



Gannett Fleming

Excellence Delivered *As Promised*

June 7, 2017
File #55929.005

Ms. Hai Xia Shan
5535 Wild Rose Lane
Eau Claire, WI 54701

Re: Laboratory Results for Water Sample Collected from PW-16 in May 2017

Dear Ms. Shan:


On May 17, 2017, Gannett Fleming, Inc. collected a water sample from your home at 5535 Wild Rose Lane. The sample was collected as a follow-up to the samples collected from your home in September and October 2014, June 2015, and May 2016 and in conjunction with on-going groundwater monitoring and remedial activities associated with the WRR Environmental Services facility on Ryder Road. The monitoring and remedial activities at the WRR site are being conducted under the oversight of the Wisconsin Department of Natural Resources (WDNR).

Our designation for your water sample is PW-16. The water sample collected from your home was sent to Pace Analytical Laboratory in Green Bay, Wisconsin, for analysis of 65 individual volatile organic compounds (VOCs). No VOCs were detected in the water sample collected from your home in May. Enclosed is a copy of the laboratory report for the water sample that was collected from your home (PW-16) in May 2017.

A copy of this letter and the May 2016 lab report are being sent to the WDNR for its records. We thank you for your cooperation. Someone from Gannett Fleming will contact you next spring to schedule a time convenient for you for us to collect the next sample. In the meantime, if you have any questions, please call me at the number listed below.

Sincerely,

GANNETT FLEMING, INC.


Anthony W. Miller, P.S.S.

Senior Environmental Scientist

awmiller@gfnet.com

Ph: 800-899-3337

AWM/jec/Enc.

cc: Mae Willkom (WDNR)

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Gannett Fleming, Inc.

8025 Excelsior Drive, Madison, WI 53717-1900

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www.gannettfleming.com

May 31, 2017

Tony Miller
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

RE: Project: 55929.005 WRR
Pace Project No.: 40150360

Dear Tony Miller:

Enclosed are the analytical results for sample(s) received by the laboratory on May 20, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Chelsea Payne, Gannett Fleming Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 55929.005 WRR

Pace Project No.: 40150360

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 55929.005 WRR

Pace Project No.: 40150360

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40150342019	PW-16	Water	05/17/17 17:40	05/20/17 09:45
40150360003	Trip Blank	Water	05/18/17 00:00	05/20/17 09:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 55929.005 WRR

Pace Project No.: 40150360

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40150342019	PW-16	EPA 8260	HNW	69
40150360003	Trip Blank	EPA 8260	HNW	69

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40150360

Sample: PW-16 **Lab ID: 40150342019** Collected: 05/17/17 17:40 Received: 05/20/17 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		05/30/17 08:44	630-20-6	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/30/17 08:44	71-55-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		05/30/17 08:44	79-34-5	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/30/17 08:44	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/30/17 08:44	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/30/17 08:44	75-35-4	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		05/30/17 08:44	563-58-6	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		05/30/17 08:44	87-61-6	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		05/30/17 08:44	96-18-4	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		05/30/17 08:44	120-82-1	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/17 08:44	95-63-6	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		05/30/17 08:44	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		05/30/17 08:44	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/30/17 08:44	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/30/17 08:44	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		05/30/17 08:44	78-87-5	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/17 08:44	108-67-8	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/30/17 08:44	541-73-1	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		05/30/17 08:44	142-28-9	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/30/17 08:44	106-46-7	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		05/30/17 08:44	594-20-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		05/30/17 08:44	78-93-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		05/30/17 08:44	95-49-8	
2-Propanol	<24.3	ug/L	250	24.3	1		05/30/17 08:44	67-63-0	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		05/30/17 08:44	106-43-4	
4-Methyl-2-pentanone (MIBK)	<2.1	ug/L	5.0	2.1	1		05/30/17 08:44	108-10-1	
Acetone	<3.0	ug/L	20.0	3.0	1		05/30/17 08:44	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		05/30/17 08:44	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		05/30/17 08:44	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		05/30/17 08:44	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		05/30/17 08:44	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		05/30/17 08:44	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		05/30/17 08:44	74-83-9	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		05/30/17 08:44	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		05/30/17 08:44	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		05/30/17 08:44	75-00-3	M1
Chloroform	<2.5	ug/L	5.0	2.5	1		05/30/17 08:44	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		05/30/17 08:44	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		05/30/17 08:44	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		05/30/17 08:44	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		05/30/17 08:44	75-71-8	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		05/30/17 08:44	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/17 08:44	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		05/30/17 08:44	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		05/30/17 08:44	98-82-8	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/30/17 08:44	1634-04-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40150360

Sample: PW-16 **Lab ID: 40150342019** Collected: 05/17/17 17:40 Received: 05/20/17 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates Analytical Method: EPA 8260									
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		05/30/17 08:44	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/30/17 08:44	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		05/30/17 08:44	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/30/17 08:44	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		05/30/17 08:44	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		05/30/17 08:44	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		05/30/17 08:44	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/30/17 08:44	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/30/17 08:44	1330-20-7	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/30/17 08:44	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		05/30/17 08:44	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		05/30/17 08:44	179601-23-1	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/17 08:44	104-51-8	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/17 08:44	103-65-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		05/30/17 08:44	95-47-6	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		05/30/17 08:44	99-87-6	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		05/30/17 08:44	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		05/30/17 08:44	98-06-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/30/17 08:44	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		05/30/17 08:44	10061-02-6	
Surrogates									
Dibromofluoromethane (S)	105	%	67-124		1		05/30/17 08:44	1868-53-7	
Toluene-d8 (S)	100	%	80-120		1		05/30/17 08:44	2037-26-5	
4-Bromofluorobenzene (S)	101	%	61-118		1		05/30/17 08:44	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40150360

Sample: Trip Blank **Lab ID: 40150360003** Collected: 05/18/17 00:00 Received: 05/20/17 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		05/31/17 04:20	630-20-6	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	71-55-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		05/31/17 04:20	79-34-5	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/31/17 04:20	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/31/17 04:20	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/31/17 04:20	75-35-4	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		05/31/17 04:20	563-58-6	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		05/31/17 04:20	87-61-6	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	96-18-4	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		05/31/17 04:20	120-82-1	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	95-63-6	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		05/31/17 04:20	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		05/31/17 04:20	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/31/17 04:20	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		05/31/17 04:20	78-87-5	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	108-67-8	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	541-73-1	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	142-28-9	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	106-46-7	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		05/31/17 04:20	594-20-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		05/31/17 04:20	78-93-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	95-49-8	
2-Propanol	<24.3	ug/L	250	24.3	1		05/31/17 04:20	67-63-0	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		05/31/17 04:20	106-43-4	
4-Methyl-2-pentanone (MIBK)	<2.1	ug/L	5.0	2.1	1		05/31/17 04:20	108-10-1	
Acetone	<3.0	ug/L	20.0	3.0	1		05/31/17 04:20	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		05/31/17 04:20	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		05/31/17 04:20	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		05/31/17 04:20	74-83-9	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		05/31/17 04:20	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		05/31/17 04:20	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		05/31/17 04:20	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		05/31/17 04:20	75-71-8	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		05/31/17 04:20	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		05/31/17 04:20	98-82-8	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/31/17 04:20	1634-04-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40150360

Sample: Trip Blank **Lab ID: 40150360003** Collected: 05/18/17 00:00 Received: 05/20/17 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates		Analytical Method: EPA 8260							
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		05/31/17 04:20	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/31/17 04:20	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		05/31/17 04:20	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		05/31/17 04:20	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/31/17 04:20	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/31/17 04:20	1330-20-7	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/31/17 04:20	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		05/31/17 04:20	179601-23-1	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	104-51-8	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	103-65-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	95-47-6	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	99-87-6	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		05/31/17 04:20	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		05/31/17 04:20	98-06-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/31/17 04:20	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		05/31/17 04:20	10061-02-6	
Surrogates									
Dibromofluoromethane (S)	111	%	67-124		1		05/31/17 04:20	1868-53-7	
Toluene-d8 (S)	100	%	80-120		1		05/31/17 04:20	2037-26-5	
4-Bromofluorobenzene (S)	101	%	61-118		1		05/31/17 04:20	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 55929.005 WRR
Pace Project No.: 40150360

QC Batch: 256301 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Associated Lab Samples: 40150342019, 40150360003

METHOD BLANK: 1511133 Matrix: Water
Associated Lab Samples: 40150342019, 40150360003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	05/30/17 06:52	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	05/30/17 06:52	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	05/30/17 06:52	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	05/30/17 06:52	
1,1-Dichloroethane	ug/L	<0.24	1.0	05/30/17 06:52	
1,1-Dichloroethene	ug/L	<0.41	1.0	05/30/17 06:52	
1,1-Dichloropropene	ug/L	<0.44	1.0	05/30/17 06:52	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	05/30/17 06:52	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	05/30/17 06:52	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	05/30/17 06:52	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	05/30/17 06:52	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	05/30/17 06:52	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	05/30/17 06:52	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	05/30/17 06:52	
1,2-Dichloroethane	ug/L	<0.17	1.0	05/30/17 06:52	
1,2-Dichloropropane	ug/L	<0.23	1.0	05/30/17 06:52	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	05/30/17 06:52	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	05/30/17 06:52	
1,3-Dichloropropane	ug/L	<0.50	1.0	05/30/17 06:52	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	05/30/17 06:52	
2,2-Dichloropropane	ug/L	<0.48	1.0	05/30/17 06:52	
2-Butanone (MEK)	ug/L	<3.0	20.0	05/30/17 06:52	
2-Chlorotoluene	ug/L	<0.50	1.0	05/30/17 06:52	
2-Propanol	ug/L	<24.3	250	05/30/17 06:52	
4-Chlorotoluene	ug/L	<0.21	1.0	05/30/17 06:52	
4-Methyl-2-pentanone (MIBK)	ug/L	<2.1	5.0	05/30/17 06:52	
Acetone	ug/L	<3.0	20.0	05/30/17 06:52	
Benzene	ug/L	<0.50	1.0	05/30/17 06:52	
Bromobenzene	ug/L	<0.23	1.0	05/30/17 06:52	
Bromochloromethane	ug/L	<0.34	1.0	05/30/17 06:52	
Bromodichloromethane	ug/L	<0.50	1.0	05/30/17 06:52	
Bromoform	ug/L	<0.50	1.0	05/30/17 06:52	
Bromomethane	ug/L	<2.4	5.0	05/30/17 06:52	
Carbon tetrachloride	ug/L	<0.50	1.0	05/30/17 06:52	
Chlorobenzene	ug/L	<0.50	1.0	05/30/17 06:52	
Chloroethane	ug/L	<0.37	1.0	05/30/17 06:52	
Chloroform	ug/L	<2.5	5.0	05/30/17 06:52	
Chloromethane	ug/L	<0.50	1.0	05/30/17 06:52	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	05/30/17 06:52	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	05/30/17 06:52	
Dibromochloromethane	ug/L	<0.50	1.0	05/30/17 06:52	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 55929.005 WRR
Pace Project No.: 40150360

METHOD BLANK: 1511133 Matrix: Water
Associated Lab Samples: 40150342019, 40150360003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	<0.43	1.0	05/30/17 06:52	
Dichlorodifluoromethane	ug/L	<0.22	1.0	05/30/17 06:52	
Diisopropyl ether	ug/L	<0.50	1.0	05/30/17 06:52	
Ethylbenzene	ug/L	<0.50	1.0	05/30/17 06:52	
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	05/30/17 06:52	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	05/30/17 06:52	
m&p-Xylene	ug/L	<1.0	2.0	05/30/17 06:52	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	05/30/17 06:52	
Methylene Chloride	ug/L	<0.23	1.0	05/30/17 06:52	
n-Butylbenzene	ug/L	<0.50	1.0	05/30/17 06:52	
n-Propylbenzene	ug/L	<0.50	1.0	05/30/17 06:52	
Naphthalene	ug/L	<2.5	5.0	05/30/17 06:52	
o-Xylene	ug/L	<0.50	1.0	05/30/17 06:52	
p-Isopropyltoluene	ug/L	<0.50	1.0	05/30/17 06:52	
sec-Butylbenzene	ug/L	<2.2	5.0	05/30/17 06:52	
Styrene	ug/L	<0.50	1.0	05/30/17 06:52	
tert-Butylbenzene	ug/L	<0.18	1.0	05/30/17 06:52	
Tetrachloroethene	ug/L	<0.50	1.0	05/30/17 06:52	
Toluene	ug/L	<0.50	1.0	05/30/17 06:52	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	05/30/17 06:52	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	05/30/17 06:52	
Trichloroethene	ug/L	<0.33	1.0	05/30/17 06:52	
Trichlorofluoromethane	ug/L	<0.18	1.0	05/30/17 06:52	
Vinyl chloride	ug/L	<0.18	1.0	05/30/17 06:52	
Xylene (Total)	ug/L	<1.5	3.0	05/30/17 06:52	
4-Bromofluorobenzene (S)	%	100	61-118	05/30/17 06:52	
Dibromofluoromethane (S)	%	105	67-124	05/30/17 06:52	
Toluene-d8 (S)	%	99	80-120	05/30/17 06:52	

LABORATORY CONTROL SAMPLE: 1511134

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.6	103	85-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.1	100	72-114	
1,1,2-Trichloroethane	ug/L	50	50.5	101	80-120	
1,1-Dichloroethane	ug/L	50	57.0	114	71-132	
1,1-Dichloroethene	ug/L	50	52.1	104	75-130	
1,2,4-Trichlorobenzene	ug/L	50	47.4	95	74-117	
1,2-Dibromo-3-chloropropane	ug/L	50	43.3	87	63-121	
1,2-Dibromoethane (EDB)	ug/L	50	48.9	98	80-120	
1,2-Dichlorobenzene	ug/L	50	49.9	100	80-120	
1,2-Dichloroethane	ug/L	50	52.6	105	79-131	
1,2-Dichloropropane	ug/L	50	55.4	111	80-120	
1,3-Dichlorobenzene	ug/L	50	50.3	101	80-120	

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QUALITY CONTROL DATA

Project: 55929.005 WRR
Pace Project No.: 40150360

LABORATORY CONTROL SAMPLE: 1511134

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	50.4	101	80-120	
Benzene	ug/L	50	55.8	112	81-142	
Bromodichloromethane	ug/L	50	48.8	98	80-120	
Bromoform	ug/L	50	40.9	82	67-122	
Bromomethane	ug/L	50	38.2	76	40-128	
Carbon tetrachloride	ug/L	50	47.0	94	85-133	
Chlorobenzene	ug/L	50	50.2	100	80-120	
Chloroethane	ug/L	50	58.7	117	58-120	
Chloroform	ug/L	50	52.8	106	80-121	
Chloromethane	ug/L	50	55.8	112	40-127	
cis-1,2-Dichloroethene	ug/L	50	52.4	105	83-129	
cis-1,3-Dichloropropene	ug/L	50	50.3	101	80-120	
Dibromochloromethane	ug/L	50	44.5	89	80-120	
Dichlorodifluoromethane	ug/L	50	47.8	96	20-135	
Ethylbenzene	ug/L	50	50.9	102	87-129	
Isopropylbenzene (Cumene)	ug/L	50	50.5	101	82-128	
m&p-Xylene	ug/L	100	100	100	87-130	
Methyl-tert-butyl ether	ug/L	50	53.3	107	66-143	
Methylene Chloride	ug/L	50	53.2	106	73-126	
o-Xylene	ug/L	50	49.9	100	84-130	
Styrene	ug/L	50	50.1	100	82-122	
Tetrachloroethene	ug/L	50	50.9	102	80-120	
Toluene	ug/L	50	50.4	101	82-130	
trans-1,2-Dichloroethene	ug/L	50	53.7	107	75-132	
trans-1,3-Dichloropropene	ug/L	50	47.6	95	71-114	
Trichloroethene	ug/L	50	52.1	104	80-120	
Trichlorofluoromethane	ug/L	50	55.9	112	82-133	
Vinyl chloride	ug/L	50	59.5	119	57-136	
Xylene (Total)	ug/L	150	150	100	86-130	
4-Bromofluorobenzene (S)	%			99	61-118	
Dibromofluoromethane (S)	%			105	67-124	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1514781 1514782

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40150342019 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1-Trichloroethane	ug/L	<0.50	50	50	53.1	53.5	106	107	85-134	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	50.6	51.4	101	103	72-114	1	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	51.3	51.9	103	104	80-120	1	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	57.5	58.4	115	117	71-133	1	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	52.9	53.6	106	107	75-136	1	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	48.4	48.9	96	97	74-117	1	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	44.0	46.2	88	92	63-123	5	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 55929.005 WRR

Pace Project No.: 40150360

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1514781		1514782		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40150342019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	49.3	50.3	99	101	80-120	2	20		
1,2-Dichlorobenzene	ug/L	<0.50	50	50	50.9	51.0	102	102	80-120	0	20		
1,2-Dichloroethane	ug/L	<0.17	50	50	54.4	55.9	109	112	79-131	3	20		
1,2-Dichloropropane	ug/L	<0.23	50	50	56.5	56.7	113	113	80-120	0	20		
1,3-Dichlorobenzene	ug/L	<0.50	50	50	51.1	51.5	102	103	80-120	1	20		
1,4-Dichlorobenzene	ug/L	<0.50	50	50	51.0	51.4	102	103	80-120	1	20		
Benzene	ug/L	<0.50	50	50	55.9	57.2	112	114	81-142	2	20		
Bromodichloromethane	ug/L	<0.50	50	50	50.0	50.6	100	101	80-120	1	20		
Bromoform	ug/L	<0.50	50	50	42.6	43.6	85	87	67-122	2	20		
Bromomethane	ug/L	<2.4	50	50	42.5	47.0	85	94	40-129	10	20		
Carbon tetrachloride	ug/L	<0.50	50	50	48.5	49.8	97	100	85-134	3	20		
Chlorobenzene	ug/L	<0.50	50	50	51.1	51.5	102	103	80-120	1	20		
Chloroethane	ug/L	<0.37	50	50	62.1	60.7	124	121	58-120	2	20	M1	
Chloroform	ug/L	<2.5	50	50	53.6	54.4	107	109	80-121	1	20		
Chloromethane	ug/L	<0.50	50	50	54.7	56.9	109	114	40-128	4	20		
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	52.9	53.9	106	108	83-129	2	20		
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	51.0	51.2	102	102	80-120	0	20		
Dibromochloromethane	ug/L	<0.50	50	50	45.4	46.5	91	93	80-120	2	20		
Dichlorodifluoromethane	ug/L	<0.22	50	50	45.9	46.5	92	93	20-146	1	20		
Ethylbenzene	ug/L	<0.50	50	50	51.8	52.1	104	104	87-129	1	20		
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	51.2	51.5	102	103	80-128	1	20		
m&p-Xylene	ug/L	<1.0	100	100	102	102	102	102	87-130	0	20		
Methyl-tert-butyl ether	ug/L	<0.17	50	50	53.2	54.8	106	110	66-143	3	20		
Methylene Chloride	ug/L	<0.23	50	50	53.7	54.3	107	109	73-127	1	20		
o-Xylene	ug/L	<0.50	50	50	50.7	51.0	101	102	84-130	1	20		
Styrene	ug/L	<0.50	50	50	50.8	51.2	102	102	80-122	1	20		
Tetrachloroethene	ug/L	<0.50	50	50	51.4	51.0	103	102	80-120	1	20		
Toluene	ug/L	<0.50	50	50	51.6	51.8	103	104	82-131	0	20		
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	54.2	55.4	108	111	75-135	2	20		
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	47.9	48.5	96	97	71-120	1	20		
Trichloroethene	ug/L	<0.33	50	50	53.5	53.5	107	107	80-120	0	20		
Trichlorofluoromethane	ug/L	<0.18	50	50	56.3	56.9	113	114	76-150	1	20		
Vinyl chloride	ug/L	<0.18	50	50	59.7	61.3	119	123	56-143	3	20		
Xylene (Total)	ug/L	<1.5	150	150	153	153	102	102	86-130	0	20		
4-Bromofluorobenzene (S)	%						99	98	61-118				
Dibromofluoromethane (S)	%						105	106	67-124				
Toluene-d8 (S)	%						100	99	80-120				

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 55929.005 WRR

Pace Project No.: 40150360

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 55929.005 WRR

Pace Project No.: 40150360

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40150342019	PW-16	EPA 8260	256301		
40150360003	Trip Blank	EPA 8260	256301		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: *Gannett Fleming*
 Branch/Location: *Madison, WI*
 Project Contact: *Anthony Miller*
 Phone: *608-836-1500*
 Project Number: *55929.005*
 Project Name: *WRR*
 Project State: *WI*
 Sampled By (Print): *Chelsea Payne*
 Sampled By (Sign): *Chelsea Payne*
 PO #:

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
	<i>PW-16</i>	<i>5/17/17</i>	<i>17:40</i>	<i>GW</i>
	<i>Trip Blank</i>	<i>"</i>	<i>"</i>	<i>"</i>



CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED? (YES/NO)
 PRESERVATION (CODE)*

Y/N	Pick Letter	Analyses Requested																
<i>N</i>	<i>B</i>	<i>VOCs</i>	<i>X</i>															

Quote #:
 Mail To Contact: *Anthony Miller*
 Mail To Company: *Gannett Fleming*
 Mail To Address: *8025 Excelsior Dr Madison, WI 53717*
 Invoice To Contact:
 Invoice To Company: *See mail to*
 Invoice To Address:
 Invoice To Phone: *608-836-1500*
 CLIENT COMMENTS
 LAB COMMENTS (Lab Use Only)
 Profile #

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed:
 Transmit Prelim Rush Results by (complete what you want):
 Email #1:
 Email #2:
 Telephone:
 Fax:
 Samples on HOLD are subject to special pricing and release of liability

Relinquished By: *Chelsea Payne* Date/Time: *5/19/17 10:00*
 Relinquished By: Date/Time:
 Relinquished By: Date/Time:
 Relinquished By: Date/Time:
 Relinquished By: Date/Time:

Received By: Date/Time:
 Received By: Date/Time:
 Received By: Date/Time:
 Received By: Date/Time:
 Received By: Date/Time:

PACE Project No.
 Receipt Temp = °C
 Sample Receipt pH OK / Adjusted
 Cooler Custody Seal Present / Not Present Intact / Not Intact



Gannett Fleming

Excellence Delivered *As Promised*

June 7, 2017
File #55929.005

Mr. Timothy Hauge
5699 South Lowes Creek Road
Eau Claire, WI 54701

Re: Laboratory Results for Water Sample Collected from PW-11 in May 2017

Dear Mr. Hauge:

On May 17, 2017, Gannett Fleming, Inc. collected a water sample from your home at 5699 South Lowes Creek Road. The sample was collected as a follow-up to the water samples collected from your home in September and October 2014, June 2015, and May 2016 and in conjunction with on-going groundwater monitoring and remedial activities associated with the WRR Environmental Services facility on Ryder Road. The monitoring and remedial activities at the WRR site are being conducted under the oversight of the Wisconsin Department of Natural Resources (WDNR).

Our designation for your water sample is PW-11. The water sample collected from your home was sent to Pace Analytical Laboratory in Green Bay, Wisconsin, for analysis of 65 individual volatile organic compounds (VOCs). No VOCs were detected in the water sample collected from your home in May. Enclosed is a copy of the laboratory report for the water sample that was collected from your home (PW-11) in May 2017.

A copy of this letter and the May 2017 lab report are being sent to the WDNR for its records. We thank you for your cooperation. Someone from Gannett Fleming will contact you next spring to schedule a time convenient for you for us to collect the next sample. In the meantime, if you have any questions, please call me at the number listed below.

Sincerely,

GANNETT FLEMING, INC.

Anthony W. Miller, P.S.S.
Senior Environmental Scientist
awmiller@gfnet.com
Ph: 800-899-3337
AWM/jec/Enc.

cc: Mae Willkom (WDNR)

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Gannett Fleming, Inc.

8025 Excelsior Drive, Madison, WI 53717-1900

t 608.836.1500 • f 608.831.3337

www.gannettfleming.com

May 31, 2017

Tony Miller
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

RE: Project: 55929.005 WRR
Pace Project No.: 40150361

Dear Tony Miller:

Enclosed are the analytical results for sample(s) received by the laboratory on May 20, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Chelsea Payne, Gannett Fleming Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 55929.005 WRR

Pace Project No.: 40150361

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: 55929.005 WRR

Pace Project No.: 40150361

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40150342020	PW-11	Water	05/17/17 17:20	05/20/17 09:45
40150361003	TRIP BLANK	Water	05/18/17 00:00	05/20/17 09:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 55929.005 WRR
Pace Project No.: 40150361

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40150342020	PW-11	EPA 8260	HNW	69
40150361003	TRIP BLANK	EPA 8260	HNW	69

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40150361

Sample: PW-11 **Lab ID: 40150342020** Collected: 05/17/17 17:20 Received: 05/20/17 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		05/30/17 15:28	630-20-6	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/30/17 15:28	71-55-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		05/30/17 15:28	79-34-5	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/30/17 15:28	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/30/17 15:28	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/30/17 15:28	75-35-4	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		05/30/17 15:28	563-58-6	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		05/30/17 15:28	87-61-6	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		05/30/17 15:28	96-18-4	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		05/30/17 15:28	120-82-1	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/17 15:28	95-63-6	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		05/30/17 15:28	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		05/30/17 15:28	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/30/17 15:28	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/30/17 15:28	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		05/30/17 15:28	78-87-5	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/17 15:28	108-67-8	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/30/17 15:28	541-73-1	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		05/30/17 15:28	142-28-9	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/30/17 15:28	106-46-7	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		05/30/17 15:28	594-20-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		05/30/17 15:28	78-93-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		05/30/17 15:28	95-49-8	
2-Propanol	<24.3	ug/L	250	24.3	1		05/30/17 15:28	67-63-0	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		05/30/17 15:28	106-43-4	
4-Methyl-2-pentanone (MIBK)	<2.1	ug/L	5.0	2.1	1		05/30/17 15:28	108-10-1	
Acetone	<3.0	ug/L	20.0	3.0	1		05/30/17 15:28	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		05/30/17 15:28	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		05/30/17 15:28	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		05/30/17 15:28	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		05/30/17 15:28	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		05/30/17 15:28	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		05/30/17 15:28	74-83-9	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		05/30/17 15:28	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		05/30/17 15:28	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		05/30/17 15:28	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		05/30/17 15:28	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		05/30/17 15:28	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		05/30/17 15:28	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		05/30/17 15:28	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		05/30/17 15:28	75-71-8	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		05/30/17 15:28	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/17 15:28	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		05/30/17 15:28	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		05/30/17 15:28	98-82-8	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/30/17 15:28	1634-04-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40150361

Sample: PW-11 **Lab ID: 40150342020** Collected: 05/17/17 17:20 Received: 05/20/17 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates		Analytical Method: EPA 8260							
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		05/30/17 15:28	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/30/17 15:28	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		05/30/17 15:28	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/30/17 15:28	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		05/30/17 15:28	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		05/30/17 15:28	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		05/30/17 15:28	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/30/17 15:28	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/30/17 15:28	1330-20-7	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/30/17 15:28	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		05/30/17 15:28	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		05/30/17 15:28	179601-23-1	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/17 15:28	104-51-8	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/17 15:28	103-65-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		05/30/17 15:28	95-47-6	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		05/30/17 15:28	99-87-6	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		05/30/17 15:28	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		05/30/17 15:28	98-06-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/30/17 15:28	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		05/30/17 15:28	10061-02-6	
Surrogates									
Dibromofluoromethane (S)	110	%	67-124		1		05/30/17 15:28	1868-53-7	
Toluene-d8 (S)	99	%	80-120		1		05/30/17 15:28	2037-26-5	
4-Bromofluorobenzene (S)	100	%	61-118		1		05/30/17 15:28	460-00-4	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40150361

Sample: TRIP BLANK **Lab ID: 40150361003** Collected: 05/18/17 00:00 Received: 05/20/17 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		05/31/17 04:20	630-20-6	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	71-55-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		05/31/17 04:20	79-34-5	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/31/17 04:20	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/31/17 04:20	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/31/17 04:20	75-35-4	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		05/31/17 04:20	563-58-6	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		05/31/17 04:20	87-61-6	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	96-18-4	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		05/31/17 04:20	120-82-1	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	95-63-6	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		05/31/17 04:20	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		05/31/17 04:20	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/31/17 04:20	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		05/31/17 04:20	78-87-5	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	108-67-8	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	541-73-1	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	142-28-9	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	106-46-7	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		05/31/17 04:20	594-20-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		05/31/17 04:20	78-93-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	95-49-8	
2-Propanol	<24.3	ug/L	250	24.3	1		05/31/17 04:20	67-63-0	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		05/31/17 04:20	106-43-4	
4-Methyl-2-pentanone (MIBK)	<2.1	ug/L	5.0	2.1	1		05/31/17 04:20	108-10-1	
Acetone	<3.0	ug/L	20.0	3.0	1		05/31/17 04:20	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		05/31/17 04:20	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		05/31/17 04:20	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		05/31/17 04:20	74-83-9	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		05/31/17 04:20	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		05/31/17 04:20	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		05/31/17 04:20	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		05/31/17 04:20	75-71-8	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		05/31/17 04:20	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		05/31/17 04:20	98-82-8	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/31/17 04:20	1634-04-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40150361

Sample: TRIP BLANK **Lab ID: 40150361003** Collected: 05/18/17 00:00 Received: 05/20/17 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates		Analytical Method: EPA 8260							
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		05/31/17 04:20	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/31/17 04:20	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		05/31/17 04:20	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		05/31/17 04:20	75-69-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/31/17 04:20	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/31/17 04:20	1330-20-7	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/31/17 04:20	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		05/31/17 04:20	179601-23-1	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	104-51-8	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	103-65-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	95-47-6	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		05/31/17 04:20	99-87-6	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		05/31/17 04:20	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		05/31/17 04:20	98-06-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/31/17 04:20	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		05/31/17 04:20	10061-02-6	
Surrogates									
Dibromofluoromethane (S)	111	%	67-124		1		05/31/17 04:20	1868-53-7	
Toluene-d8 (S)	100	%	80-120		1		05/31/17 04:20	2037-26-5	
4-Bromofluorobenzene (S)	101	%	61-118		1		05/31/17 04:20	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 55929.005 WRR
Pace Project No.: 40150361

QC Batch: 256301 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Associated Lab Samples: 40150342020, 40150361003

METHOD BLANK: 1511133 Matrix: Water
Associated Lab Samples: 40150342020, 40150361003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	05/30/17 06:52	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	05/30/17 06:52	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	05/30/17 06:52	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	05/30/17 06:52	
1,1-Dichloroethane	ug/L	<0.24	1.0	05/30/17 06:52	
1,1-Dichloroethene	ug/L	<0.41	1.0	05/30/17 06:52	
1,1-Dichloropropene	ug/L	<0.44	1.0	05/30/17 06:52	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	05/30/17 06:52	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	05/30/17 06:52	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	05/30/17 06:52	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	05/30/17 06:52	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	05/30/17 06:52	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	05/30/17 06:52	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	05/30/17 06:52	
1,2-Dichloroethane	ug/L	<0.17	1.0	05/30/17 06:52	
1,2-Dichloropropane	ug/L	<0.23	1.0	05/30/17 06:52	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	05/30/17 06:52	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	05/30/17 06:52	
1,3-Dichloropropane	ug/L	<0.50	1.0	05/30/17 06:52	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	05/30/17 06:52	
2,2-Dichloropropane	ug/L	<0.48	1.0	05/30/17 06:52	
2-Butanone (MEK)	ug/L	<3.0	20.0	05/30/17 06:52	
2-Chlorotoluene	ug/L	<0.50	1.0	05/30/17 06:52	
2-Propanol	ug/L	<24.3	250	05/30/17 06:52	
4-Chlorotoluene	ug/L	<0.21	1.0	05/30/17 06:52	
4-Methyl-2-pentanone (MIBK)	ug/L	<2.1	5.0	05/30/17 06:52	
Acetone	ug/L	<3.0	20.0	05/30/17 06:52	
Benzene	ug/L	<0.50	1.0	05/30/17 06:52	
Bromobenzene	ug/L	<0.23	1.0	05/30/17 06:52	
Bromochloromethane	ug/L	<0.34	1.0	05/30/17 06:52	
Bromodichloromethane	ug/L	<0.50	1.0	05/30/17 06:52	
Bromoform	ug/L	<0.50	1.0	05/30/17 06:52	
Bromomethane	ug/L	<2.4	5.0	05/30/17 06:52	
Carbon tetrachloride	ug/L	<0.50	1.0	05/30/17 06:52	
Chlorobenzene	ug/L	<0.50	1.0	05/30/17 06:52	
Chloroethane	ug/L	<0.37	1.0	05/30/17 06:52	
Chloroform	ug/L	<2.5	5.0	05/30/17 06:52	
Chloromethane	ug/L	<0.50	1.0	05/30/17 06:52	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	05/30/17 06:52	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	05/30/17 06:52	
Dibromochloromethane	ug/L	<0.50	1.0	05/30/17 06:52	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 55929.005 WRR

Project No.: 40150361

METHOD BLANK: 1511133

Matrix: Water

Associated Lab Samples: 40150342020, 40150361003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	<0.43	1.0	05/30/17 06:52	
Dichlorodifluoromethane	ug/L	<0.22	1.0	05/30/17 06:52	
Diisopropyl ether	ug/L	<0.50	1.0	05/30/17 06:52	
Ethylbenzene	ug/L	<0.50	1.0	05/30/17 06:52	
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	05/30/17 06:52	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	05/30/17 06:52	
m&p-Xylene	ug/L	<1.0	2.0	05/30/17 06:52	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	05/30/17 06:52	
Methylene Chloride	ug/L	<0.23	1.0	05/30/17 06:52	
n-Butylbenzene	ug/L	<0.50	1.0	05/30/17 06:52	
n-Propylbenzene	ug/L	<0.50	1.0	05/30/17 06:52	
Naphthalene	ug/L	<2.5	5.0	05/30/17 06:52	
o-Xylene	ug/L	<0.50	1.0	05/30/17 06:52	
p-Isopropyltoluene	ug/L	<0.50	1.0	05/30/17 06:52	
sec-Butylbenzene	ug/L	<2.2	5.0	05/30/17 06:52	
Styrene	ug/L	<0.50	1.0	05/30/17 06:52	
tert-Butylbenzene	ug/L	<0.18	1.0	05/30/17 06:52	
Tetrachloroethene	ug/L	<0.50	1.0	05/30/17 06:52	
Toluene	ug/L	<0.50	1.0	05/30/17 06:52	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	05/30/17 06:52	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	05/30/17 06:52	
Trichloroethene	ug/L	<0.33	1.0	05/30/17 06:52	
Trichlorofluoromethane	ug/L	<0.18	1.0	05/30/17 06:52	
Vinyl chloride	ug/L	<0.18	1.0	05/30/17 06:52	
Xylene (Total)	ug/L	<1.5	3.0	05/30/17 06:52	
4-Bromofluorobenzene (S)	%	100	61-118	05/30/17 06:52	
Dibromofluoromethane (S)	%	105	67-124	05/30/17 06:52	
Toluene-d8 (S)	%	99	80-120	05/30/17 06:52	

LABORATORY CONTROL SAMPLE: 1511134

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.6	103	85-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.1	100	72-114	
1,1,2-Trichloroethane	ug/L	50	50.5	101	80-120	
1,1-Dichloroethane	ug/L	50	57.0	114	71-132	
1,1-Dichloroethene	ug/L	50	52.1	104	75-130	
1,2,4-Trichlorobenzene	ug/L	50	47.4	95	74-117	
1,2-Dibromo-3-chloropropane	ug/L	50	43.3	87	63-121	
1,2-Dibromoethane (EDB)	ug/L	50	48.9	98	80-120	
1,2-Dichlorobenzene	ug/L	50	49.9	100	80-120	
1,2-Dichloroethane	ug/L	50	52.6	105	79-131	
1,2-Dichloropropane	ug/L	50	55.4	111	80-120	
1,3-Dichlorobenzene	ug/L	50	50.3	101	80-120	

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QUALITY CONTROL DATA

Project: 55929.005 WRR

Pace Project No.: 40150361

LABORATORY CONTROL SAMPLE: 1511134

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	50.4	101	80-120	
Benzene	ug/L	50	55.8	112	81-142	
Bromodichloromethane	ug/L	50	48.8	98	80-120	
Bromoform	ug/L	50	40.9	82	67-122	
Bromomethane	ug/L	50	38.2	76	40-128	
Carbon tetrachloride	ug/L	50	47.0	94	85-133	
Chlorobenzene	ug/L	50	50.2	100	80-120	
Chloroethane	ug/L	50	58.7	117	58-120	
Chloroform	ug/L	50	52.8	106	80-121	
Chloromethane	ug/L	50	55.8	112	40-127	
cis-1,2-Dichloroethene	ug/L	50	52.4	105	83-129	
cis-1,3-Dichloropropene	ug/L	50	50.3	101	80-120	
Dibromochloromethane	ug/L	50	44.5	89	80-120	
Dichlorodifluoromethane	ug/L	50	47.8	96	20-135	
Ethylbenzene	ug/L	50	50.9	102	87-129	
Isopropylbenzene (Cumene)	ug/L	50	50.5	101	82-128	
m&p-Xylene	ug/L	100	100	100	87-130	
Methyl-tert-butyl ether	ug/L	50	53.3	107	66-143	
Methylene Chloride	ug/L	50	53.2	106	73-126	
o-Xylene	ug/L	50	49.9	100	84-130	
Styrene	ug/L	50	50.1	100	82-122	
Tetrachloroethene	ug/L	50	50.9	102	80-120	
Toluene	ug/L	50	50.4	101	82-130	
trans-1,2-Dichloroethene	ug/L	50	53.7	107	75-132	
trans-1,3-Dichloropropene	ug/L	50	47.6	95	71-114	
Trichloroethene	ug/L	50	52.1	104	80-120	
Trichlorofluoromethane	ug/L	50	55.9	112	82-133	
Vinyl chloride	ug/L	50	59.5	119	57-136	
Xylene (Total)	ug/L	150	150	100	86-130	
4-Bromofluorobenzene (S)	%			99	61-118	
Dibromofluoromethane (S)	%			105	67-124	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1514781 1514782

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40150342019 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1-Trichloroethane	ug/L	<0.50	50	50	53.1	53.5	106	107	85-134	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	50.6	51.4	101	103	72-114	1	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	51.3	51.9	103	104	80-120	1	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	57.5	58.4	115	117	71-133	1	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	52.9	53.6	106	107	75-136	1	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	48.4	48.9	96	97	74-117	1	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	44.0	46.2	88	92	63-123	5	20	

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QUALITY CONTROL DATA

Project: 55929.005 WRR

Pace Project No.: 40150361

Parameter	Units	40150342019		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec							
MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1514781				1514782										
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	50	50.3	50.3	99	101	80-120	2	20				
1,2-Dichlorobenzene	ug/L	<0.50	50	50	50.9	51.0	102	102	80-120	0	20					
1,2-Dichloroethane	ug/L	<0.17	50	50	54.4	55.9	109	112	79-131	3	20					
1,2-Dichloropropane	ug/L	<0.23	50	50	56.5	56.7	113	113	80-120	0	20					
1,3-Dichlorobenzene	ug/L	<0.50	50	50	51.1	51.5	102	103	80-120	1	20					
1,4-Dichlorobenzene	ug/L	<0.50	50	50	51.0	51.4	102	103	80-120	1	20					
Benzene	ug/L	<0.50	50	50	55.9	57.2	112	114	81-142	2	20					
Bromodichloromethane	ug/L	<0.50	50	50	50.0	50.6	100	101	80-120	1	20					
Bromoform	ug/L	<0.50	50	50	42.6	43.6	85	87	67-122	2	20					
Bromomethane	ug/L	<2.4	50	50	42.5	47.0	85	94	40-129	10	20					
Carbon tetrachloride	ug/L	<0.50	50	50	48.5	49.8	97	100	85-134	3	20					
Chlorobenzene	ug/L	<0.50	50	50	51.1	51.5	102	103	80-120	1	20					
Chloroethane	ug/L	<0.37	50	50	62.1	60.7	124	121	58-120	2	20	M1				
Chloroform	ug/L	<2.5	50	50	53.6	54.4	107	109	80-121	1	20					
Chloromethane	ug/L	<0.50	50	50	54.7	56.9	109	114	40-128	4	20					
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	52.9	53.9	106	108	83-129	2	20					
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	51.0	51.2	102	102	80-120	0	20					
Dibromochloromethane	ug/L	<0.50	50	50	45.4	46.5	91	93	80-120	2	20					
Dichlorodifluoromethane	ug/L	<0.22	50	50	45.9	46.5	92	93	20-146	1	20					
Ethylbenzene	ug/L	<0.50	50	50	51.8	52.1	104	104	87-129	1	20					
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	51.2	51.5	102	103	80-128	1	20					
m&p-Xylene	ug/L	<1.0	100	100	102	102	102	102	87-130	0	20					
Methyl-tert-butyl ether	ug/L	<0.17	50	50	53.2	54.8	106	110	66-143	3	20					
Methylene Chloride	ug/L	<0.23	50	50	53.7	54.3	107	109	73-127	1	20					
o-Xylene	ug/L	<0.50	50	50	50.7	51.0	101	102	84-130	1	20					
Styrene	ug/L	<0.50	50	50	50.8	51.2	102	102	80-122	1	20					
Tetrachloroethene	ug/L	<0.50	50	50	51.4	51.0	103	102	80-120	1	20					
Toluene	ug/L	<0.50	50	50	51.6	51.8	103	104	82-131	0	20					
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	54.2	55.4	108	111	75-135	2	20					
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	47.9	48.5	96	97	71-120	1	20					
Trichloroethene	ug/L	<0.33	50	50	53.5	53.5	107	107	80-120	0	20					
Trichlorofluoromethane	ug/L	<0.18	50	50	56.3	56.9	113	114	76-150	1	20					
Vinyl chloride	ug/L	<0.18	50	50	59.7	61.3	119	123	56-143	3	20					
Xylene (Total)	ug/L	<1.5	150	150	153	153	102	102	86-130	0	20					
4-Bromofluorobenzene (S)	%							99	98	61-118						
Dibromofluoromethane (S)	%							105	106	67-124						
Toluene-d8 (S)	%							100	99	80-120						

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 55929.005 WRR

Pace Project No.: 40150361

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 55929.005 WRR

Pace Project No.: 40150361

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40150342020	PW-11	EPA 8260	256301		
40150361003	TRIP BLANK	EPA 8260	256301		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Granett Fleming
 Branch/Location: Madison, WI
 Project Contact: Anthony Miller
 Phone: 608-836-1500
 Project Number: 55129.005
 Project Name: WRR
 Project State: WI
 Sampled By (Print): Chelsea Payne
 Sampled By (Sign): Chelsea Payne
 PO #: _____ Regulatory Program: _____



UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y / N	Pick Letter	Analyses Requested																		
N	B	VOCs																		

Quote #: _____
 Mail To Contact: Anthony Miller
 Mail To Company: Granett Fleming
 Mail To Address: 8025 Excelsior Dr. Madison, WI 53717
 Invoice To Contact: _____
 Invoice To Company: See
 Invoice To Address: mail to
 Invoice To Phone: 608-836-1500
 CLIENT COMMENTS: _____
 LAB COMMENTS (Lab Use Only): _____
 Profile #: _____

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y / N	Pick Letter	Analyses Requested													
		DATE	TIME																	
	<u>PW-11</u>	<u>5/17/17</u>	<u>17:20</u>	<u>GW</u>																
	<u>Trip Blank</u>	<u>"</u>	<u>"</u>	<u>"</u>																

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: _____

Transmit Prelim Rush Results by (complete what you want):

Relinquished By: <u>Chelsea Payne</u> Date/Time: <u>5/19/17 10:00</u>	Received By: _____ Date/Time: _____	PACE Project No. _____ Receipt Temp = _____ °C Sample Receipt pH OK / Adjusted Cooler Custody Seal Present / Not Present Intact / Not Intact
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	

Samples on HOLD are subject to special pricing and release of liability