposal.

RETURN REPORT BY: May 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 possibility of mise and impressionment, (40 cm 22.5). 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 jnaccurate, I have added an explanation indicating the reasons why the

5-7-2018 Date 5-7-2018 Signature of Principal Exec. or Authorized Agent Date

Attachment B Laboratory Reports



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: 500-143266-1

Client Project/Site: MadisonKipp - GETS 292257

For:

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

Attn: Andrew Stehn

Sanda Treduik

Authorized for release by: 4/11/2018 10:27:43 AM

Sandie Fredrick, Project Manager II (920)261-1660

sandie.fredrick@testamericainc.com

.....LINKS

Review your project results through

Total Access

Have a Question?



Visit us at: www.testamericainc.com

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

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

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

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Case Narrative

Client: TRC Environmental Corporation. Project/Site: MadisonKipp - GETS 292257 TestAmerica Job ID: 500-143266-1

Job ID: 500-143266-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-143266-1

Comments

No additional comments.

Receipt

The samples were received on 4/4/2018 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4° C.

GC/MS VOA

Method(s) 624: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (500-143266-1). 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.

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Detection Summary

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

Client Sample ID: Influent

TestAmerica Job ID: 500-143266-1

Lab Sample ID: 500-143266-1

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
cis-1,2-Dichloroethene	110	5.0	2.0 ug/L	5	624	Total/NA
Trichloroethene	160	2.5	0.82 ug/L	5	624	Total/NA
Tetrachloroethene - DL	1700	50	19 ug/L	50	624	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	15	 	1.0	0.41	ug/L	1	77 - Z.S.	624	Total/NA
Tetrachloroethene	20		1.0	0.37	ug/L	1		624	Total/NA
Trichloroethene	5.4		0.50	0.16	ug/L	1		624	Total/NA

Client Sample ID: Trip Blank	Lab Sample ID: 500-143266-3

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: 500-143266-1

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

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Sample Summary

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

TestAmerica Job ID: 500-143266-1

Lab Sample ID	Client Sample ID	Matrix	Collected Received
500-143266-1	Influent	Water	04/03/18 09:45 04/04/18 09:10
500-143266-2	Effluent	Water	04/03/18 09:55 04/04/18 09:10
500-143266-3	Trip Blank	Water	04/03/18 00:00 04/04/18 09:10

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

Lab Sample ID: 500-143266-1

Matrix: Water

Client Sample ID: Influent Date Collected: 04/03/18 09:45 Date Received: 04/04/18 09:10

Analyte	Result Qualifier	· RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.73	2.5	0.73	ug/L		2	04/11/18 01:02	5
Bromoform	<2.2	5.0	2.2	ug/L			04/11/18 01:02	5
Carbon tetrachloride	<1.9	5.0	1.9	ug/L			04/11/18 01:02	5
Chloroform	<1.9	10	1.9	ug/L			04/11/18 01:02	5
cis-1,2-Dichloroethene	110	5.0	2.0	ug/L			04/11/18 01:02	5
Dichlorobromomethane	<1.9	5.0	1.9	ug/L			04/11/18 01:02	5
1,2-Dichloroethane	<2.0	5.0	2.0	ug/L			04/11/18 01:02	5
1,1-Dichloroethene	<2.0	5.0	2.0	ug/L			04/11/18 01:02	5
Ethylbenzene	<0.92	2.5	0.92	ug/L			04/11/18 01:02	5
Methyl bromide	<3.2	10	3.2	ug/L			04/11/18 01:02	5
Methyl chloride	<1.6	5.0	1.6	ug/L			04/11/18 01:02	5
Methyl tert-butyl ether	<2.0	5.0	2.0	ug/L			04/11/18 01:02	5
1,1,2,2-Tetrachloroethane	<2.0	5.0	2.0	ug/L			04/11/18 01:02	5
Toluene	<0.76	2.5	0.76	ug/L			04/11/18 01:02	5
trans-1,2-Dichloroethene	<1.7	5.0	1.7	ug/L			04/11/18 01:02	5
1,1,1-Trichloroethane	<1.9	5.0	1.9	ug/L			04/11/18 01:02	5
1,1,2-Trichloroethane	<1.8	5.0	1.8	ug/L			04/11/18 01:02	5
Trichloroethene	160	2.5	0.82	ug/L			04/11/18 01:02	5
Vinyl chloride	<1.0	5.0	1.0	ug/L			04/11/18 01:02	5
Xylenes, Total	<2.0	5.0	2.0	ug/L			04/11/18 01:02	5
Surrogate	%Recovery Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102	71 - 120			1		04/11/18 01:02	5
1,2-Dichloroethane-d4 (Surr)	105	71 - 127					04/11/18 01:02	5
Toluene-d8 (Surr)	101	75 ₋ 120					04/11/18 01:02	5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1700	X	50	19	ug/L	21 - 21 9		04/11/18 01:29	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		71 - 120				8	04/11/18 01:29	50
1,2-Dichloroethane-d4 (Surr)	108		71 - 127					04/11/18 01:29	50
1,2-Dicilioroctifatic-u+ (Guil)									

Client Sample ID: Effluent

Date Collected: 04/03/18 09:55

Lab Sample ID: 500-143266-2

Matrix: Water

Date Received: 04/04/18 09:10

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15	0.50	0.15	ug/L			04/11/18 01:55	1
Bromoform	<0.45	1.0	0.45	ug/L			04/11/18 01:55	1
Carbon tetrachloride	<0.38	1.0	0.38	ug/L			04/11/18 01:55	1
Chloroform	<0.37	2.0	0.37	ug/L			04/11/18 01:55	1
cis-1,2-Dichloroethene	15	1.0	0.41	ug/L			04/11/18 01:55	1
Dichlorobromomethane	<0.37	1.0	0.37	ug/L			04/11/18 01:55	1
1,2-Dichloroethane	<0.39	1.0	0.39	ug/L			04/11/18 01:55	1
1,1-Dichloroethene	<0.39	1.0	0.39	ug/L			04/11/18 01:55	1
Ethylbenzene	<0.18	0.50	0.18	ua/L			04/11/18 01:55	1

TestAmerica Chicago

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4/11/2018

TestAmerica Job ID: 500-143266-1

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

Client Sample ID: Effluent

Date Collected: 04/03/18 09:55 Date Received: 04/04/18 09:10 Lab Sample ID: 500-143266-2

Matrix: Water

Method: 624 - Volatile	Organic Compounds (GC/MS)	(Continued)
Analyte	Result Qualifier	RI

102

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl bromide	<0.65		2.0	0.65	ug/L			04/11/18 01:55	1
Methyl chloride	<0.32		1.0	0.32	ug/L			04/11/18 01:55	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/11/18 01:55	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/11/18 01:55	1
Tetrachloroethene	20		1.0	0.37	ug/L			04/11/18 01:55	1
Toluene	<0.15		0.50	0.15	ug/L			04/11/18 01:55	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/11/18 01:55	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/11/18 01:55	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/11/18 01:55	1
Trichloroethene	5.4		0.50	0.16	ug/L			04/11/18 01:55	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/11/18 01:55	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			04/11/18 01:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102	-	71 - 120			2		04/11/18 01:55	1
1,2-Dichloroethane-d4 (Surr)	104		71 - 127					04/11/18 01:55	1

75 - 120

Client Sample ID: Trip Blank

Date Collected: 04/03/18 00:00 Date Received: 04/04/18 09:10

Toluene-d8 (Surr)

Lab Sample ID: 500-143266-3

04/11/18 01:55

Matrix: Water

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Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15	0.50	0.15	ug/L		3	04/11/18 02:22	1
Bromoform	<0.45	1.0	0.45	ug/L			04/11/18 02:22	1
Carbon tetrachloride	<0.38	1.0	0.38	ug/L			04/11/18 02:22	1
Chloroform	<0.37	2.0	0.37	ug/L			04/11/18 02:22	1
cis-1,2-Dichloroethene	<0.41	1.0	0.41	ug/L			04/11/18 02:22	1
Dichlorobromomethane	<0.37	1.0	0.37	ug/L			04/11/18 02:22	1
1,2-Dichloroethane	<0.39	1.0	0.39	ug/L			04/11/18 02:22	1
1,1-Dichloroethene	<0.39	1.0	0.39	ug/L			04/11/18 02:22	1
Ethylbenzene	<0.18	0.50	0.18	ug/L			04/11/18 02:22	1
Methyl bromide	<0.65	2.0	0.65	ug/L			04/11/18 02:22	1
Methyl chloride	<0.32	1.0	0.32	ug/L			04/11/18 02:22	1
Methyl tert-butyl ether	<0.39	1.0	0.39	ug/L			04/11/18 02:22	1
1,1,2,2-Tetrachloroethane	<0.40	1.0	0.40	ug/L			04/11/18 02:22	1
Tetrachloroethene	<0.37	1.0	0.37	ug/L			04/11/18 02:22	1
Toluene	<0.15	0.50	0.15	ug/L			04/11/18 02:22	1
trans-1,2-Dichloroethene	<0.35	1.0	0.35	ug/L			04/11/18 02:22	1
1,1,1-Trichloroethane	<0.38	1.0	0.38	ug/L			04/11/18 02:22	1
1,1,2-Trichloroethane	<0.35	1.0	0.35	ug/L			04/11/18 02:22	1
Trichloroethene	<0.16	0.50	0.16	ug/L			04/11/18 02:22	1
Vinyl chloride	<0.20	1.0	0.20	ug/L			04/11/18 02:22	1
Xylenes, Total	<0.40	1.0	0.40	ug/L			04/11/18 02:22	1
Surrogate	%Recovery Qualifier	Limits				Prepared	Analvzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		71 - 120		04/11/18 02:22	1
1,2-Dichloroethane-d4 (Surr)	105		71 - 127	C	04/11/18 02:22	1
Toluene-d8 (Surr)	102		75 - 120	C	04/11/18 02:22	1

TestAmerica Chicago

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Definitions/Glossary

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

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 500-143266-1

Glossary

TEQ

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)

QC Association Summary

Client: TRC Environmental Corporation. Project/Site: MadisonKipp - GETS 292257 TestAmerica Job ID: 500-143266-1

GC/MS VOA

Analysis Batch: 427066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-143266-1	Influent	Total/NA	Water	624	
500-143266-1 - DL	Influent	Total/NA	Water	624	
500-143266-2	Effluent	Total/NA	Water	624	
500-143266-3	Trip Blank	Total/NA	Water	624	
MB 500-427066/28	Method Blank	Total/NA	Water	624	
LCS 500-427066/27	Lab Control Sample	Total/NA	Water	624	

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Surrogate Summary

Client: TRC Environmental Corporation. Project/Site: MadisonKipp - GETS 292257 TestAmerica Job ID: 500-143266-1

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)				
500-143266-1	Influent	102	105	101				
500-143266-1 - DL	Influent	105	108	101				
500-143266-2	Effluent	102	104	102				
500-143266-3	Trip Blank	103	105	102				
LCS 500-427066/27	Lab Control Sample	103	102	101				
MB 500-427066/28	Method Blank	102	101	104				

BFB = 4-Bromofluorobenzene (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

TestAmerica Job ID: 500-143266-1

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

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

Lab Sample ID: MB 500-427066/28

Matrix: Water

Analysis Batch: 427066

Client Sample ID: Method Blank

Prep Type: Total/NA

7 manyolo Batom 121 000									
		MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15	\$	0.50	0.15	ug/L			04/10/18 21:52	
Bromoform	<0.45		1.0	0.45	ug/L			04/10/18 21:52	•
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/10/18 21:52	
Chloroform	<0.37		2.0	0.37	ug/L			04/10/18 21:52	Kalinaid na
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/10/18 21:52	•
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			04/10/18 21:52	
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/10/18 21:52	
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/10/18 21:52	•
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/10/18 21:52	
Methyl bromide	<0.65		2.0	0.65	ug/L			04/10/18 21:52	04 244 24
Methyl chloride	< 0.32		1.0	0.32	ug/L			04/10/18 21:52	•
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/10/18 21:52	•
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/10/18 21:52	eranaaa.
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/10/18 21:52	•
Toluene	<0.15		0.50	0.15	ug/L			04/10/18 21:52	•
trans-1,2-Dichloroethene	< 0.35		1.0	0.35	ug/L			04/10/18 21:52	nal med me
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/10/18 21:52	•
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/10/18 21:52	•
Trichloroethene	<0.16		0.50	0.16	ug/L			04/10/18 21:52	
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/10/18 21:52	
Xylenes, Total	<0.40		1.0	0.40	ug/L			04/10/18 21:52	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	102	£	71 - 120		04/10/18 21:52	1	
1,2-Dichloroethane-d4 (Surr)	101		71 - 127		04/10/18 21:52	1	
Toluene-d8 (Surr)	104		75 - 120		04/10/18 21:52	1	

Lab Sample ID: LCS 500-427066/27

Matrix: Water

Analysis Batch: 427066

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

7 maryoto Zatom 12.000	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	50.0	46.5	V2	ug/L		93	37 - 151
Bromoform	50.0	54.4		ug/L		109	45 - 169
Carbon tetrachloride	50.0	42.2		ug/L		84	70 - 140
Chloroform	50.0	45.1		ug/L		90	51 - 138
cis-1,2-Dichloroethene	50.0	44.2		ug/L		88	70 - 130
Dichlorobromomethane	50.0	48.7		ug/L		97	35 - 155
1,2-Dichloroethane	50.0	49.9		ug/L		100	49 - 155
1,1-Dichloroethene	50.0	42.1		ug/L		84	10 - 234
Ethylbenzene	50.0	46.2		ug/L		92	37 - 162
Methyl bromide	50.0	47.0		ug/L		94	10 - 242
Methyl chloride	50.0	49.6		ug/L		99	10 - 273
m&p-Xylene	50.0	51.0		ug/L		102	
o-Xylene	50.0	51.7		ug/L		103	
1,1,2,2-Tetrachloroethane	50.0	56.9		ug/L		114	46 - 157
Tetrachloroethene	50.0	47.9		ug/L		96	64 - 148
Toluene	50.0	50.5		ug/L		101	47 - 150

TestAmerica Chicago

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QC Sample Results

Client: TRC Environmental Corporation. Project/Site: MadisonKipp - GETS 292257 TestAmerica Job ID: 500-143266-1

.

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

Lab Sample ID: LCS 500-427066/27

Matrix: Water

Analysis Batch: 427066

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

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
trans-1,2-Dichloroethene	50.0	43.5	7.	ug/L		87	54 - 156	
1,1,1-Trichloroethane	50.0	42.6		ug/L		85	52 - 162	
1,1,2-Trichloroethane	50.0	54.6		ug/L		109	52 - 150	
Trichloroethene	50.0	45.2		ug/L		90	71 - 157	
Vinyl chloride	50.0	47.4		ug/L		95	10 - 251	

	LCS	LCS			
Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	103	S	71 - 120		
1,2-Dichloroethane-d4 (Surr)	102		71 - 127		
Toluene-d8 (Surr)	101		75 - 120		

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Lab Chronicle

Client: TRC Environmental Corporation. Project/Site: MadisonKipp - GETS 292257 TestAmerica Job ID: 500-143266-1

Lab Sample ID: 500-143266-1

Matrix: Water

Client Sample ID: Influent Date Collected: 04/03/18 09:45 Date Received: 04/04/18 09:10

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	624		5	427066	04/11/18 01:02	JDD	TAL CHI
Total/NA	Analysis	624	DL	50	427066	04/11/18 01:29	JDD	TAL CHI

Client Sample ID: Effluent Lab Sample ID: 500-143266-2

Matrix: Water

Date Collected: 04/03/18 09:55 Date Received: 04/04/18 09:10

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	427066	04/11/18 01:55	JDD	TAL CHI

Client Sample ID: Trip Blank Lab Sample ID: 500-143266-3 Date Collected: 04/03/18 00:00

Matrix: Water

Date Received: 04/04/18 09:10

Batch Batch Dilution Batch **Prepared Prep Type** Type Method Run **Factor** Number or Analyzed Analyst Lab TAL CHI Total/NA Analysis 624 427066 04/11/18 02:22 JDD

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: 500-143266-1

Laboratory: TestAmerica Chicago

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

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

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THE LEADER IN ENVIRONMENTAL TESTING 2417 Bond Street, University Park, IL 60484 Phone: 708.534.5200 Fax: 708.534.5211	Report To Contact: Hydry Stel Company: TRE Address: FOO Hartan Address: Sult 3 acts 10 Phone: (608) 826-361 Fax: E-Mail: astelna trcs	Phone: Fax:		Chain of Custody Record Lab Job #:500 - 1.43 2.66 Chain of Custody Number: Page of Temperature °C of Cooler:
Client Client Project #	Preservative	PO#/Reference#		Preservative Key
Client Project # Project Name Client Project # Project Name Project Location/State Nadiku UT Sampler D Lab Project # Lab PM	Parameter	N		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
Sampler Schu Roelke Sandy Fred	lotek	N		9. Other
- Joseph - J	Sampling Sam	2		Comments
1 Influent 4/ 2 Effluent 4/ 3 Tap Blank 3/	3/18 945 3 W)			
2 Effluent 41	3/18 955 3 W X	/		
3 Tap Blank 31	30/10 - 1 W X			
,				
Turnaround Time Required (Business Days) 1 Day 2 Days 5 Days 7 Days 10 Days 15 Day Requested Due Date	Therum to one		The second second	e assessed if samples are retained longer than 1 month)
Relinquished By Company Company 4/3,	18 14 30 Receiv	red By Company T	A Date 04/04/18	Time 0910 Lab Courier
Religious fied By Company Date	Time Receiv		Date	Time
Relinquished By Company Date	Time Receiv	red By Company	Date	Shipped
				Hand Delivered
Matrix Key WW - Wastewater SE - Sediment W - Water SO - Soil S - Soil L - Leachate SL - Sludge WI - Wijpe MS - Miscellaneous DW - Drinking Water OL - Oil	ee Additional Sh.	eat	Lab Comments:	

SL – Sluc MS – Mis OL – Oil A – Air

500-143266 COC

Parameter	Method
VOCs	<u> </u>
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	4
Toluene	624
Ethylbenzene	-
Xylenes	

Login Sample Receipt Checklist

Client: TRC Environmental Corporation. Job Number: 500-143266-1

Login Number: 143266 List Source: TestAmerica Chicago

List Number: 1

Creator: Kelsey, Shawn M

Creator. Reisey, Shawn W		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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	3.4c
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.	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	

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