FEDEX: 774878843483

April 5, 2019
Kleinfelder Project No.: 20193011.001A

Mr. Christopher Ralston
Maryland Department of the Environment
1800 Washington Boulevard
Baltimore, Maryland 21230

SUBJECT: MW-188D PACKER REMOVAL - REPORT OF RESULTS
Inactive Exxon Facility #28077
14258 Jarrettsville Pike, Phoenix, Maryland
MDE Case No. 2006-0303-BA2

Dear Mr. Ralston:

Kleinfelder Inc. (Kleinfelder), on behalf of ExxonMobil Environment and Property Solutions (ExxonMobil)), is submitting this Report of Results to the Maryland Department of the Environment (MDE) Oil Control Program to summarize the packer removal from MW-188D and subsequent three (3) rounds of HydraSleeve™ sampling.

BACKGROUND

On October 15, 2018, Kleinfelder, on behalf of ExxonMobil, submitted to the MDE a workplan to remove the rubber "k-packer" from MW-188D, located at 14311 Jarrettsville Pike, Phoenix, MD[1] (Figure 1). The workplan was approved by the MDE (with modifications) in a letter dated November 7, 2018.[2]

Analytical results from samples collected from above and below the packer between August 2013 and October 2018 indicated similar MtBE concentrations, suggesting the packer was not isolating distinct upper and lower zones of groundwater impact (Table 1). Additionally, the water in the well was considered potentially "trapped" and not representative of the aquifer since the well was purged since installation of the packer in 2013.

[1] Kleinfelder, Removal of Packer from MW-188D, October 15, 2018
[2] MDE, Re: Approval of Packer Removal from MW-188D, November 7, 2018

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SUMMARY OF PACKER REMOVAL AND SAMPLING ACTIVITIES

On December 5, 2018, Kleinfelder and a Maryland licensed driller successfully removed the packer from MW-188D. Following removal, the well was evacuated and allowed to recharge. A transducer was installed to monitor recharge (Attachment 1).

Following groundwater recharge, the first round of HydraSleeve samples were collected on December 31, 2018. Samples were collected from the following eleven (11) intervals as initially proposed (pre-packer) in 2014[3] and recently requested by the MDE in their approval to remove the packer:

1. 141.5 ft-toc
2. 201 ft-toc
3. 212.5 ft-toc
4. 221 ft-toc
5. 228.5 ft-toc
6. 239 ft-toc
7. 279.5 ft-toc
8. 306.5 ft-toc
9. 344 ft-toc
10. 387 ft-toc
11. 396 ft-toc

The first round of HydraSleeve™ samples collected on December 31, 2018 was to be analyzed for full-suite VOCs, but due to a laboratory error, was analyzed for target VOCs only (benzene, toluene, ethylbenzene, xylenes [BTEX], and five fuel oxygenates (methyl tertiary butyl ether [MTBE], t-amyl methyl ether [TAME], t-butyl alcohol [TBA], ethyl t-butyl ether [ETBE], di-isopropyl ether [DIPE]) by EPA method 8260B. MtBE was detected in all intervals at $\leq$ 1 µg/L.

The second round of HydraSleeve™ samples, collected on February 1, 2019 were analyzed for full-suite VOCs per EPA method 8260B. The only detections for any compounds analyzed were j-flag MtBE in five intervals:

The third round of samples collected on February 28, 2019 were analyzed for target VOCs (BTEX and five fuel oxygenates). Analytical results for all 11 intervals were non-detect for all compounds analyzed.

The table below summarizes MtBE results for the 11 HydraSleeve™ intervals for the three post-packer sampling events:

[3] Kleinfelder, Well Installation and Deepening Report for Nine Wells, February 21, 2014

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MtBE in HydraSleeve™ Sampling Results – MW-188D
December 2018 to February 2019 (post-packer removal)

Interval depth (ft-toc)	12/31/18 sampling MtBE (µg/L)	2/1/19 sampling MtBE (µg/L)	2/28/19 sampling MtBE (µg/L)
141.5	0.3J	ND(1)	ND(1)
201	0.3J	ND(1)	ND(1)
212.5	0.2J	ND(1)	ND(1)
221	1	ND(1)	ND(1)
228.5	1	ND(1)	ND(1)
239	1	ND(1)	ND(1)
279.5	0.9J	0.4J	ND(1)
306.5	0.9J	0.9J	ND(1)
344	0.4J	1J	ND(1)
387	0.4J	0.9J	ND(1)
396	0.4J	0.3J	ND(1)

The lab reports can be found in Attachment 2 and a summary of results for gasoline constituents can be found on Table 1.

RECOMMENDATIONS

Based on the analytical results presented above and in the attached tables and appendices, Kleinfelder, on behalf of ExxonMobil, requests approval to modify the sampling schedule for this well from monthly to quarterly. Upon approval, MW-188D will be sampled quarterly and results reported in the Groundwater Monitoring and Remedial Status Reports.

LIMITATIONS

Kleinfelder performed the services for this project under the Enabling Agreement with Procurement, a division of ExxonMobil Global Services Company (signed on November 28, 2012). Kleinfelder states that the services provided are consistent with professional of care defined as that level of services provided by similar professionals under like circumstances. This report is based on the regulatory standards in effect on the date of the report. It has been produced for the primary benefit of ExxonMobil Global Services Company and its affiliates.

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Please contact the undersigned with any questions or requests for additional information.

Sincerely,

KLEINFELDER

Stacey Schiding
Project Manager

Mark J. Schaaf, C.P.G.
Project Director

cc: Ms. Ellen Jackson – MDE Oil Control Program
Mr. Andrew Miller – MDE Oil Control Program
Stephanie Cobb Williams, Esq. – Office of the Attorney General
Ms. Jamila Chillemi – ExxonMobil (project file)
Carlos Bollar, Esq. – Archer & Greiner

FIGURE

1 Site Plan

TABLE

1 Historical Groundwater Analytical Data: MW-188D

ATTACHMENTS

1 Transducer Chart: MW-188D
2 Laboratory Analytical Reports: MW-188D – 12/31/18 through 2/28/19

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FIGURE 1

Site Plan

MW-135C
OUTER ARRAY
MW-131C
MW-186D
Proposed MW-186D
Proposed MW-82D
MW-138D
Proposed MW-138D
INNER ARRAY
Proposed MW-73C
MW-73C
PW-3501
PW-14311
MW-188D
MW-146C
MW-146B
MW-171C
MW-48D
MW-36C
MW-187A
MW-187B
MW-187C
MW-27B
MW-27C
MW-166C
JARRETTSVILLE PIKE
PAPER MILL ROAD
Jarrettsville Pike
SWEET AIR ROAD
HAMPSHIRE KNOB DRIVE
HAMPSHIRE GLEN COURT
JACKSON CABIN ROAD
N

Legend

Well Status

- Original Location
- Proposed - New Well
- Completed - New Well
- Completed - Well Deepened
- Location Modified from Work Plan
- Recovery Activity
- Monitoring Only
- Abandoned Monitoring Well
- Private Supply Well
- Surface Water Sample
- Inner/Outer Array
- Originally Proposed Array
- Building Footprint
- Property Boundary (Approx.)
- Roads and Parking
- Retention Basin
- Stream
- Water Body

Notes:
MW-166C has a total depth of 615' and will not be deepened.

0 70 140 210 280 Feet

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PROJECT NO.	138681
DRAWN:	2/19/2014
DRAWN BY:	B. Myers
CHECKED BY:	S. Rochford
FILE NAME:	

SITE PLAN

INACTIVE EXXON FACILITY #28077
14258 JARRETTSVILLE PIKE
PHOENIX, MARYLAND
BALTIMORE COUNTY

FIGURE
1

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TABLE 1

Historical Groundwater Analytical Data

Table 1

Summary of Groundwater Analytical Results

Inactive Exxon Facility #28077
14528 Jarrettsville Pike
Phoenix, Maryland
August 9, 2013 through February 28, 2019

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Comments
MW-188D(141.5)	12/31/2018	ND(1)	ND(1)	ND(1)	ND(5)	BRL	0.3 J	ND(1)	ND(1)	ND(1)	ND(25)	
	1/31/2019	ND(1)	ND(1)	ND(1)	ND(5)	BRL	ND(1)	ND(1)	ND(1)	ND(1)	ND(25)	
	2/28/2019	ND(1)	ND(1)	ND(1)	ND(5)	BRL	ND(1)	ND(1)	ND(1)	ND(1)	ND(25)	
MW-188D(201)	12/31/2018	ND(1)	ND(1)	ND(1)	ND(5)	BRL	0.3 J	ND(1)	ND(1)	ND(1)	ND(25)	
	1/31/2019	ND(1)	ND(1)	ND(1)	ND(5)	BRL	ND(1)	ND(1)	ND(1)	ND(1)	ND(25)	
	2/28/2019	ND(1)	ND(1)	ND(1)	ND(5)	BRL	ND(1)	ND(1)	ND(1)	ND(1)	ND(25)	
MW-188D(212.5)	12/31/2018	ND(1)	ND(1)	ND(1)	ND(5)	BRL	0.2 J	ND(1)	ND(1)	ND(1)	ND(25)	
	1/31/2019	ND(1)	ND(1)	ND(1)	ND(5)	BRL	ND(1)	ND(1)	ND(1)	ND(1)	ND(25)	
	2/28/2019	ND(1)	ND(1)	ND(1)	ND(5)	BRL	ND(1)	ND(1)	ND(1)	ND(1)	ND(25)	
MW-188D(221)	12/31/2018	ND(1)	ND(1)	ND(1)	ND(5)	BRL	1	ND(1)	ND(1)	ND(1)	ND(25)	
	1/31/2019	ND(1)	ND(1)	ND(1)	ND(5)	BRL	ND(1)	ND(1)	ND(1)	ND(1)	ND(25)	
	2/28/2019	ND(1)	ND(1)	ND(1)	ND(5)	BRL	ND(1)	ND(1)	ND(1)	ND(1)	ND(25)	
MW-188D(228.5)	12/31/2018	0.3 J	ND(1)	ND(1)	ND(5)	0.3 J	1	ND(1)	ND(1)	ND(1)	ND(25)	
	1/31/2019	ND(1)	ND(1)	ND(1)	ND(5)	BRL	ND(1)	ND(1)	ND(1)	ND(1)	ND(25)	
	2/28/2019	ND(1)	ND(1)	ND(1)	ND(5)	BRL	ND(1)	ND(1)	ND(1)	ND(1)	ND(25)	
MW-188D(239)	12/31/2018	0.3 J	ND(1)	ND(1)	ND(5)	0.3 J	1	ND(1)	ND(1)	ND(1)	ND(25)	
	1/31/2019	ND(1)	ND(1)	ND(1)	ND(5)	BRL	ND(1)	ND(1)	ND(1)	ND(1)	ND(25)	
	2/28/2019	ND(1)	ND(1)	ND(1)	ND(5)	BRL	ND(1)	ND(1)	ND(1)	ND(1)	ND(25)	
MW-188D(279.5)	12/31/2018	ND(1)	ND(1)	ND(1)	ND(5)	BRL	0.9 J	ND(1)	ND(1)	ND(1)	ND(25)	
	1/31/2019	ND(1)	ND(1)	ND(1)	ND(5)	BRL	0.4 J	ND(1)	ND(1)	ND(1)	ND(25)	
	2/28/2019	ND(1)	ND(1)	ND(1)	ND(5)	BRL	ND(1)	ND(1)	ND(1)	ND(1)	ND(25)	
MW-188D(306.5)	12/31/2018	0.2 J	ND(1)	ND(1)	ND(5)	0.2 J	0.9 J	ND(1)	ND(1)	ND(1)	ND(25)	
	1/31/2019	ND(1)	ND(1)	ND(1)	ND(5)	BRL	0.9 J	ND(1)	ND(1)	ND(1)	ND(25)	
	2/28/2019	ND(1)	ND(1)	ND(1)	ND(5)	BRL	ND(1)	ND(1)	ND(1)	ND(1)	ND(25)	
MW-188D(344)	12/31/2018	ND(1)	ND(1)	ND(1)	ND(5)	BRL	0.4 J	ND(1)	ND(1)	ND(1)	ND(25)	
	1/31/2019	ND(1)	ND(1)	ND(1)	ND(5)	BRL	1 J	ND(1)	ND(1)	ND(1)	ND(25)	
	2/28/2019	ND(1)	ND(1)	ND(1)	ND(5)	BRL	ND(1)	ND(1)	ND(1)	ND(1)	ND(25)	

Table 1 (Continued)

Summary of Groundwater Analytical Results

Inactive Exxon Facility #28077
14528 Jarrettsville Pike
Phoenix, Maryland
August 9, 2013 through February 28, 2019

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Comments
MW-188D(387)	12/31/2018	ND(1)	ND(1)	ND(1)	ND(5)	BRL	0.4 J	ND(1)	ND(1)	ND(1)	ND(25)	
	1/31/2019	ND(1)	ND(1)	ND(1)	ND(5)	BRL	0.9 J	ND(1)	ND(1)	ND(1)	ND(25)	
	2/28/2019	ND(1)	ND(1)	ND(1)	ND(5)	BRL	ND(1)	ND(1)	ND(1)	ND(1)	ND(25)	
MW-188D(396)	12/31/2018	ND(1)	ND(1)	ND(1)	ND(5)	BRL	0.4 J	ND(1)	ND(1)	ND(1)	ND(25)	
	1/31/2019	ND(1)	ND(1)	ND(1)	ND(5)	BRL	0.3 J	ND(1)	ND(1)	ND(1)	ND(25)	
	2/28/2019	ND(1)	ND(1)	ND(1)	ND(5)	BRL	ND(1)	ND(1)	ND(1)	ND(1)	ND(25)	

Table 1 (Continued)

Summary of Groundwater Analytical Results

Inactive Exxon Facility #28077
14528 Jarrettsville Pike
Phoenix, Maryland
August 9, 2013 through February 28, 2019

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Comments
MW-188D(AP)	8/19/2013	0.89 J	0.53 J	ND(1.0)	1.1	2.5 J	32.6	ND(5.0)	0.51 J	2.2 J	ND(25)	
	8/26/2013	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	BRL	0.28 J	ND(5.0)	ND(5.0)	ND(5.0)	ND(25)	
	11/11/2013	ND(1.0)	155	ND(1.0)	ND(1.0)	155	29.9	ND(5.0)	0.60 J	2.5 J	ND(25)	
	12/9/2013	ND(1.0)	10.7	ND(1.0)	ND(1.0)	10.7	1.5	ND(5.0)	ND(5.0)	ND(5.0)	ND(25)	
	1/13/2014	ND(1.0)	0.49 J	ND(1.0)	ND(1.0)	0.49 J	1.6	ND(5.0)	ND(5.0)	ND(5.0)	ND(25)	
	2/12/2014	ND(1.0)	0.97 J	ND(1.0)	ND(1.0)	0.97 J	1.8	ND(5.0)	ND(5.0)	ND(5.0)	ND(25)	
	3/11/2014	ND(1.0)	1.0	ND(1.0)	ND(1.0)	1.0	1.9	ND(5.0)	ND(5.0)	ND(5.0)	ND(25)	
	4/8/2014	ND(0.50)	0.97 J	ND(0.50)	ND(1.0)	0.97 J	1.8	ND(2.0)	ND(5.0)	ND(5.0)	ND(25)	
	5/14/2014	ND(0.50)	31.1	ND(0.50)	ND(1.0)	31.1	10.8	ND(2.0)	ND(5.0)	0.90 J	ND(25)	
	6/9/2014	ND(0.50)	27.3	ND(1.0)	ND(1.0)	27.3	10.9	ND(2.0)	ND(5.0)	0.70 J	ND(25)	
	7/23/2014	ND(0.50)	26.3	ND(1.0)	ND(1.0)	26.3	9.7	ND(2.0)	ND(5.0)	0.78 J	9.8 J	
	8/19/2014	ND(0.50)	23.8	ND(1.0)	ND(1.0)	23.8	10.9	ND(2.0)	ND(2.0)	0.61 J	ND(10)	
	9/10/2014	ND(0.50)	20.3	ND(1.0)	ND(1.0)	20.3	8.8	ND(2.0)	ND(2.0)	0.39 J	ND(10)	
	10/15/2014	ND(0.50)	12.9	ND(1.0)	ND(1.0)	12.9	9.3	ND(2.0)	ND(2.0)	0.72 J	5.2 J	
	11/25/2014	ND(0.50)	23.1	ND(1.0)	ND(1.0)	23.1	9.9	ND(2.0)	ND(2.0)	0.61 J	5.7 J	
	12/23/2014	ND(0.50)	13.5	ND(1.0)	ND(1.0)	13.5	9.4	ND(2.0)	ND(2.0)	0.63 J	6.6 J	
	1/30/2015	ND(1)	21	ND(1)	ND(1)	21	6	ND(1)	ND(1)	ND(1)	7	
	2/25/2015	ND(1)	24	ND(1)	ND(1)	24	5	ND(1)	ND(1)	ND(1)	5	
	3/16/2015	ND(1)	22	ND(1)	ND(1)	22	5	ND(1)	ND(1)	ND(1)	3 J	
	4/28/2015	ND(1)	18	ND(1)	ND(1)	18	5	ND(1)	ND(1)	ND(1)	5	
	5/21/2015	ND(1)	16	ND(1)	ND(1)	16	5	ND(1)	ND(1)	ND(1)	5	
	6/22/2015	ND(1)	10	ND(1)	ND(1)	10	5	ND(1)	ND(1)	ND(1)	6	
	7/29/2015	ND(1)	8	ND(1)	ND(1)	8	5	ND(1)	ND(1)	ND(1)	5 J	
	8/13/2015	ND(1)	8	ND(1)	ND(1)	8	6	ND(1)	ND(1)	ND(1)	5 J	
	9/29/2015	ND(1)	6	ND(1)	ND(1)	6	4	ND(1)	ND(1)	ND(1)	5 J	
	10/26/2015	ND(1)	4	ND(1)	ND(1)	4	5	ND(1)	ND(1)	ND(1)	6	
	11/18/2015	ND(1)	4	ND(1)	ND(1)	4	6	ND(1)	ND(1)	ND(1)	6	
	12/31/2015	ND(1)	1	ND(1)	0.8 J	2 J	20	ND(1)	ND(1)	2	11	

Table 1 (Continued)

Summary of Groundwater Analytical Results

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Phoenix, Maryland
August 9, 2013 through February 28, 2019

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Comments
MW-188D(AP)	1/29/2016	ND(1)	1	ND(1)	1	2	20	ND(1)	ND(1)	1	8	
	2/26/2016	ND(1)	2	ND(1)	ND(1)	2	5	ND(1)	ND(1)	ND(1)	4 J	
	3/22/2016	ND(1)	1	ND(1)	0.6 J	2 J	18	ND(1)	ND(1)	1	8	
	4/29/2016	ND(1)	1	ND(1)	0.6 J	2 J	21	ND(1)	ND(1)	1	9	
	5/26/2016	ND(1)	1	ND(1)	1	2	22	ND(1)	ND(1)	2	7	
	6/27/2016	ND(1)	1	ND(1)	0.6 J	2 J	22	ND(1)	ND(1)	2	8	
	7/25/2016	ND(1)	1	ND(1)	1	2	22	ND(1)	ND(1)	1	8	
	8/23/2016	ND(1)	2	ND(1)	1	3	23	ND(1)	ND(1)	1	8	
	9/30/2016	ND(1)	2	ND(1)	2	4	23	ND(1)	ND(1)	2	8 J	
	10/27/2016	ND(1)	1	ND(1)	0.6 J	2 J	21	ND(1)	ND(1)	1	9	
	11/21/2016	ND(1)	1	ND(1)	1	2	22	ND(1)	ND(1)	1	8	
	12/28/2016	ND(1)	1	ND(1)	ND(1)	1	5	ND(1)	ND(1)	ND(1)	6	
	1/13/2017	0.7 J	1	ND(1)	1	3 J	19	ND(1)	ND(1)	1	8	
	2/17/2017	1	1	ND(1)	0.6 J	3 J	23	ND(1)	ND(1)	2	8	
	3/31/2017	1	1	ND(1)	1	3	19	ND(1)	ND(1)	1	17	
	4/28/2017	1	1	ND(1)	ND(1)	2	18	ND(1)	ND(1)	1	6	
	5/31/2017	2	1	ND(1)	0.5 J	4 J	19	ND(1)	ND(1)	1	6	
	6/30/2017	2	1	ND(1)	ND(1)	3	22	ND(1)	ND(1)	1	8	
	7/28/2017	2	1	ND(1)	0.5 J	4 J	21	ND(1)	ND(1)	1	8	
	8/31/2017	3	1	ND(1)	1	5	24	ND(1)	ND(1)	1	7	
	10/2/2017	ND(1)	0.7 J	ND(1)	ND(1)	0.7 J	4	ND(1)	ND(1)	ND(1)	ND(20)	
	10/13/2017	3	1 J	ND(1)	ND(1)	4 J	20	ND(1)	ND(1)	1	9	
	12/18/2017	1	0.7 J	ND(1)	ND(1)	2 J	12	ND(1)	ND(1)	0.7 J	7	
	1/31/2018	2	0.8 J	ND(1)	ND(1)	3 J	18	ND(1)	ND(1)	1	8	
	2/23/2018	2	0.7 J	ND(1)	ND(1)	3 J	19	ND(1)	ND(1)	1	8	
	3/9/2018	ND(1)	ND(1)	ND(1)	ND(1)	BRL	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	
	4/4/2018	2	0.9 J	ND(1)	ND(1)	3 J	18	ND(1)	ND(1)	1	8	
	5/9/2018	3	1 J	ND(1)	1	5 J	20	ND(1)	ND(1)	2	7	

Table 1 (Continued)

Summary of Groundwater Analytical Results

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Phoenix, Maryland
August 9, 2013 through February 28, 2019

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Comments
MW-188D(AP)	6/6/2018	ND(1)	ND(1)	ND(1)	ND(1)	BRL	3	ND(1)	ND(1)	ND(1)	ND(5)	
	6/11/2018	2	1 J	ND(1)	ND(1)	3 J	19	ND(1)	ND(1)	1	7	
	7/11/2018	ND(1)	1 J	ND(1)	ND(1)	1 J	5	ND(1)	ND(1)	ND(1)	5	
	8/3/2018	2	0.9 J	ND(1)	ND(1)	3 J	14	ND(1)	ND(1)	0.8 J	7 J	
	9/14/2018	2	1	ND(1)	1 J	4 J	22	ND(1)	0.3 J	1	14 J	
	10/19/2018	2	1 J	ND(1)	1 J	4 J	18	ND(1)	0.3 J	1	ND(25)	
	11/8/2018	2	0.8 J	ND(1)	ND(5)	3 J	17	ND(1)	0.2 J	1	18 J	

Table 1 (Continued)

Summary of Groundwater Analytical Results

Inactive Exxon Facility #28077
14528 Jarrettsville Pike
Phoenix, Maryland
August 9, 2013 through February 28, 2019

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Comments
MW-188D(BP)	8/9/2013	ND(1.0)	ND(1.0)	ND(1.0)	2	2	0.74 J	ND(5.0)	ND(5.0)	ND(5.0)	ND(25)	
	8/26/2013	0.61 J	0.26 J	ND(1.0)	ND(1.0)	0.87 J	31.2	ND(5.0)	ND(5.0)	2 J	2.3 J	
	11/11/2013	ND(1.0)	82.2	ND(1.0)	1.1	83.3	23.0	ND(5.0)	0.39 J	1.3 J	ND(25)	
	12/9/2013	ND(1.0)	1.9	ND(1.0)	ND(1.0)	1.9	23.0	ND(5.0)	0.44 J	1.9 J	4.4 J	
	1/13/2014	ND(1.0)	1.5	ND(1.0)	ND(1.0)	1.5	21.6	ND(5.0)	0.34 J	1.6 J	ND(25)	
	2/12/2014	ND(1.0)	1.8	ND(1.0)	ND(1.0)	1.8	20.9	ND(5.0)	0.37 J	1.5 J	ND(25)	
	3/11/2014	ND(1.0)	2.7	ND(1.0)	ND(1.0)	2.7	22.6	ND(5.0)	0.39 J	1.5 J	ND(25)	
	4/8/2014	ND(0.50)	3.0	ND(0.50)	0.82 J	3.8 J	20.4	ND(2.0)	0.38 J	1.5 J	ND(25)	
	5/14/2014	ND(0.50)	3.8	ND(0.50)	1.4	5.2	25.5	ND(2.0)	0.48 J	2.1 J	ND(25)	
	6/9/2014	ND(0.50)	4.0	ND(1.0)	1.2	5.2	22.0	ND(2.0)	0.36 J	1.6 J	ND(25)	
	7/23/2014	ND(0.50)	3.5	ND(1.0)	1.5	5.0	26.6	ND(2.0)	0.50 J	2.1 J	20.2 J	
	8/19/2014	ND(0.50)	1.4	ND(1.0)	0.64 J	2.0 J	23.9	ND(2.0)	0.39 J	1.7 J	6.4 J	
	9/10/2014	0.28 J	3.2	ND(1.0)	1.4	4.9 J	22.6	ND(2.0)	0.39 J	1.6 J	ND(10)	
	10/15/2014	0.32 J	2.8	ND(1.0)	1.5	4.6 J	22.5	ND(2.0)	0.42 J	1.7 J	5.8 J	
	11/25/2014	0.22 J	2.0	ND(1.0)	1.3	3.5 J	23.6	ND(2.0)	0.45 J	1.7 J	7.3 J	
	12/23/2014	ND(0.50)	1.5	ND(1.0)	1.6	3.1	23.5	ND(2.0)	0.38 J	1.6 J	8.4 J	
	1/30/2015	ND(1)	1	ND(1)	1	2	22	ND(1)	ND(1)	2	10	
	2/25/2015	ND(1)	0.9 J	ND(1)	1	2 J	22	ND(1)	ND(1)	1	8	
	3/16/2015	ND(1)	0.9 J	ND(1)	1	2 J	20	ND(1)	ND(1)	1	6	
	4/28/2015	ND(1)	1	ND(1)	2	3	20	ND(1)	ND(1)	2	7	
	5/21/2015	ND(1)	1	ND(1)	2	3	22	ND(1)	ND(1)	1	8	
	6/22/2015	ND(1)	1 J	ND(1)	1	2 J	21	ND(1)	ND(1)	1	7	
	7/29/2015	ND(1)	1	ND(1)	1	2	22	ND(1)	ND(1)	1	8	
	8/13/2015	ND(1)	1	ND(1)	1	2	23	ND(1)	ND(1)	1	7	
	9/29/2015	ND(1)	1	ND(1)	ND(1)	1	20	ND(1)	ND(1)	0.9 J	8 J	
	10/26/2015	ND(1)	1	ND(1)	0.7 J	2 J	22	ND(1)	ND(1)	2	8	
	11/18/2015	ND(1)	1	ND(1)	1	2	21	ND(1)	ND(1)	1	8	
	12/31/2015	ND(1)	2	ND(1)	ND(1)	2	5	ND(1)	ND(1)	ND(1)	8	

Table 1 (Continued)

Summary of Groundwater Analytical Results

Inactive Exxon Facility #28077
14528 Jarrettsville Pike
Phoenix, Maryland
August 9, 2013 through February 28, 2019

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Comments
MW-188D(BP)	1/29/2016	ND(1)	1	ND(1)	1	2	20	ND(1)	ND(1)	1	8	
	2/26/2016	ND(1)	1	ND(1)	1	2	22	ND(1)	ND(1)	1	7	
	3/22/2016	ND(1)	1	ND(1)	ND(1)	1	5	ND(1)	ND(1)	ND(1)	6	
	4/29/2016	ND(1)	2	ND(1)	ND(1)	2	5	ND(1)	ND(1)	ND(1)	6	
	5/26/2016	ND(1)	2	ND(1)	ND(1)	2	5	ND(1)	ND(1)	ND(1)	5 J	
	6/27/2016	ND(1)	2	ND(1)	ND(1)	2	5	ND(1)	ND(1)	ND(1)	5	
	7/25/2016	ND(1)	1	ND(1)	ND(1)	1	5	ND(1)	ND(1)	ND(1)	4 J	
	8/23/2016	ND(1)	1	ND(1)	1	2	23	ND(1)	ND(1)	1	8	
	9/30/2016	ND(1)	2	ND(1)	2	4	23	ND(1)	ND(1)	2	8 J	
	10/27/2016	ND(1)	1	ND(1)	0.6 J	2 J	21	ND(1)	ND(1)	1	8	
	11/21/2016	ND(1)	1	ND(1)	1	2	20	ND(1)	ND(1)	1	8	
	12/28/2016	0.6 J	1	ND(1)	1	3 J	19	ND(1)	ND(1)	1	9	
	1/13/2017	0.7 J	1	ND(1)	0.7 J	2 J	19	ND(1)	ND(1)	1	8	
	2/17/2017	1 J	1	ND(1)	0.6 J	3 J	23	ND(1)	ND(1)	1	8	
	3/31/2017	1	1	ND(1)	1	3	19	ND(1)	ND(1)	1	9	
	4/28/2017	1	1	ND(1)	0.5 J	3 J	20	ND(1)	ND(1)	1	8	
	5/31/2017	2	1	ND(1)	ND(1)	3	19	ND(1)	ND(1)	1	6	
	6/30/2017	2	1	ND(1)	ND(1)	3	21	ND(1)	ND(1)	1	7	
	7/28/2017	2	1	ND(1)	1	4	21	ND(1)	ND(1)	1	8	
	8/31/2017	2	1	ND(1)	0.6 J	4 J	22	ND(1)	ND(1)	1	6	
	10/2/2017	3	0.9 J	ND(1)	ND(1)	4 J	19	ND(1)	ND(1)	1	8 J	
	10/13/2017	2	0.9 J	ND(1)	ND(1)	3 J	19	ND(1)	ND(1)	1	8	
	12/18/2017	ND(1)	0.7 J	ND(1)	ND(1)	0.7 J	4	ND(1)	ND(1)	ND(1)	4 J	
	1/31/2018	ND(1)	0.7 J	ND(1)	ND(1)	0.7 J	4	ND(1)	ND(1)	ND(1)	5	
	2/23/2018	ND(1)	1 J	ND(1)	ND(1)	1 J	5	ND(1)	ND(1)	ND(1)	6	
	3/9/2018	2	0.8 J	ND(1)	ND(1)	3 J	19	ND(1)	ND(1)	1	9	
	4/4/2018	2	0.8 J	ND(1)	ND(1)	3 J	17	ND(1)	ND(1)	1	8	
	5/9/2018	2	1	ND(1)	1	4	20	ND(1)	0.5 J	2	9	

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Table 1 (Continued)

Summary of Groundwater Analytical Results

Inactive Exxon Facility #28077
14528 Jarrettsville Pike
Phoenix, Maryland
August 9, 2013 through February 28, 2019

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Comments
MW-188D(BP)	6/6/2018	2	0.9 J	ND(1)	ND(1)	3 J	19	ND(1)	ND(1)	ND(1)	7	
	6/11/2018	2	0.9 J	ND(1)	ND(1)	3 J	19	ND(1)	ND(1)	1	7	
	7/11/2018	2	0.8 J	ND(1)	ND(1)	3 J	20	ND(1)	ND(1)	1	8	
	8/3/2018	2	0.9 J	ND(1)	ND(1)	3 J	14	ND(1)	ND(1)	0.8 J	6 J	
	9/14/2018	2	1 J	ND(1)	ND(5)	3 J	20	ND(1)	0.3 J	1	13 J	
	10/19/2018	2	0.9 J	ND(1)	ND(5)	3 J	18	ND(1)	0.3 J	1	ND(25)	
	11/8/2018	2	0.8 J	ND(1)	ND(5)	3 J	18	ND(1)	0.2 J	1 J	18 J	
MW-188D(HS-D)	10/7/2013	0.3 J	1.1	0.25 J	0.96 J	2.6 J	42.6	ND(5.0)	0.83 J	3.5 J	ND(25)	
	11/16/2017	2	0.8 J	ND(1)	ND(1)	3 J	19	ND(1)	ND(1)	1	8	
MW-188D(HS-S)	10/7/2013	0.59 J	1.1	ND(1.0)	ND(1.0)	1.7 J	29.1	ND(5.0)	0.54 J	2.2 J	ND(25)	
	11/16/2017	ND(1)	0.6 J	ND(1)	ND(1)	0.6 J	5	ND(1)	ND(1)	ND(1)	4 J	

Table 1 (Continued)

Summary of Groundwater Analytical Results

Inactive Exxon Facility #28077
14528 Jarrettsville Pike
Phoenix, Maryland
August 9, 2013 through February 28, 2019

Notes:

[R] - Indicates the well was used for remediation at the time of reporting.
µg/L - micrograms per liter
AP - above packer
BP - below packer
BRL - Below laboratory reporting limits
BTEX - Benzene, toluene, ethylbenzene, and total xylenes
DIPE - di-isopropyl ether
ETBE - ethyl tert butyl ether
HS - Composite HydraSleeve
HS-D - deep composite HydraSleeve sampler; set at bottom of open borehole
HS-S - shallow composite HydraSleeve sampler; set at ½ of open borehole
J - Indicates an estimated value
MTBE - methyl tertiary butyl ether
NA - Not analyzed
ND(5.0) - Not detected at or above the laboratory reporting limit, laboratory reporting limit included.
NS - Not sampled
PW - Inactive supply well being used as a monitoring/sampling location
TAME - tert-amyl methyl ether
TBA - tert butyl alcohol

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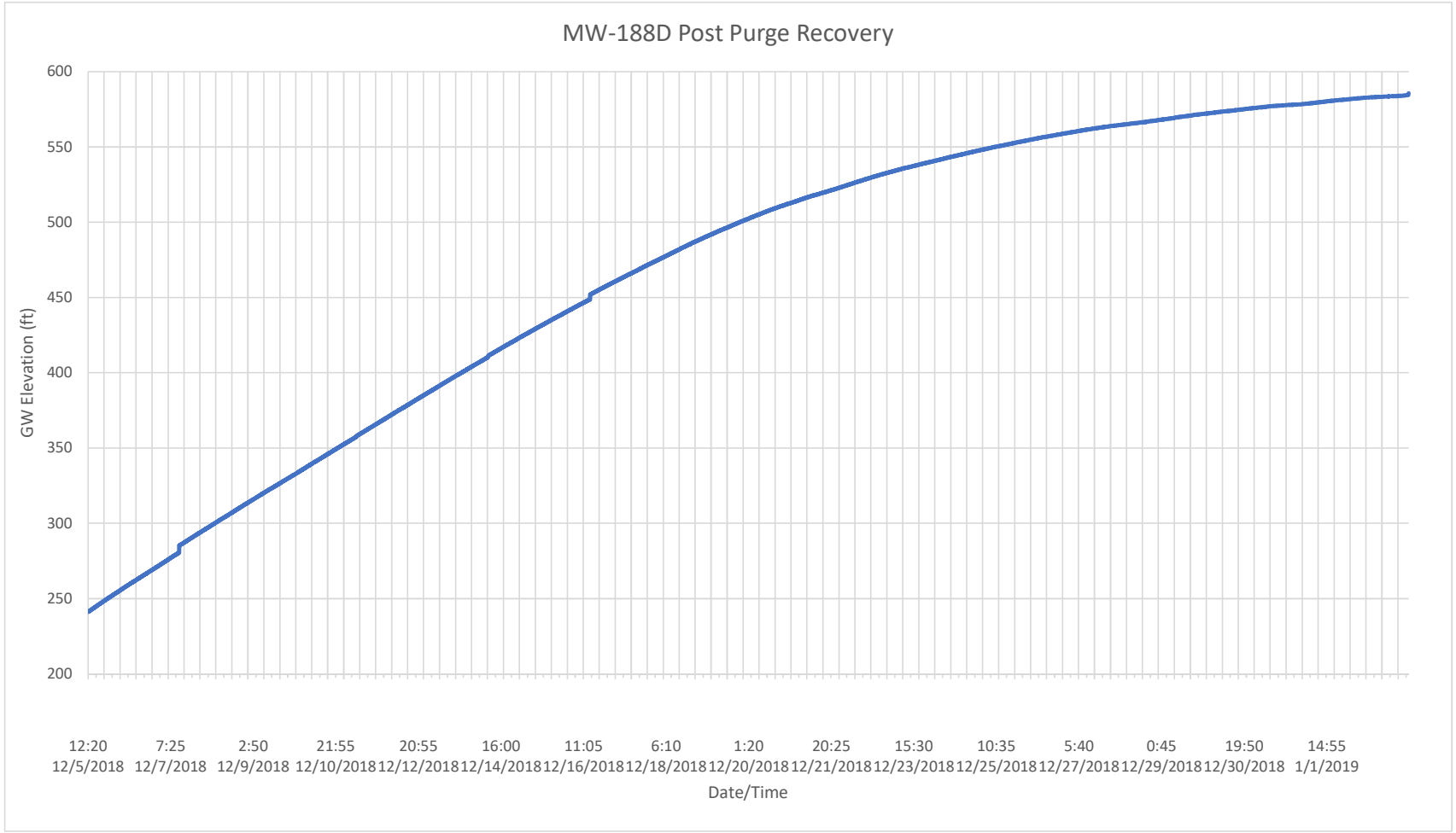
ATTACHMENT 1

Transducer Chart - MW-188D


MW-188D Post Purge Recovery
GW Elevation (ft)
600
550
500
450
400
350
300
250
200
12:20
12/5/2018
7:25
12/7/2018
2:50
12/9/2018
21:55
12/10/2018
20:55
12/12/2018
16:00
12/14/2018
11:05
12/16/2018
6:10
12/18/2018
1:20
12/20/2018
20:25
12/21/2018
15:30
12/23/2018
10:35
12/25/2018
5:40
12/27/2018
0:45
12/29/2018
19:50
12/30/2018
14:55
1/1/2019
Date/Time

ATTACHMENT 2

Laboratory Analytical Reports - MW-188D
12/31/18 through 2/28/19

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

ExxonMobil c/o Kleinfelder
550 West C Street
Suite 1200
San Diego CA 92101

Report Date: January 08, 2019 16:40

Project: 2-8077 - Phoenix, MD (GW)

Account #: 13459
Group Number: 2023535
PO Number: 51141-329684
Release Number: CHILLEMI
State of Sample Origin: MD

Electronic Copy To	Kleinfelder, MD	Attn: Stacey Schiding
Electronic Copy To	Kleinfelder, MD	Attn: Jen Kozak
Electronic Copy To	Kleinfelder, MD	Attn: Charlie Brehm
Electronic Copy To	Kleinfelder, MD	Attn: Charlie Low
Electronic Copy To	Kleinfelder, MD	Attn: Brendan Haffey

Respectfully Submitted,

Elisabeth A. Knisley
Project Manager

(717) 556-7262

To view our laboratory's current scopes of accreditation please go to https://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/certifications-and-accreditations-eurofins-lancaster-laboratories-environmental/ . Historical copies may be requested through your project manager.

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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
MW-188D(141.5) Groundwater	12/31/2018 08:25	9960899
MW-188D(201) Groundwater	12/31/2018 08:30	9960900
MW-188D(212.5) Groundwater	12/31/2018 08:35	9960901
MW-188D(221) Groundwater	12/31/2018 08:40	9960902
MW-188D(228.5) Groundwater	12/31/2018 08:45	9960903
MW-188D(239) Groundwater	12/31/2018 08:50	9960904
MW-188D(279.5) Groundwater	12/31/2018 08:55	9960905
MW-188D(306.5) Groundwater	12/31/2018 09:00	9960906
MW-188D(344) Groundwater	12/31/2018 09:05	9960907
MW-188D(387) Groundwater	12/31/2018 09:10	9960908
MW-188D(396) Groundwater	12/31/2018 09:15	9960909
MW-187C Groundwater	12/31/2018 14:50	9960910
TB18312 Water	11/12/2018	9960911
MW-27B Groundwater	12/31/2018 12:45	9960912
MW-187A Groundwater	12/31/2018 14:40	9960913
MW-187B Groundwater	12/31/2018 14:50	9960914

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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Sample Description: **MW-188D(141.5) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 01/04/2019 18:13
Collection Date/Time: 12/31/2018 08:25

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9960899
ELLE Group #: 2023535
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10945	Benzene	71-43-2	N.D.	1	0.2	1
10945	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10945	Ethylbenzene	100-41-4	N.D.	1	0.2	1
10945	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	0.3 J	1	0.2	1
10945	Toluene	108-88-3	N.D.	1	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	8260 BTEX + 5 Oxys	SW-846 8260B	1	F190071AA	01/07/2019 16:09	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F190071AA	01/07/2019 16:08	Alexander D Sechrist	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(201) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 01/04/2019 18:13
Collection Date/Time: 12/31/2018 08:30

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9960900
ELLE Group #: 2023535
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10945	Benzene	71-43-2	N.D.	1	0.2	1
10945	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10945	Ethylbenzene	100-41-4	N.D.	1	0.2	1
10945	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	0.3 J	1	0.2	1
10945	Toluene	108-88-3	N.D.	1	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	8260 BTEX + 5 Oxys	SW-846 8260B	1	F190071AA	01/07/2019 16:31	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F190071AA	01/07/2019 16:30	Alexander D Sechrist	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(212.5) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 01/04/2019 18:13
Collection Date/Time: 12/31/2018 08:35

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9960901
ELLE Group #: 2023535
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10945	Benzene	71-43-2	N.D.	1	0.2	1
10945	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10945	Ethylbenzene	100-41-4	N.D.	1	0.2	1
10945	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	0.2 J	1	0.2	1
10945	Toluene	108-88-3	N.D.	1	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	8260 BTEX + 5 Oxys	SW-846 8260B	1	F190071AA	01/07/2019 16:53	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F190071AA	01/07/2019 16:52	Alexander D Sechrist	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(221) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 01/04/2019 18:13
Collection Date/Time: 12/31/2018 08:40

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9960902
ELLE Group #: 2023535
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10945	Benzene	71-43-2	N.D.	1	0.2	1
10945	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10945	Ethylbenzene	100-41-4	N.D.	1	0.2	1
10945	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	1	1	0.2	1
10945	Toluene	108-88-3	N.D.	1	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	8260 BTEX + 5 Oxys	SW-846 8260B	1	F190071AA	01/07/2019 17:15	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F190071AA	01/07/2019 17:14	Alexander D Sechrist	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(228.5) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 01/04/2019 18:13
Collection Date/Time: 12/31/2018 08:45

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9960903
ELLE Group #: 2023535
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10945	Benzene	71-43-2	0.3 J	1	0.2	1
10945	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10945	Ethylbenzene	100-41-4	N.D.	1	0.2	1
10945	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	1	1	0.2	1
10945	Toluene	108-88-3	N.D.	1	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	8260 BTEX + 5 Oxys	SW-846 8260B	1	F190071AA	01/07/2019 17:37	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F190071AA	01/07/2019 17:36	Alexander D Sechrist	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(239) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 01/04/2019 18:13
Collection Date/Time: 12/31/2018 08:50

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9960904
ELLE Group #: 2023535
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10945	Benzene	71-43-2	0.3 J	1	0.2	1
10945	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10945	Ethylbenzene	100-41-4	N.D.	1	0.2	1
10945	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	1	1	0.2	1
10945	Toluene	108-88-3	N.D.	1	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	8260 BTEX + 5 Oxys	SW-846 8260B	1	F190071AA	01/07/2019 17:59	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F190071AA	01/07/2019 17:58	Alexander D Sechrist	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(279.5) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 01/04/2019 18:13
Collection Date/Time: 12/31/2018 08:55

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9960905
ELLE Group #: 2023535
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10945	Benzene	71-43-2	N.D.	1	0.2	1
10945	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10945	Ethylbenzene	100-41-4	N.D.	1	0.2	1
10945	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	0.9 J	1	0.2	1
10945	Toluene	108-88-3	N.D.	1	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	8260 BTEX + 5 Oxys	SW-846 8260B	1	F190071AA	01/07/2019 18:21	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F190071AA	01/07/2019 18:20	Alexander D Sechrist	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(306.5) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 01/04/2019 18:13
Collection Date/Time: 12/31/2018 09:00

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9960906
ELLE Group #: 2023535
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result		Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.		1	0.3	1
10945	Benzene	71-43-2	0.2	J	1	0.2	1
10945	t-Butyl alcohol	75-65-0	N.D.		25	10	1
10945	Ethyl t-butyl ether	637-92-3	N.D.		1	0.2	1
10945	Ethylbenzene	100-41-4	N.D.		1	0.2	1
10945	di-Isopropyl ether	108-20-3	N.D.		1	0.2	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	0.9	J	1	0.2	1
10945	Toluene	108-88-3	N.D.		1	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.		5	0.5	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	8260 BTEX + 5 Oxys	SW-846 8260B	1	F190071AA	01/07/2019 18:43	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F190071AA	01/07/2019 18:42	Alexander D Sechrist	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(344) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 01/04/2019 18:13
Collection Date/Time: 12/31/2018 09:05

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9960907
ELLE Group #: 2023535
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10945	Benzene	71-43-2	N.D.	1	0.2	1
10945	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10945	Ethylbenzene	100-41-4	N.D.	1	0.2	1
10945	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	0.4 J	1	0.2	1
10945	Toluene	108-88-3	N.D.	1	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	8260 BTEX + 5 Oxys	SW-846 8260B	1	F190071AA	01/07/2019 19:05	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F190071AA	01/07/2019 19:04	Alexander D Sechrist	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(387) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 01/04/2019 18:13
Collection Date/Time: 12/31/2018 09:10

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9960908
ELLE Group #: 2023535
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10945	Benzene	71-43-2	N.D.	1	0.2	1
10945	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10945	Ethylbenzene	100-41-4	N.D.	1	0.2	1
10945	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	0.4 J	1	0.2	1
10945	Toluene	108-88-3	N.D.	1	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	8260 BTEX + 5 Oxys	SW-846 8260B	1	F190071AA	01/07/2019 19:28	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F190071AA	01/07/2019 19:27	Alexander D Sechrist	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(396) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 01/04/2019 18:13
Collection Date/Time: 12/31/2018 09:15

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9960909
ELLE Group #: 2023535
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10945	Benzene	71-43-2	N.D.	1	0.2	1
10945	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10945	Ethylbenzene	100-41-4	N.D.	1	0.2	1
10945	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	0.4 J	1	0.2	1
10945	Toluene	108-88-3	N.D.	1	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	8260 BTEX + 5 Oxys	SW-846 8260B	1	Z190071AA	01/07/2019 20:28	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z190071AA	01/07/2019 20:27	Hu Yang	1

*=This limit was used in the evaluation of the final result

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Quality Control Summary

Client Name: ExxonMobil c/o Kleinfelder
Group Number: 2023535
Reported: 01/08/2019 16:40

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result ug/l	LOQ** ug/l	MDL ug/l
Batch number: F190071AA	Sample number(s): 9960899-9960908		
t-Amyl methyl ether	N.D.	1	0.3
Benzene	N.D.	1	0.2
t-Butyl alcohol	N.D.	25	10
Ethyl t-butyl ether	N.D.	1	0.2
Ethylbenzene	N.D.	1	0.2
di-Isopropyl ether	N.D.	1	0.2
Methyl Tertiary Butyl Ether	N.D.	1	0.2
Toluene	N.D.	1	0.2
Xylene (Total)	N.D.	5	0.5
Batch number: Z190071AA	Sample number(s): 9960909-9960914		
t-Amyl methyl ether	N.D.	1	0.3
Benzene	N.D.	1	0.2
t-Butyl alcohol	N.D.	25	10
Ethyl t-butyl ether	N.D.	1	0.2
Ethylbenzene	N.D.	1	0.2
di-Isopropyl ether	N.D.	1	0.2
Methyl Tertiary Butyl Ether	N.D.	1	0.2
Toluene	N.D.	1	0.2
Xylene (Total)	N.D.	5	0.5

LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: F190071AA	Sample number(s): 9960899-9960908								
t-Amyl methyl ether	20	19.85			99		66-120		
Benzene	20	21.21			106		80-120		
t-Butyl alcohol	200	183.79			92		60-130		
Ethyl t-butyl ether	20	21.17			106		68-121		
Ethylbenzene	20	19.66			98		80-120		
di-Isopropyl ether	20	22.02			110		70-124		
Methyl Tertiary Butyl Ether	20	20.57			103		69-122		
Toluene	20	20.85			104		80-120		
Xylene (Total)	60	58.63			98		80-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: ExxonMobil c/o Kleinfelder
Group Number: 2023535
Reported: 01/08/2019 16:40

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: Z190071AA	Sample number(s): 9960909-9960914								
t-Amyl methyl ether	20	18.24			91		66-120		
Benzene	20	19.25			96		80-120		
t-Butyl alcohol	200	192.3			96		60-130		
Ethyl t-butyl ether	20	19.6			98		68-121		
Ethylbenzene	20	18.74			94		80-120		
di-Isopropyl ether	20	19.85			99		70-124		
Methyl Tertiary Butyl Ether	20	20.81			104		69-122		
Toluene	20	19.03			95		80-120		
Xylene (Total)	60	55.97			93		80-120		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: Z190071AA	Sample number(s): 9960909-9960914 UNSPK: 9960909									
t-Amyl methyl ether	N.D.	20	17.25	20	17.35	86	87	66-120	1	30
Benzene	N.D.	20	19.94	20	19.94	100	100	80-120	0	30
t-Butyl alcohol	N.D.	200	181.72	200	182.26	91	91	60-130	0	30
Ethyl t-butyl ether	N.D.	20	18.98	20	19.34	95	97	68-121	2	30
Ethylbenzene	N.D.	20	19.14	20	19.43	96	97	80-120	2	30
di-Isopropyl ether	N.D.	20	19.45	20	19.7	97	98	70-124	1	30
Methyl Tertiary Butyl Ether	0.417	20	20.58	20	20.69	101	101	69-122	1	30
Toluene	N.D.	20	19.8	20	20.06	99	100	80-120	1	30
Xylene (Total)	N.D.	60	58.49	60	59.05	97	98	80-120	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ExxonMobil c/o Kleinfelder
Reported: 01/08/2019 16:40

Group Number: 2023535

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260 BTEX + 5 Oxys
Batch number: F190071AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9960899	93	99	99	101
9960900	93	95	100	100
9960901	92	98	101	99
9960902	93	96	100	99
9960903	92	96	101	101
9960904	91	97	100	101
9960905	91	97	100	101
9960906	91	98	99	99
9960907	90	98	99	100
9960908	91	98	99	101
Blank	94	98	100	98
LCS	92	99	101	101
Limits:	80-120	80-120	80-120	80-120

Analysis Name: 8260 BTEX + 5 Oxys
Batch number: Z190071AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9960909	118	101	98	93
9960910	112	97	98	92
9960911	116	102	98	93
9960912	115	101	98	93
9960913	112	99	100	100
9960914	114	101	98	93
Blank	114	99	99	93
LCS	110	102	99	102
MS	112	99	98	102
MSD	112	101	98	101
Limits:	80-120	80-120	80-120	80-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13459 2023535 9960899-914

CHAIN OF CUSTODY- ExxonMobil Projects

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Lancaster Laboratories

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17605
TEL. 717-656-2300
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FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job #

Client / Reporting Information

Company Name: Kleinfelder
Street Address: 1340 Charwood Road Ste. 1
City: Hanover, MD State: Zip: 21076
Project Contact: Stacey Schiding E-mail:
Phone #: 410-850-0404 Fax #:
Sampler(s) Name(s): Charlie Brehm Phone #:

SITE NAME - Provide Site Name for Retail or AFE Number for Major Projects

Retail Project (Site Name): Exxon - Phoenix
Major Project (AFE): 28077
Project Name: 14258 Jarrettsville Pike
City: Phoenix State: MD
ExxonMobil Manager: Jamila Chillemi
ExxonMobil Purchase Order #:

ExxonMobil Environmental Services Co.
If Project is Direct Bill to Consultant
Company Name:
Street Address:
City State Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	MTBE, BTEX, ETBE, TAME, DIPE, TBA by 8260B	Full List VOCs +Oxy5 by 8260	LAB USE ONLY
	MW-188D(141.5)		12/31/18	0825	CB	GW	3	X								X		
	MW-188D(201)		12/31/18	0830	CB	GW	3	X								X		
	MW-188D(212.5)		12/31/18	0835	CB	GW	3	X								X		
	MW-188D(221)		12/31/18	0840	CB	GW	3	X								X		
	MW-188D(228.5)		12/31/18	0845	CB	GW	3	X								X		
	MW-188D(239)		12/31/18	0850	CB	GW	3	X								X		
	MW-188D(279.5)		12/31/18	0855	CB	GW	3	X								X		
	MW-188D(306.5)		12/31/18	0900	CB	GW	3	X								X		
	MW-188D(344)		12/31/18	0905	CB	GW	3	X								X		
	MW-188D(387)		12/31/18	0910	CB	GW	3	X								X		
	MW-188D(396)		12/31/18	0915	CB	GW	3	X								X		
	MW-187C		12/31/18	1450	CB	GW	3	X								X		
	TB18312		11/12/18	—	AV	TB	2	X								X		

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] 8 Day *RUSH*
- [ ] 5 Day *RUSH*
- [x] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [x] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		11/7/19 16:20			11/1/19 18:13	
2						
3						
4						
5						

Custody Seal #: [ ] Intact [ ] Not intact
Preserved where applicable: [ ]
On Ice: [x]
Cooler Temp: 7.0°C

3mm 13454 (struck through) 13459 2023535 9960899-914
238 1/5/19

CHAIN OF CUSTODY- ExxonMobil Projects

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Lancaster Laboratories

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FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job #

Client / Reporting Information

- Company Name: Kleinfelder
- Street Address: 1340 Charwood Road Ste. 1
- City: Hanover, MD | State | Zip: 21076
- Project Contact: Stacey Schiding | E-mail:
- Phone #: 410-850-0404 | Fax #:
- Sampler(s) Name(s): Charlie Brehm | Phone #:

SITE NAME - Provide Site Name for Retail or AFE Number for Major Projects

- Retail Project (Site Name): Exxon - Phoenix
- Major Project (AFE): 28077
- Project Name: 14258 Jarrettsville Pike
- City: Phoenix | State: MD
- ExxonMobil Manager: Jamila Chillemi
- ExxonMobil Purchase Order #:

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
- Company Name:
- Street Address:
- City | State | Zip
- Attention: | PO#

Requested Analysis (see TEST CODE sheet): MTBE, BTEX, ETBE, TAME, DIPE, TBA by 8260B; Full List VOCs +Oxy5 by 8260

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	MTBE, BTEX, ETBE, TAME, DIPE, TBA by 8260B	Full List VOCs +Oxy5 by 8260	LAB USE ONLY
	MW-27B		12/31/18	1245	CB	GW	3	X								X		
	MW-187A		12/31/18	1440	CB	GW	3	X								X		
	MW-187B		12/31/18	1450	CB	GW	3	X								X		

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

- [ ] Std. 10 Business Days
- [ ] 8 Day *RUSH*
- [ ] ~~5 Day *RUSH*~~
- [x] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [x] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format ________
- [ ] Other ________

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	1/4/19 16:20	1 [signature] 1/4/19 16:20	2 [signature] 1/4/19	18:13	2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5 [signature] 1-4-19 1813	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐

On Ice ☑ Cooler Temp. 1.0°C

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Sample Administration Receipt Documentation Log

Doc Log ID: 237712

Group Number(s): 2023535

Client: Kleinfelder

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	01/04/2019 18:13
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	MD		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	No
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	2
Samples Intact:	Yes	Trip Blank Type:	HCl
Missing Samples:	No	Air Quality Samples Present:	No
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Melvin Sanchez (8943) at 19:01 on 01/04/2019

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT42-02	1.0	DT	Wet	Y	Loose/Bag	N

Sample Date/Time Discrepancy Details

Sample ID on COC	Date/Time on Label	Comments
MW-187A	12/31/2019 14:30	
MW-187B	12/31/2019 14:40	

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Lancaster, PA 17605-2425

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F | 717-656-2681
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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mL**	milliliter(s)
C	degrees Celsius	**MPN**	Most Probable Number
cfu	colony forming units	**N.D.**	non-detect
CP Units	cobalt-chloroplatinate units	**ng**	nanogram(s)
F	degrees Fahrenheit	**NTU**	nephelometric turbidity units
g	gram(s)	**pg/L**	picogram/liter
IU	International Units	**RL**	Reporting Limit
kg	kilogram(s)	**TNTC**	Too Numerous To Count
L	liter(s)	**µg**	microgram(s)
lb.	pound(s)	**µL**	microliter(s)
m3	cubic meter(s)	**umhos/cm**	micromhos/cm
meq	milliequivalents	**MCL**	Maximum Contamination Limit
mg	milligram(s)		

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
P^	Concentration difference between the primary and confirmation column > 40%. The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

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ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

ExxonMobil c/o Kleinfelder
550 West C Street
Suite 1200
San Diego CA 92101

Report Date: February 21, 2019 18:55

Project: 2-8077 - Phoenix, MD (GW)

Account #: 13459
Group Number: 2027685
PO Number: 51141-335196
Release Number: CHILLEMI
State of Sample Origin: MD

Electronic Copy To	Kleinfelder	Attn: Mark Schaaf
Electronic Copy To	Kleinfelder, MD	Attn: Stacey Schiding
Electronic Copy To	Kleinfelder, MD	Attn: Jen Kozak
Electronic Copy To	Kleinfelder, MD	Attn: Charlie Brehm
Electronic Copy To	Kleinfelder, MD	Attn: Charlie Low
Electronic Copy To	Kleinfelder, MD	Attn: Brendan Haffey

Respectfully Submitted,

Megan A. Moeller
Senior Specialist

(717) 556-7261

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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
MW-73C (HS-S) Groundwater	01/31/2019 09:00	9978903
MW-73C (HS-D) Groundwater	01/31/2019 09:10	9978904
MW-73 Groundwater	01/31/2019 09:30	9978905
MW-58 Groundwater	01/31/2019 10:00	9978906
MW-58R Groundwater	01/31/2019 10:20	9978907
MW-58P Groundwater	01/31/2019 10:40	9978908
MW-178A Groundwater	01/31/2019 11:00	9978909
MW-180A Groundwater	01/31/2019 11:30	9978910
MW-179A Groundwater	01/31/2019 11:50	9978911
MW-82 Groundwater	01/31/2019 12:15	9978912
TB19025 Water	01/28/2019	9978913
MW-188D(141.5) Groundwater	01/31/2019 13:30	9978914
MW-188D(201) Groundwater	01/31/2019 13:35	9978915
MW-188D(212.5) Groundwater	01/31/2019 13:40	9978916
MW-188D(228.5) Groundwater	01/31/2019 13:50	9978917
MW-188D(239) Groundwater	01/31/2019 13:55	9978918
MW-188D(279.5) Groundwater	01/31/2019 14:00	9978919
MW-188D(306.5) Groundwater	01/31/2019 14:05	9978920
MW-188D(344) Groundwater	01/31/2019 14:10	9978921
MW-188D(387) Groundwater	01/31/2019 14:15	9978922
MW-188D(396) Groundwater	01/31/2019 14:20	9978923
MW-152 Groundwater	02/01/2019 11:45	9978924
SVE-2 Groundwater	02/01/2019 13:15	9978925
SVE-3 Groundwater	02/01/2019 14:00	9978926
MW-188D(221) Groundwater	01/31/2019 13:45	9978927

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Sample Description: **MW-188D(141.5) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 02/01/2019 18:32
Collection Date/Time: 01/31/2019 13:30

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9978914
ELLE Group #: 2027685
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	20	0.8	1
10335	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10335	Benzene	71-43-2	N.D.	1	0.2	1
10335	Bromobenzene	108-86-1	N.D.	5	0.2	1
10335	Bromochloromethane	74-97-5	N.D.	5	0.4	1
10335	Bromodichloromethane	75-27-4	N.D.	1	0.2	1
10335	Bromoform	75-25-2	N.D.	5	2	1
10335	Bromomethane	74-83-9	N.D.	1	0.5	1
10335	2-Butanone	78-93-3	N.D.	10	1	1
10335	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10335	n-Butylbenzene	104-51-8	N.D.	5	0.9	1
10335	sec-Butylbenzene	135-98-8	N.D.	5	0.2	1
10335	tert-Butylbenzene	98-06-6	N.D.	5	0.2	1
10335	Carbon Disulfide	75-15-0	N.D.	5	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	1	0.2	1
10335	Chloroethane	75-00-3	N.D.	1	0.3	1
10335	Chloroform	67-66-3	N.D.	1	0.2	1
10335	Chloromethane	74-87-3	N.D.	1	0.3	1
10335	2-Chlorotoluene	95-49-8	N.D.	5	0.2	1
10335	4-Chlorotoluene	106-43-4	N.D.	5	0.2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	5	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	1	0.3	1
10335	Dibromomethane	74-95-3	N.D.	1	0.2	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	5	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	5	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	5	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	1	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	5	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	1	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	0.2	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	0.2	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	0.2	1
10335	1,1-Dichloropropene	563-58-6	N.D.	5	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.2	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10335	Ethylbenzene	100-41-4	N.D.	1	0.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(141.5) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 02/01/2019 18:32
Collection Date/Time: 01/31/2019 13:30

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9978914
ELLE Group #: 2027685
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10335	Hexachlorobutadiene	87-68-3	N.D.	5	2	1
10335	n-Hexane	110-54-3	N.D.	5	1	1
10335	2-Hexanone	591-78-6	N.D.	10	3	1
10335	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10335	Isopropylbenzene	98-82-8	N.D.	5	0.3	1
10335	p-Isopropyltoluene	99-87-6	N.D.	5	0.2	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	1	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	10	0.5	1
10335	Methylene Chloride	75-09-2	N.D.	1	0.2	1
10335	Naphthalene	91-20-3	N.D.	10	4	1
10335	n-Propylbenzene	103-65-1	N.D.	5	0.2	1
10335	Styrene	100-42-5	N.D.	5	0.2	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.4	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	1	0.2	1
10335	Toluene	108-88-3	N.D.	1	0.2	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	10	3	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	5	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.2	1
10335	Trichloroethene	79-01-6	N.D.	1	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	1	0.4	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	5	0.2	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	5	0.3	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	5	0.3	1
10335	Vinyl Chloride	75-01-4	N.D.	1	0.4	1
10335	m+p-Xylene	179601-23-1	N.D.	2	0.5	1
10335	o-Xylene	95-47-6	N.D.	1	0.3	1
10335	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	Full list + oxys + hexane	SW-846 8260B	1	Y190421AA	02/11/2019 17:16	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y190421AA	02/11/2019 17:15	Kevin A Sposito	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(201) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 02/01/2019 18:32
Collection Date/Time: 01/31/2019 13:35

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9978915
ELLE Group #: 2027685
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	20	0.8	1
10335	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10335	Benzene	71-43-2	N.D.	1	0.2	1
10335	Bromobenzene	108-86-1	N.D.	5	0.2	1
10335	Bromochloromethane	74-97-5	N.D.	5	0.4	1
10335	Bromodichloromethane	75-27-4	N.D.	1	0.2	1
10335	Bromoform	75-25-2	N.D.	5	2	1
10335	Bromomethane	74-83-9	N.D.	1	0.5	1
10335	2-Butanone	78-93-3	N.D.	10	1	1
10335	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10335	n-Butylbenzene	104-51-8	N.D.	5	0.9	1
10335	sec-Butylbenzene	135-98-8	N.D.	5	0.2	1
10335	tert-Butylbenzene	98-06-6	N.D.	5	0.2	1
10335	Carbon Disulfide	75-15-0	N.D.	5	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	1	0.2	1
10335	Chloroethane	75-00-3	N.D.	1	0.3	1
10335	Chloroform	67-66-3	N.D.	1	0.2	1
10335	Chloromethane	74-87-3	N.D.	1	0.3	1
10335	2-Chlorotoluene	95-49-8	N.D.	5	0.2	1
10335	4-Chlorotoluene	106-43-4	N.D.	5	0.2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	5	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	1	0.3	1
10335	Dibromomethane	74-95-3	N.D.	1	0.2	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	5	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	5	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	5	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	1	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	5	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	1	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	0.2	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	0.2	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	0.2	1
10335	1,1-Dichloropropene	563-58-6	N.D.	5	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.2	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10335	Ethylbenzene	100-41-4	N.D.	1	0.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(201) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 02/01/2019 18:32
Collection Date/Time: 01/31/2019 13:35

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9978915
ELLE Group #: 2027685
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10335	Hexachlorobutadiene	87-68-3	N.D.	5	2	1
10335	n-Hexane	110-54-3	N.D.	5	1	1
10335	2-Hexanone	591-78-6	N.D.	10	3	1
10335	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10335	Isopropylbenzene	98-82-8	N.D.	5	0.3	1
10335	p-Isopropyltoluene	99-87-6	N.D.	5	0.2	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	1	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	10	0.5	1
10335	Methylene Chloride	75-09-2	N.D.	1	0.2	1
10335	Naphthalene	91-20-3	N.D.	10	4	1
10335	n-Propylbenzene	103-65-1	N.D.	5	0.2	1
10335	Styrene	100-42-5	N.D.	5	0.2	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.4	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	1	0.2	1
10335	Toluene	108-88-3	N.D.	1	0.2	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	10	3	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	5	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.2	1
10335	Trichloroethene	79-01-6	N.D.	1	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	1	0.4	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	5	0.2	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	5	0.3	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	5	0.3	1
10335	Vinyl Chloride	75-01-4	N.D.	1	0.4	1
10335	m+p-Xylene	179601-23-1	N.D.	2	0.5	1
10335	o-Xylene	95-47-6	N.D.	1	0.3	1
10335	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	Full list + oxys + hexane	SW-846 8260B	1	Y190421AA	02/11/2019 17:38	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y190421AA	02/11/2019 17:37	Kevin A Sposito	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(212.5) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 02/01/2019 18:32
Collection Date/Time: 01/31/2019 13:40

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9978916
ELLE Group #: 2027685
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	20	0.8	1
10335	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10335	Benzene	71-43-2	N.D.	1	0.2	1
10335	Bromobenzene	108-86-1	N.D.	5	0.2	1
10335	Bromochloromethane	74-97-5	N.D.	5	0.4	1
10335	Bromodichloromethane	75-27-4	N.D.	1	0.2	1
10335	Bromoform	75-25-2	N.D.	5	2	1
10335	Bromomethane	74-83-9	N.D.	1	0.5	1
10335	2-Butanone	78-93-3	N.D.	10	1	1
10335	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10335	n-Butylbenzene	104-51-8	N.D.	5	0.9	1
10335	sec-Butylbenzene	135-98-8	N.D.	5	0.2	1
10335	tert-Butylbenzene	98-06-6	N.D.	5	0.2	1
10335	Carbon Disulfide	75-15-0	N.D.	5	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	1	0.2	1
10335	Chloroethane	75-00-3	N.D.	1	0.3	1
10335	Chloroform	67-66-3	N.D.	1	0.2	1
10335	Chloromethane	74-87-3	N.D.	1	0.3	1
10335	2-Chlorotoluene	95-49-8	N.D.	5	0.2	1
10335	4-Chlorotoluene	106-43-4	N.D.	5	0.2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	5	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	1	0.3	1
10335	Dibromomethane	74-95-3	N.D.	1	0.2	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	5	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	5	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	5	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	1	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	5	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	1	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	0.2	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	0.2	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	0.2	1
10335	1,1-Dichloropropene	563-58-6	N.D.	5	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.2	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10335	Ethylbenzene	100-41-4	N.D.	1	0.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(212.5) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 02/01/2019 18:32
Collection Date/Time: 01/31/2019 13:40

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9978916
ELLE Group #: 2027685
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10335	Hexachlorobutadiene	87-68-3	N.D.	5	2	1
10335	n-Hexane	110-54-3	N.D.	5	1	1
10335	2-Hexanone	591-78-6	N.D.	10	3	1
10335	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10335	Isopropylbenzene	98-82-8	N.D.	5	0.3	1
10335	p-Isopropyltoluene	99-87-6	N.D.	5	0.2	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	1	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	10	0.5	1
10335	Methylene Chloride	75-09-2	N.D.	1	0.2	1
10335	Naphthalene	91-20-3	N.D.	10	4	1
10335	n-Propylbenzene	103-65-1	N.D.	5	0.2	1
10335	Styrene	100-42-5	N.D.	5	0.2	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.4	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	1	0.2	1
10335	Toluene	108-88-3	N.D.	1	0.2	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	10	3	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	5	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.2	1
10335	Trichloroethene	79-01-6	N.D.	1	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	1	0.4	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	5	0.2	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	5	0.3	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	5	0.3	1
10335	Vinyl Chloride	75-01-4	N.D.	1	0.4	1
10335	m+p-Xylene	179601-23-1	N.D.	2	0.5	1
10335	o-Xylene	95-47-6	N.D.	1	0.3	1
10335	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	Full list + oxys + hexane	SW-846 8260B	1	Y190421AA	02/11/2019 18:00	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y190421AA	02/11/2019 17:59	Kevin A Sposito	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(228.5) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 02/01/2019 18:32
Collection Date/Time: 01/31/2019 13:50

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9978917
ELLE Group #: 2027685
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	20	0.8	1
10335	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10335	Benzene	71-43-2	N.D.	1	0.2	1
10335	Bromobenzene	108-86-1	N.D.	5	0.2	1
10335	Bromochloromethane	74-97-5	N.D.	5	0.4	1
10335	Bromodichloromethane	75-27-4	N.D.	1	0.2	1
10335	Bromoform	75-25-2	N.D.	5	2	1
10335	Bromomethane	74-83-9	N.D.	1	0.5	1
10335	2-Butanone	78-93-3	N.D.	10	1	1
10335	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10335	n-Butylbenzene	104-51-8	N.D.	5	0.9	1
10335	sec-Butylbenzene	135-98-8	N.D.	5	0.2	1
10335	tert-Butylbenzene	98-06-6	N.D.	5	0.2	1
10335	Carbon Disulfide	75-15-0	N.D.	5	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	1	0.2	1
10335	Chloroethane	75-00-3	N.D.	1	0.3	1
10335	Chloroform	67-66-3	N.D.	1	0.2	1
10335	Chloromethane	74-87-3	N.D.	1	0.3	1
10335	2-Chlorotoluene	95-49-8	N.D.	5	0.2	1
10335	4-Chlorotoluene	106-43-4	N.D.	5	0.2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	5	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	1	0.3	1
10335	Dibromomethane	74-95-3	N.D.	1	0.2	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	5	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	5	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	5	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	1	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	5	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	1	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	0.2	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	0.2	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	0.2	1
10335	1,1-Dichloropropene	563-58-6	N.D.	5	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.2	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10335	Ethylbenzene	100-41-4	N.D.	1	0.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(228.5) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 02/01/2019 18:32
Collection Date/Time: 01/31/2019 13:50

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9978917
ELLE Group #: 2027685
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10335	Hexachlorobutadiene	87-68-3	N.D.	5	2	1
10335	n-Hexane	110-54-3	N.D.	5	1	1
10335	2-Hexanone	591-78-6	N.D.	10	3	1
10335	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10335	Isopropylbenzene	98-82-8	N.D.	5	0.3	1
10335	p-Isopropyltoluene	99-87-6	N.D.	5	0.2	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	1	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	10	0.5	1
10335	Methylene Chloride	75-09-2	N.D.	1	0.2	1
10335	Naphthalene	91-20-3	N.D.	10	4	1
10335	n-Propylbenzene	103-65-1	N.D.	5	0.2	1
10335	Styrene	100-42-5	N.D.	5	0.2	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.4	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	1	0.2	1
10335	Toluene	108-88-3	N.D.	1	0.2	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	10	3	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	5	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.2	1
10335	Trichloroethene	79-01-6	N.D.	1	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	1	0.4	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	5	0.2	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	5	0.3	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	5	0.3	1
10335	Vinyl Chloride	75-01-4	N.D.	1	0.4	1
10335	m+p-Xylene	179601-23-1	N.D.	2	0.5	1
10335	o-Xylene	95-47-6	N.D.	1	0.3	1
10335	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	Full list + oxys + hexane	SW-846 8260B	1	Y190421AA	02/11/2019 18:22	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y190421AA	02/11/2019 18:21	Kevin A Sposito	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(239) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 02/01/2019 18:32
Collection Date/Time: 01/31/2019 13:55

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9978918
ELLE Group #: 2027685
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	20	0.8	1
10335	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10335	Benzene	71-43-2	N.D.	1	0.2	1
10335	Bromobenzene	108-86-1	N.D.	5	0.2	1
10335	Bromochloromethane	74-97-5	N.D.	5	0.4	1
10335	Bromodichloromethane	75-27-4	N.D.	1	0.2	1
10335	Bromoform	75-25-2	N.D.	5	2	1
10335	Bromomethane	74-83-9	N.D.	1	0.5	1
10335	2-Butanone	78-93-3	N.D.	10	1	1
10335	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10335	n-Butylbenzene	104-51-8	N.D.	5	0.9	1
10335	sec-Butylbenzene	135-98-8	N.D.	5	0.2	1
10335	tert-Butylbenzene	98-06-6	N.D.	5	0.2	1
10335	Carbon Disulfide	75-15-0	N.D.	5	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	1	0.2	1
10335	Chloroethane	75-00-3	N.D.	1	0.3	1
10335	Chloroform	67-66-3	N.D.	1	0.2	1
10335	Chloromethane	74-87-3	N.D.	1	0.3	1
10335	2-Chlorotoluene	95-49-8	N.D.	5	0.2	1
10335	4-Chlorotoluene	106-43-4	N.D.	5	0.2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	5	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	1	0.3	1
10335	Dibromomethane	74-95-3	N.D.	1	0.2	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	5	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	5	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	5	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	1	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	5	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	1	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	0.2	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	0.2	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	0.2	1
10335	1,1-Dichloropropene	563-58-6	N.D.	5	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.2	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10335	Ethylbenzene	100-41-4	N.D.	1	0.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(239) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 02/01/2019 18:32
Collection Date/Time: 01/31/2019 13:55

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9978918
ELLE Group #: 2027685
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10335	Hexachlorobutadiene	87-68-3	N.D.	5	2	1
10335	n-Hexane	110-54-3	N.D.	5	1	1
10335	2-Hexanone	591-78-6	N.D.	10	3	1
10335	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10335	Isopropylbenzene	98-82-8	N.D.	5	0.3	1
10335	p-Isopropyltoluene	99-87-6	N.D.	5	0.2	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	1	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	10	0.5	1
10335	Methylene Chloride	75-09-2	N.D.	1	0.2	1
10335	Naphthalene	91-20-3	N.D.	10	4	1
10335	n-Propylbenzene	103-65-1	N.D.	5	0.2	1
10335	Styrene	100-42-5	N.D.	5	0.2	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.4	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	1	0.2	1
10335	Toluene	108-88-3	N.D.	1	0.2	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	10	3	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	5	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.2	1
10335	Trichloroethene	79-01-6	N.D.	1	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	1	0.4	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	5	0.2	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	5	0.3	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	5	0.3	1
10335	Vinyl Chloride	75-01-4	N.D.	1	0.4	1
10335	m+p-Xylene	179601-23-1	N.D.	2	0.5	1
10335	o-Xylene	95-47-6	N.D.	1	0.3	1
10335	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	Full list + oxys + hexane	SW-846 8260B	1	N190431AA	02/12/2019 19:38	Kevin D Kelly	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N190431AA	02/12/2019 19:37	Kevin D Kelly	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(279.5) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 02/01/2019 18:32
Collection Date/Time: 01/31/2019 14:00

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9978919
ELLE Group #: 2027685
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	20	0.8	1
10335	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10335	Benzene	71-43-2	N.D.	1	0.2	1
10335	Bromobenzene	108-86-1	N.D.	5	0.2	1
10335	Bromochloromethane	74-97-5	N.D.	5	0.4	1
10335	Bromodichloromethane	75-27-4	N.D.	1	0.2	1
10335	Bromoform	75-25-2	N.D.	5	2	1
10335	Bromomethane	74-83-9	N.D.	1	0.5	1
10335	2-Butanone	78-93-3	N.D.	10	1	1
10335	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10335	n-Butylbenzene	104-51-8	N.D.	5	0.9	1
10335	sec-Butylbenzene	135-98-8	N.D.	5	0.2	1
10335	tert-Butylbenzene	98-06-6	N.D.	5	0.2	1
10335	Carbon Disulfide	75-15-0	N.D.	5	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	1	0.2	1
10335	Chloroethane	75-00-3	N.D.	1	0.3	1
10335	Chloroform	67-66-3	N.D.	1	0.2	1
10335	Chloromethane	74-87-3	N.D.	1	0.3	1
10335	2-Chlorotoluene	95-49-8	N.D.	5	0.2	1
10335	4-Chlorotoluene	106-43-4	N.D.	5	0.2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	5	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	1	0.3	1
10335	Dibromomethane	74-95-3	N.D.	1	0.2	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	5	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	5	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	5	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	1	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	5	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	1	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	0.2	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	0.2	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	0.2	1
10335	1,1-Dichloropropene	563-58-6	N.D.	5	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.2	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10335	Ethylbenzene	100-41-4	N.D.	1	0.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(279.5) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 02/01/2019 18:32
Collection Date/Time: 01/31/2019 14:00

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9978919
ELLE Group #: 2027685
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10335	Hexachlorobutadiene	87-68-3	N.D.	5	2	1
10335	n-Hexane	110-54-3	N.D.	5	1	1
10335	2-Hexanone	591-78-6	N.D.	10	3	1
10335	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10335	Isopropylbenzene	98-82-8	N.D.	5	0.3	1
10335	p-Isopropyltoluene	99-87-6	N.D.	5	0.2	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	0.4 J	1	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	10	0.5	1
10335	Methylene Chloride	75-09-2	N.D.	1	0.2	1
10335	Naphthalene	91-20-3	N.D.	10	4	1
10335	n-Propylbenzene	103-65-1	N.D.	5	0.2	1
10335	Styrene	100-42-5	N.D.	5	0.2	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.4	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	1	0.2	1
10335	Toluene	108-88-3	N.D.	1	0.2	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	10	3	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	5	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.2	1
10335	Trichloroethene	79-01-6	N.D.	1	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	1	0.4	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	5	0.2	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	5	0.3	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	5	0.3	1
10335	Vinyl Chloride	75-01-4	N.D.	1	0.4	1
10335	m+p-Xylene	179601-23-1	N.D.	2	0.5	1
10335	o-Xylene	95-47-6	N.D.	1	0.3	1
10335	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	Full list + oxys + hexane	SW-846 8260B	1	N190431AA	02/12/2019 20:02	Kevin D Kelly	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N190431AA	02/12/2019 20:01	Kevin D Kelly	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(306.5) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 02/01/2019 18:32
Collection Date/Time: 01/31/2019 14:05

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9978920
ELLE Group #: 2027685
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	20	0.8	1
10335	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10335	Benzene	71-43-2	N.D.	1	0.2	1
10335	Bromobenzene	108-86-1	N.D.	5	0.2	1
10335	Bromochloromethane	74-97-5	N.D.	5	0.4	1
10335	Bromodichloromethane	75-27-4	N.D.	1	0.2	1
10335	Bromoform	75-25-2	N.D.	5	2	1
10335	Bromomethane	74-83-9	N.D.	1	0.5	1
10335	2-Butanone	78-93-3	N.D.	10	1	1
10335	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10335	n-Butylbenzene	104-51-8	N.D.	5	0.9	1
10335	sec-Butylbenzene	135-98-8	N.D.	5	0.2	1
10335	tert-Butylbenzene	98-06-6	N.D.	5	0.2	1
10335	Carbon Disulfide	75-15-0	N.D.	5	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	1	0.2	1
10335	Chloroethane	75-00-3	N.D.	1	0.3	1
10335	Chloroform	67-66-3	N.D.	1	0.2	1
10335	Chloromethane	74-87-3	N.D.	1	0.3	1
10335	2-Chlorotoluene	95-49-8	N.D.	5	0.2	1
10335	4-Chlorotoluene	106-43-4	N.D.	5	0.2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	5	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	1	0.3	1
10335	Dibromomethane	74-95-3	N.D.	1	0.2	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	5	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	5	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	5	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	1	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	5	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	1	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	0.2	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	0.2	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	0.2	1
10335	1,1-Dichloropropene	563-58-6	N.D.	5	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.2	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10335	Ethylbenzene	100-41-4	N.D.	1	0.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(306.5) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 02/01/2019 18:32
Collection Date/Time: 01/31/2019 14:05

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9978920
ELLE Group #: 2027685
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10335	Hexachlorobutadiene	87-68-3	N.D.	5	2	1
10335	n-Hexane	110-54-3	N.D.	5	1	1
10335	2-Hexanone	591-78-6	N.D.	10	3	1
10335	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10335	Isopropylbenzene	98-82-8	N.D.	5	0.3	1
10335	p-Isopropyltoluene	99-87-6	N.D.	5	0.2	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	0.9 J	1	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	10	0.5	1
10335	Methylene Chloride	75-09-2	N.D.	1	0.2	1
10335	Naphthalene	91-20-3	N.D.	10	4	1
10335	n-Propylbenzene	103-65-1	N.D.	5	0.2	1
10335	Styrene	100-42-5	N.D.	5	0.2	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.4	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	1	0.2	1
10335	Toluene	108-88-3	N.D.	1	0.2	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	10	3	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	5	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.2	1
10335	Trichloroethene	79-01-6	N.D.	1	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	1	0.4	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	5	0.2	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	5	0.3	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	5	0.3	1
10335	Vinyl Chloride	75-01-4	N.D.	1	0.4	1
10335	m+p-Xylene	179601-23-1	N.D.	2	0.5	1
10335	o-Xylene	95-47-6	N.D.	1	0.3	1
10335	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	Full list + oxys + hexane	SW-846 8260B	1	N190431AA	02/12/2019 20:26	Kevin D Kelly	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N190431AA	02/12/2019 20:25	Kevin D Kelly	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(344) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 02/01/2019 18:32
Collection Date/Time: 01/31/2019 14:10

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9978921
ELLE Group #: 2027685
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	20	0.8	1
10335	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10335	Benzene	71-43-2	N.D.	1	0.2	1
10335	Bromobenzene	108-86-1	N.D.	5	0.2	1
10335	Bromochloromethane	74-97-5	N.D.	5	0.4	1
10335	Bromodichloromethane	75-27-4	N.D.	1	0.2	1
10335	Bromoform	75-25-2	N.D.	5	2	1
10335	Bromomethane	74-83-9	N.D.	1	0.5	1
10335	2-Butanone	78-93-3	N.D.	10	1	1
10335	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10335	n-Butylbenzene	104-51-8	N.D.	5	0.9	1
10335	sec-Butylbenzene	135-98-8	N.D.	5	0.2	1
10335	tert-Butylbenzene	98-06-6	N.D.	5	0.2	1
10335	Carbon Disulfide	75-15-0	N.D.	5	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	1	0.2	1
10335	Chloroethane	75-00-3	N.D.	1	0.3	1
10335	Chloroform	67-66-3	N.D.	1	0.2	1
10335	Chloromethane	74-87-3	N.D.	1	0.3	1
10335	2-Chlorotoluene	95-49-8	N.D.	5	0.2	1
10335	4-Chlorotoluene	106-43-4	N.D.	5	0.2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	5	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	1	0.3	1
10335	Dibromomethane	74-95-3	N.D.	1	0.2	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	5	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	5	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	5	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	1	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	5	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	1	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	0.2	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	0.2	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	0.2	1
10335	1,1-Dichloropropene	563-58-6	N.D.	5	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.2	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10335	Ethylbenzene	100-41-4	N.D.	1	0.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(344) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 02/01/2019 18:32
Collection Date/Time: 01/31/2019 14:10

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9978921
ELLE Group #: 2027685
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10335	Hexachlorobutadiene	87-68-3	N.D.	5	2	1
10335	n-Hexane	110-54-3	N.D.	5	1	1
10335	2-Hexanone	591-78-6	N.D.	10	3	1
10335	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10335	Isopropylbenzene	98-82-8	N.D.	5	0.3	1
10335	p-Isopropyltoluene	99-87-6	N.D.	5	0.2	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	1 J	1	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	10	0.5	1
10335	Methylene Chloride	75-09-2	N.D.	1	0.2	1
10335	Naphthalene	91-20-3	N.D.	10	4	1
10335	n-Propylbenzene	103-65-1	N.D.	5	0.2	1
10335	Styrene	100-42-5	N.D.	5	0.2	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.4	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	1	0.2	1
10335	Toluene	108-88-3	N.D.	1	0.2	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	10	3	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	5	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.2	1
10335	Trichloroethene	79-01-6	N.D.	1	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	1	0.4	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	5	0.2	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	5	0.3	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	5	0.3	1
10335	Vinyl Chloride	75-01-4	N.D.	1	0.4	1
10335	m+p-Xylene	179601-23-1	N.D.	2	0.5	1
10335	o-Xylene	95-47-6	N.D.	1	0.3	1
10335	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	Full list + oxys + hexane	SW-846 8260B	1	N190431AA	02/12/2019 20:52	Kevin D Kelly	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N190431AA	02/12/2019 20:51	Kevin D Kelly	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(387) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 02/01/2019 18:32
Collection Date/Time: 01/31/2019 14:15

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9978922
ELLE Group #: 2027685
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	20	0.8	1
10335	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10335	Benzene	71-43-2	N.D.	1	0.2	1
10335	Bromobenzene	108-86-1	N.D.	5	0.2	1
10335	Bromochloromethane	74-97-5	N.D.	5	0.4	1
10335	Bromodichloromethane	75-27-4	N.D.	1	0.2	1
10335	Bromoform	75-25-2	N.D.	5	2	1
10335	Bromomethane	74-83-9	N.D.	1	0.5	1
10335	2-Butanone	78-93-3	N.D.	10	1	1
10335	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10335	n-Butylbenzene	104-51-8	N.D.	5	0.9	1
10335	sec-Butylbenzene	135-98-8	N.D.	5	0.2	1
10335	tert-Butylbenzene	98-06-6	N.D.	5	0.2	1
10335	Carbon Disulfide	75-15-0	N.D.	5	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	1	0.2	1
10335	Chloroethane	75-00-3	N.D.	1	0.3	1
10335	Chloroform	67-66-3	N.D.	1	0.2	1
10335	Chloromethane	74-87-3	N.D.	1	0.3	1
10335	2-Chlorotoluene	95-49-8	N.D.	5	0.2	1
10335	4-Chlorotoluene	106-43-4	N.D.	5	0.2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	5	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	1	0.3	1
10335	Dibromomethane	74-95-3	N.D.	1	0.2	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	5	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	5	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	5	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	1	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	5	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	1	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	0.2	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	0.2	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	0.2	1
10335	1,1-Dichloropropene	563-58-6	N.D.	5	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.2	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10335	Ethylbenzene	100-41-4	N.D.	1	0.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(387) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 02/01/2019 18:32
Collection Date/Time: 01/31/2019 14:15

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9978922
ELLE Group #: 2027685
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10335	Hexachlorobutadiene	87-68-3	N.D.	5	2	1
10335	n-Hexane	110-54-3	N.D.	5	1	1
10335	2-Hexanone	591-78-6	N.D.	10	3	1
10335	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10335	Isopropylbenzene	98-82-8	N.D.	5	0.3	1
10335	p-Isopropyltoluene	99-87-6	N.D.	5	0.2	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	0.9 J	1	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	10	0.5	1
10335	Methylene Chloride	75-09-2	N.D.	1	0.2	1
10335	Naphthalene	91-20-3	N.D.	10	4	1
10335	n-Propylbenzene	103-65-1	N.D.	5	0.2	1
10335	Styrene	100-42-5	N.D.	5	0.2	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.4	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	1	0.2	1
10335	Toluene	108-88-3	N.D.	1	0.2	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	10	3	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	5	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.2	1
10335	Trichloroethene	79-01-6	N.D.	1	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	1	0.4	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	5	0.2	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	5	0.3	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	5	0.3	1
10335	Vinyl Chloride	75-01-4	N.D.	1	0.4	1
10335	m+p-Xylene	179601-23-1	N.D.	2	0.5	1
10335	o-Xylene	95-47-6	N.D.	1	0.3	1
10335	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	Full list + oxys + hexane	SW-846 8260B	1	N190431AA	02/12/2019 21:16	Kevin D Kelly	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N190431AA	02/12/2019 21:15	Kevin D Kelly	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(396) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 02/01/2019 18:32
Collection Date/Time: 01/31/2019 14:20

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9978923
ELLE Group #: 2027685
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	20	0.8	1
10335	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10335	Benzene	71-43-2	N.D.	1	0.2	1
10335	Bromobenzene	108-86-1	N.D.	5	0.2	1
10335	Bromochloromethane	74-97-5	N.D.	5	0.4	1
10335	Bromodichloromethane	75-27-4	N.D.	1	0.2	1
10335	Bromoform	75-25-2	N.D.	5	2	1
10335	Bromomethane	74-83-9	N.D.	1	0.5	1
10335	2-Butanone	78-93-3	N.D.	10	1	1
10335	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10335	n-Butylbenzene	104-51-8	N.D.	5	0.9	1
10335	sec-Butylbenzene	135-98-8	N.D.	5	0.2	1
10335	tert-Butylbenzene	98-06-6	N.D.	5	0.2	1
10335	Carbon Disulfide	75-15-0	N.D.	5	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	1	0.2	1
10335	Chloroethane	75-00-3	N.D.	1	0.3	1
10335	Chloroform	67-66-3	N.D.	1	0.2	1
10335	Chloromethane	74-87-3	N.D.	1	0.3	1
10335	2-Chlorotoluene	95-49-8	N.D.	5	0.2	1
10335	4-Chlorotoluene	106-43-4	N.D.	5	0.2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	5	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	1	0.3	1
10335	Dibromomethane	74-95-3	N.D.	1	0.2	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	5	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	5	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	5	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	1	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	5	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	1	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	0.2	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	0.2	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	0.2	1
10335	1,1-Dichloropropene	563-58-6	N.D.	5	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.2	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10335	Ethylbenzene	100-41-4	N.D.	1	0.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(396) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 02/01/2019 18:32
Collection Date/Time: 01/31/2019 14:20

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9978923
ELLE Group #: 2027685
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10335	Hexachlorobutadiene	87-68-3	N.D.	5	2	1
10335	n-Hexane	110-54-3	N.D.	5	1	1
10335	2-Hexanone	591-78-6	N.D.	10	3	1
10335	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10335	Isopropylbenzene	98-82-8	N.D.	5	0.3	1
10335	p-Isopropyltoluene	99-87-6	N.D.	5	0.2	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	0.3 J	1	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	10	0.5	1
10335	Methylene Chloride	75-09-2	N.D.	1	0.2	1
10335	Naphthalene	91-20-3	N.D.	10	4	1
10335	n-Propylbenzene	103-65-1	N.D.	5	0.2	1
10335	Styrene	100-42-5	N.D.	5	0.2	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.4	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	1	0.2	1
10335	Toluene	108-88-3	N.D.	1	0.2	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	10	3	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	5	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.2	1
10335	Trichloroethene	79-01-6	N.D.	1	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	1	0.4	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	5	0.2	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	5	0.3	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	5	0.3	1
10335	Vinyl Chloride	75-01-4	N.D.	1	0.4	1
10335	m+p-Xylene	179601-23-1	N.D.	2	0.5	1
10335	o-Xylene	95-47-6	N.D.	1	0.3	1
10335	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	Full list + oxys + hexane	SW-846 8260B	1	N190431AA	02/12/2019 21:39	Kevin D Kelly	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N190431AA	02/12/2019 21:38	Kevin D Kelly	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(221) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 02/01/2019 18:32
Collection Date/Time: 01/31/2019 13:45

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9978927
ELLE Group #: 2027685
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	20	0.8	1
10335	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10335	Benzene	71-43-2	N.D.	1	0.2	1
10335	Bromobenzene	108-86-1	N.D.	5	0.2	1
10335	Bromochloromethane	74-97-5	N.D.	5	0.4	1
10335	Bromodichloromethane	75-27-4	N.D.	1	0.2	1
10335	Bromoform	75-25-2	N.D.	5	2	1
10335	Bromomethane	74-83-9	N.D.	1	0.5	1
10335	2-Butanone	78-93-3	N.D.	10	1	1
10335	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10335	n-Butylbenzene	104-51-8	N.D.	5	0.9	1
10335	sec-Butylbenzene	135-98-8	N.D.	5	0.2	1
10335	tert-Butylbenzene	98-06-6	N.D.	5	0.2	1
10335	Carbon Disulfide	75-15-0	N.D.	5	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	1	0.2	1
10335	Chloroethane	75-00-3	N.D.	1	0.3	1
10335	Chloroform	67-66-3	N.D.	1	0.2	1
10335	Chloromethane	74-87-3	N.D.	1	0.3	1
10335	2-Chlorotoluene	95-49-8	N.D.	5	0.2	1
10335	4-Chlorotoluene	106-43-4	N.D.	5	0.2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	5	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	1	0.3	1
10335	Dibromomethane	74-95-3	N.D.	1	0.2	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	5	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	5	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	5	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	1	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	5	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	1	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	0.2	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	0.2	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	0.2	1
10335	1,1-Dichloropropene	563-58-6	N.D.	5	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.2	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10335	Ethylbenzene	100-41-4	N.D.	1	0.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D(221) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 02/01/2019 18:32
Collection Date/Time: 01/31/2019 13:45

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9978927
ELLE Group #: 2027685
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10335	Hexachlorobutadiene	87-68-3	N.D.	5	2	1
10335	n-Hexane	110-54-3	N.D.	5	1	1
10335	2-Hexanone	591-78-6	N.D.	10	3	1
10335	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10335	Isopropylbenzene	98-82-8	N.D.	5	0.3	1
10335	p-Isopropyltoluene	99-87-6	N.D.	5	0.2	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	1	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	10	0.5	1
10335	Methylene Chloride	75-09-2	N.D.	1	0.2	1
10335	Naphthalene	91-20-3	N.D.	10	4	1
10335	n-Propylbenzene	103-65-1	N.D.	5	0.2	1
10335	Styrene	100-42-5	N.D.	5	0.2	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.4	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	1	0.2	1
10335	Toluene	108-88-3	N.D.	1	0.2	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	10	3	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	5	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.2	1
10335	Trichloroethene	79-01-6	N.D.	1	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	1	0.4	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	5	0.2	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	5	0.3	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	5	0.3	1
10335	Vinyl Chloride	75-01-4	N.D.	1	0.4	1
10335	m+p-Xylene	179601-23-1	N.D.	2	0.5	1
10335	o-Xylene	95-47-6	N.D.	1	0.3	1
10335	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	Full list + oxys + hexane	SW-846 8260B	1	N190431AA	02/12/2019 22:03	Kevin D Kelly	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N190431AA	02/12/2019 22:02	Kevin D Kelly	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: ExxonMobil c/o Kleinfelder
Reported: 02/21/2019 18:55

Group Number: 2027685

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	LOQ**	MDL
	ug/l	ug/l	ug/l
Batch number: N190431AA	Sample number(s): 9978918-9978923,9978927		
Acetone	N.D.	20	0.8
t-Amyl methyl ether	N.D.	1	0.3
Benzene	N.D.	1	0.2
Bromobenzene	N.D.	5	0.2
Bromochloromethane	N.D.	5	0.4
Bromodichloromethane	N.D.	1	0.2
Bromoform	N.D.	5	2
Bromomethane	N.D.	1	0.5
2-Butanone	N.D.	10	1
t-Butyl alcohol	N.D.	25	10
n-Butylbenzene	N.D.	5	0.9
sec-Butylbenzene	N.D.	5	0.2
tert-Butylbenzene	N.D.	5	0.2
Carbon Disulfide	N.D.	5	0.3
Carbon Tetrachloride	N.D.	1	0.2
Chlorobenzene	N.D.	1	0.2
Chloroethane	N.D.	1	0.3
Chloroform	N.D.	1	0.2
Chloromethane	N.D.	1	0.3
2-Chlorotoluene	N.D.	5	0.2
4-Chlorotoluene	N.D.	5	0.2
1,2-Dibromo-3-chloropropane	N.D.	5	1
Dibromochloromethane	N.D.	1	0.4
1,2-Dibromoethane	N.D.	1	0.3
Dibromomethane	N.D.	1	0.2
1,2-Dichlorobenzene	N.D.	5	0.2
1,3-Dichlorobenzene	N.D.	5	0.2
1,4-Dichlorobenzene	N.D.	5	0.2
Dichlorodifluoromethane	N.D.	1	0.3
1,1-Dichloroethane	N.D.	1	0.2
1,2-Dichloroethane	N.D.	5	2
1,1-Dichloroethene	N.D.	1	0.2
cis-1,2-Dichloroethene	N.D.	1	0.2
trans-1,2-Dichloroethene	N.D.	1	0.2
1,2-Dichloropropane	N.D.	1	0.2
1,3-Dichloropropane	N.D.	1	0.2
2,2-Dichloropropane	N.D.	1	0.2
1,1-Dichloropropene	N.D.	5	0.2
cis-1,3-Dichloropropene	N.D.	1	0.2

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ExxonMobil c/o Kleinfelder
Reported: 02/21/2019 18:55

Group Number: 2027685

Method Blank (continued)

Analysis Name	Result	LOQ**	MDL
	ug/l	ug/l	ug/l
trans-1,3-Dichloropropene	N.D.	1	0.2
Ethyl t-butyl ether	N.D.	1	0.2
Ethylbenzene	N.D.	1	0.2
Hexachlorobutadiene	N.D.	5	2
n-Hexane	N.D.	5	1
2-Hexanone	N.D.	10	3
di-Isopropyl ether	N.D.	1	0.2
Isopropylbenzene	N.D.	5	0.3
p-Isopropyltoluene	N.D.	5	0.2
Methyl Tertiary Butyl Ether	N.D.	1	0.2
4-Methyl-2-pentanone	N.D.	10	0.5
Methylene Chloride	N.D.	1	0.2
Naphthalene	N.D.	10	4
n-Propylbenzene	N.D.	5	0.2
Styrene	N.D.	5	0.2
1,1,1,2-Tetrachloroethane	N.D.	1	0.4
1,1,2,2-Tetrachloroethane	N.D.	1	0.2
Tetrachloroethene	N.D.	1	0.2
Toluene	N.D.	1	0.2
1,2,3-Trichlorobenzene	N.D.	10	3
1,2,4-Trichlorobenzene	N.D.	5	0.4
1,1,1-Trichloroethane	N.D.	1	0.2
1,1,2-Trichloroethane	N.D.	1	0.2
Trichloroethene	N.D.	1	0.2
Trichlorofluoromethane	N.D.	1	0.4
1,2,3-Trichloropropane	N.D.	5	0.2
1,2,4-Trimethylbenzene	N.D.	5	0.3
1,3,5-Trimethylbenzene	N.D.	5	0.3
Vinyl Chloride	N.D.	1	0.4
m+p-Xylene	N.D.	2	0.5
o-Xylene	N.D.	1	0.3
Xylene (Total)	N.D.	5	0.5
Batch number: Y190421AA	Sample number(s): 9978913-9978917		
Acetone	N.D.	20	0.8
t-Amyl methyl ether	N.D.	1	0.3
Benzene	N.D.	1	0.2
Bromobenzene	N.D.	5	0.2
Bromochloromethane	N.D.	5	0.4
Bromodichloromethane	N.D.	1	0.2
Bromoform	N.D.	5	2
Bromomethane	N.D.	1	0.5
2-Butanone	N.D.	10	1
t-Butyl alcohol	N.D.	25	10
n-Butylbenzene	N.D.	5	0.9

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Quality Control Summary

Client Name: ExxonMobil c/o Kleinfelder
Reported: 02/21/2019 18:55

Group Number: 2027685

Method Blank (continued)

Analysis Name	Result	LOQ**	MDL
	ug/l	ug/l	ug/l
sec-Butylbenzene	N.D.	5	0.2
tert-Butylbenzene	N.D.	5	0.2
Carbon Disulfide	N.D.	5	0.3
Carbon Tetrachloride	N.D.	1	0.2
Chlorobenzene	N.D.	1	0.2
Chloroethane	N.D.	1	0.3
Chloroform	N.D.	1	0.2
Chloromethane	N.D.	1	0.3
2-Chlorotoluene	N.D.	5	0.2
4-Chlorotoluene	N.D.	5	0.2
1,2-Dibromo-3-chloropropane	N.D.	5	1
Dibromochloromethane	N.D.	1	0.4
1,2-Dibromoethane	N.D.	1	0.3
Dibromomethane	N.D.	1	0.2
1,2-Dichlorobenzene	N.D.	5	0.2
1,3-Dichlorobenzene	N.D.	5	0.2
1,4-Dichlorobenzene	N.D.	5	0.2
Dichlorodifluoromethane	N.D.	1	0.3
1,1-Dichloroethane	N.D.	1	0.2
1,2-Dichloroethane	N.D.	5	2
1,1-Dichloroethene	N.D.	1	0.2
cis-1,2-Dichloroethene	N.D.	1	0.2
trans-1,2-Dichloroethene	N.D.	1	0.2
1,2-Dichloropropane	N.D.	1	0.2
1,3-Dichloropropane	N.D.	1	0.2
2,2-Dichloropropane	N.D.	1	0.2
1,1-Dichloropropene	N.D.	5	0.2
cis-1,3-Dichloropropene	N.D.	1	0.2
trans-1,3-Dichloropropene	N.D.	1	0.2
Ethyl t-butyl ether	N.D.	1	0.2
Ethylbenzene	N.D.	1	0.2
Hexachlorobutadiene	N.D.	5	2
n-Hexane	N.D.	5	1
2-Hexanone	N.D.	10	3
di-Isopropyl ether	N.D.	1	0.2
Isopropylbenzene	N.D.	5	0.3
p-Isopropyltoluene	N.D.	5	0.2
Methyl Tertiary Butyl Ether	N.D.	1	0.2
4-Methyl-2-pentanone	N.D.	10	0.5
Methylene Chloride	N.D.	1	0.2
Naphthalene	N.D.	10	4
n-Propylbenzene	N.D.	5	0.2
Styrene	N.D.	5	0.2
1,1,1,2-Tetrachloroethane	N.D.	1	0.4
1,1,2,2-Tetrachloroethane	N.D.	1	0.2

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Quality Control Summary

Client Name: ExxonMobil c/o Kleinfelder
Reported: 02/21/2019 18:55

Group Number: 2027685

Method Blank (continued)

Analysis Name	Result	LOQ**	MDL
	ug/l	ug/l	ug/l
Tetrachloroethene	N.D.	1	0.2
Toluene	N.D.	1	0.2
1,2,3-Trichlorobenzene	N.D.	10	3
1,2,4-Trichlorobenzene	N.D.	5	0.4
1,1,1-Trichloroethane	N.D.	1	0.2
1,1,2-Trichloroethane	N.D.	1	0.2
Trichloroethene	N.D.	1	0.2
Trichlorofluoromethane	N.D.	1	0.4
1,2,3-Trichloropropane	N.D.	5	0.2
1,2,4-Trimethylbenzene	N.D.	5	0.3
1,3,5-Trimethylbenzene	N.D.	5	0.3
Vinyl Chloride	N.D.	1	0.4
m+p-Xylene	N.D.	2	0.5
o-Xylene	N.D.	1	0.3
Xylene (Total)	N.D.	5	0.5
Batch number: Z190371AA	Sample number(s): 9978903-9978905		
t-Amyl methyl ether	N.D.	1	0.3
Benzene	N.D.	1	0.2
t-Butyl alcohol	N.D.	25	10
Ethyl t-butyl ether	N.D.	1	0.2
Ethylbenzene	N.D.	1	0.2
di-Isopropyl ether	N.D.	1	0.2
Methyl Tertiary Butyl Ether	N.D.	1	0.2
Toluene	N.D.	1	0.2
Xylene (Total)	N.D.	5	0.5
Batch number: Z190381AA	Sample number(s): 9978906-9978912,9978924		
t-Amyl methyl ether	N.D.	1	0.3
Benzene	N.D.	1	0.2
t-Butyl alcohol	N.D.	25	10
Ethyl t-butyl ether	N.D.	1	0.2
Ethylbenzene	N.D.	1	0.2
di-Isopropyl ether	N.D.	1	0.2
Methyl Tertiary Butyl Ether	N.D.	1	0.2
Toluene	N.D.	1	0.2
Xylene (Total)	N.D.	5	0.5
Batch number: Z190382AA	Sample number(s): 9978925-9978926		
t-Amyl methyl ether	N.D.	1	0.3
Benzene	N.D.	1	0.2
t-Butyl alcohol	N.D.	25	10
Ethyl t-butyl ether	N.D.	1	0.2
Ethylbenzene	N.D.	1	0.2
di-Isopropyl ether	N.D.	1	0.2
Methyl Tertiary Butyl Ether	N.D.	1	0.2

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ExxonMobil c/o Kleinfelder
Reported: 02/21/2019 18:55

Group Number: 2027685

Method Blank (continued)

Analysis Name	Result	LOQ**	MDL
	ug/l	ug/l	ug/l
Toluene	N.D.	1	0.2
Xylene (Total)	N.D.	5	0.5

LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: N190431AA	Sample number(s): 9978918-9978923,9978927								
Acetone	150	131.73			88		54-157		
t-Amyl methyl ether	20	18.35			92		66-120		
Benzene	20	21.04			105		80-120		
Bromobenzene	20	20.3			102		80-120		
Bromochloromethane	20	19.36			97		80-120		
Bromodichloromethane	20	20.41			102		71-120		
Bromoform	20	18.06			90		51-120		
Bromomethane	20	16.16			81		53-128		
2-Butanone	150	130.25			87		59-135		
t-Butyl alcohol	200	196.57			98		60-130		
n-Butylbenzene	20	19.44			97		76-120		
sec-Butylbenzene	20	20.32			102		77-120		
tert-Butylbenzene	20	22.49			112		78-120		
Carbon Disulfide	20	17.44			87		65-128		
Carbon Tetrachloride	20	20.11			101		64-134		
Chlorobenzene	20	20.94			105		80-120		
Chloroethane	20	16.4			82		55-123		
Chloroform	20	21.3			107		80-120		
Chloromethane	20	18.18			91		56-121		
2-Chlorotoluene	20	20.45			102		80-120		
4-Chlorotoluene	20	20.46			102		80-120		
1,2-Dibromo-3-chloropropane	20	17.87			89		47-131		
Dibromochloromethane	20	19.71			99		71-120		
1,2-Dibromoethane	20	20.42			102		77-120		
Dibromomethane	20	21.13			106		80-120		
1,2-Dichlorobenzene	20	20.94			105		80-120		
1,3-Dichlorobenzene	20	19.86			99		80-120		
1,4-Dichlorobenzene	20	20.42			102		80-120		
Dichlorodifluoromethane	20	13.36			67		41-127		
1,1-Dichloroethane	20	20.31			102		80-120		
1,2-Dichloroethane	20	21.42			107		73-124		
1,1-Dichloroethene	20	21.73			109		80-131		
cis-1,2-Dichloroethene	20	21.92			110		80-120		

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Quality Control Summary

Client Name: ExxonMobil c/o Kleinfelder
Reported: 02/21/2019 18:55

Group Number: 2027685

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
trans-1,2-Dichloroethene	20	21.52			108		80-120		
1,2-Dichloropropane	20	20.63			103		80-120		
1,3-Dichloropropane	20	19.95			100		80-120		
2,2-Dichloropropane	20	20.02			100		55-142		
1,1-Dichloropropene	20	20.63			103		78-120		
cis-1,3-Dichloropropene	20	20.19			101		75-120		
trans-1,3-Dichloropropene	20	18.86			94		67-120		
Ethyl t-butyl ether	20	17.53			88		68-121		
Ethylbenzene	20	20.28			101		80-120		
Hexachlorobutadiene	20	18.82			94		63-120		
n-Hexane	20	18.47			92		61-138		
2-Hexanone	100	85.3			85		56-135		
di-Isopropyl ether	20	19.07			95		70-124		
Isopropylbenzene	20	20.29			101		80-120		
p-Isopropyltoluene	20	20.08			100		76-120		
Methyl Tertiary Butyl Ether	20	18.5			93		69-122		
4-Methyl-2-pentanone	100	90.78			91		62-133		
Methylene Chloride	20	21.42			107		80-120		
Naphthalene	20	18.92			95		53-124		
n-Propylbenzene	20	20.76			104		79-121		
Styrene	20	19.78			99		80-120		
1,1,1,2-Tetrachloroethane	20	20			100		78-120		
1,1,2,2-Tetrachloroethane	20	19.42			97		72-120		
Tetrachloroethene	20	20.78			104		80-120		
Toluene	20	20.6			103		80-120		
1,2,3-Trichlorobenzene	20	19.9			99		66-120		
1,2,4-Trichlorobenzene	20	19.56			98		63-120		
1,1,1-Trichloroethane	20	20.74			104		67-126		
1,1,2-Trichloroethane	20	21.71			109		80-120		
Trichloroethene	20	21.11			106		80-120		
Trichlorofluoromethane	20	18.4			92		55-135		
1,2,3-Trichloropropane	20	20.22			101		75-124		
1,2,4-Trimethylbenzene	20	19.98			100		75-120		
1,3,5-Trimethylbenzene	20	20.13			101		75-120		
Vinyl Chloride	20	18.94			95		56-120		
m+p-Xylene	40	40.87			102		80-120		
o-Xylene	20	20.06			100		80-120		
Xylene (Total)	60	60.93			102		80-120		
Batch number: Y190421AA	Sample number(s): 9978913-9978917								
Acetone	150	225.94	150	230.21	151	153	54-157	2	30
t-Amyl methyl ether	20	20.41	20	20.56	102	103	66-120	1	30
Benzene	20	21.63	20	21.49	108	107	80-120	1	30
Bromobenzene	20	20.98	20	21.07	105	105	80-120	0	30

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Quality Control Summary

Client Name: ExxonMobil c/o Kleinfelder
Reported: 02/21/2019 18:55

Group Number: 2027685

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Bromochloromethane	20	19.02	20	18.84	95	94	80-120	1	30
Bromodichloromethane	20	19.75	20	19.57	99	98	71-120	1	30
Bromoform	20	17.15	20	16.87	86	84	51-120	2	30
Bromomethane	20	13.98	20	14.57	70	73	53-128	4	30
2-Butanone	150	177.02	150	170.44	118	114	59-135	4	30
t-Butyl alcohol	200	180.82	200	167.5	90	84	60-130	8	30
n-Butylbenzene	20	21.01	20	20.66	105	103	76-120	2	30
sec-Butylbenzene	20	21.2	20	21.07	106	105	77-120	1	30
tert-Butylbenzene	20	20.27	20	20.26	101	101	78-120	0	30
Carbon Disulfide	20	17.14	20	17	86	85	65-128	1	30
Carbon Tetrachloride	20	20.08	20	19.69	100	98	64-134	2	30
Chlorobenzene	20	21.53	20	21.24	108	106	80-120	1	30
Chloroethane	20	15	20	15.38	75	77	55-123	2	30
Chloroform	20	21.56	20	21.18	108	106	80-120	2	30
Chloromethane	20	17.75	20	17.56	89	88	56-121	1	30
2-Chlorotoluene	20	20.64	20	20.54	103	103	80-120	0	30
4-Chlorotoluene	20	21	20	20.87	105	104	80-120	1	30
1,2-Dibromo-3-chloropropane	20	18.09	20	17.7	90	88	47-131	2	30
Dibromochloromethane	20	19.03	20	18.88	95	94	71-120	1	30
1,2-Dibromoethane	20	20.91	20	20.98	105	105	77-120	0	30
Dibromomethane	20	21.21	20	20.83	106	104	80-120	2	30
1,2-Dichlorobenzene	20	21.12	20	20.87	106	104	80-120	1	30
1,3-Dichlorobenzene	20	21.05	20	20.71	105	104	80-120	2	30
1,4-Dichlorobenzene	20	21.34	20	21.09	107	105	80-120	1	30
Dichlorodifluoromethane	20	15.54	20	15.58	78	78	41-127	0	30
1,1-Dichloroethane	20	20.87	20	20.93	104	105	80-120	0	30
1,2-Dichloroethane	20	21.21	20	21.18	106	106	73-124	0	30
1,1-Dichloroethene	20	22.14	20	22.16	111	111	80-131	0	30
cis-1,2-Dichloroethene	20	21.73	20	21.62	109	108	80-120	1	30
trans-1,2-Dichloroethene	20	21.93	20	21.65	110	108	80-120	1	30
1,2-Dichloropropane	20	22.08	20	22.08	110	110	80-120	0	30
1,3-Dichloropropane	20	21.2	20	21.15	106	106	80-120	0	30
2,2-Dichloropropane	20	19.32	20	19.11	97	96	55-142	1	30
1,1-Dichloropropene	20	21.54	20	21.39	108	107	78-120	1	30
cis-1,3-Dichloropropene	20	20.11	20	19.95	101	100	75-120	1	30
trans-1,3-Dichloropropene	20	18.97	20	19.1	95	96	67-120	1	30
Ethyl t-butyl ether	20	19.93	20	20.19	100	101	68-121	1	30
Ethylbenzene	20	21.2	20	20.87	106	104	80-120	2	30
Hexachlorobutadiene	20	20.7	20	20.11	103	101	63-120	3	30
n-Hexane	20	20.11	20	20.09	101	100	61-138	0	30
2-Hexanone	100	104.33	100	102.79	104	103	56-135	1	30
di-Isopropyl ether	20	20.6	20	20.52	103	103	70-124	0	30
Isopropylbenzene	20	20.89	20	20.93	104	105	80-120	0	30
p-Isopropyltoluene	20	21.36	20	21.09	107	105	76-120	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ExxonMobil c/o Kleinfelder
Reported: 02/21/2019 18:55

Group Number: 2027685

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	20	20.8	20	20.84	104	104	69-122	0	30
4-Methyl-2-pentanone	100	98.09	100	96.44	98	96	62-133	2	30
Methylene Chloride	20	21.62	20	21.42	108	107	80-120	1	30
Naphthalene	20	20.21	20	19.56	101	98	53-124	3	30
n-Propylbenzene	20	21.71	20	21.47	109	107	79-121	1	30
Styrene	20	21.09	20	20.92	105	105	80-120	1	30
1,1,1,2-Tetrachloroethane	20	19.91	20	20.2	100	101	78-120	1	30
1,1,2,2-Tetrachloroethane	20	20.72	20	20.96	104	105	72-120	1	30
Tetrachloroethene	20	21.48	20	21.34	107	107	80-120	1	30
Toluene	20	21.13	20	21.04	106	105	80-120	0	30
1,2,3-Trichlorobenzene	20	20.58	20	19.77	103	99	66-120	4	30
1,2,4-Trichlorobenzene	20	20.28	20	19.96	101	100	63-120	2	30
1,1,1-Trichloroethane	20	20.39	20	20.09	102	100	67-126	1	30
1,1,2-Trichloroethane	20	21.73	20	21.99	109	110	80-120	1	30
Trichloroethene	20	21.54	20	21.27	108	106	80-120	1	30
Trichlorofluoromethane	20	17.82	20	17.51	89	88	55-135	2	30
1,2,3-Trichloropropane	20	20.98	20	20.85	105	104	75-124	1	30
1,2,4-Trimethylbenzene	20	20.9	20	20.81	104	104	75-120	0	30
1,3,5-Trimethylbenzene	20	20.95	20	20.89	105	104	75-120	0	30
Vinyl Chloride	20	18	20	17.72	90	89	56-120	2	30
m+p-Xylene	40	42.9	40	42.65	107	107	80-120	1	30
o-Xylene	20	20.76	20	20.55	104	103	80-120	1	30
Xylene (Total)	60	63.67	60	63.19	106	105	80-120	1	30
Batch number: Z190371AA	Sample number(s): 9978903-9978905								
t-Amyl methyl ether	20	20.14			101		66-120		
Benzene	20	20.75			104		80-120		
t-Butyl alcohol	200	197.84			99		60-130		
Ethyl t-butyl ether	20	19.96			100		68-121		
Ethylbenzene	20	20.07			100		80-120		
di-Isopropyl ether	20	21.34			107		70-124		
Methyl Tertiary Butyl Ether	20	19.57			98		69-122		
Toluene	20	20.47			102		80-120		
Xylene (Total)	60	62.24			104		80-120		
Batch number: Z190381AA	Sample number(s): 9978906-9978912,9978924								
t-Amyl methyl ether	20	19.1			95		66-120		
Benzene	20	18.13			91		80-120		
t-Butyl alcohol	200	183.35			92		60-130		
Ethyl t-butyl ether	20	17.39			87		68-121		
Ethylbenzene	20	19.25			96		80-120		
di-Isopropyl ether	20	18.08			90		70-124		
Methyl Tertiary Butyl Ether	20	17.62			88		69-122		
Toluene	20	22.36			112		80-120		
Xylene (Total)	60	61			102		80-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ExxonMobil c/o Kleinfelder
Reported: 02/21/2019 18:55

Group Number: 2027685

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: Z190382AA	Sample number(s): 9978925-9978926								
t-Amyl methyl ether	20	18.55			93		66-120		
Benzene	20	19.03			95		80-120		
t-Butyl alcohol	200	176.47			88		60-130		
Ethyl t-butyl ether	20	18.94			95		68-121		
Ethylbenzene	20	18.97			95		80-120		
di-Isopropyl ether	20	19.84			99		70-124		
Methyl Tertiary Butyl Ether	20	17.75			89		69-122		
Toluene	20	19.53			98		80-120		
Xylene (Total)	60	60.03			100		80-120		

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Full list + oxys + hexane
Batch number: N190431AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9978918	100	98	98	92
9978919	100	102	98	92
9978920	100	102	99	91
9978921	101	102	99	91
9978922	100	102	98	91
9978923	100	104	98	91
9978927	101	104	98	91
Blank	100	101	99	92
LCS	100	100	101	97
Limits:	80-120	80-120	80-120	80-120

Analysis Name: Full list + oxys + hexane
Batch number: Y190421AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9978913	99	106	99	93
9978914	99	103	99	93
9978915	99	102	99	93
9978916	99	103	99	93
9978917	98	103	99	93
Blank	99	104	99	93
LCS	100	103	100	99

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ExxonMobil c/o Kleinfelder
Reported: 02/21/2019 18:55

Group Number: 2027685

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Full list + oxys + hexane
Batch number: Y190421AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
LCSD	99	101	101	99
Limits:	80-120	80-120	80-120	80-120

Analysis Name: 8260 BTEX + 5 Oxys
Batch number: Z190371AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9978903	101	98	106	94
9978904	101	96	99	88
9978905	110	104	101	94
Blank	105	105	109	92
LCS	96	99	102	101
Limits:	80-120	80-120	80-120	80-120

Analysis Name: 8260 BTEX + 5 Oxys
Batch number: Z190381AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9978906	96	91	100	95
9978907	105	103	98	92
9978908	102	99	100	94
9978909	103	101	100	93
9978910	103	102	101	94
9978911	103	101	101	95
9978912	104	101	102	90
9978924	107	99	100	98
Blank	100	103	103	94
LCS	88	86	115	102
Limits:	80-120	80-120	80-120	80-120

Analysis Name: 8260 BTEX + 5 Oxys
Batch number: Z190382AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9978925	100	98	101	101
9978926	104	103	100	93
Blank	103	101	101	83
LCS	98	99	102	103
Limits:	80-120	80-120	80-120	80-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Amended COC

13459 2027685 9978903-27

Lancaster Laboratories

(03)

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE ___ OF ___

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17605
TEL. 717-656-2300
www.lancasterlabs.com

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #:

Client / Reporting Information

Company Name: Kleinfelder
Street Address: 1340 Charwood Road Ste. 1
City / State / Zip: Hanover, MD 21076
Project Contact: Stacey Schiding
E-mail:
Phone #: 410-850-0404
Fax #:
Sampler(s) Name(s): Bryan Johnson
Phone #:

SITE NAME - Provide Site Name for Retail or AFE Number for Major Projects

Retail Project (Site Name): Exxon - Phoenix
Major Project (AFE): 28077
Project Name: 14258 Jarrettsville Pike
City / State: Phoenix MD
ExxonMobil Manager: Jamila Chillemi
ExxonMobil Purchase Order #:

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name:
Street Address:
City / State / Zip:
Attention: PO#

Requested Analysis (see TEST CODE sheet)

Matrix Codes
DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank

Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	MTBE, BTEX, ETBE, TAME, DIPE, TBA by 8260B	Full list VOCs+Oxy5 by 8260 Per SS @ 1336 2/1/19	LAB USE ONLY
MW-73C (HS-S)		1/31/19	0900	BJ	GW	3	X								X		
MW-73C (HS-D)		1/31/19	0910	BJ	GW	3	X								X		
MW-73		1/31/19	0930	BJ	GW	3	X								X		
MW-58		1/31/19	1000	BJ	GW	3	X								X		
MW-58R		1/31/19	1020	BJ	GW	3	X								X		
MW-58P		1/31/19	1040	BJ	GW	3	X								X		
MW-178A		1/31/19	1100	BJ	GW	3	X								X		
MW-180A		1/31/19	1130	BJ	GW	3	X								X		
MW-179A		1/31/19	1150	BJ	GW	3	X								X		
MW-82		1/31/19	1215	BJ	GW	3	X								X		
TB19025		1/28/19	—	SR	TB	1	X								X	X	

Turnaround Time (Business days)

- [X] Std. 10 Business Days
- [ ] 8 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [X] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format ______
- [ ] Other ______

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by	Date Time	Received By	Relinquished By	Date Time	Received By
1 [signature]	2/1/19 @ 1600	1 Stat [signature]	2 Station	1832	2 [signature] 2/2/19
3		3 [signature] 2-1-19, 18:05	4 [signature] 2/1/19	18:22	4 [signature] 2/1/19 1832
5		5	Custody Seal # [ ] Intact [ ] Not intact	Preserved where applicable [ ]	On Ice [X] Cooler Temp. 1.2°C

Amended COC

13459 2027685 9978403-27

CB

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE ___ OF ___

Lancaster Laboratories

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17605
TEL. 717-656-2300
www.lancasterlabs.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job #

Client / Reporting Information

Company Name: Kleinfelder
Street Address: 1340 Charwood Road Ste. 1
City: Hanover, MD State: Zip: 21076
Project Contact: Stacey Schilding E-mail:
Phone #: 410-860-0404 Fax #:
Sampler(s) Name(s): Charlie Brehm Phone #:

SITE NAME - Provide Site Name for Retail or AFE Number for Major Projects

Retail Project (Site Name): Exxon - Phoenix
Major Project (AFE): 28077
Project Name: 14268 Jarrettsville Pike
City: Phoenix State: MD
ExxonMobil Manager: Jamila Chillemi
ExxonMobil Purchase Order #:

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name:
Street Address:
City State Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	MTBE, BTEX, ETBE, TAME, DIPE, TBA by 8260B	Full List VOCs +Oxy5 by 8260	Per SS DH 1330 2/1/19	LAB USE ONLY
	MW-188D(141.5)		1/31/19	1330	CB	GW	3	X								X	X		
	MW-188D(201)		1/31/19	1335	CB	GW	3	X								X	X		
	MW-188D(212.5)		1/31/19	1340	CB	GW	3	X								X	X		
	MW-188D(228.5)		1/31/19	1345	CB	GW	3	X								X	X		
	MW-188D(239)		1/31/19	1350	CB	GW	3	X								X	X		
	MW-188D(279.5)		1/31/19	1355	CB	GW	3	X								X	X		
	MW-188D(306.5)		1/31/19	1400	CB	GW	3	X								X	X		
	MW-188D(344)		1/31/19	1405	CB	GW	3	X								X	X		
	MW-188D(387)		1/31/19	1410	CB	GW	3	X								X	X		
	MW-188D(396)		1/31/19	1415	CB	GW	3	X								X	X		

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

- [x] Std. 10 Business Days
- [ ] 8 Day *RUSH*
- [ ] 6 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [X] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format ____
- [ ] Other ____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

3M 238 2/1/19

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1			1	2	18:22	2
2				2/1/19		4032
3	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
			3	4		
	Relinquished by:	Date Time:	Received By:	Custody Seal # ☐ Intact	Preserved where applicable	On Ice / Cooler Temp.
						X 1.2°C

Amended COC

13459 227685 9978903-27

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE ___ OF ___

Lancaster Laboratories

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17605
TEL. 717-656-2300
www.lancasterlabs.com

FED-EX Tracking #	Bottle Order Control #
Lancaster Quote #	Lancaster Job #

Client / Reporting Information

Company Name: Kleinfelder
Street Address: 1340 Charwood Road Ste. 1
City: Hanover, MD State: Zip: 21076
Project Contact: Stacey Schilding E-mail:
Phone #: 410-850-0404 Fax #: 410-850-0049
Sampler(s) Name(s): Charlie Low Phone #:

SITE NAME - Provide Site Name for Retail or AFE Number for Major Projects

Retail Project (Site Name): Exxon - Phoenix 28077
Major Project (AFE):
Project Name: 14268 Jarrettsville Pike
City: Phoenix State: MD
ExxonMobil Manager: Jamila Chillemi
ExxonMobil Purchase Order #: Direct Bill to Exxon Mobil

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name:
Street Address:
City: State: Zip:
Attention: PO#

Requested Analysis (see TEST CODE sheet)

Lancaster Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	MTBE, BTEX, ETBE, TAME, DIPE, TBA by EPA 8260B	Full List VOCs + Oxy5 by 8260	LAB USE ONLY
	MW-152		2/1/19	1145	CL	GW	3	X								X	X	
	SVE-2		2/1/19	1315	CL	GW	3	X								X	X	
	SVE-3		2/1/19	1400	CL	GW	3	X								X	X	

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank

Data Deliverable Information

- [X] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Approved By (Accutest PM): / Date:

- [X] Std. 10 Business Days
- [ ] 8 Day *RUSH*
- [ ] 6 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Comments / Special Instructions

Analyze for MTBE, BTEX, ETBE, TAME, DIPE, TBA - 8260B

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		2/1/19 @ 1500	1 Stanton	2 Stanton		2 2/1/19 14:05
3	2/1/19	14:22	3 1832 2/2/19	4		4 2/1/19 1832
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	Intact / Not Intact	Preserved where applicable: On Ice: 8 Cooler Temp: 1.2

13459 2027685 9978903-27

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE ___ OF ___

Lancaster Laboratories

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17605
TEL. 717-656-2300
www.lancasterlabs.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job #

Client / Reporting Information

Company Name	Street Address	City	State	Zip
Kleinfelder	1340 Charwood Road Ste. 1	Hanover, MD		21076

Project Contact	E-mail	Phone #	Fax #
Stacey Schiding		410-850-0404	

Sampler(s) Name(s): Bryan Johnson

SITE NAME - Provide Site Name for Retail or AFE Number for Major Projects

Retail Project (Site Name): Exxon - Phoenix
Major Project (AFE): 28077
Project Name: 14268 Jarrettsville Pike
City: Phoenix State: MD
ExxonMobil Manager: Jamila Chillemi
ExxonMobil Purchase Order #:

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name:
Street Address:
City State Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank

	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	MTBE, BTEX, ETBE, TAME, DIPE, TBA by 8260B	LAB USE ONLY
	MW-73C (HS-S)		1/31/19	0900	BJ	GW	3	X								X	
	MW-73C (HS-D)		1/31/19	0910	BJ	GW	3	X								X	
	MW-73		1/31/19	0930	BJ	GW	3	X								X	
	MW-58		1/31/19	1000	BJ	GW	3	X								X	
	MW-58R		1/31/19	1020	BJ	GW	3	X								X	
	MW-58P		1/31/19	1040	BJ	GW	3	X								X	
	MW-178A		1/31/19	1100	BJ	GW	3	X								X	
	MW-180A		1/31/19	1130	BJ	GW	3	X								X	
	MW-179A		1/31/19	1150	BJ	GW	3	X								X	
	MW-82		1/31/19	1215	BJ	GW	3	X								X	
	TB19025		1/28/19	—	BA	TB	2	X								X	

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

- [X] Std. 10 Business Days
- [ ] 8 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [X] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		2/1/19 @ 1600	Stanton	Stanton	1832	2/2/19
2	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3			2-1-19 18:05	2/1/19	18:22	2/1/19 1832
4	Relinquished by:	Date Time:	Received By:	Custody Seal #	Intact / Not Intact	Preserved where applicable
5						On Ice: X Cooler Temp: 1.2°C

13459 2027685 9978403-27

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE ___ OF ___

Lancaster Laboratories

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17605
TEL. 717-656-2300
www.lancasterlabs.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job #

Client / Reporting Information

Company Name: Kleinfelder
Street Address: 1340 Charwood Road Ste. 1
City / State / Zip: Hanover, MD 21076
Project Contact / E-mail: Stacey Schiding
Phone # / Fax #: 410-850-0404
Sampler(s) Name(s) / Phone #: Charlie Brehm

SITE NAME - Provide Site Name for Retail or AFE Number for Major Projects

Retail Project (Site Name): Exxon - Phoenix
Major Project (AFE): 28077
Project Name: 14258 Jarrettsville Pike
City / State: Phoenix MD
ExxonMobil Manager: Jamila Chillemi
ExxonMobil Purchase Order #:

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name:
Street Address:
City / State / Zip:
Attention: PO#

Requested Analysis (see TEST CODE sheet)

MTBE, BTEX, ETBE, TAME, DIPE, TBA by 8260B
Full List VOCs +Oxy5 by 8260

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Preserved Bottles HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	MTBE, BTEX, ETBE, TAME, DIPE, TBA by 8260B	Full List VOCs +Oxy5 by 8260	LAB USE ONLY
	MW-188D(141.5)		1/31/19	1330	CB	GW	3	X								X		
	MW-188D(201)		1/31/19	1335	CB	GW	3	X								X		
	MW-188D(212.5)		1/31/19	1340	CB	GW	3	X								X		
	MW-188D(228.5)		1/31/19	1345	CB	GW	3	X								X		
	MW-188D(239)		1/31/19	1350	CB	GW	3	X								X		
	MW-188D(279.5)		1/31/19	1355	CB	GW	3	X								X		
	MW-188D(306.5)		1/31/19	1400	CB	GW	3	X								X		
	MW-188D(344)		1/31/19	1405	CB	GW	3	X								X		
	MW-188D(387)		1/31/19	1410	CB	GW	3	X								X		
	MW-188D(396)		1/31/19	1415	CB	GW	3	X								X		

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

- [X] Std. 10 Business Days
- [ ] 8 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [X] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

3M 238 2/2/19

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		1 2/1/19	2 2/1/19	18:22	2 0932
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3		3	4		4 2/1/19 17:52
Relinquished by:	Date Time:	Received By:	Custody Seal # ☐ Intact	Preserved where applicable	On Ice X Cooler Temp. 1.2°C

13459 2127685 9978903-27

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE ___ OF ___

Lancaster Laboratories

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TEL. 717-656-2300
www.lancasterlabs.com

FED-EX Tracking #	Bottle Order Control #
Lancaster Quote #	Lancaster Job #

Client / Reporting Information

Company Name: Kleinfelder
Street Address: 1340 Charwood Road Ste. 1
City: Hanover, MD State: Zip: 21076
Project Contact: Stacey Schiding E-mail:
Phone #: 410-850-0404 Fax #: 410-850-0049
Sampler(s) Name(s): Charlie Low Phone #:

SITE NAME - Provide Site Name for Retail or AFE Number for Major Projects

Retail Project (Site Name): Exxon - Phoenix 28077
Major Project (AFE):
Project Name: 14258 Jarrettsville Pike
City: Phoenix State: MD
ExxonMobil Manager: Jamila Chillemi
ExxonMobil Purchase Order #: Direct Bill to Exxon Mobil

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name:
Street Address:
City: State: Zip:
Attention: PO#

Requested Analysis (see TEST CODE sheet)

Lancaster Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	MTBE, BTEX, ETBE, TAME, DIPE, TBA by EPA 8260B	Full List VOCs + Oxy5 by 8260	LAB USE ONLY
	MW-152		2/1/19	1145	CL	GW	3	X								X	X	
	SVE-2		2/1/19	1315	CL	GW	3	X								X	X	
	SVE-3		2/1/19	1400	CL	GW	3	X								X	X	

Number of preserved Bottles

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank

Data Deliverable Information

Approved By (Accutest PM): / Date:

- [X] Std. 10 Business Days
- [ ] 8 Day *RUSH*
- [ ] 6 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

- [X] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Analyze for MTBE, BTEX, ETBE, TAME, DIPE, TBA - 8260B

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		2/1/19 1500	Stanton	Stanton		2/1/19 1506
2						
3	2/1/19	18:22	1832 2/2/19			2/1/19 1832
4						
5	Relinquished by:	Date Time:	Received By:	Custody Seal #	Intact / Not Intact	Preserved where applicable / On Ice / Cooler Temp
						1.2°C

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Sample Administration Receipt Documentation Log

Doc Log ID: 240068

Group Number(s): 202285

Client: Kleinfelder

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	02/01/2019 18:32
Number of Packages:	1	Number of Projects:	2
State/Province of Origin:	MD		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	No
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	2
Samples Intact:	Yes	Trip Blank Type:	HCl
Missing Samples:	No	Air Quality Samples Present:	No
Extra Samples:	Yes		
Discrepancy in Container Qty on COC:	No		

Unpacked by Brandon Cordova (25363) at 20:05 on 02/01/2019

Samples Chilled Details

Thermometer Types: *DT = Digital (Temp. Bottle)* *IR = Infrared (Surface Temp)* *All Temperatures in °C.*

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	1.2	DT	Wet	Y	Bagged	N

Extra Sample Details

Sample ID on Label	Number of Extra Containers	Date on Label	Comments
MW-188D(221)	3	1/31/2019 13:45	

Sample Date/Time Discrepancy Details

Sample ID on COC	Date/Time on Label	Comments
MW-188D (228.5)	1/31/2019 13:50	
MW-188D(239)	1/31/2019 13:55	
MW-188D(279.5)	1/31/2019 14:00	
MW-188D(306.5)	1/31/2019 14:05	
MW-188D(344)	1/31/2019 14:10	
MW-188D(387)	1/31/2019 14:15	
MW-188D(396)	1/31/2019 14:20	

2425 New Holland Pike
Lancaster, PA 17605-2425
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www.LancasterLabs.cor

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mL**	milliliter(s)
C	degrees Celsius	**MPN**	Most Probable Number
cfu	colony forming units	**N.D.**	non-detect
CP Units	cobalt-chloroplatinate units	**ng**	nanogram(s)
F	degrees Fahrenheit	**NTU**	nephelometric turbidity units
g	gram(s)	**pg/L**	picogram/liter
IU	International Units	**RL**	Reporting Limit
kg	kilogram(s)	**TNTC**	Too Numerous To Count
L	liter(s)	**µg**	microgram(s)
lb.	pound(s)	**µL**	microliter(s)
m3	cubic meter(s)	**umhos/cm**	micromhos/cm
meq	milliequivalents	**MCL**	Maximum Contamination Limit
mg	milligram(s)		

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
P^	Concentration difference between the primary and confirmation column > 40%. The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

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ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

ExxonMobil c/o Kleinfelder
550 West C Street
Suite 1200
San Diego CA 92101

Report Date: March 08, 2019 14:27

Project: 2-8077 - Phoenix, MD (GW)

Account #: 13459
Group Number: 2031659
PO Number: 51141-335196
Release Number: CHILLEMI
State of Sample Origin: MD

Electronic Copy To	Kleinfelder	Attn: Mark Schaaf
Electronic Copy To	Kleinfelder, MD	Attn: Stacey Schiding
Electronic Copy To	Kleinfelder, MD	Attn: Jen Kozak
Electronic Copy To	Kleinfelder, MD	Attn: Charlie Brehm
Electronic Copy To	Kleinfelder, MD	Attn: Charlie Low
Electronic Copy To	Kleinfelder, MD	Attn: Brendan Haffey

Respectfully Submitted,

Megan A. Moeller
Senior Specialist

(717) 556-7261

To view our laboratory's current scopes of accreditation please go to https://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/certifications-and-accreditations-eurofins-lancaster-laboratories-environmental/ . Historical copies may be requested through your project manager.

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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
MW-189D(79) Groundwater	02/28/2019 09:40	9996533
MW-189D(91.5) Groundwater	02/28/2019 09:50	9996534
MW-189D(117-119) Groundwater	02/28/2019 10:00	9996535
MW-189D(122) Groundwater	02/28/2019 10:10	9996536
MW-189D(138-140) Groundwater	02/28/2019 10:20	9996537
MW-189D(161) Groundwater	02/28/2019 10:30	9996538
MW-189D(216) Groundwater	02/28/2019 10:40	9996539
MW-189D(256-258) Groundwater	02/28/2019 10:50	9996540
MW-189D(278) Groundwater	02/28/2019 11:00	9996541
MW-189D(315) Groundwater	02/28/2019 11:10	9996542
MW-189D(357) Groundwater	02/28/2019 11:20	9996543
MW-189D(374) Groundwater	02/28/2019 11:30	9996544
MW-188D (141.5) Groundwater	02/28/2019 12:00	9996545
MW-188D (201) Groundwater	02/28/2019 12:05	9996546
MW-188D (212.5) Groundwater	02/28/2019 12:10	9996547
MW-188D (221) Groundwater	02/28/2019 12:15	9996548
MW-188D (228.5) Groundwater	02/28/2019 12:20	9996549
MW-188D (239) Groundwater	02/28/2019 12:25	9996550
MW-188D (279.5) Groundwater	02/28/2019 12:30	9996551
MW-188D (306.5) Groundwater	02/28/2019 12:35	9996552
MW-188D (344) Groundwater	02/28/2019 12:40	9996553
MW-188D (387) Groundwater	02/28/2019 12:45	9996554
MW-188D (396) Groundwater	02/28/2019 12:50	9996555
MW-37 [R] Groundwater	02/28/2019 14:00	9996556
MW-38 [R] Groundwater	02/28/2019 14:20	9996557
MW-38C [R] Groundwater	02/28/2019 14:40	9996558
MW-38B Groundwater	02/28/2019 15:00	9996559
MW-133B Groundwater	02/28/2019 12:45	9996560
MW-133A Groundwater	02/28/2019 13:00	9996561
MW-101B Groundwater	02/28/2019 13:30	9996562
MW-101A Groundwater	02/28/2019 13:45	9996563
MW-162A Groundwater	02/28/2019 15:20	9996564
MW-162B Groundwater	02/28/2019 15:10	9996565
STREAM02 Groundwater	02/28/2019 15:30	9996566
MW-133C (76) Groundwater	02/28/2019 12:00	9996567
MW-133C (107) Groundwater	02/28/2019 12:10	9996568
MW-133C (170) Groundwater	02/28/2019 12:20	9996569
MW-57P Groundwater	03/01/2019 09:35	9996570
MW-57 [R] Groundwater	03/01/2019 09:45	9996571
MW-58P Groundwater	03/01/2019 10:20	9996572
MW-58 [R] Groundwater	03/01/2019 10:35	9996573
MW-58R [R] Groundwater	03/01/2019 11:10	9996574
MW-107 Groundwater	03/01/2019 11:50	9996575
MW-89 [R] Groundwater	02/28/2019 08:30	9996576
MW-82B [R] Groundwater	02/28/2019 08:50	9996577
MW-82 [R] Groundwater	02/28/2019 09:10	9996578

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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Sample Description: **MW-188D (141.5) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 03/01/2019 17:20
Collection Date/Time: 02/28/2019 12:00

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9996545
ELLE Group #: 2031659
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10945	Benzene	71-43-2	N.D.	1	0.2	1
10945	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10945	Ethylbenzene	100-41-4	N.D.	1	0.2	1
10945	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	1	0.2	1
10945	Toluene	108-88-3	N.D.	1	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	8260 BTEX + 5 Oxys	SW-846 8260B	1	D190661AA	03/07/2019 18:05	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D190661AA	03/07/2019 18:04	Alexander D Sechrist	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D (201) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 03/01/2019 17:20
Collection Date/Time: 02/28/2019 12:05

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9996546
ELLE Group #: 2031659
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10945	Benzene	71-43-2	N.D.	1	0.2	1
10945	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10945	Ethylbenzene	100-41-4	N.D.	1	0.2	1
10945	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	1	0.2	1
10945	Toluene	108-88-3	N.D.	1	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	8260 BTEX + 5 Oxys	SW-846 8260B	1	D190661AA	03/07/2019 18:29	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D190661AA	03/07/2019 18:28	Alexander D Sechrist	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D (212.5) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 03/01/2019 17:20
Collection Date/Time: 02/28/2019 12:10

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9996547
ELLE Group #: 2031659
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10945	Benzene	71-43-2	N.D.	1	0.2	1
10945	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10945	Ethylbenzene	100-41-4	N.D.	1	0.2	1
10945	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	1	0.2	1
10945	Toluene	108-88-3	N.D.	1	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	8260 BTEX + 5 Oxys	SW-846 8260B	1	D190662AA	03/07/2019 15:51	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D190662AA	03/07/2019 15:50	Alexander D Sechrist	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D (221) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 03/01/2019 17:20
Collection Date/Time: 02/28/2019 12:15

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9996548
ELLE Group #: 2031659
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10945	Benzene	71-43-2	N.D.	1	0.2	1
10945	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10945	Ethylbenzene	100-41-4	N.D.	1	0.2	1
10945	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	1	0.2	1
10945	Toluene	108-88-3	N.D.	1	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	8260 BTEX + 5 Oxys	SW-846 8260B	1	D190661AA	03/07/2019 18:53	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D190661AA	03/07/2019 18:52	Alexander D Sechrist	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D (228.5) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 03/01/2019 17:20
Collection Date/Time: 02/28/2019 12:20

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9996549
ELLE Group #: 2031659
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10945	Benzene	71-43-2	N.D.	1	0.2	1
10945	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10945	Ethylbenzene	100-41-4	N.D.	1	0.2	1
10945	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	1	0.2	1
10945	Toluene	108-88-3	N.D.	1	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	8260 BTEX + 5 Oxys	SW-846 8260B	1	D190661AA	03/07/2019 19:17	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D190661AA	03/07/2019 19:16	Alexander D Sechrist	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D (239) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 03/01/2019 17:20
Collection Date/Time: 02/28/2019 12:25

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9996550
ELLE Group #: 2031659
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10945	Benzene	71-43-2	N.D.	1	0.2	1
10945	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10945	Ethylbenzene	100-41-4	N.D.	1	0.2	1
10945	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	1	0.2	1
10945	Toluene	108-88-3	N.D.	1	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	8260 BTEX + 5 Oxys	SW-846 8260B	1	D190661AA	03/07/2019 19:41	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D190661AA	03/07/2019 19:40	Alexander D Sechrist	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D (279.5) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 03/01/2019 17:20
Collection Date/Time: 02/28/2019 12:30

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9996551
ELLE Group #: 2031659
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	ug/l	
10945	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10945	Benzene	71-43-2	N.D.	1	0.2	1
10945	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10945	Ethylbenzene	100-41-4	N.D.	1	0.2	1
10945	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	1	0.2	1
10945	Toluene	108-88-3	N.D.	1	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	8260 BTEX + 5 Oxys	SW-846 8260B	1	D190661AA	03/07/2019 20:05	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D190661AA	03/07/2019 20:04	Alexander D Sechrist	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D (306.5) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 03/01/2019 17:20
Collection Date/Time: 02/28/2019 12:35

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9996552
ELLE Group #: 2031659
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10945	Benzene	71-43-2	N.D.	1	0.2	1
10945	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10945	Ethylbenzene	100-41-4	N.D.	1	0.2	1
10945	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	1	0.2	1
10945	Toluene	108-88-3	N.D.	1	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	8260 BTEX + 5 Oxys	SW-846 8260B	1	D190663AA	03/08/2019 06:20	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D190663AA	03/08/2019 06:19	Hu Yang	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D (344) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 03/01/2019 17:20
Collection Date/Time: 02/28/2019 12:40

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9996553
ELLE Group #: 2031659
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10945	Benzene	71-43-2	N.D.	1	0.2	1
10945	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10945	Ethylbenzene	100-41-4	N.D.	1	0.2	1
10945	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	1	0.2	1
10945	Toluene	108-88-3	N.D.	1	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	8260 BTEX + 5 Oxys	SW-846 8260B	1	D190662AA	03/07/2019 16:15	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D190662AA	03/07/2019 16:14	Alexander D Sechrist	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D (387) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 03/01/2019 17:20
Collection Date/Time: 02/28/2019 12:45

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9996554
ELLE Group #: 2031659
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10945	Benzene	71-43-2	N.D.	1	0.2	1
10945	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10945	Ethylbenzene	100-41-4	N.D.	1	0.2	1
10945	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	1	0.2	1
10945	Toluene	108-88-3	N.D.	1	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	8260 BTEX + 5 Oxys	SW-846 8260B	1	D190662AA	03/07/2019 16:39	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D190662AA	03/07/2019 16:38	Alexander D Sechrist	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-188D (396) Groundwater**
S2010L4236 2-8077 - Phoenix, MD

Project Name: **2-8077 - Phoenix, MD (GW)**

Submittal Date/Time: 03/01/2019 17:20
Collection Date/Time: 02/28/2019 12:50

ExxonMobil c/o Kleinfelder
ELLE Sample #: WW 9996555
ELLE Group #: 2031659
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	t-Amyl methyl ether	994-05-8	N.D.	1	0.3	1
10945	Benzene	71-43-2	N.D.	1	0.2	1
10945	t-Butyl alcohol	75-65-0	N.D.	25	10	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	1	0.2	1
10945	Ethylbenzene	100-41-4	N.D.	1	0.2	1
10945	di-Isopropyl ether	108-20-3	N.D.	1	0.2	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	1	0.2	1
10945	Toluene	108-88-3	N.D.	1	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.	5	0.5	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	8260 BTEX + 5 Oxys	SW-846 8260B	1	D190662AA	03/07/2019 17:03	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D190662AA	03/07/2019 17:02	Alexander D Sechrist	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: ExxonMobil c/o Kleinfelder
Reported: 03/08/2019 14:27

Group Number: 2031659

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	LOQ**	MDL
	ug/l	ug/l	ug/l
Batch number: D190661AA	Sample number(s): 9996533-9996546,9996548-9996551		
t-Amyl methyl ether	N.D.	1	0.3
Benzene	N.D.	1	0.2
t-Butyl alcohol	N.D.	25	10
Ethyl t-butyl ether	N.D.	1	0.2
Ethylbenzene	N.D.	1	0.2
di-Isopropyl ether	N.D.	1	0.2
Methyl Tertiary Butyl Ether	N.D.	1	0.2
Toluene	N.D.	1	0.2
Xylene (Total)	N.D.	5	0.5
Batch number: D190662AA	Sample number(s): 9996547,9996553-9996563		
t-Amyl methyl ether	N.D.	1	0.3
Benzene	N.D.	1	0.2
t-Butyl alcohol	N.D.	25	10
Ethyl t-butyl ether	N.D.	1	0.2
Ethylbenzene	N.D.	1	0.2
di-Isopropyl ether	N.D.	1	0.2
Methyl Tertiary Butyl Ether	N.D.	1	0.2
Toluene	N.D.	1	0.2
Xylene (Total)	N.D.	5	0.5
Batch number: D190663AA	Sample number(s): 9996552,9996564-9996567		
t-Amyl methyl ether	N.D.	1	0.3
Benzene	N.D.	1	0.2
t-Butyl alcohol	N.D.	25	10
Ethyl t-butyl ether	N.D.	1	0.2
Ethylbenzene	N.D.	1	0.2
di-Isopropyl ether	N.D.	1	0.2
Methyl Tertiary Butyl Ether	N.D.	1	0.2
Toluene	N.D.	1	0.2
Xylene (Total)	N.D.	5	0.5
Batch number: D190664AA	Sample number(s): 9996568-9996578		
t-Amyl methyl ether	N.D.	1	0.3
Benzene	N.D.	1	0.2
t-Butyl alcohol	N.D.	25	10
Ethyl t-butyl ether	N.D.	1	0.2
Ethylbenzene	N.D.	1	0.2
di-Isopropyl ether	N.D.	1	0.2
Methyl Tertiary Butyl Ether	N.D.	1	0.2

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ExxonMobil c/o Kleinfelder
Reported: 03/08/2019 14:27

Group Number: 2031659

Method Blank (continued)

Analysis Name	Result	LOQ**	MDL
	ug/l	ug/l	ug/l
Toluene	N.D.	1	0.2
Xylene (Total)	N.D.	5	0.5

LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: D190661AA	Sample number(s): 9996533-9996546,9996548-9996551								
t-Amyl methyl ether	20	18.29			91		66-120		
Benzene	20	18.7			93		80-120		
t-Butyl alcohol	200	175.02			88		60-130		
Ethyl t-butyl ether	20	17.79			89		68-121		
Ethylbenzene	20	17.67			88		80-120		
di-Isopropyl ether	20	16.98			85		70-124		
Methyl Tertiary Butyl Ether	20	17.66			88		69-122		
Toluene	20	18.39			92		80-120		
Xylene (Total)	60	54.95			92		80-120		
Batch number: D190662AA	Sample number(s): 9996547,9996553-9996563								
t-Amyl methyl ether	20	18.25			91		66-120		
Benzene	20	17.87			89		80-120		
t-Butyl alcohol	200	172.56			86		60-130		
Ethyl t-butyl ether	20	17.52			88		68-121		
Ethylbenzene	20	17.04			85		80-120		
di-Isopropyl ether	20	16.56			83		70-124		
Methyl Tertiary Butyl Ether	20	17.77			89		69-122		
Toluene	20	18.08			90		80-120		
Xylene (Total)	60	53.53			89		80-120		
Batch number: D190663AA	Sample number(s): 9996552,9996564-9996567								
t-Amyl methyl ether	20	20.07			100		66-120		
Benzene	20	20.22			101		80-120		
t-Butyl alcohol	200	188.04			94		60-130		
Ethyl t-butyl ether	20	19.24			96		68-121		
Ethylbenzene	20	18.63			93		80-120		
di-Isopropyl ether	20	18.21			91		70-124		
Methyl Tertiary Butyl Ether	20	19.3			96		69-122		
Toluene	20	19.89			99		80-120		
Xylene (Total)	60	58.79			98		80-120		
Batch number: D190664AA	Sample number(s): 9996568-9996578								
t-Amyl methyl ether	20	18.61			93		66-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ExxonMobil c/o Kleinfelder
Reported: 03/08/2019 14:27

Group Number: 2031659

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzene	20	18.91			95		80-120		
t-Butyl alcohol	200	173.46			87		60-130		
Ethyl t-butyl ether	20	18.03			90		68-121		
Ethylbenzene	20	17.45			87		80-120		
di-Isopropyl ether	20	17.23			86		70-124		
Methyl Tertiary Butyl Ether	20	18.27			91		69-122		
Toluene	20	18.62			93		80-120		
Xylene (Total)	60	55.04			92		80-120		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: D190661AA	Sample number(s): 9996533-9996546,9996548-9996551 UNSPK: 9996534									
t-Amyl methyl ether	0.914	20	21.13	20	20.55	101	98	66-120	3	30
Benzene	N.D.	20	20.64	20	20.23	103	101	80-120	2	30
t-Butyl alcohol	N.D.	200	184.86	200	179.71	92	90	60-130	3	30
Ethyl t-butyl ether	7.32	20	27.18	20	26.24	99	95	68-121	4	30
Ethylbenzene	N.D.	20	19.99	20	19.06	100	95	80-120	5	30
di-Isopropyl ether	2.48	20	21.1	20	20.61	93	91	70-124	2	30
Methyl Tertiary Butyl Ether	38.1	20	56.85	20	54.47	94	82	69-122	4	30
Toluene	N.D.	20	20.97	20	19.94	105	100	80-120	5	30
Xylene (Total)	N.D.	60	62.19	60	59.2	104	99	80-120	5	30

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260 BTEX + 5 Oxys
Batch number: D190661AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9996533	110	101	98	95
9996534	110	101	97	93
9996535	109	102	97	94
9996536	109	101	97	94

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ExxonMobil c/o Kleinfelder
Reported: 03/08/2019 14:27

Group Number: 2031659

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260 BTEX + 5 Oxys
Batch number: D190661AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9996537	111	103	97	94
9996538	110	102	97	94
9996539	109	100	98	94
9996540	109	100	97	93
9996541	107	100	97	94
9996542	108	101	96	94
9996543	109	99	97	94
9996544	109	99	99	94
9996545	110	102	97	93
9996546	110	99	97	94
9996548	109	101	96	92
9996549	109	102	98	95
9996550	110	100	96	94
9996551	110	102	97	94
Blank	108	101	98	94
LCS	107	103	98	101
MS	106	102	99	102
MSD	107	101	98	99
Limits:	80-120	80-120	80-120	80-120

Analysis Name: 8260 BTEX + 5 Oxys
Batch number: D190662AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9996547	110	101	97	94
9996553	111	104	97	94
9996554	111	103	97	93
9996555	111	101	96	93
9996556	112	103	97	94
9996557	110	102	97	94
9996558	110	100	97	92
9996559	111	102	97	94
9996560	111	102	97	92
9996561	111	100	96	92
9996562	112	102	97	94
9996563	110	103	97	94
Blank	109	101	98	95
LCS	106	101	99	101
Limits:	80-120	80-120	80-120	80-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ExxonMobil c/o Kleinfelder
Reported: 03/08/2019 14:27

Group Number: 2031659

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260 BTEX + 5 Oxys
Batch number: D190663AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9996552	108	102	97	93
9996564	110	103	97	94
9996565	110	102	97	94
9996566	109	100	96	93
9996567	108	101	97	94
Blank	109	102	98	95
LCS	107	104	99	102
Limits:	80-120	80-120	80-120	80-120

Analysis Name: 8260 BTEX + 5 Oxys
Batch number: D190664AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9996568	110	104	97	94
9996569	109	105	98	95
9996570	110	104	97	94
9996571	111	104	97	94
9996572	110	105	97	93
9996573	111	103	98	94
9996574	110	105	97	93
9996575	110	103	96	92
9996576	112	104	97	93
9996577	112	103	98	93
9996578	112	104	97	93
Blank	110	101	98	93
LCS	106	103	98	102
Limits:	80-120	80-120	80-120	80-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
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CHAIN OF CUSTODY- ExxonMobil Projects

PAGE ___ OF ___

Lancaster Laboratories

Drop Box - ML

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17605
TEL. 717-656-2300
www.lancasterlabs.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job #

Client / Reporting Information

Company Name	Street Address	City	State	Zip
Kleinfelder	1745 Dorsey Rd Suite J	Hanover, MD		21076

Project Contact: Stacey Schiding
E-mail:
Phone #: 410-850-0404
Fax #:
Sampler(s) Name(s): Brendan Haffey
Phone #:

SITE NAME - Provide Site Name for Retail or AFE Number for Major Projects

Retail Project (Site Name): Exxon - Phoenix
Major Project (AFE): 28077
Project Name: 14258 Jarrettsville Pike
City: Phoenix State: MD
ExxonMobil Manager: Jamila Chillemi
ExxonMobil Purchase Order #:

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name:
Street Address:
City State Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank

	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	MTBE, BTEX, ETBE, TAME, DIPE, TBA by 8260B	Full List VOCs +Oxy5 by 8260	LAB USE ONLY
	MW-189D(79)		2/28/19	0940	BH	GW	3	X								X		
	MW-189D(91.5)		2/28/19	0950	BH	GW	3	X								X		
	MW-189D(117-119)		2/28/19	1000	BH	GW	3	X								X		
	MW-189D(122)		2/28/19	1010	BH	GW	3	X								X		
	MW-189D(138-140)		2/28/19	1020	BH	GW	3	X								X		
	MW-189D(161)		2/28/19	1030	BH	GW	3	X								X		
	MW-189D(216)		2/28/19	1040	BH	GW	3	X								X		
	MW-189D(256-258)		2/28/19	1050	BH	GW	3	X								X		
	MW-189D(278)		2/28/19	1100	BH	GW	3	X								X		
	MW-189D(315)		2/28/19	1110	BH	GW	3	X								X		
	MW-189D(357)		2/28/19	1120	BH	GW	3	X								X		
	MW-189D(374)		2/28/19	1130	BH	GW	3	X								X		

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

- [X] Std. 10 Business Days
- [ ] 8 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [X] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		2/28/19 1545	1 3/1/19 12:50	2 3/1/19	17:20	2
3			3	4	3/1/19 1720	4
5			5	Custody Seal #	Intact / Not Intact	Preserved where applicable / On Ice / Cooler Temp.

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CHAIN OF CUSTODY- ExxonMobil Projects

PAGE ___ OF ___

Lancaster Laboratories

Drop Box -MW

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2425 New Holland Pike, Lancaster, PA 17605
TEL. 717-656-2300
www.lancasterlabs.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job #

Client / Reporting Information

Company Name: Kleinfelder
Street Address: 1745 Dorsey Rd Ste J
City: Hanover, State: MD, Zip: 21076
Project Contact: Stacey Schiding, E-mail:
Phone #: 410-850-0404, Fax #:
Sampler(s) Name(s): Charlie Brehm, Phone #:

SITE NAME - Provide Site Name for Retail or AFE Number for Major Projects

Retail Project (Site Name): Exxon - Phoenix
Major Project (AFE): 28077
Project Name: 14258 Jarrettsville Pike
City: Phoenix, State: MD
ExxonMobil Manager: Jamila Chillemi
ExxonMobil Purchase Order #:

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name:
Street Address:
City, State, Zip:
Attention: PO#

Requested Analysis (see TEST CODE sheet)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	MTBE, BTEX, ETBE, TAME, DIPE, TBA by 8260B	Full List VOCs +Oxy5 by 8260	LAB USE ONLY
	MW-188D (141.5)		2/28/19	1200	CB	GW	3	X								X		
	MW-188D (201)		2/28/19	1205	CB	GW	3	X								X		
	MW-188D (212.5)		2/28/19	1210	CB	GW	3	X								X		
	MW-188D (221)		2/28/19	1215	CB	GW	3	X								X		
	MW-188D (228.5)		2/28/19	1220	CB	GW	3	X								X		
	MW-188D (239)		2/28/19	1225	CB	GW	3	X								X		
	MW-188D (279.5)		2/28/19	1230	CB	GW	3	X								X		
	MW-188D (306.5)		2/28/19	1235	CB	GW	3	X								X		
	MW-188D (344)		2/28/19	1240	CB	GW	3	X								X		
	MW-188D (387)		2/28/19	1245	CB	GW	3	X								X		
	MW-188D (396)		2/28/19	1250	CB	GW	3	X								X		

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

- [x] Std. 10 Business Days
- [ ] 8 Day *RUSH*
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- [ ] 3 Day *EMERGENCY*
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Emergency & Rush T/A data available VIA Lablink

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- [x] Commercial "A" (Level 1)
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Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1			1 3/1/19 12:30	2 3/1/19	17:20	2
3	Relinquished by Sampler:	Date Time:	3 Received By:	4 Relinquished By:	3/1/19 1720	4 Received By:
5	Relinquished by:	Date Time:	5 Received By:	Custody Seal #	Intact / Not Intact	Preserved where applicable / On Ice / Cooler Temp.

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CHAIN OF CUSTODY- ExxonMobil Projects

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Lancaster Laboratories

Drop Box - MD

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TEL. 717-656-2300
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FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job #

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Company Name: Kleinfelder
Street Address: 1745 Dorsey Rd Ste J
City, State, Zip: Hanover, MD 21076
Project Contact: Stacey Schiding
E-mail:
Phone #: 410-850-0404
Fax #:
Sampler(s) Name(s): Charlie Brehm
Phone #:

SITE NAME - Provide Site Name for Retail or AFE Number for Major Projects

Retail Project (Site Name): Exxon - Phoenix
Major Project (AFE): 28077
Project Name: 14258 Jarrettsville Pike
City: Phoenix
State: MD
ExxonMobil Manager: Jamila Chillemi
ExxonMobil Purchase Order #:

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name:
Street Address:
City, State, Zip:
Attention:
PO#:

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DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
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SOL - Other Solid
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FB-Field Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	MTBE, BTEX, ETBE, TAME, DIPE, TBA by 8260B	Full List VOCs +Oxy5 by 8260	LAB USE ONLY
	MW-37 [R]		2/28/19	1400	CB	GW	3	X								X		
	MW-38 [R]		2/28/19	1420	CB	GW	3	X								X		
	MW-38C [R]		2/28/19	1440	CB	GW	3	X								X		
	MW-38B		2/28/19	1500	CB	GW	3	X								X		

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

- [X] Std. 10 Business Days
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	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1			3/1/19 12:50	3/1/19	17:20	
2						
3	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time: 3/1/19 1720	Received By:
4	Relinquished by:	Date Time:	Received By:	Custody Seal #	☐ Intact	Preserved where applicable / On Ice / Cooler Temp. 3.9

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CHAIN OF CUSTODY- ExxonMobil Projects

PAGE ___ OF ___

Lancaster Laboratories

Dog Box - MW

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2425 New Holland Pike, Lancaster, PA 17605
TEL. 717-656-2300
www.lancasterlabs.com

FED-EX Tracking # | Bottle Order Control #

Accutest Quote # | Accutest Job #

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Project Contact: Stacey Schiding | E-mail:
Phone #: 410-850-0404 | Fax #:
Sampler(s) Name(s): Brendan Haffey | Phone #:

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Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	MTBE, BTEX, ETBE, TAME, DIPE, TBA by 8260B	Full List VOCs +Oxy5 by 8260	LAB USE ONLY
	MW-133B		2/28/19	1245	BH	GW	3	X								X		
	MW-133A		2/28/19	1300	BH	GW	3	X								X		
	MW-101B		2/28/19	1330	BH	GW	3	X								X		
	MW-101A		2/28/19	1345	BH	GW	3	X								X		
	MW-162A		2/28/19	1520	BH	GW	3	X								X		
	MW-162B		2/28/19	1510	BH	GW	3	X								X		
	STREAM02		2/28/19	1530	BH	GW	3	X								X		
	MW-133C (76)		2/28/19	1200	BH	GW	3	X								X		
	MW-133C (107)		2/28/19	1210	BH	GW	3	X								X		
	MW-133C (170)		2/28/19	1220	BH	GW	3	X								X		

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

- [X] Std. 10 Business Days
- [ ] 8 Day *RUSH*
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Emergency & Rush T/A data available VIA Lablink

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1		2/28/19 1545	1	2	3/1/19 17:20	2
3	Relinquished by Sampler:	Date Time:	Received By: 3	Relinquished By: 4	Date Time: 3/1/19 17	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐ On Ice ☐ Cooler Temp. 3.9

13459 2031659 9996533-78

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE ___ OF ___

Lancaster Laboratories

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ExxonMobil Environmental Services Co.

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LIQ - Other Liquid
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SOL - Other Solid
WP - Wipe
FB-Field Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	MTBE, BTEX, ETBE, TAME, DIPE, TBA by 8260B	Full List VOCs +Oxy5 by 8260	LAB USE ONLY
	MW-57P		3/1/19	0935	BH	GW	3	X								X		
	MW-57 [R]		3/1/19	0945	BH	GW	3	X								X		
	MW-58P		3/1/19	1020	BH	GW	3	X								X		
	MW-58 [R]		3/1/19	1035	BH	GW	3	X								X		
	MW-58R [R]		3/1/19	1110	BH	GW	3	X								X		
	MW-107		3/1/19	1150	BH	GW	3	X								X		

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

- [X] Std. 10 Business Days
- [ ] 8 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
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Emergency & Rush T/A data available VIA Lablink

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Commercial "B" = Results + QC Summary
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Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		3/1/19 1210	1 3/1/19 12:50	2 3/1/19	17:20	2
3			3	4	3/1/19 1720	4
5			5			

Custody Seal #: ☐ Intact ☐ Not intact
Preserved where applicable ☐
On Ice ☐
Cooler Temp. 3.9

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 242528

Group Number(s): 2031659

Client: Kleinfelder

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	03/01/2019 17:20
Number of Packages:	1	Number of Projects:	1

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	No
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	Yes		
Discrepancy in Container Qty on COC:	No		

Unpacked by Ariel Garcia (15332) at 21:13 on 03/01/2019

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	3.9	DT	Wet	Y	Bagged	N

Extra Sample Details

Sample ID on Label	Number of Extra Containers	Date on Label	Comments
MW-89 [R]	3	2/28/2019 08:30	
MW-82B [R]	3	2/28/2019 08:50	
MW-82 [R]	3	2/28/2019 09:10	

Sample Date/Time Discrepancy Details

Sample ID on COC	Date/Time on Label	Comments
MW-188D (279.5)	2/28/2019 12:25	
MW-188D (306.5)	2/28/2019 12:25	
MW-188D (344)	2/28/2019 12:30	
MW-188D (387)	2/28/2019 12:35	
MW-188D (396)	2/28/2019 12:40	

2425 New Holland Pike
Lancaster, PA 17605-2425
T : 717-656-2300
F : 717-656-2681
www.LancasterLabs.cor

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mL**	milliliter(s)
C	degrees Celsius	**MPN**	Most Probable Number
cfu	colony forming units	**N.D.**	non-detect
CP Units	cobalt-chloroplatinate units	**ng**	nanogram(s)
F	degrees Fahrenheit	**NTU**	nephelometric turbidity units
g	gram(s)	**pg/L**	picogram/liter
IU	International Units	**RL**	Reporting Limit
kg	kilogram(s)	**TNTC**	Too Numerous To Count
L	liter(s)	**µg**	microgram(s)
lb.	pound(s)	**µL**	microliter(s)
m3	cubic meter(s)	**umhos/cm**	micromhos/cm
meq	milliequivalents	**MCL**	Maximum Contamination Limit
mg	milligram(s)		

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
P^	Concentration difference between the primary and confirmation column > 40%. The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.