

Memo



To: Ms. Jodi Arndt-Labs, Conway, Olejniczak & Jerry, S.C.
From: Roger Miller and Samantha Meyer, GEI
Cc: Paul Garvey, GEI
Date: July 27, 2021
Re: Groundwater Sampling Data (7/13/21 Round)
Former D & G Mobil Quikmart
125 CTH CP, Coleman, Wisconsin
WDNR BRRTS No. 03-38-204911
GEI Project No. 2102571

On July 13, 2021, GEI Consultants, Inc. (GEI) field personnel collected groundwater samples for laboratory analysis from monitoring wells MW-1 through MW-6 on/adjacent to the subject property using disposable balers. Water levels were also gauged in the other monitoring wells in the northern portion of the study area (MW-7, MW-8/8A, PZ-8 and MW-9). Groundwater samples were transferred into preserved vials, stored on ice in the field, and delivered to Pace Analytical Services (Pace), Green Bay, Wisconsin, under chain-of-custody control for analysis of petroleum volatile organic compounds (PVOCs). A trip blank accompanied the laboratory samples and was also analyzed for PVOCs.

After purging the wells, thin layers of free product were observed in the bailers at MW-4 (1/4-inch) and MW-6 (1/8-inch). Slight petroleum odor but no sheen or free product was noted at MW-2 and MW-5. All water samples were clear, except for the sample from MW-1 which was cloudy/light gray in color.

Water table elevations and groundwater analytical data are summarized on attached Table 1. Water levels from MW-2 through MW-8A were used to prepare the attached groundwater contour map (Figure 1). Groundwater elevations from these monitoring wells were selected for the groundwater contour map because they represent conditions in the wells which were installed with screens sealed into the top of the bedrock layer at similar elevations. Although these wells function as shallow piezometers and not water table observation wells (like MW-1 and MW-9), they provide information on groundwater levels from similar elevations/conditions across the study area and are therefore useful for interpreting shallow groundwater flow direction. As illustrated on Figure 1, groundwater is interpreted to flow generally northwest across the study area.

As summarized on Table 1, PVOC concentrations were generally consistent with 2019 data. PVOCs were not detected in the trip blank.

We appreciate the opportunity to provide groundwater sampling services. Please contact us with any questions.

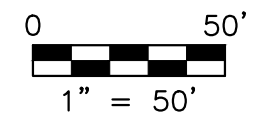
Attachments:

Table 1. Groundwater Analytical Summary
Figure 1. Groundwater Contour Map (July 13, 2021)




Laboratory Analytical Report

XXX:xxx

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LEGEND


-  MW-9 MONITORING WELL / PIEZOMETER INSTALLED JUNE/JULY 2019
-  PZ-8
-  MW-2 FORMER WELL

(700.50) GROUNDWATER ELEVATION (07/13/2021)

 GROUNDWATER CONTOUR

HORIZONTAL COORDINATES ARE BASED ON MARINETTE COUNTY COORDINATE SYSTEM.

VERTICAL DATUM IS BASED ON NAVD88

D & G MOBIL GROUNDWATER ASSESSMENT COLEMAN, WI		GROUNDWATER CONTOUR MAP (JULY 13, 2021)
	Project 2102571	JULY 2021

July 16, 2021

Roger Miller
GEI Consultants, Inc.
3159 Voyager Drive
Green Bay, WI 54311

RE: Project: 2102571 D&G MOBIL
Pace Project No.: 40229822

Dear Roger Miller:

Enclosed are the analytical results for sample(s) received by the laboratory on July 13, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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

Sincerely,



Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Paul Garvey, GEI Consultants, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2102571 D&G MOBIL

Pace Project No.: 40229822

Pace Analytical Services Green Bay

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: 2102571 D&G MOBIL

Pace Project No.: 40229822

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40229822001	MW-1	Water	07/13/21 09:40	07/13/21 13:07
40229822002	MW-2	Water	07/13/21 10:20	07/13/21 13:07
40229822003	MW-3	Water	07/13/21 10:00	07/13/21 13:07
40229822004	MW-4	Water	07/13/21 11:55	07/13/21 13:07
40229822005	MW-5	Water	07/13/21 10:45	07/13/21 13:07
40229822006	MW-6	Water	07/13/21 11:10	07/13/21 13:07
40229822007	TRIP BLANK	Water	07/13/21 00:00	07/13/21 13:07

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SAMPLE ANALYTE COUNT

Project: 2102571 D&G MOBIL

Pace Project No.: 40229822

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40229822001	MW-1	EPA 8260	SMT	12	PASI-G
40229822002	MW-2	EPA 8260	SMT	12	PASI-G
40229822003	MW-3	EPA 8260	SMT	12	PASI-G
40229822004	MW-4	EPA 8260	SMT	12	PASI-G
40229822005	MW-5	EPA 8260	SMT	12	PASI-G
40229822006	MW-6	EPA 8260	SMT	12	PASI-G
40229822007	TRIP BLANK	EPA 8260	SMT	12	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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SUMMARY OF DETECTION

Project: 2102571 D&G MOBIL
Pace Project No.: 40229822

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40229822002	MW-2					
EPA 8260	Benzene	20.5	ug/L	1.0	07/15/21 23:04	
EPA 8260	Ethylbenzene	224	ug/L	1.0	07/15/21 23:04	
EPA 8260	Toluene	481	ug/L	10.0	07/16/21 09:38	
EPA 8260	1,2,4-Trimethylbenzene	149	ug/L	1.0	07/15/21 23:04	
EPA 8260	1,3,5-Trimethylbenzene	29.3	ug/L	1.0	07/15/21 23:04	
EPA 8260	Xylene (Total)	770	ug/L	3.0	07/15/21 23:04	
EPA 8260	m&p-Xylene	566	ug/L	2.0	07/15/21 23:04	
EPA 8260	o-Xylene	205	ug/L	1.0	07/15/21 23:04	
40229822004	MW-4					
EPA 8260	Benzene	7.8J	ug/L	10.0	07/16/21 00:22	
EPA 8260	Ethylbenzene	236	ug/L	10.0	07/16/21 00:22	
EPA 8260	Toluene	4.2J	ug/L	10.0	07/16/21 00:22	
EPA 8260	1,2,4-Trimethylbenzene	1180	ug/L	10.0	07/16/21 00:22	
EPA 8260	1,3,5-Trimethylbenzene	242	ug/L	10.0	07/16/21 00:22	
EPA 8260	Xylene (Total)	1060	ug/L	30.0	07/16/21 00:22	
EPA 8260	m&p-Xylene	1010	ug/L	20.0	07/16/21 00:22	
EPA 8260	o-Xylene	48.1	ug/L	10.0	07/16/21 00:22	
40229822005	MW-5					
EPA 8260	Benzene	44.0	ug/L	40.0	07/16/21 00:41	
EPA 8260	Ethylbenzene	5150	ug/L	40.0	07/16/21 00:41	
EPA 8260	Toluene	204	ug/L	40.0	07/16/21 00:41	
EPA 8260	1,2,4-Trimethylbenzene	3090	ug/L	40.0	07/16/21 00:41	
EPA 8260	1,3,5-Trimethylbenzene	733	ug/L	40.0	07/16/21 00:41	
EPA 8260	Xylene (Total)	13800	ug/L	120	07/16/21 00:41	
EPA 8260	m&p-Xylene	12900	ug/L	80.0	07/16/21 00:41	
EPA 8260	o-Xylene	816	ug/L	40.0	07/16/21 00:41	
40229822006	MW-6					
EPA 8260	Ethylbenzene	200	ug/L	1.0	07/15/21 23:43	
EPA 8260	Toluene	2.0	ug/L	1.0	07/15/21 23:43	
EPA 8260	1,2,4-Trimethylbenzene	1110	ug/L	10.0	07/16/21 09:57	
EPA 8260	1,3,5-Trimethylbenzene	1080	ug/L	10.0	07/16/21 09:57	
EPA 8260	Xylene (Total)	518	ug/L	30.0	07/16/21 09:57	
EPA 8260	m&p-Xylene	442	ug/L	20.0	07/16/21 09:57	
EPA 8260	o-Xylene	75.4	ug/L	1.0	07/15/21 23:43	

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ANALYTICAL RESULTS

Project: 2102571 D&G MOBIL

Pace Project No.: 40229822

Sample: MW-1 **Lab ID: 40229822001** Collected: 07/13/21 09:40 Received: 07/13/21 13:07 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		07/15/21 22:45	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		07/15/21 22:45	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		07/15/21 22:45	1634-04-4	
Toluene	<0.29	ug/L	1.0	0.29	1		07/15/21 22:45	108-88-3	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		07/15/21 22:45	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		07/15/21 22:45	108-67-8	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		07/15/21 22:45	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		07/15/21 22:45	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		07/15/21 22:45	95-47-6	
Surrogates									
Toluene-d8 (S)	101	%	70-130		1		07/15/21 22:45	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130		1		07/15/21 22:45	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		07/15/21 22:45	2199-69-1	

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ANALYTICAL RESULTS

Project: 2102571 D&G MOBIL

Pace Project No.: 40229822

Sample: MW-2 **Lab ID: 40229822002** Collected: 07/13/21 10:20 Received: 07/13/21 13:07 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	20.5	ug/L	1.0	0.30	1		07/15/21 23:04	71-43-2	
Ethylbenzene	224	ug/L	1.0	0.33	1		07/15/21 23:04	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		07/15/21 23:04	1634-04-4	
Toluene	481	ug/L	10.0	2.9	10		07/16/21 09:38	108-88-3	
1,2,4-Trimethylbenzene	149	ug/L	1.0	0.45	1		07/15/21 23:04	95-63-6	
1,3,5-Trimethylbenzene	29.3	ug/L	1.0	0.36	1		07/15/21 23:04	108-67-8	
Xylene (Total)	770	ug/L	3.0	1.0	1		07/15/21 23:04	1330-20-7	
m&p-Xylene	566	ug/L	2.0	0.70	1		07/15/21 23:04	179601-23-1	
o-Xylene	205	ug/L	1.0	0.35	1		07/15/21 23:04	95-47-6	
Surrogates									
Toluene-d8 (S)	103	%	70-130		1		07/15/21 23:04	2037-26-5	
4-Bromofluorobenzene (S)	104	%	70-130		1		07/15/21 23:04	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		07/15/21 23:04	2199-69-1	

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ANALYTICAL RESULTS

Project: 2102571 D&G MOBIL

Pace Project No.: 40229822

Sample: MW-3 **Lab ID: 40229822003** Collected: 07/13/21 10:00 Received: 07/13/21 13:07 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		07/16/21 08:59	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		07/16/21 08:59	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		07/16/21 08:59	1634-04-4	
Toluene	<0.29	ug/L	1.0	0.29	1		07/16/21 08:59	108-88-3	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		07/16/21 08:59	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		07/16/21 08:59	108-67-8	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		07/16/21 08:59	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		07/16/21 08:59	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		07/16/21 08:59	95-47-6	
Surrogates									
Toluene-d8 (S)	100	%	70-130		1		07/16/21 08:59	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130		1		07/16/21 08:59	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		07/16/21 08:59	2199-69-1	

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ANALYTICAL RESULTS

Project: 2102571 D&G MOBIL

Pace Project No.: 40229822

Sample: MW-4 **Lab ID: 40229822004** Collected: 07/13/21 11:55 Received: 07/13/21 13:07 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	7.8J	ug/L	10.0	3.0	10		07/16/21 00:22	71-43-2	
Ethylbenzene	236	ug/L	10.0	3.3	10		07/16/21 00:22	100-41-4	
Methyl-tert-butyl ether	<11.3	ug/L	50.0	11.3	10		07/16/21 00:22	1634-04-4	
Toluene	4.2J	ug/L	10.0	2.9	10		07/16/21 00:22	108-88-3	
1,2,4-Trimethylbenzene	1180	ug/L	10.0	4.5	10		07/16/21 00:22	95-63-6	
1,3,5-Trimethylbenzene	242	ug/L	10.0	3.6	10		07/16/21 00:22	108-67-8	
Xylene (Total)	1060	ug/L	30.0	10.5	10		07/16/21 00:22	1330-20-7	
m&p-Xylene	1010	ug/L	20.0	7.0	10		07/16/21 00:22	179601-23-1	
o-Xylene	48.1	ug/L	10.0	3.5	10		07/16/21 00:22	95-47-6	
Surrogates									
Toluene-d8 (S)	101	%	70-130		10		07/16/21 00:22	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		10		07/16/21 00:22	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		10		07/16/21 00:22	2199-69-1	

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ANALYTICAL RESULTS

Project: 2102571 D&G MOBIL

Pace Project No.: 40229822

Sample: MW-5 **Lab ID: 40229822005** Collected: 07/13/21 10:45 Received: 07/13/21 13:07 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	44.0	ug/L	40.0	11.8	40		07/16/21 00:41	71-43-2	
Ethylbenzene	5150	ug/L	40.0	13.0	40		07/16/21 00:41	100-41-4	
Methyl-tert-butyl ether	<45.2	ug/L	200	45.2	40		07/16/21 00:41	1634-04-4	
Toluene	204	ug/L	40.0	11.5	40		07/16/21 00:41	108-88-3	
1,2,4-Trimethylbenzene	3090	ug/L	40.0	17.9	40		07/16/21 00:41	95-63-6	
1,3,5-Trimethylbenzene	733	ug/L	40.0	14.3	40		07/16/21 00:41	108-67-8	
Xylene (Total)	13800	ug/L	120	41.9	40		07/16/21 00:41	1330-20-7	
m&p-Xylene	12900	ug/L	80.0	28.0	40		07/16/21 00:41	179601-23-1	
o-Xylene	816	ug/L	40.0	13.9	40		07/16/21 00:41	95-47-6	
Surrogates									
Toluene-d8 (S)	101	%	70-130		40		07/16/21 00:41	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130		40		07/16/21 00:41	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		40		07/16/21 00:41	2199-69-1	

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ANALYTICAL RESULTS

Project: 2102571 D&G MOBIL

Pace Project No.: 40229822

Sample: MW-6 **Lab ID: 40229822006** Collected: 07/13/21 11:10 Received: 07/13/21 13:07 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		07/15/21 23:43	71-43-2	
Ethylbenzene	200	ug/L	1.0	0.33	1		07/15/21 23:43	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		07/15/21 23:43	1634-04-4	
Toluene	2.0	ug/L	1.0	0.29	1		07/15/21 23:43	108-88-3	
1,2,4-Trimethylbenzene	1110	ug/L	10.0	4.5	10		07/16/21 09:57	95-63-6	
1,3,5-Trimethylbenzene	1080	ug/L	10.0	3.6	10		07/16/21 09:57	108-67-8	
Xylene (Total)	518	ug/L	30.0	10.5	10		07/16/21 09:57	1330-20-7	
m&p-Xylene	442	ug/L	20.0	7.0	10		07/16/21 09:57	179601-23-1	
o-Xylene	75.4	ug/L	1.0	0.35	1		07/15/21 23:43	95-47-6	
Surrogates									
Toluene-d8 (S)	100	%	70-130		1		07/15/21 23:43	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		1		07/15/21 23:43	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		07/15/21 23:43	2199-69-1	

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ANALYTICAL RESULTS

Project: 2102571 D&G MOBIL

Pace Project No.: 40229822

Sample: TRIP BLANK **Lab ID: 40229822007** Collected: 07/13/21 00:00 Received: 07/13/21 13:07 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		07/15/21 18:51	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		07/15/21 18:51	100-41-4	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		07/15/21 18:51	1634-04-4	
Toluene	<0.29	ug/L	1.0	0.29	1		07/15/21 18:51	108-88-3	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		07/15/21 18:51	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		07/15/21 18:51	108-67-8	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		07/15/21 18:51	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		07/15/21 18:51	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		07/15/21 18:51	95-47-6	
Surrogates									
Toluene-d8 (S)	101	%	70-130		1		07/15/21 18:51	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130		1		07/15/21 18:51	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		07/15/21 18:51	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2102571 D&G MOBIL
Pace Project No.: 40229822

QC Batch: 390341 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40229822001, 40229822002, 40229822003, 40229822004, 40229822005, 40229822006, 40229822007

METHOD BLANK: 2250902 Matrix: Water
Associated Lab Samples: 40229822001, 40229822002, 40229822003, 40229822004, 40229822005, 40229822006, 40229822007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	07/15/21 16:55	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	07/15/21 16:55	
Benzene	ug/L	<0.30	1.0	07/15/21 16:55	
Ethylbenzene	ug/L	<0.33	1.0	07/15/21 16:55	
m&p-Xylene	ug/L	<0.70	2.0	07/15/21 16:55	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	07/15/21 16:55	
o-Xylene	ug/L	<0.35	1.0	07/15/21 16:55	
Toluene	ug/L	<0.29	1.0	07/15/21 16:55	
Xylene (Total)	ug/L	<1.0	3.0	07/15/21 16:55	
1,2-Dichlorobenzene-d4 (S)	%	101	70-130	07/15/21 16:55	
4-Bromofluorobenzene (S)	%	104	70-130	07/15/21 16:55	
Toluene-d8 (S)	%	101	70-130	07/15/21 16:55	

LABORATORY CONTROL SAMPLE: 2250903

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	58.6	117	70-132	
Ethylbenzene	ug/L	50	55.9	112	80-123	
m&p-Xylene	ug/L	100	108	108	70-130	
Methyl-tert-butyl ether	ug/L	50	45.3	91	66-130	
o-Xylene	ug/L	50	54.3	109	70-130	
Toluene	ug/L	50	55.7	111	80-121	
Xylene (Total)	ug/L	150	162	108	70-130	
1,2-Dichlorobenzene-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			107	70-130	
Toluene-d8 (S)	%			102	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: 2102571 D&G MOBIL
Pace Project No.: 40229822

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, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2102571 D&G MOBIL
Pace Project No.: 40229822

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40229822001	MW-1	EPA 8260	390341		
40229822002	MW-2	EPA 8260	390341		
40229822003	MW-3	EPA 8260	390341		
40229822004	MW-4	EPA 8260	390341		
40229822005	MW-5	EPA 8260	390341		
40229822006	MW-6	EPA 8260	390341		
40229822007	TRIP BLANK	EPA 8260	390341		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: **GEL Consultants**
 Branch/Location: **GBW**
 Project Contact: **Roger Miller**
 Phone: **920 455 8200**
 Project Number: **2102571**
 Project Name: **D+G Mobil**
 Project State: **WI**
 Sampled By (Print): **Paul Garvey**
 Sampled By (Sign): **Paul Garvey**



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

40229822

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
		PVOC

Quote #: **See Chris Hyska**
 Mail To Contact: **Roger Miller**
 Mail To Company: **GEL**
 Mail To Address: **25A ME**
 Invoice To Contact:
 Invoice To Company:
 Invoice To Address:
 Invoice To Phone:
 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
		DATE	TIME	
001	MW-1	7/13/21	0940	GW
002	MW-2		1020	
003	MW-3		1000	
004	MW-4		1155	
005	MW-5		1045	
006	MW-6		1110	
007	Trip blank			

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

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

Relinquished By: Paul Garvey	Date/Time: 7/13/21 1307	Received By: Susank Wylka	Date/Time: 7/13/21 1307
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

PACE Project No. **40229822**
 Receipt Temp = **4** °C
 Sample Receipt pH **OK / Adjusted**
 Cooler Custody Seal **Present / Not Present**
 Intact / Not Intact

Sample Preservation Receipt Form

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: GFI

Project # 40229822

All containers needing preservation have been checked and noted below: Yes No N/A

Initial when completed:

Date/Time:

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass					Plastic					Vials				Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)							
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U								WGFU	WPFU	SP5T	ZPLC	GN		
001																																			2.5 / 5 / 10
002																																			2.5 / 5 / 10
003																																			2.5 / 5 / 10
004																																			2.5 / 5 / 10
005																																			2.5 / 5 / 10
006																																			2.5 / 5 / 10
007																																			2.5 / 5 / 10
008																																			2.5 / 5 / 10
009																																			2.5 / 5 / 10
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018																																			2.5 / 5 / 10
019																																			2.5 / 5 / 10
020																																			2.5 / 5 / 10

Exceptions to preservation check: VOA Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	VG9A 40 mL clear ascorbic	JGFU 4 oz amber jar unpres
BG1U 1 liter clear glass	BP3U 250 mL plastic unpres	DG9T 40 mL amber Na Thio	JG9U 9 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP3B 250 mL plastic NaOH	VG9U 40 mL clear vial unpres	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9H 40 mL clear vial HCL	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3S 250 mL plastic H2SO4	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG5U 100 mL amber glass unpres		VG9D 40 mL clear vial DI	ZPLC ziploc bag
AG2S 500 mL amber glass H2SO4			GN
BG3U 250 mL clear glass unpres			



Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
ENV-FRM-GBAY-0014-Rev.00

Document Revised: 26Mar2020
 Author:
 Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Gie I

Project #: **WO# : 40229822**

Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - 105 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 3.5 / Corr: 4

Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
 Date: 7/13/21 / Initials: EL
 Labeled By Initials: SRK

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. <u>SRK</u>
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>Preserve, filter</u> <u>7/13/21 SRK</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>006 - VG9# one NO date or time or ID</u> <u>7/13/21 SRK</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>#467</u>		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir