HAND DELIVERED

February 21, 2014

Mr. Christopher Ralston
Maryland Department of the Environment
Remediation Division, Oil Control Program
1800 Washington Blvd., Suite 620
Baltimore, Maryland 21230

RE: Well Installation and Deepening Report for Nine Wells
Exxon Service Station #28077
14258 Jarrettsville Pike
Phoenix, Baltimore County, Maryland
Facility I.D. No. 12342
Case No. 2006-0303-BA2

Dear Mr. Ralston:

This letter report is submitted by Kleinfelder on behalf of Exxon Mobil Environmental Services Company (ExxonMobil) to summarize monitoring well installation activities. The monitoring wells were installed as proposed in the *Additional Site Characterization Work Plan*[1] *("Work Plan")* and as approved in the Maryland Department of the Environment's (MDE) February 20, 2013 *Work Plan Approval*.[2] This report is submitted in response to MDE's January 16, 2014 email[3] requesting a report of results, including boring logs, geophysical logs, laboratory data (table summary and lab reports), water level data, and a recommended vertical zone sampling plan.

[1] Kleinfelder, June 21, 2012, Additional Site Characterization Work Plan, Inactive Exxon Facility #28077, 14258 Jarrettsville Pike, Phoenix, Maryland, MDE Case No. 2006-0303-BA2
[2] MDE, February 20, 2013, Work Plan Approval for Additional Site Characterization Work Plan, Case Number 2006-0303-BA2 Former Exxon R/S No. 2-8077 14258 Jarrettsville Pike, Phoenix, Baltimore County, Maryland

The objectives of the Work Plan were as follows:

1. Establish four additional 'D'-zone monitoring points (greater than 300 feet below ground surface [ft-bgs]) in the near northeast area ('Inner Array') to supplement existing vertical delineation;

2. Encompass the near northeast area with additional monitoring points ('Outer Array') to provide a sentinel array corresponding to the 'D'-zone (greater than 300 ft-bgs);

3. Provide supplemental characterization data beneath, and along strike and down dip of the original release area on the former service station property and within relatively close proximity ('Service Station / Intersection Area').

Monitoring Well Installation

As proposed in the Work Plan and previously reported to MDE in the *Third Quarter 2013 Groundwater Monitoring and Remedial Status Report,*[4] and in the *Fourth Quarter 2013 Groundwater Monitoring and Remedial Status Report,*[5] well deepening/installation and geophysical surveys have been completed for the following wells[6]:

Inner Array	*Outer Array*	*Service Station*
MW-36C	MW-48D	MW-27B
MW-138D	MW-131C	
MW-171C	MW-135C	
PW-3501	MW-188D	

[3] E. Jackson (MDE) email to M. Schaaf (Kleinfelder), January 16, 2014 (no subject line)
[4] Kleinfelder, November 15, 2013, Third Quarter 2013 Groundwater Monitoring and Remedial Status Report, Inactive Exxon Facility #28077, 14258 Jarrettsville Pike, Phoenix, Maryland, Case Number 2006-0303-BA2, Facility I.D. No. 12342
[5] Kleinfelder, February 15, 2013, Fourth Quarter 2013 Groundwater Monitoring and Remedial Status Report, Inactive Exxon Facility #28077, 14258 Jarrettsville Pike, Phoenix, Maryland, Case Number 2006-0303-BA2, Facility I.D. No. 12342
[6] Kleinfelder is awaiting downhole geophysical reports for MW-73C and MW-186D and will provide a similar report as a separate submittal in the near future.

New well locations were cleared via airknife to a depth of five or eight feet (depending on proximity to subsurface structures and/or utilities), after which the borehole was advanced with an air rotary drill rig. Deepened wells were drilled via air rotary rig. Well construction details are summarized in the table below:

Well ID	Casing / Borehole Diameter (inches)	Dates Installed/ Deepened	Steel Casing Length (feet)	Original Bottom Depth (fbg)	Final Bottom Depth (fbg)
MW-27B	6”	7/9/2013 - 7/12/2013	60	N/A	125
PW-3501	6”	7/15/2013 - 7/19/2013	27	300	425
MW-171C	10”	7/22/2013 - 7/25/2013	125	250	415
MW-135C	6”	7/29/2013 - 7/30/2013	60	300	397
MW-188D	6”	7/31/2013 - 8/5/2013	125	N/A	436
MW-138D	6”	8/6/2013 - 8/9/2013	60	N/A	404
MW-36C	10”	8/17/2013 - 8/18/2013	125	300	424
MW-48D	6”	9/30/2013 - 10/4/2013	55	N/A	403
MW-131C	6”	10/7/2013 - 10/8/2013	60	300	359

As previously reported to, and approved by, the MDE, the locations for MW-138D and MW-188D differ from those originally proposed in the Work Plan. Monitoring well MW-138D was relocated away from the septic system leach field for 3506 Hampshire Glen Court, and MW-188D was installed in lieu of deepening PW-14311 due to overhead power line relocation during State Highway Authority construction. Per the August 21, 2012 email from Kleinfelder to MDE describing the sequence of field work in the Work Plan, rubber “K-packers” were installed at the former bottom depth or at 300’ bgs to temporarily segregate the upper and lower portions of the borehole pending receipt of groundwater analytical results.

The final locations for the above-listed wells are identified on **Figure 1**. The following data for each of the completed wells is included in this letter report:

- Analytical and gauging results tables (**Tables 1 & 2**);
- Laboratory analytical reports (**Appendix A**);

- Boring and well construction logs (**Appendix B**);
- Geophysical logs (**Appendix C**);
- State Well Completion Reports (**Appendix D**);
- Proposed HydraSleeve™ sampling depths (**Table 3**).

Groundwater Sampling

Following the completion and purging of the wells, with the exception of MW-27B, a rubber "K-packer" was installed to temporarily segregate the upper and lower portions of the newly installed or deepened monitoring wells. Grab samples were collected from above and below the packer and submitted to the laboratory for analysis of Full List VOCs according to U.S. EPA SW-846 Method 8260B. The temporary packers were removed from all wells prior to downhole geophysics being conducted (discussed below). Based on MTBE concentrations within the well, the packer in MW-188D was reinstalled on October 28, 2013. Following borehole geophysics, wells were evacuated and allowed to recharge. Composite HydraSleeve™ samples were collected from shallow and deep zones for a period of between three and seven months, with the exception of well MW-138D as noted below. A summary of analytical results can be found in **Table 2** and laboratory analytical reports are presented in **Appendix A**.

Groundwater Gauging

Groundwater was gauged with an electronic interface probe (EIP) during and after well installation / deepening to monitor the rate of groundwater recharge. New wells were gauged the morning after casing was set and grouted into place. Wells were also gauged if drilling was paused overnight before reaching the terminal depth. After installation, wells were initially gauged daily and then less frequently based on the rate of groundwater recovery. The groundwater level in some wells reached equilibrium within a few days, while others took a longer time to reach equilibrium. After the groundwater level in a well reached equilibrium the gauging frequency was reduced to a monthly basis. Wells with slower groundwater recovery were gauged at least weekly for the first month and then on a monthly basis thereafter. Gauging results for newly installed/deepened wells are presented in **Table 1**.

FLUTe™ Liners

The Work Plan originally proposed the installation of water FLUTe™ liners in the "inner array" (MW-36C, MW-138D, MW-171C and PW-3501). However, concentrations of MTBE in the "D"-zone for MW-36C, MW-171C and PW-3501 do not support the installation of FLUTe™ liners at this time. Based on analytical results, a FLUTe™ liner was proposed for MW-138D. As reported in the *Third Quarter 2013 Groundwater Monitoring and Remedial Status Report*, a "blank" FLUTe™ liner (i.e., without sampling ports) was installed in MW-138D on September 24, 2013. A work plan detailing the proposed custom FLUTe™ liner system for MW-138D was submitted to the MDE on January 15, 2014.[7]

Geophysical Surveys

The newly drilled or deepened monitoring wells have been logged using the following borehole geophysical methods: optical televiewer, acoustic televiewer, borehole verticality, 3-arm caliper, acoustic caliper, fluid temperature, fluid conductivity, natural gamma, and heat pulse flowmeter. Borehole geophysical results are presented in **Appendix C**.

Proposed HydraSleeve™ Sampling Intervals

Based on the analytical results obtained to date and a review of corresponding geophysical logs (**Appendix C**), proposed intervals for discrete-depth HydraSleeve™ sampling are presented in **Table 3**. Upon approval of these intervals by MDE, sampling will be conducted monthly for a period of three months per the Work Plan. Based on the analytical results obtained during this period, modification to the sampling frequency may be proposed to the MDE for review and approval.

[7] Kleinfelder, January 15, 2014, MW-138D FLUTe™ Liner Installation and MW-82D Well Installation Work Plan, Inactive Exxon Facility #28077, 14258 Jarrettsville Pike, Phoenix, Maryland, Case Number 2006-0303-BA2, Facility I.D. No. 12342

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

Sincerely,

Kleinfelder, Inc.

Jeffrey R. Hale, P.G.
Principal Hydrogeologist

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

ATTACHMENTS

Table 1	Gauging Data
Table 2	Summary of Groundwater Analytical Results
Table 3	Borehole Geophysical Analysis and Proposed HydraSleeve™ Sample Depths
Figure 1	New Well and FLUTe Liner Location Map
Appendix A	Laboratory Analytical Reports
Appendix B	Boring and Well Construction Logs
Appendix C	Geophysical Logs
Appendix D	State Well Completion Reports

cc: Mr. John J. Hoban – ExxonMobil (project file)
Ms. Ellen Jackson – Maryland Department of the Environment
Mr. Christopher Ralston – Maryland Department of the Environment
Mr. Greg Martin – Roux Associates, Inc.
Carlos Bollar, Esquire – Archer & Greiner, P.C.
Theodore M. Flerlage, Esquire – Law Offices of Peter Angelos

TABLES

Table 1 - Gauging Data
(Nine New and Deepened Wells - July 11, 2013 through January 31, 2014)
Inactive Exxon Facility #28077
14258 Jarrettsville Pike
Phoenix, Maryland

Well	Date	Depth to Groundwater (ft-toc)	Depth to Water Above Packer (ft-toc)	Depth to Water Below Packer (ft-toc)	Comments
MW-27B	7/11/2013	53.5	-	-	Well drilling in progress at time of gauging (11:40 hours). Depth at 60 ft-bgs. Casing not yet installed.
	7/12/2013	49	-	-	Well drilling in progress at time of gauging (08:15 hours). Depth at 60 ft-bgs. Casing installed with grout the day prior on 7/11/2013.
	7/12/2013	Dry	-	-	Well drilling in progress. Depth at 60 ft-bgs. Casing installed with grout day prior on 7/11/2013. Well flushed out with water and then air from 09:15 to 09:30 hours on 7/12/2013. Gauging at 09:31 hours.
	7/12/2013	Dry	-	-	Well drilling in progress. Depth at 60 ft-bgs. Casing installed with grout day prior on 7/11/2013. Well flushed out with water and then air from 09:15 to 09:30 hours on 7/12/2013. Gauging at 09:45 hours.
	7/12/2013	Dry	-	-	Well drilling in progress. Depth at 60 ft-bgs. Casing installed with grout day prior on 7/11/2013. Well flushed out with water and then air from 09:15 to 09:30 hours on 7/12/2013. Gauging at 10:00 hours.
	7/12/2013	Dry	-	-	Well drilling in progress. Depth at 60 ft-bgs. Casing installed with grout day prior on 7/11/2013. Well flushed out with water and then air from 09:15 to 09:30 hours on 7/12/2013. Gauging at 10:31 hours.
	7/12/2013	125.47	-	-	Gauging at 11:57 hours after well drilled to terminal depth of 125.7 ft-bgs at 11:45 hours on 7/12/2013.
	7/12/2013	124.66	-	-	Gauging at 13:22 hours after well drilled to terminal depth of 125.7 ft-bgs at 11:45 hours on 7/12/2013.
	7/12/2013	123.78	-	-	Gauging at 15:08 hours after well drilled to terminal depth of 125.7 ft-bgs at 11:45 hours on 7/12/2013.
	7/15/2013	86.89	-	-	Gauging at 11:20 hours on 7/15/2013 after well drilled to terminal depth of 125.7 ft-bgs at 11:45 hours on 7/12/2013.

Kleinfelder
1340 Charwood Road, Suite I, Hanover, MD

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Phoenix, Maryland

Well	Date	Depth to Groundwater (ft-toc)	Depth to Water Above Packer (ft-toc)	Depth to Water Below Packer (ft-toc)	Comments
MW-27B	7/15/2013	83.23	-	-	Gauging at 18:25 hours on 7/15/2013 after well drilled to terminal depth of 125.7 ft-bgs at 11:45 hours on 7/12/2013.
	7/18/2013	57.08	-	-	Gauging at 17:15 hours on 7/18/2013 after well drilled to terminal depth of 125.7 ft-bgs at 11:45 hours on 7/12/2013.
	7/31/2013	49.81	-	-	Gauging at 13:15 hours on 7/31/2013 after well drilled to terminal depth of 125.7 ft-bgs at 11:45 hours on 7/12/2013.
	8/1/2013	48.82	-	-	Gauging at 07:40 hours on 8/1/2013 after well drilled to terminal depth of 125.7 ft-bgs at 11:45 hours on 7/12/2013.
	8/1/2013	118.47	-	-	Gauging at 09:35 hours immediately after well purged.
	8/2/2013	99.32	-	-	Well gauged at 11:30 hours on 8/2/2013 after purge on 8/1/2013 at 09:30 hours. Water level in well rising.
	8/5/2013	56.41	-	-	Well purged on 8/1/2013. Water level in well rising.
	8/6/2013	52.28	-	-	Well purged on 8/1/2013. Waer level in well rising.
	8/7/2013	48.85	-	-	Well purged on 8/1/2013. Water level in well rising.
	8/9/2013	46.37	-	-	Well purged on 8/1/2013. Water level in well rising.
	8/15/2013	46.20	-	-	Well purged on 8/1/2013. Well gauged on 8/15/2013 immediately prior to subsequent well purge.
	8/15/2013	118.97	-	-	Well gauged immediately after purging 130 gallons from the well.
	8/16/2013	98.83	-	-	Well purged on 8/15/2013. Water level in well rising.
	8/19/2013	56.25	-	-	Well purged on 8/15/2013. Water level in well rising.
	8/20/2013	54.03	-	-	Well purged on 8/15/2013. Water level in well rising.
	8/22/2013	45.26	-	-	Well purged on 8/15/2013. Water level in well rising.
	8/23/2013	44.73	-	-	Well purged on 8/15/2013. Water level in well rising.
	8/28/2013	43.69	-	-	Well purged on 8/15/2013. Water level in well rising.

Table 1 - Gauging Data

(Nine New and Deepened Wells - July 11, 2013 through January 31, 2014)

Inactive Exxon Facility #28077

14258 Jarrettsville Pike

Phoenix, Maryland

Well	Date	Depth to Groundwater (ft-toc)	Depth to Water Above Packer (ft-toc)	Depth to Water Below Packer (ft-toc)	Comments
MW-27B	8/29/2013	43.75	-	-	Well purged on 8/15/2013. Well gauged on 8/29/2013 immediately prior to subsequent well purge.
	8/29/2013	122.97	-	-	Well gauged immediately after purging 135 gallons from the well.
	9/9/2013	44.06	-	-	Well purged on 8/29/2013.
	9/27/2013	43.99	-	-	Well purged on 8/29/2013. Well gauged on 9/27/2013 immediately prior to subsequent well purge.
	9/27/2013	122.78	-	-	Well gauged immediately after purge.
	10/18/2013	44.26	-	-	Well purged between gaugings.
	11/15/2013	76.23	-	-	Well purged between gaugings.
	12/12/2013	39.43	-	-	Well purged between gaugings.
	1/30/2014	44.41	-	-	Well purged between gaugings.

Table 1 - Gauging Data

(Nine New and Deepened Wells - July 11, 2013 through January 31, 2014)

Inactive Exxon Facility #28077

14258 Jarrettsville Pike

Phoenix, Maryland

Well	Date	Depth to Groundwater (ft-toc)	Depth to Water Above Packer (ft-toc)	Depth to Water Below Packer (ft-toc)	Comments
PW-3501	7/18/2013	366	-	-	Well deepened to 425 ft-bgs on 7/18/2013 and flushed with water/air. Well gauged at 10:45 hours, after deepening.
	7/19/2013	-	-	292	Second well flush with water/air at 09:30 hours on 7/19/2013. Packer installed at 300 ft-bgs at 13:35 hours. Well gauged at 13:40 hours.
	7/19/2013	-	269	-	Second well flush with water/air at 09:30 hours on 7/19/2013. Packer installed at 300 ft-bgs at 13:35 hours. Well gauged at 13:55 hours.
	7/22/2013	-	44.41	44.43	
	7/22/2013	-	44.55	44.56	
	8/5/2013	-	44.85	44.85	
	9/11/2013	-	46.60	46.60	
	10/7/2013	46.47	-	-	Packer removed from well on 9/23/2013.
	11/7/2013	46.14	-	-	
	12/5/2013	46.77	-	-	
	12/27/2013	46.75	-	-	
	1/15/2014	45.77	-	-	
	1/31/2014	44.74	-	-	

Table 1 - Gauging Data

(Nine New and Deepened Wells - July 11, 2013 through January 31, 2014)

Inactive Exxon Facility #28077

14258 Jarrettsville Pike

Phoenix, Maryland

Well	Date	Depth to Groundwater (ft-toc)	Depth to Water Above Packer (ft-toc)	Depth to Water Below Packer (ft-toc)	Comments
MW-171C	7/25/2013	379.5	-	-	Well advanced to 342 ft-bgs on 7/23/13. Well deepened to 415 ft-bgs and flushed/developed on 7/24/2013. Well purged again on 7/25/2013 and
	7/29/2013	-	Dry	273.73	Well purged on 7/25/2013. Water level in well rising.
	8/1/2013	-	Dry	362.41	Well purged on 7/25/2013. Water level in well rising.
	8/5/2013	-	Dry	347.96	Well purged on 7/25/2013. Water level in well rising.
	8/12/2013	-	Dry	323.17	Well purged on 7/25/2013. Water level in well rising.
	8/19/2013	-	Dry	299.03	Well purged on 7/25/2013. Water level in well rising.
	8/20/2013	-	Dry	296.44	Well purged on 7/25/2013. Water level in well rising.
	8/26/2013	-	Dry	276.43	Well purged on 7/25/2013. Water level in well rising.
	9/3/2013	-	249.30	249.79	Well purged on 7/25/2013. Water level in well rising.
	9/9/2013	-	231.14	231.14	Well purged on 7/25/2013. Water level in well rising.
	10/7/2013	154.5	-	-	Well purged on 7/25/2013. Water level in well rising. Packer removed from well on 9/23/2013.
	10/8/2013	152.39	-	-	Well purged on 7/25/2013. Water level in well rising.
	11/12/2013	98.26	-	-	Well purged on 7/25/2013. Water level in well rising.
	12/10/2013	79.11	-	-	Well purged on 7/25/2013. Water level in well rising.
	1/15/2014	67.16	-	-	Well purged on 7/25/2013. Water level in well rising.

Table 1 - Gauging Data

(Nine New and Deepened Wells - July 11, 2013 through January 31, 2014)

Inactive Exxon Facility #28077

14258 Jarrettsville Pike

Phoenix, Maryland

Well	Date	Depth to Groundwater (ft-toc)	Depth to Water Above Packer (ft-toc)	Depth to Water Below Packer (ft-toc)	Comments
MW-135C	8/1/2013	-	-	119.43	Well deepened to 397 ft-bgs on 7/29/2013. Packer set after well purge on 7/30/2013. Rubber top of casing seal initially prevents above packer interval access.
	8/1/2013	-	34.01	114.57	Well purged on 7/30/2013. Water level in well rising.
	8/5/2013	-	25.93	31.41	Well purged on 7/30/2013. Water level in well rising.
	8/16/2013	-	25.39	26.92	
	9/3/2013	-	25.82	27.66	
	10/7/2013	27.47	-	-	Packer removed from well on 9/23/2013.
	11/11/2013	27.39	-	-	
	12/10/2013	27.05	-	-	
	1/15/2014	24.83	-	-	

Table 1 - Gauging Data
(Nine New and Deepened Wells - July 11, 2013 through January 31, 2014)
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Phoenix, Maryland

Well	Date	Depth to Groundwater (ft-toc)	Depth to Water Above Packer (ft-toc)	Depth to Water Below Packer (ft-toc)	Comments
MW-188D	7/31/2013	40.5	-	-	Well drilled to 125 ft-bgs on 7/31/2013. No casing installed in well at time of gauging.
	8/5/2013	263.25	-	-	Well drilled to 300 ft-bgs and purged on 8/2/2013. Water level rising.
	8/6/2013	-	>260	426.89	Well drilled to terminal depth of 436 ft-bgs and purged on 8/5/2013. Packer installed at 300 ft-bgs on 8/5/2013. Obstruction at 260 ft-bgs in above packer interval prevents EIP from reaching water or packer.
	8/8/2013	-	>260	393.05	Well purged on 8/5/2013. Water level in well rising. Obstruction at 260 ft-bgs in above packer interval prevents EIP from reaching water or packer.
	8/9/2013	-	>260	376.62	Well purged on 8/5/2013. Water level in well rising. Obstruction at 260 ft-bgs in above packer interval prevents EIP from reaching water or packer.
	8/12/2013	-	>260	324.04	Well purged on 8/5/2013. Water level in well rising. Obstruction at 260 ft-bgs in above packer interval prevents EIP from reaching water or packer.
	8/14/2013	-	>260	285.49	Well purged on 8/5/2013. Water level in well rising. Obstruction at 260 ft-bgs in above packer interval prevents EIP from reaching water or packer.
	8/15/2013	-	>260	268.28	Well purged on 8/5/2013. Water level in well rising. Obstruction at 260 ft-bgs in above packer interval prevents EIP from reaching water or packer.

Table 1 - Gauging Data

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14258 Jarrettsville Pike

Phoenix, Maryland

Well	Date	Depth to Groundwater (ft-toc)	Depth to Water Above Packer (ft-toc)	Depth to Water Below Packer (ft-toc)	Comments
MW-188D	8/16/2013	-	>260	249.7	Well purged on 8/5/2013. Water level in well rising. Obstruction at 260 ft-bgs in above packer interval prevents EIP from reaching water or packer.
	8/19/2013	-	195.87	192.31	Well purged on 8/5/2013. Water level in well rising.
	8/20/2013	-	>161	176.93	Well purged on 8/5/2013. Water level in well rising. Obstruction at 161 ft-bgs in above packer interval prevents EIP from reaching water or packer.
	8/22/2013	-	149.16	149.51	Well purged on 8/5/2013. Water level in well rising.
	8/23/2013	-	137.22	137.59	Well purged on 8/5/2013. Water level in well rising.
	8/26/2013	-	110.34	110.75	Well purged on 8/5/2013. Water level in well rising.
	8/29/2013	-	97.98	97.95	Well purged on 8/5/2013. Water level in well rising.
	8/30/2013	-	88.14	87.57	Well purged on 8/5/2013. Water level in well rising.
	9/3/2013	-	68.43	68.66	Well purged on 8/5/2013. Water level in well rising.
	9/9/2013	-	63.07	63.14	Well purged on 8/5/2013. Water level in well rising.
	10/28/2013	-	301.18	419.08	Well purged to 420 ft-bgs on 10/28/2013 and packer reinstalled at 300 ft-bgs
	10/29/2013	-	277.52	416.13	Well purged on 10/28/2013. Water level in well rising.
	10/31/2013	-	248.69	399.56	Well purged on 10/28/2013. Water level in well rising.
	11/11/2013	-	148.61	168.42	Well purged on 10/28/2013. Water level in well rising.
	12/3/2013	-	61.50	63.78	Well purged on 10/28/2013. Water level in well rising.
	12/9/2013	-	59.23	61.31	Well purged on 10/28/2013. Water level in well rising.
	1/13/2014	-	54.36	60.34	Well purged on 10/28/2013. Water level in well rising.

Table 1 - Gauging Data

(Nine New and Deepened Wells - July 11, 2013 through January 31, 2014)

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14258 Jarrettsville Pike

Phoenix, Maryland

Well	Date	Depth to Groundwater (ft-toc)	Depth to Water Above Packer (ft-toc)	Depth to Water Below Packer (ft-toc)	Comments
MW-138D	8/8/2013	36	-	-	Well drilled and cased / grouted to 60 ft-bgs on 8/7/2013.
	8/9/2013	-	188	398	Packer set at 258 ft-bgs overnight on 8/8/2013 due to storm. Water level in well rising. After gauging, packer lowered to 300 ft-bgs on 8/9/2013.
	8/12/2013	-	80.30	244.26	Well purged on 8/8/2013. Water level in well rising.
	8/13/2013	-	71.78	124.85	Well purged on 8/8/2013. Water level in well rising.
	8/14/2013	-	65.57	78.45	Well purged on 8/8/2013. Water level in well rising.
	8/15/2013	-	59.82	63.33	Well purged on 8/8/2013. Water level in well rising.
	8/16/2013	-	55.84	60.05	Well purged on 8/8/2013. Water level in well rising.
	8/19/2013	-	54.43	55.66	Well purged on 8/8/2013. Water level in well rising.
	8/20/2013	-	54.12	54.87	Well purged on 8/8/2013. Water level in well rising.
	8/26/2013	-	53.30	54.03	Well purged on 8/8/2013. Water level in well rising.

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Phoenix, Maryland

Well	Date	Depth to Groundwater (ft-toc)	Depth to Water Above Packer (ft-toc)	Depth to Water Below Packer (ft-toc)	Comments
MW-36C	8/18/2013	-	Dry	380	Well deepened to 424 ft-bgs, purged, and packer set at 300 ft-bgs by 15:00 hours on 8/18/2013. Well gauged at 16:40 hours on 8/18/2013.
	8/19/2013	-	Dry	346.57	Well purged on 8/18/2013. Water level in well rising.
	8/20/2013	-	Dry	310.65	Well purged on 8/18/2013. Water level in well rising.
	8/22/2013	-	238.78	239.88	Well purged on 8/18/2013. Water level in well rising.
	8/23/2013	-	211.42	212.71	Well purged on 8/18/2013. Water level in well rising.
	8/26/2013	-	146.38	147.64	Well purged on 8/18/2013. Water level in well rising.
	8/28/2013	-	118.64	119.05	Well purged on 8/18/2013. Water level in well rising.
	8/30/2013	-	101.24	100.13	Well purged on 8/18/2013. Water level in well rising.
	9/3/2013	-	74.28	74.03	Well purged on 8/18/2013. Water level in well rising.
	9/9/2013	-	57.91	58.15	Well purged on 8/18/2013. Water level in well rising.
	10/7/2013	50.75	-	-	Packer removed from well on 9/23/2013.
	11/11/2013	50.30	-	-	
	12/9/2013	50.51	-	-	
	1/15/2014	49.26	-	-	

Table 1 - Gauging Data

(Nine New and Deepened Wells - July 11, 2013 through January 31, 2014)

Inactive Exxon Facility #28077

14258 Jarrettsville Pike

Phoenix, Maryland

Well	Date	Depth to Groundwater (ft-toc)	Depth to Water Above Packer (ft-toc)	Depth to Water Below Packer (ft-toc)	Comments
MW-48D	10/4/2013	-	>175	398	Well purged after installation to 403 ft-bgs on 10/3/2013. Packer installed at 300 ft-bgs. Water level in well rising. Obstruction in above packer interval at 175' bgs prevents EIP from reaching water level or packer seal.
	10/7/2013	-	>175	391.65	Well purged on 10/3/2013. Water level in well rising. Obstruction in above packer interval at 175' bgs prevents EIP from reaching water level or packer seal.
	10/8/2013	-	>175	387.51	Well purged on 10/3/2013. Water level in well rising. Obstruction in above packer interval at 175' bgs prevents EIP from reaching water level or packer seal.
	10/28/2013	-	169.75	241.97	Well purged on 10/3/2013. Water level in well rising.
	10/31/2013	189.31	-	-	Well purged on 10/3/2013. Water level in well rising. Packer removed from well on 10/29/2013.
	11/15/2013	398.52	-	-	Well purged on 10/3/2013. Water level in well rising.
	11/18/2013	357.51	-	-	Well purged on 10/3/2013. Water level in well rising.
	11/24/2013	307.97	-	-	Well purged on 10/3/2013. Water level in well rising.
	11/26/2013	292.35	-	-	Well purged on 10/3/2013. Water level in well rising.
	12/3/2013	236.73	-	-	Well purged on 10/3/2013. Water level in well rising.
	12/9/2013	195.75	-	-	Well purged on 10/3/2013. Water level in well rising.
	12/10/2013	190.33	-	-	Well purged on 10/3/2013. Water level in well rising.
	1/14/2014	63.01	-	-	Well purged on 10/3/2013. Water level in well rising.

Table 1 - Gauging Data

(Nine New and Deepened Wells - July 11, 2013 through January 31, 2014)

Inactive Exxon Facility #28077

14258 Jarrettsville Pike

Phoenix, Maryland

Well	Date	Depth to Groundwater (ft-toc)	Depth to Water Above Packer (ft-toc)	Depth to Water Below Packer (ft-toc)	Comments
MW-131C	10/8/2013	-	38.98	15.08	Well deepened to 359 ft-bgs and purged on 10/8/2013. Packer installed at 300 ft-bgs. Well gauged immediately after packer installation. Water level rising.
	10/28/2013	-	9.28	9.90	
	11/12/2013	9.61	-	-	Packer removal from well on 10/29/2013.
	12/10/2013	9.86	-	-	
	1/15/2014	9.44	-	-	

Key:

ft-toc = feet below top of casing

ft-bgs = feet below ground surface

EIP = electronic interface probe

Table 2: Summary of Groundwater Analytical Results
Inactive Exxon Facility #28077
14258 Jarrettsville Pike
Phoenix, Maryland

Sample Name	Final Total Depth (fbg)	Sample Date	Depth to Water (ft-toc)	Sample Method	Analyzed For	Sample Details	MTBE (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	Next Sampling Event	Date Geo-physics Complete
MW-27B	125	7/15/2013	83.23	Purge/grab	Full	Open borehole 60-125 ft-toc. Well installation complete.	51.9	0.97 J	7.7	0.80 J	7.9		
MW-27B	125	7/25/2013	NG	Purge/grab	Target	Open borehole 60-125 ft-toc. Well installation complete.	54.4	1.3	2.4	ND	1.4		
MW-27B	125	8/9/2013	46.37	Purge/grab	Target	Open borehole 60-125 ft-toc. Well installation complete.	59.5	ND	ND	ND	ND		
MW-27B	125	8/23/2013	44.73	Purge/grab	Target	Open borehole 60-125 ft-toc. Well installation complete.	29.3	ND	ND	ND	ND		
MW-27B	125	9/9/2013	44.06	Purge/grab	Target	Open borehole 60-125 ft-toc. Well installation complete.	16.7	ND	ND	ND	ND		
MW-27B	125	10/2/2013	NG	Purge/grab	Target	Open borehole 60-125 ft-toc. Well installation complete.	43.3	ND	ND	ND	ND		10/3/2013
MW-27B	125	10/18/2013	44.26	Purge/grab	Target	Open borehole 60-125 ft-toc. Well installation complete.	4.9	ND	ND	ND	ND		
MW-27B	125	11/15/2013	76.23	Purge/grab	Target	Open borehole 60-125 ft-toc. Well installation complete.	42.5	ND	ND	ND	ND		
MW-27B	125	12/12/2013	39.43	Purge/grab	Target	Open borehole 60-125 ft-toc. Well installation complete.	9.4	ND	0.50 J	ND	ND		
MW-27B	125	1/30/2014	44.41	Purge/grab	Target	Open borehole 60-125 ft-toc. Well installation complete.	8.5	ND	ND	ND	ND		
MW-27B												Week of 2/17/14	

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Table 2: Summary of Groundwater Analytical Results
Inactive Exxon Facility #28077
14258 Jarrettsville Pike
Phoenix, Maryland

Sample Name	Final Total Depth (fbg)	Sample Date	Depth to Water (ft-toc)	Sample Method	Analyzed For	Sample Details	MTBE (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	Next Sampling Event	Date Geo-physics Complete
PW-3501 (AP)	425	7/22/2013	44.55	Grab	Full	Well installation complete. Sample collected above packer (Packer set at ~300 fbg).	ND	ND	ND	ND	ND		
PW-3501 (BP)	425	7/22/2013	44.56	Grab	Full	Well installation complete. Sample collected below packer (Packer set at ~300 fbg).	0.92 J	ND	ND	ND	ND		
PW-3501 (AP)	425	8/5/2013	44.85	Grab	Target	Well installation complete. Sample collected above packer (Packer set at ~300 fbg).	ND	ND	ND	ND	ND		
PW-3501 (BP)	425	8/5/2013	44.85	Grab	Target	Well installation complete. Sample collected below packer (Packer set at ~300 fbg).	1.0	ND	ND	ND	ND		
PW-3501 (AP)	425	8/20/2013	44.85	Grab	Target	Well installation complete. Sample collected above packer (Packer set at ~300 fbg).	ND	ND	ND	ND	ND		
PW-3501 (BP)	425	8/20/2013	44.85	Grab	Target	Well installation complete. Sample collected below packer (Packer set at ~300 fbg).	0.94 J	ND	ND	ND	ND		
PW-3501 (AP)	425	9/11/2013	46.60	Grab	Target	Well installation complete. Sample collected above packer (Packer set at ~300 fbg).	ND	ND	ND	ND	ND		
PW-3501 (BP)	425	9/11/2013	46.60	Grab	Target	Well installation complete. Sample collected below packer (Packer set at ~300 fbg).	1.2	ND	ND	ND	ND		
PW-3501 (HS-S)	425	10/7/2013	46.47	HydraSleeve	Target	Well installation complete. Sample collected from above 300'. Packer removed.	0.56 J	ND	ND	ND	1.0		9/27/2013
PW-3501 (HS-D)	425	10/7/2013	46.47	HydraSleeve	Target	Well installation complete. Sample collected from below 300'. Packer removed.	0.76	ND	0.66J	ND	1.6		
PW-3501(HS-S)	425	11/7/2013	46.14	HydraSleeve	Target	Well installation complete. Composite HydraSleeve sampler set at 150'.	ND	ND	ND	ND	ND		
PW-3501(HS-D)	425	11/7/2013	46.14	HydraSleeve	Target	Well installation complete. Composite HydraSleeve sampler set at 350'.	0.54 J	ND	ND	ND	0.58 J		
PW-3501(HS-S)	425	12/27/2013	46.75	HydraSleeve	Target	Well installation complete. Sample collected from above 300'.	ND	ND	ND	ND	ND		
PW-3501(HS-D)	425	12/27/2013	46.75	HydraSleeve	Target	Well installation complete. Sample collected from below 300'.	ND	ND	ND	ND	ND		
PW-3501(HS-S)	425	1/15/2014	45.77	HydraSleeve	Target	Well installation complete. Sample collected from above 300'.	ND	ND	ND	ND	ND		
PW-3501(HS-D)	425	1/15/2014	45.77	HydraSleeve	Target	Well installation complete. Sample collected from below 300'.	ND	ND	ND	ND	ND		
PW-3501												Week of 2/10/14	

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Table 2: Summary of Groundwater Analytical Results
Inactive Exxon Facility #28077
14258 Jarrettsville Pike
Phoenix, Maryland

Sample Name	Final Total Depth (fbg)	Sample Date	Depth to Water (ft-toc)	Sample Method	Analyzed For	Sample Details	MTBE (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	Next Sampling Event	Date Geo-physics Complete
MW-171C (BP)	415	8/1/2013	362.41	Grab	Full	Well installation complete. Sample collected below packer (Packer set at ~250 fbg).	8.0	ND	ND	ND	ND		
MW-171C (AP)	415	9/3/2013	249.30	Grab	Full	Well installation complete. Sample collected above packer (Packer set at ~250 fbg).	8.7	ND	ND	ND	ND		
MW-171C (BP)	415	9/3/2013	249.70	Grab	Full	Well installation complete. Sample collected below packer (Packer set at ~250 fbg).	8.9	ND	ND	ND	ND		
MW-171C (HS-S)	415	10/8/2013	154.50	HydraSleeve	Target	Well installation complete. Sample collected from above 300'. Packer removed.	11.5	ND	ND	ND	ND		
MW-171C (HS-D)	415	10/7/2013	154.50	HydraSleeve	Target	Well installation complete. Sample collected from below 300'. Packer removed.	10.6	ND	ND	ND	ND		
MW-171C(HS-S)	415	11/12/2013	98.26	HydraSleeve	Target	Well installation complete. Sample collected from above 300'.	3.9	ND	ND	ND	ND		10/2/2013
MW-171C(HS-D)	415	11/12/2013	98.26	HydraSleeve	Target	Well installation complete. Sample collected from below 300'.	4.3	ND	ND	ND	ND		
MW-171C(HS-S)	415	12/10/2013	79.11	HydraSleeve	Target	Well installation complete. Sample collected from above 300'.	2.0	ND	ND	ND	ND		
MW-171C(HS-D)	415	12/10/2013	79.11	HydraSleeve	Target	Well installation complete. Sample collected from below 300'.	2.3	ND	ND	ND	ND		
MW-171C(HS-S)	415	1/15/2014	67.16	HydraSleeve	Target	Well installation complete. Sample collected from above 300'.	1.7	ND	ND	ND	ND		
MW-171C(HS-D)	415	1/15/2014	67.16	HydraSleeve	Target	Well installation complete. Sample collected from below 300'.	1.2	ND	ND	ND	ND		
MW-171C												Week of 2/10/14	

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Table 2: Summary of Groundwater Analytical Results
Inactive Exxon Facility #28077
14258 Jarrettsville Pike
Phoenix, Maryland

Sample Name	Final Total Depth (fbg)	Sample Date	Depth to Water (ft-toc)	Sample Method	Analyzed For	Sample Details	MTBE (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	Next Sampling Event	Date Geo-physics Complete
MW-135C (AP)	397	8/1/2013	34.01	Grab	Full	Well installation complete. Sample collected above packer (Packer set at ~300 fbg).	ND	ND	ND	ND	ND		
MW-135C (BP)	397	8/1/2013	114.57	Grab	Full	Well installation complete. Sample collected below packer (Packer set at ~300 fbg).	ND	ND	ND	ND	ND		
MW-135C (AP)	397	9/3/2013	25.82	Grab	Full	Well installation complete. Sample collected above packer (Packer set at ~300 fbg).	ND	ND	ND	ND	ND		
MW-135C (BP)	397	9/3/2013	27.66	Grab	Full	Well installation complete. Sample collected below packer (Packer set at ~300 fbg).	ND	ND	ND	ND	ND		
MW-135C (HS-S)	397	10/7/2013	27.47	HydraSleeve	Target	Well installation complete. Sample collected from above 300'. Packer removed.	ND	ND	0.75 J	ND	ND		
MW-135C (HS-D)	397	10/7/2013	27.47	HydraSleeve	Target	Well installation complete. Sample collected from below 300'. Packer removed.	ND	ND	1.3	ND	ND		
MW-135C(HS-S)	397	11/11/2013	27.39	HydraSleeve	Target	Well installation complete. Sample collected from above 300'.	ND	ND	0.91 J	ND	ND		9/30/2013
MW-135C(HS-D)	397	11/11/2013	27.39	HydraSleeve	Target	Well installation complete. Sample collected from below 300'.	ND	ND	1.2	ND	ND		
MW-135C(HS-S)	397	12/10/2013	27.05	HydraSleeve	Target	Well installation complete. Sample collected from above 300'.	ND	ND	0.59 J	ND	ND		
MW-135C(HS-D)	397	12/10/2013	27.05	HydraSleeve	Target	Well installation complete. Sample collected from below 300'.	ND	ND	0.81 J	ND	ND		
MW-135C(HS-S)	397	1/15/2014	24.83	HydraSleeve	Target	Well installation complete. Sample collected from above 300'.	ND	ND	0.66 J	ND	ND		
MW-135C(HS-D)	397	1/15/2014	24.83	HydraSleeve	Target	Well installation complete. Sample collected from below 300'.	ND	ND	0.60 J	ND	ND		
MW-135C												Week of 2/10/14	

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Table 2: Summary of Groundwater Analytical Results
Inactive Exxon Facility #28077
14258 Jarrettsville Pike
Phoenix, Maryland

Sample Name	Final Total Depth (fbg)	Sample Date	Depth to Water (ft-toc)	Sample Method	Analyzed For	Sample Details	MTBE (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	Next Sampling Event	Date Geo-physics Complete
MW-188D (DTB-125)	436	8/1/2013	40.50	Grab	Full	Well install and well development not complete. Grab sample collected from bottom of open borehole at ~125 fbg	ND	ND	ND	ND	ND		
MW-188D (DTB-300)	436	8/5/2013	263.25	Grab	Full	Well install and well development not complete. Grab sample collected from bottom of open borehole at ~300 fbg	ND	ND	ND	ND	ND		
MW-188D (BP)	436	8/9/2013	376.62	Grab	Full	Well installation complete. Sample collected below packer (Packer set at ~300 fbg).	0.74 J	ND	ND	ND	2.0		
MW-188D (AP)	436	8/19/2013	195.87	Grab	Full	Well installation complete. Sample collected above packer (Packer set at ~300 fbg).	32.6	0.89 J	0.53 J	ND	1.1		
MW-188D (AP)	436	8/26/2013	110.34	Grab	Full	Well installation complete. Sample collected above packer (Packer set at ~300 fbg).	0.28 J	ND	ND	ND	ND		
MW-188D (BP)	436	8/26/2013	110.75	Grab	Full	Well installation complete. Sample collected below packer (Packer set at ~300 fbg).	31.2	0.61 J	0.26 J	ND	ND		
MW-188D(HS-S)	436	10/7/2013	NR	HydraSleeve	Target	Well installation complete. Sample collected from above 300'. Packer removed.	29.1	0.59 J	1.1	ND	ND		9/26/2013
MW-188D(HS-D)	436	10/7/2013	NR	HydraSleeve	Target	Well installation complete. Sample collected from below 300'. Packer removed.	42.6	0.30 J	1.1	0.25 J	0.96 J		
MW-188D(AP)	436	11/11/2013	148.61	Grab	Target	Well installation complete. Sample collected above packer (Packer set at ~300 fbg).	29.9	ND	155	ND	ND		
MW-188D(BP)	436	11/11/2013	168.42	Grab	Target	Well installation complete. Sample collected below packer (Packer set at ~300 fbg).	23.0	ND	82.2	ND	1.1		
MW-188D(AP)	436	12/9/2013	59.23	Grab	Target	Well installation complete. Sample collected above packer (Packer set at ~300 fbg).	1.5	ND	10.7	ND	ND		
MW-188D(BP)	436	12/9/2013	61.31	Grab	Target	Well installation complete. Sample collected below packer (Packer set at ~300 fbg).	23.0	ND	1.9	ND	ND		
MW-188D(AP)	436	1/13/2014	54.36	Grab	Target	Well installation complete. Sample collected above packer (Packer set at ~300 fbg).	1.6	ND	0.49 J	ND	ND		
MW-188D(BP)	436	1/13/2014	60.34	Grab	Target	Well installation complete. Sample collected below packer (Packer set at ~300 fbg).	21.6	ND	1.5	ND	ND		
MW-188D												Week of 2/10/14	

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Table 2: Summary of Groundwater Analytical Results
Inactive Exxon Facility #28077
14258 Jarrettsville Pike
Phoenix, Maryland

Sample Name	Final Total Depth (fbg)	Sample Date	Depth to Water (ft-toc)	Sample Method	Analyzed For	Sample Details	MTBE (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	Next Sampling Event	Date Geo-physics Complete
MW-138D (DTB-60)	404	8/8/2013	36.00	Grab	Full	Well install and well development not complete. Grab sample collected from bottom of open borehole at ~60 fbg	ND	ND	ND	ND	ND		9/6/2013
MW-138D (AP)	404	8/12/2013	80.30	Grab	Target	Well installation complete. Sample collected above packer (Packer set at ~300 fbg).	0.40 J	ND	ND	ND	ND		
MW-138D (BP)	404	8/12/2013	244.26	Grab	Target	Well installation complete. Sample collected below packer (Packer set at ~300 fbg).	0.43 J	ND	ND	ND	ND		
MW-138D (AP)	404	8/19/2013	54.43	Grab	Full	Well installation complete. Sample collected above packer (Packer set at ~300 fbg).	0.80 J	ND	ND	ND	ND		
MW-138D (BP)	404	8/19/2013	55.66	Grab	Full	Well installation complete. Sample collected below packer (Packer set at ~300 fbg).	25.1	1.6	ND	0.27 J	0.76J		
MW-138D (AP)	404	8/26/2013	53.30	Grab	Full	Well installation complete. Sample collected above packer (Packer set at ~300 fbg).	1.1	ND	ND	ND	ND		
MW-138D (BP)	404	8/26/2013	54.03	Grab	Full	Well installation complete. Sample collected below packer (Packer set at ~300 fbg).	80.2	2.5	0.56 J	0.54 J	6.5		
MW-138D												N/A (blank FLUTe)	

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Table 2: Summary of Groundwater Analytical Results
Inactive Exxon Facility #28077
14258 Jarrettsville Pike
Phoenix, Maryland

Sample Name	Final Total Depth (fbg)	Sample Date	Depth to Water (ft-toc)	Sample Method	Analyzed For	Sample Details	MTBE (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	Next Sampling Event	Date Geo-physics Complete
MW-36C (BP)	424	8/19/2013	346.57	Grab	Full	Well installation complete. Sample collected below packer. (Packer set at ~300 fbg).	3.4	0.67 J	0.42 J	ND	ND		
MW-36C (AP)	424	8/23/2013	211.42	Grab	Full	Well installation complete. Sample collected above packer (Packer set at ~300 fbg).	2.9	0.41 J	ND	ND	ND		
MW-36C (AP)	424	8/26/2013	146.38	Grab	Full	Well installation complete. Sample collected above packer (Packer set at ~300 fbg).	2.9	0.25 J	ND	ND	ND		
MW-36C (BP)	424	8/26/2013	147.64	Grab	Full	Well installation complete. Sample collected below packer (Packer set at ~300 fbg).	2.4	0.51 J	0.26 J	ND	ND		
MW-36C (HS-S)	424	10/7/2013	50.75	HydraSleeve	Target	Well installation complete. Sample collected from above 300'. Packer removed.	1.9	ND	ND	ND	ND		
MW-36C (HS-D)	424	10/7/2013	50.75	HydraSleeve	Target	Well installation complete. Sample collected from below 300'. Packer removed.	2.0	ND	ND	ND	ND		
MW-36C(HS-S)	424	11/11/2013	50.30	HydraSleeve	Target	Well installation complete. Sample collected from above 300'.	2.5	0.33 J	0.45 J	ND	ND		10/1/2013
MW-36C(HS-D)	424	11/11/2013	50.30	HydraSleeve	Target	Well installation complete. Sample collected from below 300'.	2.4	ND	ND	ND	ND		
MW-36C(HS-S)	424	12/9/2013	50.51	HydraSleeve	Target	Well installation complete. Sample collected from above 300'.	1.9	ND	ND	ND	ND		
MW-36C(HS-D)	424	12/9/2013	50.51	HydraSleeve	Target	Well installation complete. Sample collected from below 300'.	2.0	ND	ND	ND	ND		
MW-36C(HS-S)	424	1/15/2014	49.26	HydraSleeve	Target	Well installation complete. Sample collected from above 300'.	1.9	ND	ND	ND	ND		
MW-36C(HS-D)	424	1/15/2014	49.26	HydraSleeve	Target	Well installation complete. Sample collected from below 300'.	2.0	ND	ND	ND	ND		
MW-36C												Week of 2/10/14	

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Table 2: Summary of Groundwater Analytical Results
Inactive Exxon Facility #28077
14258 Jarrettsville Pike
Phoenix, Maryland

Sample Name	Final Total Depth (fbg)	Sample Date	Depth to Water (ft-toc)	Sample Method	Analyzed For	Sample Details	MTBE (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	Next Sampling Event	Date Geo-physics Complete
MW-48D (BP)	403	10/7/2013	391.65	Grab	Full	Well installation complete. Sample collected below packer. (Packer set at ~300 fbg).	ND	ND	ND	ND	ND		
MW-48D (AP)	403	10/28/2013	169.75	Grab	Full	Well installation complete. Sample collected above packer (Packer set at ~300 fbg).	ND	ND	ND	ND	ND		
MW-48D (BP)	403	10/28/2013	241.97	Grab	Target	Well installation complete. Sample collected below packer (Packer set at ~300 fbg).	ND	ND	ND	ND	ND		
MW-48D(HS-D)	403	11/26/2013	292.35	HydraSleeve	Target	Well installation complete. Sample collected from below 300'. Packer removed.	ND	ND	ND	ND	ND		
MW-48D(HS-S)	403	12/10/2013	190.33	HydraSleeve	Target	Well installation complete. Sample collected from above 300'.	ND	ND	ND	ND	ND		11/12/2013
MW-48D(HS-D)	403	12/10/2013	190.33	HydraSleeve	Target	Well installation complete. Sample collected from below 300'.	ND	ND	ND	ND	ND		
MW-48D(HS-S)	403	1/14/2014	63.01	HydraSleeve	Target	Well installation complete. Sample collected from above 300'.	ND	ND	ND	ND	ND		
MW-48D(HS-D)	403	1/14/2014	63.01	HydraSleeve	Target	Well installation complete. Sample collected from below 300'.	ND	ND	ND	ND	ND		
MW-48D												Week of 2/10/14	

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Table 2: Summary of Groundwater Analytical Results
Inactive Exxon Facility #28077
14258 Jarrettsville Pike
Phoenix, Maryland

Sample Name	Final Total Depth (fbg)	Sample Date	Depth to Water (ft-toc)	Sample Method	Analyzed For	Sample Details	MTBE (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	Next Sampling Event	Date Geo-physics Complete
MW-131C (AP)	359	10/8/2013	38.98	Grab	Full	Well installation complete. Sample collected above packer (Packer set at ~300 fbg).	ND	ND	ND	ND	ND		11/5/2013
MW-131C (BP)	359	10/8/2013	15.08	Grab	Full	Well installation complete. Sample collected below packer (Packer set at ~300 fbg).	ND	ND	ND	ND	ND		
MW-131C (AP)	359	10/28/2013	9.28	Grab	Target	Well installation complete. Sample collected above packer (Packer set at ~300 fbg).	ND	ND	ND	ND	ND		
MW-131C (BP)	359	10/28/2013	9.90	Grab	Target	Well installation complete. Sample collected below packer (Packer set at ~300 fbg).	ND	ND	ND	ND	ND		
MW-131C(HS-S)	359	11/12/2013	9.61	HydraSleeve	Target	Well installation complete. Sample collected from above 300'. Packer removed.	ND	ND	0.56 J	ND	ND		
MW-131C(HS-D)	359	11/12/2013	9.61	HydraSleeve	Target	Well installation complete. Sample collected from below 300'. Packer removed.	ND	ND	0.59 J	ND	ND		
MW-131C(HS-S)	359	12/10/2013	9.86	HydraSleeve	Target	Well installation complete. Sample collected from above 300'. Packer removed.	ND	ND	0.64 J	ND	ND		
MW-131C(HS-D)	359	12/10/2013	9.86	HydraSleeve	Target	Well installation complete. Sample collected from below 300'. Packer removed.	ND	ND	0.62 J	ND	ND		
MW-131C(HS-S)	359	1/15/2014	9.44	HydraSleeve	Target	Well installation complete. Sample collected from above 300'. Packer removed.	ND	ND	0.45 J	ND	ND		
MW-131C(HS-D)	359	1/15/2014	9.44	HydraSleeve	Target	Well installation complete. Sample collected from below 300'. Packer removed.	ND	ND	0.50 J	ND	ND		
MW-131C												Week of 2/10/14	

Notes:
AP = above packer
BP = below packer
S = Shallow
D = Deep
HS = HydraSleeve
DTB = depth to bottom
DTW = depth to water
ft-toc = feet below top of casing
fbg = feet below grade
J = Indicates estimated value.
MTBE = Methyl tert-butyl ether
NR = Not recorded
NA = Not analyzed, well was dry at the time of sampling
ND = non-detect
MTBE = Methyl tert-butyl ether
1 = According to MDE approved "*Additional Site Characterization Work Plan*" (6/21/2012)

Kleinfelder
1340 Charwood Road, Suite I
Hanover, Maryland

Table 3
Borehole Geophysical Analysis and
Proposed HydraSleeve Sample Depths
Inactive Exxon Facility #28077
14258 Jarrettsville Pike
Phoenix, Maryland

MW-27B

Depth of Feature (ft-toc)	Proposed HydraSleeve Sample Depth (ft-toc)	Feature Characteristics	Feature Category
63	63	Minor open joint/fracture 2.65-inch aperture Caliper deflection Faint acoustic travel time	2
68	68	Minor open joint/fracture 5.33-inch aperture Caliper deflection	2
102	104	Bedding/banding/foliation Upward heat pulse flow	0
104		Minor open joint/fracture Caliper deflection Natural gamma increase Faint acoustic travel time	1
108.5	109.5	Minor open joint/fracture 4.96-inch aperture Faint acoustic travel time	2
109.5		Minor open joint/fracture 3.13-inch aperture Faint acoustic travel time	2

Category 0: Bedding, banding, foliation; retained to fill gap in sample coverage
Category 1: Joint/fracture; little indication of open fracture
Category 2: Joint/fracture; evidence of open fracture or fluid flow

Table 3
Borehole Geophysical Analysis and
Proposed HydraSleeve Sample Depths
Inactive Exxon Facility #28077
14258 Jarrettsville Pike
Phoenix, Maryland

MW-36C

Depth of Feature (ft-toc)	Proposed HydraSleeve Sample Depth (ft-toc)	Feature Characteristics	Feature Category
	132.5	***Previously-Selected HydraSleeve Interval***	
	150.5	***Previously-Selected HydraSleeve Interval***	
	163	***Previously-Selected HydraSleeve Interval***	
	168	***Previously-Selected HydraSleeve Interval***	
	190	***Previously-Selected HydraSleeve Interval***	
	200	***Previously-Selected HydraSleeve Interval***	
	256.5-260.5	***Previously-Selected HydraSleeve Interval***	
	271	***Previously-Selected HydraSleeve Interval***	
	281.5	***Previously-Selected HydraSleeve Interval***	
284	286	Minor open joint/fracture Moderate acoustic travel time	1
286.5		Minor open joint/fracture Moderate acoustic travel time Borehole enlargement (acoustic caliper)	1
287.5		Minor open joint/fracture Moderate acoustic travel time Caliper deflection	1
315	315	Bedding/banding/foliation Faint acoustic travel time	0
342 -345	345	Filled fracture/joint Bedding/banding/foliation Caliper & acoustic travel time unremarkable	0
381	381.5	Minor open joint/fracture 6.38 inch aperture Moderate acoustic travel time Gamma variation Upward heat pulse flow measurement at 380 feet	2
414	414	Bedding/banding/foliation Caliper & acoustic travel time unremarkable	0
Category 0: Bedding, banding, foliation; retained to fill gap in sample coverage Category 1: Joint/fracture; little indication of open fracture Category 2: Joint/fracture; evidence of open fracture or fluid flow			

Table 3
Borehole Geophysical Analysis and
Proposed HydraSleeve Sample Depths
Inactive Exxon Facility #28077
14258 Jarrettsville Pike
Phoenix, Maryland

MW-48D

Depth of Feature (ft-toc)	Proposed HydraSleeve Sample Depth (ft-toc)	Feature Characteristics	Feature Category
76-80	80	Zone with four bedding/banding/foliations and one filled fracture/joint Caliper & acoustic travel time unremarkable	0
123	123	Partially open joint/fracture Caliper and acoustic travel time unremarkable	1
166	166	Bedding/banding/foliation Caliper unremarkable Faint acoustic travel time	0
210.5	210.5	Minor open joint/fracture Gamma variation Slight caliper deflection Moderate acoustic travel time	1
220	220	Minor open joint/fracture Gamma variation Caliper and acoustic travel time unremarkable	1
284	284	Partially Open joint/fracture Gamma variation Faint acoustic travel time	1
324.5	324.5	Bedding/banding/foliation Caliper and acoustic travel time unremarkable	0
391.5	391.5	Filled fracture/joint Caliper and acoustic travel time unremarkable	0
Category 0: Bedding, banding, foliation; retained to fill gap in sample coverage Category 1: Joint/fracture; little indication of open fracture Category 2: Joint/fracture; evidence of open fracture or fluid flow			

Table 3

Borehole Geophysical Analysis and
Proposed HydraSleeve Sample Depths
Inactive Exxon Facility #28077
14258 Jarrettsville Pike
Phoenix, Maryland

MW-131C

Depth of Feature (ft-toc)	Proposed HydraSleeve Sample Depth (ft-toc)	Feature Characteristics	Feature Category
-	67	***Previously-Selected HydraSleeve Interval***	-
-	147	***Previously-Selected HydraSleeve Interval***	-
-	250	***Previously-Selected HydraSleeve Interval***	-
-	270	***Previously-Selected HydraSleeve Interval***	-
310	310	Two bedding/banding/foliations Water temperature increase	0
329.5	329.5	Bedding/banding/foliation Slight Water temperature increase Faint acoustic travel time	0
348-350	350	Two Bedding/banding/foliations Slight caliper deflection at 348 feet Slight temperature increase at 348 and 349.5 feet Faint acoustic travel time	0
Category 0: Bedding, banding, foliation; retained to fill gap in sample coverage Category 1: Joint/fracture; little indication of open fracture Category 2: Joint/fracture; evidence of open fracture or fluid flow			

Table 3
Borehole Geophysical Analysis and
Proposed HydraSleeve Sample Depths
Inactive Exxon Facility #28077
14258 Jarrettsville Pike
Phoenix, Maryland

MW-135C

Depth of Feature (ft-toc)	Proposed HydraSleeve Sample Depth (ft-toc)	Feature Characteristics	Feature Category
-	113.5	***Previously-Selected HydraSleeve Interval***	-
-	136	***Previously-Selected HydraSleeve Interval***	-
-	177	***Previously-Selected HydraSleeve Interval***	-
-	200	***Previously-Selected HydraSleeve Interval***	-
-	288	***Previously-Selected HydraSleeve Interval***	-
292.5	292.5	Minor open joint/fracture Moderate acoustic travel time Acoustic caliper deflection	1
357-358	358	Two bedding/banding/foliations Acoustic caliper deflection at 358 feet Faint acoustic travel time	0
378	378	Partially open joint/fracture Moderate acoustic travel time Acoustic caliper deflection	1
382-388.5	388.5	Zone of three bedding/banding/foliations One filled fracture/joint Slight acoustic caliper deflection	0
Category 0: Bedding, banding, foliation; retained to fill gap in sample coverage Category 1: Joint/fracture; little indication of open fracture Category 2: Joint/fracture; evidence of open fracture or fluid flow			

Table 3
Borehole Geophysical Analysis and
Proposed HydraSleeve Sample Depths
Inactive Exxon Facility #28077
14258 Jarrettsville Pike
Phoenix, Maryland

MW-171C

Depth of Feature (ft-toc)	Proposed HydraSleeve Sample Depth (ft-toc)	Feature Characteristics	Feature Category
133.5	133.5	Open fracture 2.17-inch aperture Gamma variation Upward heat pulse flow at 132 feet	2
137	139	Minor open joint/fracture Faint acoustic travel time	1
139		Minor open joint/fracture Faint acoustic travel time	1
146	153	Minor open joint/fracture Faint acoustic travel time	1
148.5		Minor open joint/fracture Faint acoustic travel time	1
151		Minor open joint/fracture Faint acoustic travel time	1
153		Minor open joint/fracture Faint acoustic travel time Slight caliper deflection	1
157.5	159.5	Minor open joint/fracture Faint acoustic travel time Slight caliper deflection	1
159.5		Minor open joint/fracture Prominent acoustic travel time Natural gamma variation	1
162 – 171.5	167	Major joint/fracture zone 40.66-inch aperture Faint acoustic travel time Caliper deflection	2
190	190	Minor open joint/fracture Slight caliper deflection	1
227.5	227.5	Minor open joint/fracture Faint acoustic travel time Static upward heat pulse flow at 227 feet	1
288	288	Partially open joint/fracture Moderate acoustic travel time	1
301	301	Major open joint / fracture	2

Table 3
Borehole Geophysical Analysis and
Proposed HydraSleeve Sample Depths
Inactive Exxon Facility #28077
14258 Jarrettsville Pike
Phoenix, Maryland

Depth of Feature (ft-toc)	Proposed HydraSleeve Sample Depth (ft-toc)	Feature Characteristics	Feature Category
		4.78-inch aperture Prominent acoustic travel time	
329.5	329.5	Partially open joint / fracture 2.74-inch aperture Prominent acoustic travel time Natural gamma variation	2
353.5 – 355	355	Filled fracture/joint and Bedding/banding/foliation Faint acoustic travel time	0
380 – 388	388	Bedding / banding / foliations Faint acoustic travel time Rise in fluid conductivity and temperature	0
403	403	Bedding / banding / foliation Faint acoustic travel time	0
Category 0: Bedding, banding, foliation; retained to fill gap in sample coverage Category 1: Joint/fracture; little indication of open fracture Category 2: Joint/fracture; evidence of open fracture or fluid flow			

Table 3
Borehole Geophysical Analysis and
Proposed HydraSleeve Sample Depths
Inactive Exxon Facility #28077
14258 Jarrettsville Pike
Phoenix, Maryland

MW-188D

Depth of Feature (ft-toc)	Proposed HydraSleeve Sample Depth (ft-toc)	Feature Characteristics	Feature Category
137.5	141.5	Major open joint/fracture 5.49 inch Aperture Faint acoustic travel time Slight caliper deflection	2
137.75		Partially open joint/fracture Faint acoustic travel time Slight caliper deflection	1
140		Minor open joint/fracture 1.03 inch aperture Faint acoustic travel time	2
141.5		Major open joint/fracture 2.87 inch aperture Moderate acoustic travel time Slight caliper deflection	2
201	201	Partially open joint/fracture 2.04 inch aperture Moderate acoustic travel time Gamma variation Slight caliper deflection	2
209	212.5	Minor open joint/fracture Moderate acoustic travel time	1
212.5		Minor open joint/fracture 1.26 inch aperture Moderate acoustic travel time	2
220	221	Minor open joint/fracture Moderate acoustic travel time Slight gamma variation Slight caliper deflection	1
221		Minor open joint/fracture Moderate acoustic travel time Slight gamma variation	1
227	228.5	Minor open joint/fracture 1.62 inch aperture Moderate acoustic travel time Gamma variation	2

Table 3
Borehole Geophysical Analysis and
Proposed HydraSleeve Sample Depths
Inactive Exxon Facility #28077
14258 Jarrettsville Pike
Phoenix, Maryland

Depth of Feature (ft-toc)	Proposed HydraSleeve Sample Depth (ft-toc)	Feature Characteristics	Feature Category
		Slight caliper deflection	
227.25		Partially open joint/fracture Slight acoustic travel time Gamma variation	1
228.5		Minor open joint/fracture Slight acoustic travel time Gamma variation Upward vertical flow	1
239	239	Major open joint/fracture 4.98 inch aperture Prominent acoustic travel time Caliper deflection Gamma variation	2
279.5	279.5	Bedding/banding/foliation Caliper and acoustic travel time unremarkable	0
306.5	306.5	Bedding/banding/foliation Caliper and acoustic travel time unremarkable Gamma variation	0
344.5	344	Bedding/banding/foliation Caliper and acoustic travel time unremarkable Gamma variation	0
387	387	Minor open joint/fracture Faint acoustic travel time Gamma variation	1
389 – 391	396	Two filled fracture/joints Natural gamma variation Faint acoustic travel time	0
391.5 – 396		Zone of eight bedding/banding/foliations Caliper and acoustic travel time unremarkable	0

Category 0: Bedding, banding, foliation; retained to fill gap in sample coverage
Category 1: Joint/fracture; little indication of open fracture
Category 2: Joint/fracture; evidence of open fracture or fluid flow

Table 3
Borehole Geophysical Analysis and
Proposed HydraSleeve Sample Depths
Inactive Exxon Facility #28077
14258 Jarrettsville Pike
Phoenix, Maryland

PW-3501

Depth of Feature (ft-toc)	Proposed HydraSleeve Sample Depth (ft-toc)	Feature Characteristics	Feature Category
-	56-57.5	***Previously-Selected HydraSleeve Interval***	-
-	69-70.5	***Previously-Selected HydraSleeve Interval***	-
-	88.5	***Previously-Selected HydraSleeve Interval***	-
-	131	***Previously-Selected HydraSleeve Interval***	-
-	147-148.5	***Previously-Selected HydraSleeve Interval***	-
-	153	***Previously-Selected HydraSleeve Interval***	-
-	220	***Previously-Selected HydraSleeve Interval***	-
-	290	***Previously-Selected HydraSleeve Interval***	-
296-297	300	Minor open joint / fracture Acoustic caliper deflection	1
300		Minor open joint / fracture Acoustic caliper deflection Moderate acoustic travel time	1
328-329	333	Two filled fractures / joints Upward heat pulse flow measurement at 329 feet	0
331-333		Minor open joint / fracture at 331 feet Faint acoustic travel time Upward heat pulse flow measurement at 333 feet	1
359-361	361	Two bedding/banding/foliations One filled fracture/joint	0
388-391.5	391.5	Three bedding/banding/foliations Slight acoustic travel time	0
413	413	Minor open joint/fracture Moderate acoustic travel time Slight acoustic caliper deflection	1

Category 0: Bedding, banding, foliation; retained to fill gap in sample coverage
Category 1: Joint/fracture; little indication of open fracture
Category 2: Joint/fracture; evidence of open fracture or fluid flow

FIGURE

OUTER ARRAY

INNER ARRAY

MW-135C

MW-131C

MW-186D

Proposed MW-186D

MW-138D

Proposed MW-138D

PW-3501

Proposed MW-73C

MW-73C

MW-188D

MW-146C

MW-146B

MW-171C

MW-48D

MW-187C

MW-187B

MW-187A

MW-36C

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

- Proposed
- Completed
- 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

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DRAFT

WORK IN PROGRESS

0 70 140 210 280 Feet

G:\Projects\0507606-8077\Projects\Presentation_092613_JH\WellDeepandFlutes_092413.mxd

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PROJECT NO.	131517
DRAWN:	9/24/2013
DRAWN BY:	B. Myers
CHECKED BY:	S. Rochford
FILE NAME:	

NEW WELL AND FLUTE LINER LOCATION MAP

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

FIGURE 1

APPENDICES

APPENDIX A

New Jersey ACCUTEST LABORATORIES

07/17/13



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

Accutest Job Number: JB42268

Sampling Date: 07/15/13

Report to:

Kleinfelder
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Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
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ATTN: Sean Rochford

Total number of pages in report: **14**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Sample Summary

ExxonMobil Corporation

Job No: JB42268

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB42268-1	07/15/13	18:25	JCM	07/16/13	AQ	Ground Water	MW-27B
JB42268-2	07/15/13	18:25	JCM	07/16/13	AQ	Trip Blank Water	TRIP BLANK JCM1

Summary of Hits

Job Number: JB42268
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 07/15/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB42268-1	**MW-27B**					
Benzene		0.97 J	1.0	0.24	ug/l	SW846 8260B
Di-Isopropyl ether		0.22 J	5.0	0.17	ug/l	SW846 8260B
Ethylbenzene		0.80 J	1.0	0.23	ug/l	SW846 8260B
Methyl Tert Butyl Ether		51.9	1.0	0.16	ug/l	SW846 8260B
Tert Butyl Alcohol		14.3 J	25	1.8	ug/l	SW846 8260B
tert-Amyl Methyl Ether		5.0	5.0	0.27	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.66 J	5.0	0.27	ug/l	SW846 8260B
Toluene		7.7	1.0	0.23	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		0.95 J	2.0	0.19	ug/l	SW846 8260B
m,p-Xylene		3.4	1.0	0.42	ug/l	SW846 8260B
o-Xylene		4.5	1.0	0.24	ug/l	SW846 8260B
Xylene (total)		7.9	1.0	0.24	ug/l	SW846 8260B
JB42268-2	**TRIP BLANK JCM1**					

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-27B		
Lab Sample ID:	JB42268-1	**Date Sampled:**	07/15/13
Matrix:	AQ - Ground Water	**Date Received:**	07/16/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A121702.D	1	07/17/13	CC	n/a	n/a	V3A5249
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	0.97	1.0	0.24	ug/l	J
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	0.22	5.0	0.17	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-27B		
Lab Sample ID:	JB42268-1	**Date Sampled:**	07/15/13
Matrix:	AQ - Ground Water	**Date Received:**	07/16/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	0.80	1.0	0.23	ug/l	J
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	51.9	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	14.3	25	1.8	ug/l	J
994-05-8	tert-Amyl Methyl Ether	5.0	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	0.66	5.0	0.27	ug/l	J
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	7.7	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.95	2.0	0.19	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	3.4	1.0	0.42	ug/l	
95-47-6	o-Xylene	4.5	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	7.9	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-27B		
Lab Sample ID:	JB42268-1	**Date Sampled:**	07/15/13
Matrix:	AQ - Ground Water	**Date Received:**	07/16/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	102%		74-122%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	97%		76-116%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM1		
Lab Sample ID:	JB42268-2	**Date Sampled:**	07/15/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/16/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A121700.D	1	07/17/13	CC	n/a	n/a	V3A5249
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK JCM1
Lab Sample ID: JB42268-2 **Date Sampled:** 07/15/13
Matrix: AQ - Trip Blank Water **Date Received:** 07/16/13
Method: SW846 8260B **Percent Solids:** n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM1		
Lab Sample ID:	JB42268-2	**Date Sampled:**	07/15/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/16/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%		74-122%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	100%		76-116%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

GW TB

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE 1 OF 1

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX. 732-329-3499/3480
www.accutest.com

FED-EX Tracking # | Bottle Order Control #

Accutest Quote # | Accutest Job # JB42268

Client / Reporting Information

Company Name: Kleinfelder
Street Address: 1340 Charwood Road Ste. 1
City: Hanover, State: MD, Zip: 21076
Project Contact: Stacey Schiding, E-mail:
Phone #: 410-850-0404, Fax #: 410-850-0049
Sampler(s) Name(s): Jonathan Mead, 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: John Hoban
ExxonMobil Purchase Order #: N/A

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name: Kleinfelder
Street Address: 1 Speen Street, Second Floor
City: Framingham, State: MA, Zip: 01701
Attention: Accounts Payable, PO#: 51141-243044

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	8260B - Full List VOCs + Fuel Oxygenates	LAB USE ONLY
1	MW-27B		7/15/2013	18:25	JCM	GW	3	X								X	
2	Trip Blank JCM 1		7/10/13	08:00	-	TB	2	X								X	962

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

- [ ] Std. 10 Business Days
- [ ] 8 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [x] 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: 24 Hour Turn-Around Time

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	Jonathan Mead	7/15/13 1300	1	2	7/16/13 1730	2
2			2	3		3
3			3	4		4
4			4	5		5
5			5			

Custody Seal # | [ ] Intact [ ] Not intact | Preserved where applicable | On Ice | Cooler Temp. 2.0C

4.1 4

JB42268: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB42268 **Client:** **Project:**

Date / Time Received: 7/16/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (2/2); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

New Jersey ACCUTEST LABORATORIES

07/24/13



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

Accutest Job Number: JB42857

Sampling Date: 07/22/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **17**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Sample Summary

ExxonMobil Corporation

Job No: JB42857

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB42857-1	07/22/13	17:30	JCM	07/23/13	AQ	Ground Water	PW3501(BP)
JB42857-2	07/22/13	17:35	JCM	07/23/13	AQ	Ground Water	PW3501(AP)
JB42857-3	07/22/13	17:35	JCM	07/23/13	AQ	Trip Blank Water	TRIP BLANK JCM 1

Summary of Hits

Job Number: JB42857
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 07/22/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB42857-1	**PW3501(BP)**					
Methyl Tert Butyl Ether		0.92 J	1.0	0.16	ug/l	SW846 8260B
JB42857-2	**PW3501(AP)**					
No hits reported in this sample.						
JB42857-3	**TRIP BLANK JCM 1**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	PW3501(BP)		
Lab Sample ID:	JB42857-1	**Date Sampled:**	07/22/13
Matrix:	AQ - Ground Water	**Date Received:**	07/23/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D88806.D	1	07/24/13	JTP	n/a	n/a	V3D3819
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW3501(BP)		
Lab Sample ID:	JB42857-1	**Date Sampled:**	07/22/13
Matrix:	AQ - Ground Water	**Date Received:**	07/23/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.92	1.0	0.16	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW3501(BP)		
Lab Sample ID:	JB42857-1	**Date Sampled:**	07/22/13
Matrix:	AQ - Ground Water	**Date Received:**	07/23/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	102%		74-122%
2037-26-5	Toluene-D8	106%		80-120%
460-00-4	4-Bromofluorobenzene	101%		76-116%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW3501(AP)		
Lab Sample ID:	JB42857-2	**Date Sampled:**	07/22/13
Matrix:	AQ - Ground Water	**Date Received:**	07/23/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D88807.D	1	07/24/13	JTP	n/a	n/a	V3D3819
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW3501(AP)		
Lab Sample ID:	JB42857-2	**Date Sampled:**	07/22/13
Matrix:	AQ - Ground Water	**Date Received:**	07/23/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW3501(AP)		
Lab Sample ID:	JB42857-2	**Date Sampled:**	07/22/13
Matrix:	AQ - Ground Water	**Date Received:**	07/23/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		74-122%
2037-26-5	Toluene-D8	106%		80-120%
460-00-4	4-Bromofluorobenzene	100%		76-116%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM 1		
Lab Sample ID:	JB42857-3	**Date Sampled:**	07/22/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/23/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C118945.D	1	07/24/13	MD	n/a	n/a	V1C5272
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM 1		
Lab Sample ID:	JB42857-3	**Date Sampled:**	07/22/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/23/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM 1		
Lab Sample ID:	JB42857-3	**Date Sampled:**	07/22/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/23/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	95%		74-122%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	93%		76-116%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE 1 OF 1

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

WTB
GW

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB42857

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 / 410-850-0049
Sampler(s) Name(s) / Phone #	Jonathan Mead / 860-508-4663

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	John Hoban
ExxonMobil Purchase Order #	N/A

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant

Company Name	Kleinfelder
Street Address	1 Speen Street, Second Floor
City / State / Zip	Framingham MA 01701
Attention: / PO#	Accounts Payable 51141-243044

Requested Analysis (see TEST CODE sheet)

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	8260B - Full List VOCs + Fuel Oxygenates	LAB USE ONLY
1	PW3501(BP)		7/22/2013	17:30	JCM	GW	3	X								X	
2	PW3501(AP)		7/22/2013	17:35	JCM	GW	3	X								X	
3	Trip Blank JCM 1		7/17/2013	07:00	-	TB	2	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

2141

Turnaround Time (Business days)

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

24 Hour Turn-Around Time

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]	7/23/13	1 [signature] 7/23/13 1300	2 [signature] 7/23/13	1640	2 [signature]
3		3	4		4
5 2A		5 1 Cooler (R)	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐ On Ice ☒ Cooler Temp. 2.0C

4.1

4

JB42857: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB42857 **Client:** _____ **Project:** _____

Date / Time Received: 7/23/2013 **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Initial/Adjusted): #1: (2/2); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Comments

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB42857: Chain of Custody
Page 2 of 2

New Jersey ACCUTEST LABORATORIES

07/29/13



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

Accutest Job Number: JB43272

Sampling Date: 07/25/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **10**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Sample Summary

ExxonMobil Corporation

Job No: JB43272

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB43272-1	07/25/13	13:50	CC	07/26/13	AQ	Ground Water	MW027B
JB43272-2	07/25/13	13:50	CC	07/26/13	AQ	Trip Blank Water	TRIP BLANK CC

Summary of Hits

Job Number: JB43272
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 07/25/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB43272-1	**MW027B**					
Benzene		1.3	1.0	0.24	ug/l	SW846 8260B
Toluene		2.4	1.0	0.23	ug/l	SW846 8260B
Xylene (total)		1.4	1.0	0.24	ug/l	SW846 8260B
Methyl Tert Butyl Ether		54.4	1.0	0.16	ug/l	SW846 8260B
Tert Butyl Alcohol		13.6 J	25	1.8	ug/l	SW846 8260B
tert-Amyl Methyl Ether		4.5 J	5.0	0.27	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.55 J	5.0	0.27	ug/l	SW846 8260B
JB43272-2	**TRIP BLANK CC**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW027B		
Lab Sample ID:	JB43272-1	**Date Sampled:**	07/25/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D38347.D	1	07/27/13	PR	n/a	n/a	V4D1729
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.3	1.0	0.24	ug/l	
108-88-3	Toluene	2.4	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	1.4	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	54.4	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	13.6	25	1.8	ug/l	J
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	4.5	5.0	0.27	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.55	5.0	0.27	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-117%
17060-07-0	1,2-Dichloroethane-D4	93%		72-123%
2037-26-5	Toluene-D8	92%		82-118%
460-00-4	4-Bromofluorobenzene	82%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK CC		
Lab Sample ID:	JB43272-2	**Date Sampled:**	07/25/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/26/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D38346.D	1	07/27/13	PR	n/a	n/a	V4D1729
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-117%
17060-07-0	1,2-Dichloroethane-D4	94%		72-123%
2037-26-5	Toluene-D8	95%		82-118%
460-00-4	4-Bromofluorobenzene	82%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

X GW WTB

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE ___ OF ___ cc

Accutest New Jersey (Mid Atlantic) Regional Lab
Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

2235

FED-EX Tracking # | Bottle Order Control #

Accutest Quote # | Accutest Job # JB43272

Client / Reporting Information

Company Name: Kleinfelder
Street Address: 1340 Charwood Road Ste. 1
City State Zip: Hanover, MD 21076
Project Contact: Sean Rochford, Stacey Schiding
E-mail:
Phone #: 410-850-0404
Fax #:
Sampler(s) Name(s): Chris Cresci
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: John Hoban
ExxonMobil Purchase Order #:

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant

Company Name: Kleinfelder
Street Address: 1 Speen Street, Second Floor
City: Framingham State: MA Zip: 01701
Attention: Accounts Payable PO#: 51141-243044

Requested Analysis (see TEST CODE sheet)

MTBE, BTEX, ETBE, TAME, DIPE, TBA by 8260B
V8260MDVO

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	V8260MDVO	LAB USE ONLY
-1	MW027B		7/25/2013	1350	CC	GW	3	X								X		2187
-2	TRIP Blank CC		7/12/13	0800		TB	2	X								X		

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

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

24 HR TAT

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			7-26-13 1430	2	7-26-13	3010
3				4		
5						

Custody Seal # | Intact | Not intact | Preserved where applicable | On Ice | Cooler Temp. 3.0c

2A EE

JB43272: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB43272 **Client:** **Project:**

Date / Time Received: 7/26/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (3/3); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

New Jersey ACCUTEST LABORATORIES

08/05/13



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO # 51141-243044

Accutest Job Number: JB43805

Sampling Date: 08/01/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **23**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Sample Summary

ExxonMobil Corporation

Job No: JB43805

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO # 51141-243044

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB43805-1	08/01/13	08:45	JCM	08/02/13	AQ	Ground Water	MW188D(DTB-125)
JB43805-2	08/01/13	11:50	JCM	08/02/13	AQ	Ground Water	MW171C(BP)
JB43805-3	08/01/13	16:30	JCM	08/02/13	AQ	Ground Water	MW135C(BP)
JB43805-4	08/01/13	16:40	JCM	08/02/13	AQ	Ground Water	MW135C(AP)
JB43805-5	08/01/13	16:40	JCM	08/02/13	AQ	Trip Blank Water	TRIP BLANK JCM 1

Summary of Hits

Job Number: JB43805
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 08/01/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB43805-1	**MW188D(DTB-125)**					
No hits reported in this sample.						
JB43805-2	**MW171C(BP)**					
Acetone		3.4 J	10	3.3	ug/l	SW846 8260B
2-Butanone (MEK)		6.1 J	10	2.4	ug/l	SW846 8260B
Methyl Tert Butyl Ether		8.0	1.0	0.16	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.75 J	5.0	0.27	ug/l	SW846 8260B
JB43805-3	**MW135C(BP)**					
No hits reported in this sample.						
JB43805-4	**MW135C(AP)**					
No hits reported in this sample.						
JB43805-5	**TRIP BLANK JCM 1**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW188D(DTB-125)		
Lab Sample ID:	JB43805-1	**Date Sampled:**	08/01/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D123981.D	1	08/03/13	ET	n/a	n/a	V2D5165
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW188D(DTB-125)
Lab Sample ID: JB43805-1 **Date Sampled:** 08/01/13
Matrix: AQ - Ground Water **Date Received:** 08/02/13
Method: SW846 8260B **Percent Solids:** n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW188D(DTB-125)		
Lab Sample ID:	JB43805-1	**Date Sampled:**	08/01/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	105%		72-123%
2037-26-5	Toluene-D8	103%		82-118%
460-00-4	4-Bromofluorobenzene	99%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW171C(BP)		
Lab Sample ID:	JB43805-2	**Date Sampled:**	08/01/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D123982.D	1	08/03/13	ET	n/a	n/a	V2D5165
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	3.4	10	3.3	ug/l	J
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	6.1	10	2.4	ug/l	J
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW171C(BP)		
Lab Sample ID:	JB43805-2	**Date Sampled:**	08/01/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	8.0	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	0.75	5.0	0.27	ug/l	J
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW171C(BP)		
Lab Sample ID:	JB43805-2	**Date Sampled:**	08/01/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	106%		72-123%
2037-26-5	Toluene-D8	103%		82-118%
460-00-4	4-Bromofluorobenzene	100%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW135C(BP)		
Lab Sample ID:	JB43805-3	**Date Sampled:**	08/01/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D123983.D	1	08/03/13	ET	n/a	n/a	V2D5165
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW135C(BP)		
Lab Sample ID:	JB43805-3	**Date Sampled:**	08/01/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW135C(BP)		
Lab Sample ID:	JB43805-3	**Date Sampled:**	08/01/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	106%		72-123%
2037-26-5	Toluene-D8	102%		82-118%
460-00-4	4-Bromofluorobenzene	99%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW135C(AP)		
Lab Sample ID:	JB43805-4	**Date Sampled:**	08/01/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D123984.D	1	08/03/13	ET	n/a	n/a	V2D5165
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW135C(AP)		
Lab Sample ID:	JB43805-4	**Date Sampled:**	08/01/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW135C(AP)		
Lab Sample ID:	JB43805-4	**Date Sampled:**	08/01/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	107%		72-123%
2037-26-5	Toluene-D8	102%		82-118%
460-00-4	4-Bromofluorobenzene	101%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM 1		
Lab Sample ID:	JB43805-5	**Date Sampled:**	08/01/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D123980.D	1	08/03/13	ET	n/a	n/a	V2D5165
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK JCM 1
Lab Sample ID: JB43805-5 **Date Sampled:** 08/01/13
Matrix: AQ - Trip Blank Water **Date Received:** 08/02/13
Method: SW846 8260B **Percent Solids:** n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM 1		
Lab Sample ID:	JB43805-5	**Date Sampled:**	08/01/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	106%		72-123%
2037-26-5	Toluene-D8	102%		82-118%
460-00-4	4-Bromofluorobenzene	99%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

GW
TB

ACCUTEST Laboratories

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE 1 OF 1

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB 43805

Client / Reporting Information	SITE NAME - Provide Site Name for Retail or AFE Number for Major Projects	
Company Name: Kleinfelder	Retail Project (Site Name): Exxon - Phoenix	ExxonMobil Environmental Services Co.
Street Address: 1340 Charwood Road Ste. 1	Major Project (AFE): 28077	If Project is Direct Bill to Consultant
City: Hanover, State: MD, Zip: 21076	Project Name: 14258 Jarrettsville Pike	Company Name: Kleinfelder
Project Contact: Stacey Schiding, E-mail:	City: Phoenix, State: MD	Street Address: 1 Speen Street, Second Floor
Phone #: 410-850-0404, Fax #: 410-850-0049	ExxonMobil Manager: John Hoban	City: Framingham, State: MA, Zip: 01701
Sampler(s) Name(s): Jonathan Mead, Phone #: 860-508-4663	ExxonMobil Purchase Order #: N/A	Attention: Accounts Payable, PO#: 51141-243044

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	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	8260B - Full List VOCs + Fuel Oxygenates	LAB USE ONLY
1	MW188D(DTB-125)		8/1/13	8:45	JCM	GW	3	X								X	
2	MW171C(BP)		8/1/13	11:50	JCM	GW	3	X								X	
3	MW135C(BP)		8/1/13	16:30	JCM	GW	3	X								X	
4	MW135C(AP)		8/1/13	16:40	JCM	GW	3	X								X	
5	Trip Blank JCM 1		7/24/2013	07:00	-	TB	2	X								X	

Turnaround Time (Business days)

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

24 Hour Turn-Around Time

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]	8/1/13	[signature] 8-2-13 11:40	2 [signature] 8-2-13	1525	2 Emad Eid
3		3	4		4
5		5	Custody Seal # N/A	☐ Intact ☐ Not intact	Preserved where applicable ☐ On Ice ☐ Cooler Temp. 3.4

JB

4.1

4

JB43805: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB43805 **Client:** _____ **Project:** _____

Date / Time Received: 8/2/2013 **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Initial/Adjusted): #1: (3.4/3.4); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB43805: Chain of Custody
Page 2 of 2

New Jersey ACCUTEST LABORATORIES

08/07/13



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO#: 51141-243044

Accutest Job Number: JB44053

Sampling Date: 08/05/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **14**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Sample Summary

ExxonMobil Corporation

Job No: JB44053

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#: 51141-243044

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB44053-1	08/05/13	08:30	JM	08/06/13	AQ	Ground Water	MW188D(DTB-300)
JB44053-2	08/05/13	08:30	JM	08/06/13	AQ	Trip Blank Water	TRIP BLANK JCM 1

Summary of Hits

Job Number: JB44053
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 08/05/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JB44053-1 **MW188D(DTB-300)**

No hits reported in this sample.

JB44053-2 **TRIP BLANK JCM 1**

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW188D(DTB-300)		
Lab Sample ID:	JB44053-1	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C119334.D	1	08/07/13	MD	n/a	n/a	V1C5292
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW188D(DTB-300)		
Lab Sample ID:	JB44053-1	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW188D(DTB-300)		
Lab Sample ID:	JB44053-1	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	92%		72-123%
2037-26-5	Toluene-D8	91%		82-118%
460-00-4	4-Bromofluorobenzene	92%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM 1		
Lab Sample ID:	JB44053-2	**Date Sampled:**	08/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C119330.D	1	08/07/13	MD	n/a	n/a	V1C5292
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM 1		
Lab Sample ID:	JB44053-2	**Date Sampled:**	08/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM 1		
Lab Sample ID:	JB44053-2	**Date Sampled:**	08/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	90%		72-123%
2037-26-5	Toluene-D8	91%		82-118%
460-00-4	4-Bromofluorobenzene	92%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

GW
WTB

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE 1 OF 1

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB44053

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 / 410-850-0049
Sampler(s) Name(s) / Phone #	Jonathan Mead / 860-508-4663

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	John Hoban
ExxonMobil Purchase Order #	N/A

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant

Company Name	Kleinfelder
Street Address	1 Speen Street, Second Floor
City / State / Zip	Framingham MA 01701
Attention: / PO#	Accounts Payable 51141-243044

Requested Analysis (see TEST CODE sheet)

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	8260B - Full List VOCs + Fuel Oxygenates	LAB USE ONLY
-1	MW188D(DTB-300)		8/5/13	8:30	JCM	GW	3	X								X	876
-2	Trip Blank JCM 1		7/17/2013	08:00	-	TB	2	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

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

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

24 Hour Turn-Around Time

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 Jonathan Mead	8/5/13	1 8/6/13 1230	2 8/6/13	1730	2
3		3	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not intact — Preserved where applicable ☐ — On Ice ☒ — Cooler Temp. 2.0C

VI 1Cooler

4.1

4

JB44053: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB44053 **Client:** **Project:**

Date / Time Received: 8/6/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (2/2); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200
2235 US Highway 130
F: 732.329.3499
Dayton, New Jersey
www/accutest.com

JB44053: Chain of Custody
Page 2 of 2

New Jersey
ACCUTEST LABORATORIES

08/16/13



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO#51141-243044

Accutest Job Number: JB44090

Sampling Date: 08/05/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **14**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Sample Summary

ExxonMobil Corporation

Job No: JB44090

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#51141-243044

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB44090-1	08/05/13	12:35	PS	08/06/13	AQ	Ground Water	MW073
JB44090-2	08/05/13	12:55	PS	08/06/13	AQ	Ground Water	PW3501(BP)
JB44090-3	08/05/13	12:58	PS	08/06/13	AQ	Ground Water	PW3501(AP)
JB44090-4	08/05/13	11:50	PS	08/06/13	AQ	Ground Water	MW037
JB44090-5	08/05/13	12:00	PS	08/06/13	AQ	Ground Water	MW038
JB44090-6	08/05/13	12:58	PS	08/06/13	AQ	Trip Blank Water	TRIP BLANK PS02

Summary of Hits

Job Number: JB44090
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 08/05/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB44090-1	**MW073**					
No hits reported in this sample.						
JB44090-2	**PW3501(BP)**					
Methyl Tert Butyl Ether		1.0	1.0	0.16	ug/l	SW846 8260B
JB44090-3	**PW3501(AP)**					
No hits reported in this sample.						
JB44090-4	**MW037**					
No hits reported in this sample.						
JB44090-5	**MW038**					
Benzene		1.3	1.0	0.24	ug/l	SW846 8260B
Xylene (total)		1.3	1.0	0.24	ug/l	SW846 8260B
Methyl Tert Butyl Ether		109	1.0	0.16	ug/l	SW846 8260B
Di-Isopropyl ether		0.87 J	5.0	0.17	ug/l	SW846 8260B
tert-Amyl Methyl Ether		8.0	5.0	0.27	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		2.4 J	5.0	0.27	ug/l	SW846 8260B
JB44090-6	**TRIP BLANK PS02**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW073		
Lab Sample ID:	JB44090-1	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D124251.D	1	08/10/13	ET	n/a	n/a	V2D5176
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		79-117%
17060-07-0	1,2-Dichloroethane-D4	100%		72-123%
2037-26-5	Toluene-D8	97%		82-118%
460-00-4	4-Bromofluorobenzene	95%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW3501(BP)		
Lab Sample ID:	JB44090-2	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D124252.D	1	08/10/13	ET	n/a	n/a	V2D5176
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.0	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-117%
17060-07-0	1,2-Dichloroethane-D4	104%		72-123%
2037-26-5	Toluene-D8	97%		82-118%
460-00-4	4-Bromofluorobenzene	95%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW3501(AP)		
Lab Sample ID:	JB44090-3	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D124253.D	1	08/10/13	ET	n/a	n/a	V2D5176
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-117%
17060-07-0	1,2-Dichloroethane-D4	108%		72-123%
2037-26-5	Toluene-D8	98%		82-118%
460-00-4	4-Bromofluorobenzene	96%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW037		
Lab Sample ID:	JB44090-4	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D124254.D	1	08/10/13	ET	n/a	n/a	V2D5176
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		79-117%
17060-07-0	1,2-Dichloroethane-D4	111%		72-123%
2037-26-5	Toluene-D8	98%		82-118%
460-00-4	4-Bromofluorobenzene	97%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW038		
Lab Sample ID:	JB44090-5	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D124255.D	1	08/10/13	ET	n/a	n/a	V2D5176
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.3	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	1.3	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	109	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	0.87	5.0	0.17	ug/l	J
994-05-8	tert-Amyl Methyl Ether	8.0	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	2.4	5.0	0.27	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%
17060-07-0	1,2-Dichloroethane-D4	114%		72-123%
2037-26-5	Toluene-D8	100%		82-118%
460-00-4	4-Bromofluorobenzene	95%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK PS02		
Lab Sample ID:	JB44090-6	**Date Sampled:**	08/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D124256.D	1	08/10/13	ET	n/a	n/a	V2D5176
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%
17060-07-0	1,2-Dichloroethane-D4	114%		72-123%
2037-26-5	Toluene-D8	98%		82-118%
460-00-4	4-Bromofluorobenzene	95%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE ___ OF ___

GW TB

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #
Bottle Order Control #
Accutest Quote #
Accutest Job # JB 44090

Client / Reporting Information

Company Name: Kleinfelder
Street Address: 1340 Charwood Road Ste. 1
City: Hanover, State: MD, Zip: 21076
Project Contact: Sean Rochford, Stacey Schiding, E-mail:
Phone #: 410-850-0404, Fax #: 410-850-0049
Sampler(s) Name(s): Paul Schoonmaker, 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: John Hoban
ExxonMobil Purchase Order #:

ExxonMobil Environmental Services Co.
If Project is Direct Bill to Consultant
Company Name: Kleinfelder
Street Address: 1 Speen Street, Second Floor
City: Framingham, State: MA, Zip: 01701
Attention: Accounts Payable, PO#: 51141-243044

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	V8260MDVO	LAB USE ONLY
1	MW073		8/5/13	1235	PS	GW	3	X								X		881
2	PW3501(BP)		8/5/13	1255	PS	GW	3	X								X		
3	PW3501(AP)		8/5/13	1258	PS	GW	3	X								X		
4	MW037		8/5/13	1150	PS	GW	3	X								X		
5	MW038		8/5/13	1200	PS	GW	3	X								X		
6	TRIP BLANK PS02		7/29/13	0900	PS	TB	2	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 Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		1 8/6/13 1230	2 8/6/13	1730	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	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐ On Ice ☑ Cooler Temp. 1.8C GG

4.1

4

JB44090: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB44090 **Client:** **Project:**

Date / Time Received: 8/6/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (1.8/1.8); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB44090: Chain of Custody
Page 2 of 2

New Jersey ACCUTEST LABORATORIES

08/12/13



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

Accutest Job Number: JB44300

Sampling Date: 08/08/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **14**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Sample Summary

ExxonMobil Corporation

Job No: JB44300

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB44300-1	08/08/13	08:15	JCM	08/08/13	AQ	Ground Water	MW138D(DTB-60)
JB44300-2	08/08/13	08:15	JCM	08/08/13	AQ	Trip Blank Water	TRIP BLANK JCM 1

Summary of Hits

Job Number: JB44300
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 08/08/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB44300-1	**MW138D(DTB-60)**					
Styrene		1.3 J	5.0	0.21	ug/l	SW846 8260B
Trichloroethene		2.3	1.0	0.22	ug/l	SW846 8260B
JB44300-2	**TRIP BLANK JCM 1**					

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW138D(DTB-60)		
Lab Sample ID:	JB44300-1	**Date Sampled:**	08/08/13
Matrix:	AQ - Ground Water	**Date Received:**	08/08/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D89501.D	1	08/10/13	KC	n/a	n/a	V3D3851
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW138D(DTB-60)
Lab Sample ID: JB44300-1 **Date Sampled:** 08/08/13
Matrix: AQ - Ground Water **Date Received:** 08/08/13
Method: SW846 8260B **Percent Solids:** n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	1.3	5.0	0.21	ug/l	J
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	2.3	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW138D(DTB-60)		
Lab Sample ID:	JB44300-1	**Date Sampled:**	08/08/13
Matrix:	AQ - Ground Water	**Date Received:**	08/08/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		72-123%
2037-26-5	Toluene-D8	93%		82-118%
460-00-4	4-Bromofluorobenzene	89%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM 1		
Lab Sample ID:	JB44300-2	**Date Sampled:**	08/08/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/08/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D89467.D	1	08/09/13	KC	n/a	n/a	V3D3850
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK JCM 1
Lab Sample ID: JB44300-2 **Date Sampled:** 08/08/13
Matrix: AQ - Trip Blank Water **Date Received:** 08/08/13
Method: SW846 8260B **Percent Solids:** n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM 1		
Lab Sample ID:	JB44300-2	**Date Sampled:**	08/08/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/08/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	99%		72-123%
2037-26-5	Toluene-D8	92%		82-118%
460-00-4	4-Bromofluorobenzene	90%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

BW

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE 1 OF 1

ACCUTEST Laboratories

WTB
GW

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB44300

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 / 410-850-0049
Sampler(s) Name(s) / Phone #	Jonathan Mead / 860-508-4663

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	John Hoban
ExxonMobil Purchase Order #	N/A

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant

Company Name	Kleinfelder
Street Address	1 Speen Street, Second Floor
City / State / Zip	Framingham MA 01701
Attention: / PO#	Accounts Payable 51141-243044

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	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	8260B - Full List VOCs + Fuel Oxygenates	LAB USE ONLY
1	MW138D(DTB-60)		8/8/13	8:15	JCM	GW	3	X								X	
2	Trip Blank JCM 1		7/31/2013	13:00	-	TB	2	X								X	
																	899 J

Turnaround Time (Business days)

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

48 Hour Turn-Around Time

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]	8/8/13	1 [signature]	2 [signature]	8-8-13 16:32	2 [signature]
3		3	4		4
5		5	Custody Seal # ☐ Intact ☐ Not intact	Preserved where applicable ☐	On Ice ☐ Cooler Temp.

cart

JB44300: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB44300 **Client:** **Project:**

Date / Time Received: 8/8/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (2/2); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB44300: Chain of Custody
Page 2 of 2

New Jersey ACCUTEST LABORATORIES

08/13/13



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO#:51141-243044

Accutest Job Number: JB44438

Sampling Date: 08/09/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **14**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Sample Summary

ExxonMobil Corporation

Job No: JB44438

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#:51141-243044

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB44438-1	08/09/13	10:00	JM	08/09/13	AQ	Ground Water	MW188D(BP)
JB44438-2	08/09/13	10:00	JM	08/09/13	AQ	Trip Blank Water	TRIP BLANK JCM 1

Summary of Hits

Job Number: JB44438
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 08/09/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB44438-1	**MW188D(BP)**					
Methyl Tert Butyl Ether		0.74 J	1.0	0.16	ug/l	SW846 8260B
4-Methyl-2-pentanone(MIBK)		5.9	5.0	0.83	ug/l	SW846 8260B
m,p-Xylene		1.0	1.0	0.42	ug/l	SW846 8260B
o-Xylene		0.97 J	1.0	0.24	ug/l	SW846 8260B
Xylene (total)		2.0	1.0	0.24	ug/l	SW846 8260B
JB44438-2	**TRIP BLANK JCM 1**					

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW188D(BP)		
Lab Sample ID:	JB44438-1	**Date Sampled:**	08/09/13
Matrix:	AQ - Ground Water	**Date Received:**	08/09/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A122503.D	1	08/12/13	CC	n/a	n/a	V3A5283
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW188D(BP)		
Lab Sample ID:	JB44438-1	**Date Sampled:**	08/09/13
Matrix:	AQ - Ground Water	**Date Received:**	08/09/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.74	1.0	0.16	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	5.9	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	1.0	1.0	0.42	ug/l	
95-47-6	o-Xylene	0.97	1.0	0.24	ug/l	J
1330-20-7	Xylene (total)	2.0	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW188D(BP)		
Lab Sample ID:	JB44438-1	**Date Sampled:**	08/09/13
Matrix:	AQ - Ground Water	**Date Received:**	08/09/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	94%		72-123%
2037-26-5	Toluene-D8	88%		82-118%
460-00-4	4-Bromofluorobenzene	89%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM 1		
Lab Sample ID:	JB44438-2	**Date Sampled:**	08/09/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/09/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A122504.D	1	08/12/13	CC	n/a	n/a	V3A5283
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK JCM 1
Lab Sample ID: JB44438-2 **Date Sampled:** 08/09/13
Matrix: AQ - Trip Blank Water **Date Received:** 08/09/13
Method: SW846 8260B **Percent Solids:** n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM 1		
Lab Sample ID:	JB44438-2	**Date Sampled:**	08/09/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/09/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	93%		72-123%
2037-26-5	Toluene-D8	89%		82-118%
460-00-4	4-Bromofluorobenzene	90%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE 1 OF 1

ACCUTEST Laboratories

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking # | Bottle Order Control #

Accutest Quote # | Accutest Job # JB44438

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 / 410-850-0049
Sampler(s) Name(s) / Phone #: Jonathan Mead / 860-508-4663

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: John Hoban
ExxonMobil Purchase Order #: N/A

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name: Kleinfelder
Street Address: 1 Speen Street, Second Floor
City / State / Zip: Framingham MA 01701
Attention: Accounts Payable PO#: 51141-243044

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	8260B - Full List VOCs + Fuel Oxygenates	LAB USE ONLY
1	MW188D(BP)		8/9/13	10:00	JCM	GW	3	X								X	403
2	Trip Blank JCM 1		8/8/2013	6:00	-	TB	2	X								X	

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

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

48 Hour Turn-Around Time

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	Jonathan Mead	8/9/13	8-9-13 11:00	2 8-9-13	1715	2
3			3	4		4
5			5	Custody Seal #	Intact / Not intact	Preserved where applicable	On Ice	Cooler Temp. 3.2

2A

JB44438: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB44438 **Client:** **Project:**

Date / Time Received: 8/9/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (3.2/3.2); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB44438: Chain of Custody
Page 2 of 2

New Jersey ACCUTEST LABORATORIES

08/13/13



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO#: 51141-243044

Accutest Job Number: JB44441

Sampling Date: 08/09/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **10**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Sample Summary

ExxonMobil Corporation

Job No: JB44441

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#: 51141-243044

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB44441-1	08/09/13	08:30	CC	08/09/13	AQ	Ground Water	MW027B
JB44441-2	08/09/13	08:30	CC	08/09/13	AQ	Trip Blank Water	TRIP BLANK CC

Summary of Hits

Job Number: JB44441
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 08/09/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB44441-1	**MW027B**					
Methyl Tert Butyl Ether		59.5	1.0	0.16	ug/l	SW846 8260B
Tert Butyl Alcohol		13.6 J	25	1.8	ug/l	SW846 8260B
Di-Isopropyl ether		0.36 J	5.0	0.17	ug/l	SW846 8260B
tert-Amyl Methyl Ether		6.1	5.0	0.27	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.93 J	5.0	0.27	ug/l	SW846 8260B
JB44441-2	**TRIP BLANK CC**					

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW027B		
Lab Sample ID:	JB44441-1	**Date Sampled:**	08/09/13
Matrix:	AQ - Ground Water	**Date Received:**	08/09/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A122501.D	1	08/12/13	CC	n/a	n/a	V3A5283
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	59.5	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	13.6	25	1.8	ug/l	J
108-20-3	Di-Isopropyl ether	0.36	5.0	0.17	ug/l	J
994-05-8	tert-Amyl Methyl Ether	6.1	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	0.93	5.0	0.27	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		79-117%
17060-07-0	1,2-Dichloroethane-D4	92%		72-123%
2037-26-5	Toluene-D8	89%		82-118%
460-00-4	4-Bromofluorobenzene	89%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK CC		
Lab Sample ID:	JB44441-2	**Date Sampled:**	08/09/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/09/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A122502.D	1	08/12/13	CC	n/a	n/a	V3A5283
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		79-117%
17060-07-0	1,2-Dichloroethane-D4	91%		72-123%
2037-26-5	Toluene-D8	89%		82-118%
460-00-4	4-Bromofluorobenzene	88%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

GW
WTB

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE ___ OF ___

Accutest New Jersey (Mid Atlantic) Regional Lab 2235
Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX. 732-329-3499/3480
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB44441

Client / Reporting Information

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

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	John Hoban
ExxonMobil Purchase Order #	

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant

Company Name	Kleinfelder
Street Address	1 Speen Street, Second Floor
City / State / Zip	Framingham MA 01701
Attention: / PO#	Accounts Payable 51141-243044

Requested Analysis (see TEST CODE sheet)

	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	V8260M/DVO	LAB USE ONLY
1	MW027B		8/9/2013	0830	CC	GW	3	X								X		403
2	Trip Blank CC		7/17/13	0700		TB	2	1								1		

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

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] 8 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [x] 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 [signature]		2 MM-D 8-9-13 11:00	2 MM-D 8-9-13	1715	2 [signature]
3		3	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not intact — Preserved where applicable ☐ — On Ice ☒ — Cooler Temp. 2.8 -

LA

ERP

4.1

4

JB44441: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB44441 **Client:** _____ **Project:** _____

Date / Time Received: 8/9/2013 **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Initial/Adjusted): #1: (2.8/2.8); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB44441: Chain of Custody
Page 2 of 2

New Jersey
ACCUTEST LABORATORIES

08/15/13



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

Accutest Job Number: JB44643

Sampling Dates: 08/12/13 - 08/13/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **22**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Accutest Laboratories

Sample Summary

ExxonMobil Corporation

Job No: JB44643

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB44643-1	08/12/13	14:00	CC	08/13/13	AQ	Ground Water	MW054
JB44643-2	08/12/13	13:35	CC	08/13/13	AQ	Ground Water	MW091C
JB44643-3	08/12/13	13:45	CC	08/13/13	AQ	Ground Water	MW176
JB44643-4	08/12/13	13:25	CC	08/13/13	AQ	Ground Water	MW178C
JB44643-5	08/12/13	12:55	CC	08/13/13	AQ	Ground Water	MW138D (BP)
JB44643-6	08/12/13	13:00	CC	08/13/13	AQ	Ground Water	MW138D (AP)
JB44643-7	08/13/13	07:00	CC	08/13/13	AQ	Ground Water	MW168(87)
JB44643-8	08/13/13	07:02	CC	08/13/13	AQ	Ground Water	MW168(115)
JB44643-9	08/13/13	07:04	CC	08/13/13	AQ	Ground Water	MW168(148)
JB44643-10	08/13/13	07:04	CC	08/13/13	AQ	Ground Water	MW168(148) DUP BR
JB44643-11	08/13/13	07:06	CC	08/13/13	AQ	Ground Water	MW168(235)
JB44643-12	08/13/13	07:06	CC	08/13/13	AQ	Trip Blank Water	TRIP BLANK BR01

Summary of Hits

Job Number: JB44643
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 08/12/13 thru 08/13/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB44643-1	**MW054**					
Benzene		0.42 J	1.0	0.24	ug/l	SW846 8260B
Methyl Tert Butyl Ether		107	1.0	0.16	ug/l	SW846 8260B
Tert Butyl Alcohol		8.1 J	25	1.8	ug/l	SW846 8260B
Di-Isopropyl ether		0.84 J	5.0	0.17	ug/l	SW846 8260B
tert-Amyl Methyl Ether		8.5	5.0	0.27	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		2.3 J	5.0	0.27	ug/l	SW846 8260B
JB44643-2	**MW091C**					
Methyl Tert Butyl Ether		446	10	1.6	ug/l	SW846 8260B
Tert Butyl Alcohol		63.2	25	1.8	ug/l	SW846 8260B
Di-Isopropyl ether		2.0 J	5.0	0.17	ug/l	SW846 8260B
tert-Amyl Methyl Ether		25.8	5.0	0.27	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		7.7	5.0	0.27	ug/l	SW846 8260B
JB44643-3	**MW176**					
Methyl Tert Butyl Ether		2.8	1.0	0.16	ug/l	SW846 8260B
Di-Isopropyl ether		0.45 J	5.0	0.17	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		1.1 J	5.0	0.27	ug/l	SW846 8260B
JB44643-4	**MW178C**					
Methyl Tert Butyl Ether		177	1.0	0.16	ug/l	SW846 8260B
Tert Butyl Alcohol		26.1	25	1.8	ug/l	SW846 8260B
Di-Isopropyl ether		1.0 J	5.0	0.17	ug/l	SW846 8260B
tert-Amyl Methyl Ether		10.1	5.0	0.27	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		3.6 J	5.0	0.27	ug/l	SW846 8260B
JB44643-5	**MW138D (BP)**					
Methyl Tert Butyl Ether		0.43 J	1.0	0.16	ug/l	SW846 8260B
JB44643-6	**MW138D (AP)**					
Methyl Tert Butyl Ether		0.40 J	1.0	0.16	ug/l	SW846 8260B
JB44643-7	**MW168(87)**					

No hits reported in this sample.

Summary of Hits

Job Number: JB44643
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 08/12/13 thru 08/13/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB44643-8	**MW168(115)**					
Methyl Tert Butyl Ether		2.3	1.0	0.16	ug/l	SW846 8260B
JB44643-9	**MW168(148)**					
Methyl Tert Butyl Ether		2.6	1.0	0.16	ug/l	SW846 8260B
JB44643-10	**MW168(148) DUP BR**					
Methyl Tert Butyl Ether		2.6	1.0	0.16	ug/l	SW846 8260B
JB44643-11	**MW168(235)**					
Benzene		0.37 J	1.0	0.24	ug/l	SW846 8260B
Methyl Tert Butyl Ether		22.2	1.0	0.16	ug/l	SW846 8260B
Di-Isopropyl ether		0.29 J	5.0	0.17	ug/l	SW846 8260B
tert-Amyl Methyl Ether		0.77 J	5.0	0.27	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.85 J	5.0	0.27	ug/l	SW846 8260B
JB44643-12	**TRIP BLANK BR01**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW054		
Lab Sample ID:	JB44643-1	**Date Sampled:**	08/12/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O137110.D	1	08/14/13	VC	n/a	n/a	VO6055
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.42	1.0	0.24	ug/l	J
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	107	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	8.1	25	1.8	ug/l	J
108-20-3	Di-Isopropyl ether	0.84	5.0	0.17	ug/l	J
994-05-8	tert-Amyl Methyl Ether	8.5	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	2.3	5.0	0.27	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		79-117%
17060-07-0	1,2-Dichloroethane-D4	113%		72-123%
2037-26-5	Toluene-D8	106%		82-118%
460-00-4	4-Bromofluorobenzene	98%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW091C		
Lab Sample ID:	JB44643-2	**Date Sampled:**	08/12/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O137111.D	1	08/14/13	VC	n/a	n/a	VO6055
Run #2	O137112.D	10	08/14/13	VC	n/a	n/a	VO6055

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	446 [a]	10	1.6	ug/l	
75-65-0	Tert Butyl Alcohol	63.2	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	2.0	5.0	0.17	ug/l	J
994-05-8	tert-Amyl Methyl Ether	25.8	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	7.7	5.0	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%	110%	79-117%
17060-07-0	1,2-Dichloroethane-D4	112%	112%	72-123%
2037-26-5	Toluene-D8	106%	105%	82-118%
460-00-4	4-Bromofluorobenzene	97%	98%	75-118%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW176		
Lab Sample ID:	JB44643-3	**Date Sampled:**	08/12/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O137098.D	1	08/14/13	VC	n/a	n/a	VO6055
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.8	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	0.45	5.0	0.17	ug/l	J
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	1.1	5.0	0.27	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-117%
17060-07-0	1,2-Dichloroethane-D4	108%		72-123%
2037-26-5	Toluene-D8	105%		82-118%
460-00-4	4-Bromofluorobenzene	100%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW178C		
Lab Sample ID:	JB44643-4	**Date Sampled:**	08/12/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O137099.D	1	08/14/13	VC	n/a	n/a	VO6055
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	177	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	26.1	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	1.0	5.0	0.17	ug/l	J
994-05-8	tert-Amyl Methyl Ether	10.1	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	3.6	5.0	0.27	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		79-117%
17060-07-0	1,2-Dichloroethane-D4	110%		72-123%
2037-26-5	Toluene-D8	107%		82-118%
460-00-4	4-Bromofluorobenzene	101%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW138D (BP)		
Lab Sample ID:	JB44643-5	**Date Sampled:**	08/12/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O137100.D	1	08/14/13	VC	n/a	n/a	VO6055
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.43	1.0	0.16	ug/l	J
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-117%
17060-07-0	1,2-Dichloroethane-D4	110%		72-123%
2037-26-5	Toluene-D8	105%		82-118%
460-00-4	4-Bromofluorobenzene	99%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW138D (AP)		
Lab Sample ID:	JB44643-6	**Date Sampled:**	08/12/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O137101.D	1	08/14/13	VC	n/a	n/a	VO6055
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.40	1.0	0.16	ug/l	J
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		79-117%
17060-07-0	1,2-Dichloroethane-D4	111%		72-123%
2037-26-5	Toluene-D8	106%		82-118%
460-00-4	4-Bromofluorobenzene	99%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW168(87)		
Lab Sample ID:	JB44643-7	**Date Sampled:**	08/13/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O137102.D	1	08/14/13	VC	n/a	n/a	VO6055
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		79-117%
17060-07-0	1,2-Dichloroethane-D4	111%		72-123%
2037-26-5	Toluene-D8	107%		82-118%
460-00-4	4-Bromofluorobenzene	100%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW168(115)		
Lab Sample ID:	JB44643-8	**Date Sampled:**	08/13/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O137105.D	1	08/14/13	VC	n/a	n/a	VO6055
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.3	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		79-117%
17060-07-0	1,2-Dichloroethane-D4	111%		72-123%
2037-26-5	Toluene-D8	105%		82-118%
460-00-4	4-Bromofluorobenzene	99%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW168(148)		
Lab Sample ID:	JB44643-9	**Date Sampled:**	08/13/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O137106.D	1	08/14/13	VC	n/a	n/a	VO6055
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.6	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		79-117%
17060-07-0	1,2-Dichloroethane-D4	111%		72-123%
2037-26-5	Toluene-D8	105%		82-118%
460-00-4	4-Bromofluorobenzene	100%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW168(148) DUP BR		
Lab Sample ID:	JB44643-10	**Date Sampled:**	08/13/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O137107.D	1	08/14/13	VC	n/a	n/a	VO6055
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.6	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		79-117%
17060-07-0	1,2-Dichloroethane-D4	113%		72-123%
2037-26-5	Toluene-D8	107%		82-118%
460-00-4	4-Bromofluorobenzene	101%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW168(235)		
Lab Sample ID:	JB44643-11	**Date Sampled:**	08/13/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O137108.D	1	08/14/13	VC	n/a	n/a	VO6055
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.37	1.0	0.24	ug/l	J
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	22.2	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	0.29	5.0	0.17	ug/l	J
994-05-8	tert-Amyl Methyl Ether	0.77	5.0	0.27	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.85	5.0	0.27	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		79-117%
17060-07-0	1,2-Dichloroethane-D4	111%		72-123%
2037-26-5	Toluene-D8	105%		82-118%
460-00-4	4-Bromofluorobenzene	98%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK BR01		
Lab Sample ID:	JB44643-12	**Date Sampled:**	08/13/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O137109.D	1	08/14/13	VC	n/a	n/a	VO6055
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		79-117%
17060-07-0	1,2-Dichloroethane-D4	114%		72-123%
2037-26-5	Toluene-D8	108%		82-118%
460-00-4	4-Bromofluorobenzene	100%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

BK GW

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE 1 OF 2

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX. 732-329-3499/3480
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB44643

Client / Reporting Information

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

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: John Hoban
ExxonMobil Purchase Order #:

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name: Kleinfelder
Street Address: 1 Speen Street, Second Floor
City / State / Zip: Framington MA 01701
Attention: Accounts Payable
PO#: 51141-243044

Requested Analysis (see TEST CODE sheet)

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 Wat	MEOH	ENCO	MTBE, BTEX, ETBE, TAME, DIPE, TBA by 8260B	V8260MDVO	LAB USE ONLY
1	MW054		8/12/13	1400	CC	GW	3	X								X		
2	MW091C		8/12/13	1335	CC	GW	3	X								X		
3	MW176		8/12/13	1345	CC	GW	3	X								X		430
4	MW178C		8/12/13	1325	CC	GW	3	X								X		
5	MW138D (BP)		8/12/13	1255	CC	GW	3	X								X		
6	MW138D (AP)		8/12/13	1300	CC	GW	3	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

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] 8 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [x] 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 [signature] 8/13/13 1320		1 [signature] 8/13/13 1320	2 [signature] 8/13/13	1645	2 [signature]
3		3	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not intact — Preserved where applicable ☐ — On Ice ☒ — Cooler Temp. 1.2C GB

Cooler (R)

JB44643: Chain of Custody
Page 1 of 3

ACCUTEST Laboratories

BW

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE 2 OF 2

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499/3480
www.accutest.com

FED-EX Tracking #

Bottle Order Control #

Accutest Quote #

Accutest Job # JB44643

Client / Reporting Information

Company Name: Kleinfelder
Street Address: 1340 Charwood Road Ste. 1
City: Hanover, MD State: Zip: 21076
Project Contact: Sean Rochford, Stacey Schiding E-mail:
Phone #: 410-850-0404 Fax #: 860-508-4663
Sampler(s) Name(s): Brand Rodenberg Phone #:

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

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

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name: Kleinfelder
Street Address: 1 Speen Street, Second Floor
City: Framingham State: MA Zip: 01701
Attention: PO#: Accounts Payable 51141-243044

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	V8260MDVO	LAB USE ONLY
-7	MW168(87)		8/13/13	0700	BR	GW	3	X								X		
-9	MW168(115)		8/13/13	0702	BR	GW	3	X								X		
-9	MW168(148)		8/13/13	0704	BR	GW	3	X								X		
-10	MW168(148) DUP BR		8/13/13	0704	BR	GW	3	X								X		43
-11	MW168(235)		8/13/13	0706	BR	GW	3	X								X		
-12	TRIP BLANK BR01		8/7/13	0900	~	TB	2	X								X		

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

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

48 HOUR TAT

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		8/13/13 1346	1	2	8/13/13 1645	2
3	Relinquished by Sampler:	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐

On Ice: 5 Cooler Temp: 1.2C 6P

3A 11

JB44643: Chain of Custody
Page 2 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB44643 **Client:** **Project:**

Date / Time Received: 8/13/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (1.2/1.2); 0#2: (1.2/1.2); 0

Cooler Security

	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature

	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	2		

Quality Control Preservatio

	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation

	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition

	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions

	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB44643: Chain of Custody
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New Jersey
ACCUTEST LABORATORIES

08/22/13



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO#51141-243044

Accutest Job Number: JB45238

Sampling Date: 08/19/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **23**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

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Sample Summary

ExxonMobil Corporation

Job No: JB45238

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#51141-243044

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB45238-1	08/19/13	12:15	CC	08/20/13	AQ	Ground Water	MW138D(AP)
JB45238-2	08/19/13	12:10	CC	08/20/13	AQ	Ground Water	MW138D(BP)
JB45238-3	08/19/13	14:50	CC	08/20/13	AQ	Ground Water	MW188D(AP)
JB45238-4	08/19/13	15:20	CC	08/20/13	AQ	Ground Water	MW036C(BP)
JB45238-5	08/19/13	15:20	CC	08/20/13	AQ	Trip Blank Water	TRIP BLANK CC

Summary of Hits

Job Number: JB45238
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 08/19/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB45238-1	**MW138D(AP)**					
Methyl Tert Butyl Ether		0.80 J	1.0	0.16	ug/l	SW846 8260B
JB45238-2	**MW138D(BP)**					
Benzene		1.6	1.0	0.24	ug/l	SW846 8260B
Ethylbenzene		0.27 J	1.0	0.23	ug/l	SW846 8260B
Methyl Tert Butyl Ether		25.1	1.0	0.16	ug/l	SW846 8260B
tert-Amyl Methyl Ether		1.7 J	5.0	0.27	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.35 J	5.0	0.27	ug/l	SW846 8260B
o-Xylene		0.76 J	1.0	0.24	ug/l	SW846 8260B
Xylene (total)		0.76 J	1.0	0.24	ug/l	SW846 8260B
JB45238-3	**MW188D(AP)**					
Benzene		0.89 J	1.0	0.24	ug/l	SW846 8260B
Methyl Tert Butyl Ether		32.6	1.0	0.16	ug/l	SW846 8260B
tert-Amyl Methyl Ether		2.2 J	5.0	0.27	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.51 J	5.0	0.27	ug/l	SW846 8260B
Toluene		0.53 J	1.0	0.23	ug/l	SW846 8260B
m,p-Xylene		0.45 J	1.0	0.42	ug/l	SW846 8260B
o-Xylene		0.61 J	1.0	0.24	ug/l	SW846 8260B
Xylene (total)		1.1	1.0	0.24	ug/l	SW846 8260B
JB45238-4	**MW036C(BP)**					
Benzene		0.67 J	1.0	0.24	ug/l	SW846 8260B
Methyl Tert Butyl Ether		3.4	1.0	0.16	ug/l	SW846 8260B
tert-Amyl Methyl Ether		0.28 J	5.0	0.27	ug/l	SW846 8260B
Toluene		0.42 J	1.0	0.23	ug/l	SW846 8260B
JB45238-5	**TRIP BLANK CC**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW138D(AP)		
Lab Sample ID:	JB45238-1	**Date Sampled:**	08/19/13
Matrix:	AQ - Ground Water	**Date Received:**	08/20/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D89941.D	1	08/21/13	KC	n/a	n/a	V3D3869
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW138D(AP)
Lab Sample ID: JB45238-1 **Date Sampled:** 08/19/13
Matrix: AQ - Ground Water **Date Received:** 08/20/13
Method: SW846 8260B **Percent Solids:** n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.80	1.0	0.16	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW138D(AP)		
Lab Sample ID:	JB45238-1	**Date Sampled:**	08/19/13
Matrix:	AQ - Ground Water	**Date Received:**	08/20/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	96%		72-123%
2037-26-5	Toluene-D8	94%		82-118%
460-00-4	4-Bromofluorobenzene	90%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW138D(BP)		
Lab Sample ID:	JB45238-2	**Date Sampled:**	08/19/13
Matrix:	AQ - Ground Water	**Date Received:**	08/20/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D89942.D	1	08/21/13	KC	n/a	n/a	V3D3869
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	1.6	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW138D(BP)		
Lab Sample ID:	JB45238-2	**Date Sampled:**	08/19/13
Matrix:	AQ - Ground Water	**Date Received:**	08/20/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	0.27	1.0	0.23	ug/l	J
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	25.1	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	1.7	5.0	0.27	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.35	5.0	0.27	ug/l	J
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	0.76	1.0	0.24	ug/l	J
1330-20-7	Xylene (total)	0.76	1.0	0.24	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW138D(BP)		
Lab Sample ID:	JB45238-2	**Date Sampled:**	08/19/13
Matrix:	AQ - Ground Water	**Date Received:**	08/20/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	98%		72-123%
2037-26-5	Toluene-D8	92%		82-118%
460-00-4	4-Bromofluorobenzene	91%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW188D(AP)		
Lab Sample ID:	JB45238-3	**Date Sampled:**	08/19/13
Matrix:	AQ - Ground Water	**Date Received:**	08/20/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D89943.D	1	08/21/13	KC	n/a	n/a	V3D3869
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	0.89	1.0	0.24	ug/l	J
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW188D(AP)
Lab Sample ID: JB45238-3 **Date Sampled:** 08/19/13
Matrix: AQ - Ground Water **Date Received:** 08/20/13
Method: SW846 8260B **Percent Solids:** n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	32.6	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	2.2	5.0	0.27	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.51	5.0	0.27	ug/l	J
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	0.53	1.0	0.23	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	0.45	1.0	0.42	ug/l	J
95-47-6	o-Xylene	0.61	1.0	0.24	ug/l	J
1330-20-7	Xylene (total)	1.1	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW188D(AP)		
Lab Sample ID:	JB45238-3	**Date Sampled:**	08/19/13
Matrix:	AQ - Ground Water	**Date Received:**	08/20/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	98%		72-123%
2037-26-5	Toluene-D8	94%		82-118%
460-00-4	4-Bromofluorobenzene	91%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW036C(BP)		
Lab Sample ID:	JB45238-4	**Date Sampled:**	08/19/13
Matrix:	AQ - Ground Water	**Date Received:**	08/20/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D89940.D	1	08/21/13	KC	n/a	n/a	V3D3869
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	0.67	1.0	0.24	ug/l	J
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW036C(BP)
Lab Sample ID: JB45238-4 **Date Sampled:** 08/19/13
Matrix: AQ - Ground Water **Date Received:** 08/20/13
Method: SW846 8260B **Percent Solids:** n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.4	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.28	5.0	0.27	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	0.42	1.0	0.23	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW036C(BP)		
Lab Sample ID:	JB45238-4	**Date Sampled:**	08/19/13
Matrix:	AQ - Ground Water	**Date Received:**	08/20/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	97%		72-123%
2037-26-5	Toluene-D8	94%		82-118%
460-00-4	4-Bromofluorobenzene	90%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK CC		
Lab Sample ID:	JB45238-5	**Date Sampled:**	08/19/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/20/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D89937.D	1	08/21/13	KC	n/a	n/a	V3D3869
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK CC
Lab Sample ID: JB45238-5
Matrix: AQ - Trip Blank Water
Method: SW846 8260B
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

Date Sampled: 08/19/13
Date Received: 08/20/13
Percent Solids: n/a

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK CC		
Lab Sample ID:	JB45238-5	**Date Sampled:**	08/19/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/20/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	96%		72-123%
2037-26-5	Toluene-D8	93%		82-118%
460-00-4	4-Bromofluorobenzene	91%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE 1 OF 1

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499/3480
www.accutest.com

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: JB45238

Client / Reporting Information

Company Name: Kleinfelder
Street Address: 1340 Charwood Road Ste. 1
City: Hanover, State: MD, Zip: 21076
Project Contact: Stacey Schiding, E-mail:
Phone #: 410-850-0404, Fax #: 410-850-0049
Sampler(s) Name(s): Chris Cresci, 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: John Hoban
ExxonMobil Purchase Order #: N/A

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name: Kleinfelder
Street Address: 1 Speen Street, Second Floor
City: Framingham, State: MA, Zip: 01701
Attention: PO#: Accounts Payable 51141-243044

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	8260B - Full List VOCs + Fuel Oxygenates	LAB USE ONLY
1	MW138D(AP)		8/19/13	1215	CC	GW	3	X								X	499N
2	MW138D(BP)		8/19/13	1210	CC	GW	3	X								X	
3	MW188D(AP)		8/19/13	1450	CC	GW	3	X								X	
4	MW036C(BP)		8/19/13	1520	CC	GW	3	X								X	
5	TRIP BLANK CC		8/19/13	0545		TB	2	X								X	

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] 8 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [x] 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: 48-Hour Turn-Around Time

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	8-20-13	2
3	Relinquished by Sampler:	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	Intact / Not intact	Preserved where applicable / On Ice / Cooler Temp.

3A

JB45238: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB45238 **Client:** _____ **Project:** _____

Date / Time Received: 8/20/2013 **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Initial/Adjusted): #1: (1/1); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB45238: Chain of Custody
Page 2 of 2

New Jersey ACCUTEST LABORATORIES

09/03/13



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

Accutest Job Number: JB45535

Sampling Date: 08/20/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **28**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Accutest Laboratories

Sample Summary

ExxonMobil Corporation

Job No: JB45535

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB45535-1	08/20/13	14:25	CC	08/22/13	AQ	Ground Water	MW108
JB45535-2	08/20/13	11:20	CC	08/22/13	AQ	Ground Water	MW038B
JB45535-3	08/20/13	13:30	CC	08/22/13	AQ	Ground Water	MW073
JB45535-4	08/20/13	10:25	CC	08/22/13	AQ	Ground Water	MW037
JB45535-5	08/20/13	10:33	CC	08/22/13	AQ	Ground Water	MW038
JB45535-6	08/20/13	10:42	CC	08/22/13	AQ	Ground Water	MW036R
JB45535-7	08/20/13	10:55	CC	08/22/13	AQ	Ground Water	MW038C
JB45535-8	08/20/13	13:45	CC	08/22/13	AQ	Ground Water	MW054B
JB45535-9	08/20/13	09:25	CC	08/22/13	AQ	Ground Water	MW183
JB45535-10	08/20/13	09:35	CC	08/22/13	AQ	Ground Water	MW184
JB45535-11	08/20/13	09:44	CC	08/22/13	AQ	Ground Water	MW185
JB45535-12	08/20/13	09:05	CC	08/22/13	AQ	Ground Water	MW179A
JB45535-13	08/20/13	10:00	CC	08/22/13	AQ	Ground Water	MW180A

Sample Summary
(continued)

ExxonMobil Corporation

Job No: JB45535

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB45535-14	08/20/13	12:05	CC	08/22/13	AQ	Ground Water	PW3501(AP)
JB45535-15	08/20/13	12:10	CC	08/22/13	AQ	Ground Water	PW3501(BP)
JB45535-16	08/20/13	14:25	CC	08/22/13	AQ	Trip Blank Water	TRIP BLANK CC

Summary of Hits

Job Number: JB45535
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 08/20/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB45535-1	**MW108**					
No hits reported in this sample.						
JB45535-2	**MW038B**					
Benzene		0.57 J	1.0	0.24	ug/l	SW846 8260B
Xylene (total)		3.2	1.0	0.24	ug/l	SW846 8260B
Methyl Tert Butyl Ether		103	1.0	0.16	ug/l	SW846 8260B
Tert Butyl Alcohol		1.9 J	25	1.8	ug/l	SW846 8260B
Di-Isopropyl ether		0.94 J	5.0	0.17	ug/l	SW846 8260B
tert-Amyl Methyl Ether		7.5	5.0	0.27	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		1.8 J	5.0	0.27	ug/l	SW846 8260B
JB45535-3	**MW073**					
No hits reported in this sample.						
JB45535-4	**MW037**					
No hits reported in this sample.						
JB45535-5	**MW038**					
Benzene		1.3	1.0	0.24	ug/l	SW846 8260B
Xylene (total)		1.1	1.0	0.24	ug/l	SW846 8260B
Methyl Tert Butyl Ether		82.0	1.0	0.16	ug/l	SW846 8260B
Di-Isopropyl ether		0.76 J	5.0	0.17	ug/l	SW846 8260B
tert-Amyl Methyl Ether		8.0	5.0	0.27	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		2.0 J	5.0	0.27	ug/l	SW846 8260B
JB45535-6	**MW036R**					
Methyl Tert Butyl Ether		19.3	1.0	0.16	ug/l	SW846 8260B
Di-Isopropyl ether		0.25 J	5.0	0.17	ug/l	SW846 8260B
tert-Amyl Methyl Ether		0.91 J	5.0	0.27	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.63 J	5.0	0.27	ug/l	SW846 8260B
JB45535-7	**MW038C**					
Methyl Tert Butyl Ether		3160	25	4.1	ug/l	SW846 8260B
Tert Butyl Alcohol		26.3	25	1.8	ug/l	SW846 8260B
Di-Isopropyl ether		6.2	5.0	0.17	ug/l	SW846 8260B
tert-Amyl Methyl Ether		137	5.0	0.27	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		31.7	5.0	0.27	ug/l	SW846 8260B

Summary of Hits

Job Number: JB45535
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 08/20/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB45535-8	**MW054B**					
Benzene		157	50	12	ug/l	SW846 8260B
Toluene		125	50	11	ug/l	SW846 8260B
Xylene (total)		65.0	50	12	ug/l	SW846 8260B
Methyl Tert Butyl Ether		13300	100	16	ug/l	SW846 8260B
Tert Butyl Alcohol		2290	1300	92	ug/l	SW846 8260B
Di-Isopropyl ether		92.3 J	250	8.5	ug/l	SW846 8260B
tert-Amyl Methyl Ether		2770	250	13	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		346	250	14	ug/l	SW846 8260B
JB45535-9	**MW183**					
Benzene		223	100	24	ug/l	SW846 8260B
Toluene		107	100	23	ug/l	SW846 8260B
Ethylbenzene		37.1 J	100	23	ug/l	SW846 8260B
Xylene (total)		58.8 J	100	24	ug/l	SW846 8260B
Methyl Tert Butyl Ether		10700	100	16	ug/l	SW846 8260B
Tert Butyl Alcohol		2990	2500	180	ug/l	SW846 8260B
Di-Isopropyl ether		48.4 J	500	17	ug/l	SW846 8260B
tert-Amyl Methyl Ether		839	500	27	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		193 J	500	27	ug/l	SW846 8260B
JB45535-10	**MW184**					
Methyl Tert Butyl Ether		9.9	1.0	0.16	ug/l	SW846 8260B
Tert Butyl Alcohol		2.5 J	25	1.8	ug/l	SW846 8260B
Di-Isopropyl ether		0.81 J	5.0	0.17	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		2.3 J	5.0	0.27	ug/l	SW846 8260B
JB45535-11	**MW185**					
Methyl Tert Butyl Ether		1.1	1.0	0.16	ug/l	SW846 8260B
Di-Isopropyl ether		0.43 J	5.0	0.17	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.95 J	5.0	0.27	ug/l	SW846 8260B
JB45535-12	**MW179A**					
Xylene (total)		0.82 J	1.0	0.24	ug/l	SW846 8260B
Methyl Tert Butyl Ether		2.8	1.0	0.16	ug/l	SW846 8260B
JB45535-13	**MW180A**					
Methyl Tert Butyl Ether		0.32 J	1.0	0.16	ug/l	SW846 8260B

Summary of Hits

Job Number: JB45535
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 08/20/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB45535-14	**PW3501(AP)**					
No hits reported in this sample.						
JB45535-15	**PW3501(BP)**					
Methyl Tert Butyl Ether		0.94 J	1.0	0.16	ug/l	SW846 8260B
JB45535-16	**TRIP BLANK CC**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW108		
Lab Sample ID:	JB45535-1	**Date Sampled:**	08/20/13
Matrix:	AQ - Ground Water	**Date Received:**	08/22/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S175107.D	1	08/27/13	VC	n/a	n/a	VS7197
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		79-117%
17060-07-0	1,2-Dichloroethane-D4	97%		72-123%
2037-26-5	Toluene-D8	107%		82-118%
460-00-4	4-Bromofluorobenzene	111%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW038B		
Lab Sample ID:	JB45535-2	**Date Sampled:**	08/20/13
Matrix:	AQ - Ground Water	**Date Received:**	08/22/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S175108.D	1	08/27/13	VC	n/a	n/a	VS7197
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.57	1.0	0.24	ug/l	J
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	3.2	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	103	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	1.9	25	1.8	ug/l	J
108-20-3	Di-Isopropyl ether	0.94	5.0	0.17	ug/l	J
994-05-8	tert-Amyl Methyl Ether	7.5	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	1.8	5.0	0.27	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-117%
17060-07-0	1,2-Dichloroethane-D4	96%		72-123%
2037-26-5	Toluene-D8	108%		82-118%
460-00-4	4-Bromofluorobenzene	113%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW073		
Lab Sample ID:	JB45535-3	**Date Sampled:**	08/20/13
Matrix:	AQ - Ground Water	**Date Received:**	08/22/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S175109.D	1	08/27/13	VC	n/a	n/a	VS7197
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		79-117%
17060-07-0	1,2-Dichloroethane-D4	97%		72-123%
2037-26-5	Toluene-D8	108%		82-118%
460-00-4	4-Bromofluorobenzene	111%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW037		
Lab Sample ID:	JB45535-4	**Date Sampled:**	08/20/13
Matrix:	AQ - Ground Water	**Date Received:**	08/22/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S175110.D	1	08/27/13	VC	n/a	n/a	VS7197
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-117%
17060-07-0	1,2-Dichloroethane-D4	97%		72-123%
2037-26-5	Toluene-D8	108%		82-118%
460-00-4	4-Bromofluorobenzene	114%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW038		
Lab Sample ID:	JB45535-5	**Date Sampled:**	08/20/13
Matrix:	AQ - Ground Water	**Date Received:**	08/22/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S175111.D	1	08/27/13	VC	n/a	n/a	VS7197
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.3	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	1.1	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	82.0	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	0.76	5.0	0.17	ug/l	J
994-05-8	tert-Amyl Methyl Ether	8.0	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	2.0	5.0	0.27	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-117%
17060-07-0	1,2-Dichloroethane-D4	98%		72-123%
2037-26-5	Toluene-D8	109%		82-118%
460-00-4	4-Bromofluorobenzene	112%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW036R		
Lab Sample ID:	JB45535-6	**Date Sampled:**	08/20/13
Matrix:	AQ - Ground Water	**Date Received:**	08/22/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S175112.D	1	08/27/13	VC	n/a	n/a	VS7197
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	19.3	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	0.25	5.0	0.17	ug/l	J
994-05-8	tert-Amyl Methyl Ether	0.91	5.0	0.27	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.63	5.0	0.27	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-117%
17060-07-0	1,2-Dichloroethane-D4	96%		72-123%
2037-26-5	Toluene-D8	108%		82-118%
460-00-4	4-Bromofluorobenzene	112%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW038C		
Lab Sample ID:	JB45535-7	**Date Sampled:**	08/20/13
Matrix:	AQ - Ground Water	**Date Received:**	08/22/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S175113.D	1	08/27/13	VC	n/a	n/a	VS7197
Run #2	3A123102.D	25	08/30/13	NL	n/a	n/a	V3A5309

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3160 [a]	25	4.1	ug/l	
75-65-0	Tert Butyl Alcohol	26.3	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	6.2	5.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	137	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	31.7	5.0	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%	101%	79-117%
17060-07-0	1,2-Dichloroethane-D4	101%	103%	72-123%
2037-26-5	Toluene-D8	108%	101%	82-118%
460-00-4	4-Bromofluorobenzene	112%	99%	75-118%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW054B		
Lab Sample ID:	JB45535-8	**Date Sampled:**	08/20/13
Matrix:	AQ - Ground Water	**Date Received:**	08/22/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O137640.D	50	08/30/13	VC	n/a	n/a	VO6084
Run #2	3A123106.D	100	08/30/13	NL	n/a	n/a	V3A5309

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	157	50	12	ug/l	
108-88-3	Toluene	125	50	11	ug/l	
100-41-4	Ethylbenzene	ND	50	11	ug/l	
1330-20-7	Xylene (total)	65.0	50	12	ug/l	
1634-04-4	Methyl Tert Butyl Ether	13300 [a]	100	16	ug/l	
75-65-0	Tert Butyl Alcohol	2290	1300	92	ug/l	
108-20-3	Di-Isopropyl ether	92.3	250	8.5	ug/l	J
994-05-8	tert-Amyl Methyl Ether	2770	250	13	ug/l	
637-92-3	tert-Butyl Ethyl Ether	346	250	14	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	102%	79-117%
17060-07-0	1,2-Dichloroethane-D4	104%	105%	72-123%
2037-26-5	Toluene-D8	102%	101%	82-118%
460-00-4	4-Bromofluorobenzene	99%	98%	75-118%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW183		
Lab Sample ID:	JB45535-9	**Date Sampled:**	08/20/13
Matrix:	AQ - Ground Water	**Date Received:**	08/22/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O137651.D	100	08/30/13	VC	n/a	n/a	VO6084
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	223	100	24	ug/l	
108-88-3	Toluene	107	100	23	ug/l	
100-41-4	Ethylbenzene	37.1	100	23	ug/l	J
1330-20-7	Xylene (total)	58.8	100	24	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	10700	100	16	ug/l	
75-65-0	Tert Butyl Alcohol	2990	2500	180	ug/l	
108-20-3	Di-Isopropyl ether	48.4	500	17	ug/l	J
994-05-8	tert-Amyl Methyl Ether	839	500	27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	193	500	27	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		79-117%
17060-07-0	1,2-Dichloroethane-D4	102%		72-123%
2037-26-5	Toluene-D8	102%		82-118%
460-00-4	4-Bromofluorobenzene	99%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW184		
Lab Sample ID:	JB45535-10	**Date Sampled:**	08/20/13
Matrix:	AQ - Ground Water	**Date Received:**	08/22/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O137622.D	1	08/29/13	VC	n/a	n/a	VO6083
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	9.9	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	2.5	25	1.8	ug/l	J
108-20-3	Di-Isopropyl ether	0.81	5.0	0.17	ug/l	J
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	2.3	5.0	0.27	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		79-117%
17060-07-0	1,2-Dichloroethane-D4	104%		72-123%
2037-26-5	Toluene-D8	101%		82-118%
460-00-4	4-Bromofluorobenzene	100%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW185		
Lab Sample ID:	JB45535-11	**Date Sampled:**	08/20/13
Matrix:	AQ - Ground Water	**Date Received:**	08/22/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O137627.D	1	08/29/13	VC	n/a	n/a	VO6083
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.1	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	0.43	5.0	0.17	ug/l	J
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	0.95	5.0	0.27	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		79-117%
17060-07-0	1,2-Dichloroethane-D4	103%		72-123%
2037-26-5	Toluene-D8	102%		82-118%
460-00-4	4-Bromofluorobenzene	99%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW179A		
Lab Sample ID:	JB45535-12	**Date Sampled:**	08/20/13
Matrix:	AQ - Ground Water	**Date Received:**	08/22/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O137629.D	1	08/29/13	VC	n/a	n/a	VO6083
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	0.82	1.0	0.24	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	2.8	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		79-117%
17060-07-0	1,2-Dichloroethane-D4	103%		72-123%
2037-26-5	Toluene-D8	102%		82-118%
460-00-4	4-Bromofluorobenzene	99%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW180A		
Lab Sample ID:	JB45535-13	**Date Sampled:**	08/20/13
Matrix:	AQ - Ground Water	**Date Received:**	08/22/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O137628.D	1	08/29/13	VC	n/a	n/a	VO6083
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.32	1.0	0.16	ug/l	J
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		79-117%
17060-07-0	1,2-Dichloroethane-D4	103%		72-123%
2037-26-5	Toluene-D8	102%		82-118%
460-00-4	4-Bromofluorobenzene	100%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW3501(AP)		
Lab Sample ID:	JB45535-14	**Date Sampled:**	08/20/13
Matrix:	AQ - Ground Water	**Date Received:**	08/22/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S175141.D	1	08/28/13	VC	n/a	n/a	VS7198
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-117%
17060-07-0	1,2-Dichloroethane-D4	99%		72-123%
2037-26-5	Toluene-D8	108%		82-118%
460-00-4	4-Bromofluorobenzene	114%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW3501(BP)		
Lab Sample ID:	JB45535-15	**Date Sampled:**	08/20/13
Matrix:	AQ - Ground Water	**Date Received:**	08/22/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S175142.D	1	08/28/13	VC	n/a	n/a	VS7198
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.94	1.0	0.16	ug/l	J
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-117%
17060-07-0	1,2-Dichloroethane-D4	98%		72-123%
2037-26-5	Toluene-D8	108%		82-118%
460-00-4	4-Bromofluorobenzene	113%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK CC		
Lab Sample ID:	JB45535-16	**Date Sampled:**	08/20/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/22/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S175143.D	1	08/28/13	VC	n/a	n/a	VS7198
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-117%
17060-07-0	1,2-Dichloroethane-D4	99%		72-123%
2037-26-5	Toluene-D8	109%		82-118%
460-00-4	4-Bromofluorobenzene	113%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

GW
WTB

CHAIN OF CUSTODY- ExxonMobil Projects

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Bcd

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Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

2235

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB45535

Client / Reporting Information

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

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	John Hoban
ExxonMobil Purchase Order #	

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant

Company Name	Kleinfelder
Street Address	1 Speen Street, Second Floor
City / State / Zip	Framingham MA 01701
Attention: / PO#	Accounts Payable 51141-243044

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	V8260MDVO	LAB USE ONLY
1	MW108		8/20/2013	1425	CC	GW	3	X								X		2034
2	MW038B		8/20/2013	1120	CC	GW	3	X								X		
3	MW073		8/20/2013	1330	CC	GW	3	X								X		
4	MW037		8/20/2013	1025	CC	GW	3	X								X		
5	MW038		8/20/2013	1033	CC	GW	3	X								X		
6	MW036R		8/20/2013	1042	CC	GW	3	X								X		
7	MW038C		8/20/2013	1055	CC	GW	3	X								X		
8	MW054B		8/20/2013	1345	CC	GW	3	X								X		
9	MW183		8/20/2013	0925	CC	GW	3	X								X		
10	MW184		8/20/2013	0935	CC	GW	3	X								X		
11	MW185		8/20/2013	0944	CC	GW	3	X								X		
12	MW179A		8/20/2013	0905	CC	GW	3	X								X		
13	MW180A		8/20/2013	1000	CC	GW	3	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

1130

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]	8-21-13	[signature]	[signature]	8-22-13 1808	2 [signature]
3		3	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not intact — Preserved where applicable ☐ — On Ice ☑ — Cooler Temp. 3.0°C

2B

4.1

4

JB45535: Chain of Custody
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ACCUTEST Laboratories

CHAIN OF CUSTODY- ExxonMobil Projects

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Route 130, Dayton, NJ 08810
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FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB45535

Client / Reporting Information

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

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	John Hoban
ExxonMobil Purchase Order #	

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant

Company Name	Kleinfelder
Street Address	1 Speen Street, Second Floor
City / State / Zip	Framingham MA 01701
Attention: / PO#	Accounts Payable 51141-243044

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	V8260MDVO	LAB USE ONLY
14	PW3501(AP)		8/20/2013	1205	CC	GW	3	X								X		
15	PW3501(BP)		8/20/2013	1210	CC	GW	3	X								X		
16	Trip Blank CC		8/19/13	0845		TB	2	X								1		

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 Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	8-21-13 1130	1 [signature]	2 [signature]	8-22-13 1808	3 [signature]
3		3	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not intact — Preserved where applicable ☐ — On Ice ☐ — Cooler Temp. 3.0CB

2B

4.1 4

JB45535: Chain of Custody
Page 2 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB45535 **Client:** **Project:**

Date / Time Received: 8/22/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (3/3); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Bar Therm		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

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F: 732.329.3499

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JB45535: Chain of Custody
Page 3 of 3

New Jersey ACCUTEST LABORATORIES

08/27/13



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

Accutest Job Number: JB45582

Sampling Date: 08/23/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **10**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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3.2: JB45582-2: TRIP BLANK CC1 7
Section 4: Misc. Forms **8**
4.1: Chain of Custody 9

Sample Summary

ExxonMobil Corporation

Job No: JB45582

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB45582-1	08/23/13	11:00	CC	08/23/13	AQ	Ground Water	MW027B
JB45582-2	08/23/13	11:00	CC	08/23/13	AQ	Trip Blank Water	TRIP BLANK CC1

Summary of Hits

Job Number: JB45582
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 08/23/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB45582-1	**MW027B**					
Methyl Tert Butyl Ether		29.3	1.0	0.16	ug/l	SW846 8260B
tert-Amyl Methyl Ether		2.1 J	5.0	0.27	ug/l	SW846 8260B
JB45582-2	**TRIP BLANK CC1**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW027B		
Lab Sample ID:	JB45582-1	**Date Sampled:**	08/23/13
Matrix:	AQ - Ground Water	**Date Received:**	08/23/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D39442.D	1	08/27/13	PR	n/a	n/a	V4D1783
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	29.3	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	2.1	5.0	0.27	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		79-117%
17060-07-0	1,2-Dichloroethane-D4	106%		72-123%
2037-26-5	Toluene-D8	101%		82-118%
460-00-4	4-Bromofluorobenzene	99%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK CC1		
Lab Sample ID:	JB45582-2	**Date Sampled:**	08/23/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/23/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D39441.D	1	08/27/13	PR	n/a	n/a	V4D1783
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		79-117%
17060-07-0	1,2-Dichloroethane-D4	103%		72-123%
2037-26-5	Toluene-D8	101%		82-118%
460-00-4	4-Bromofluorobenzene	98%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE ___ OF ___

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2235

FED-EX Tracking #

Bottle Order Control #

Accutest Quote #

Accutest Job # JB45582

Client / Reporting Information

Company Name: Kleinfelder
Street Address: 1340 Charwood Road Ste. 1
City: Hanover, MD State: MD Zip: 21076
Project Contact: Sean Rochford, Stacey Schiding E-mail:
Phone #: 410-850-0404 Fax #:
Sampler(s) Name(s): Chris Cresci 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: John Hoban
ExxonMobil Purchase Order #:

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name: Kleinfelder
Street Address: 1 Speen Street, Second Floor
City: Framingham State: MA Zip: 01701
Attention: PO#: Accounts Payable 51141-243044

Requested Analysis (see TEST CODE sheet)

MTBE, BTEX, ETBE, TAME, DIPE, TBA by 8260B
V8260MDVO

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			LAB USE ONLY
-1	MW027B		8/23/2013	1100	CC	GW	3	X								X		2038
-2	TRIP BLANK ICE		8/23/13	0900		TB	2	X								X		

Number of preserved Bottles

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

- [ ] Std. 10 Business Days
- [ ] 8 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [X] 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			8-23-13 1015	2 8-23-13	1640	2
3			3	4		4
5			5			

Custody Seal # ☐ Intact ☐ Not intact Preserved where applicable ☐ On Ice ☐ Cooler Temp. 4.4

JB45582: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB45582 **Client:** **Project:**

Date / Time Received: 8/23/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (4.4/4.4); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
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Dayton, New Jersey
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JB45582: Chain of Custody
Page 2 of 2

New Jersey ACCUTEST LABORATORIES

08/27/13



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

Accutest Job Number: JB45583

Sampling Date: 08/23/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **11**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Sample Summary

ExxonMobil Corporation

Job No: JB45583

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB45583-1	08/23/13	11:15	CC	08/23/13	AQ	Ground Water	MW036C (AP)

Summary of Hits

Job Number: JB45583
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 08/23/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB45583-1	**MW036C (AP)**					
Benzene		0.41 J	1.0	0.24	ug/l	SW846 8260B
Methyl Tert Butyl Ether		2.9	1.0	0.16	ug/l	SW846 8260B

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW036C (AP)		
Lab Sample ID:	JB45583-1	**Date Sampled:**	08/23/13
Matrix:	AQ - Ground Water	**Date Received:**	08/23/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A122917.D	1	08/26/13	NL	n/a	n/a	V3A5301
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	0.41	1.0	0.24	ug/l	J
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW036C (AP)
Lab Sample ID: JB45583-1 **Date Sampled:** 08/23/13
Matrix: AQ - Ground Water **Date Received:** 08/23/13
Method: SW846 8260B **Percent Solids:** n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.9	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW036C (AP)		
Lab Sample ID:	JB45583-1	**Date Sampled:**	08/23/13
Matrix:	AQ - Ground Water	**Date Received:**	08/23/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	91%		72-123%
2037-26-5	Toluene-D8	95%		82-118%
460-00-4	4-Bromofluorobenzene	95%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE 1 OF 1

ACCUTEST Laboratories

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL 732-329-0200 FAX 732-329-3499/3480
www.accutest.com

FED-EX Tracking # | Bottle Order Control #

Accutest Quote # | Accutest Job # JB45583

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): Chris Cresci 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: John Hoban
ExxonMobil Purchase Order #: N/A

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name: Kleinfelder
Street Address: 1 Speen Street, Second Floor
City: Framingham State: MA Zip: 01701
Attention: Accounts Payable PO#: 51141-243044

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	Preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	8260B - Full List VOCs + Fuel Oxygenates	LAB USE ONLY
-1	MW036C(AP)		8/23/13	1115	CC	GW	3	X								X	2043

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

- [ ] Std. 10 Business Days
- [ ] 8 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [x] 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: 48-Hour Turn-Around Time

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

Relinquished by Sampler: 1	Date Time:	Received By: 1 8-23-13	12:45	Relinquished By: 2 8-23-13	Date Time: 1640	Received By: 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		Custody Seal # ☐ Intact ☐ Not intact	Preserved where applicable ☐	On Ice ☐	Cooler Temp. 4.4

JB45583: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB45583 **Client:** **Project:**

Date / Time Received: 8/23/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (4.4/4.4); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control _Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB45583: Chain of Custody
Page 2 of 2

New Jersey ACCUTEST LABORATORIES

08/30/13



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

Accutest Job Number: JB45831

Sampling Date: 08/26/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **29**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Accutest Laboratories

Sample Summary

ExxonMobil Corporation

Job No: JB45831

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB45831-1	08/26/13	09:30	CC	08/27/13	AQ	Ground Water	MW036C(AP)
JB45831-2	08/26/13	09:35	CC	08/27/13	AQ	Ground Water	MW036C(BP)
JB45831-3	08/26/13	09:45	CC	08/27/13	AQ	Ground Water	MW188D(AP)
JB45831-4	08/26/13	09:50	CC	08/27/13	AQ	Ground Water	MW188D(BP)
JB45831-5	08/26/13	10:15	CC	08/27/13	AQ	Ground Water	MW138D(AP)
JB45831-6	08/26/13	10:20	CC	08/27/13	AQ	Ground Water	MW138D(BP)
JB45831-7	08/26/13	10:20	CC	08/27/13	AQ	Trip Blank Water	TRIP BLANK CC03

Summary of Hits

Job Number: JB45831
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 08/26/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB45831-1	**MW036C(AP)**					
Benzene		0.25 J	1.0	0.24	ug/l	SW846 8260B
Methyl Tert Butyl Ether		2.9	1.0	0.16	ug/l	SW846 8260B
JB45831-2	**MW036C(BP)**					
Benzene		0.51 J	1.0	0.24	ug/l	SW846 8260B
Methyl Tert Butyl Ether		2.4	1.0	0.16	ug/l	SW846 8260B
Toluene		0.26 J	1.0	0.23	ug/l	SW846 8260B
JB45831-3	**MW188D(AP)**					
Methyl Tert Butyl Ether		0.28 J	1.0	0.16	ug/l	SW846 8260B
JB45831-4	**MW188D(BP)**					
Benzene		0.61 J	1.0	0.24	ug/l	SW846 8260B
Methyl Tert Butyl Ether		31.2	1.0	0.16	ug/l	SW846 8260B
Tert Butyl Alcohol		2.3 J	25	1.8	ug/l	SW846 8260B
tert-Amyl Methyl Ether		2.0 J	5.0	0.27	ug/l	SW846 8260B
Toluene		0.26 J	1.0	0.23	ug/l	SW846 8260B
JB45831-5	**MW138D(AP)**					
Methyl Tert Butyl Ether		1.1	1.0	0.16	ug/l	SW846 8260B
JB45831-6	**MW138D(BP)**					
Benzene		2.5	1.0	0.24	ug/l	SW846 8260B
Ethylbenzene		0.54 J	1.0	0.23	ug/l	SW846 8260B
Methyl Tert Butyl Ether		80.2	1.0	0.16	ug/l	SW846 8260B
tert-Amyl Methyl Ether		5.7	5.0	0.27	ug/l	SW846 8260B
Toluene		0.56 J	1.0	0.23	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		0.66 J	2.0	0.19	ug/l	SW846 8260B
m,p-Xylene		1.0	1.0	0.42	ug/l	SW846 8260B
o-Xylene		5.5	1.0	0.24	ug/l	SW846 8260B
Xylene (total)		6.5	1.0	0.24	ug/l	SW846 8260B
JB45831-7	**TRIP BLANK CC03**					

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW036C(AP)		
Lab Sample ID:	JB45831-1	**Date Sampled:**	08/26/13
Matrix:	AQ - Ground Water	**Date Received:**	08/27/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C111124.D	1	08/28/13	DR	n/a	n/a	V2C5105
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	0.25	1.0	0.24	ug/l	J
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW036C(AP)
Lab Sample ID: JB45831-1 **Date Sampled:** 08/26/13
Matrix: AQ - Ground Water **Date Received:** 08/27/13
Method: SW846 8260B **Percent Solids:** n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.9	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW036C(AP)		
Lab Sample ID:	JB45831-1	**Date Sampled:**	08/26/13
Matrix:	AQ - Ground Water	**Date Received:**	08/27/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	110%		72-123%
2037-26-5	Toluene-D8	108%		82-118%
460-00-4	4-Bromofluorobenzene	105%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW036C(BP)		
Lab Sample ID:	JB45831-2	**Date Sampled:**	08/26/13
Matrix:	AQ - Ground Water	**Date Received:**	08/27/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C111130.D	1	08/28/13	DR	n/a	n/a	V2C5105
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	0.51	1.0	0.24	ug/l	J
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW036C(BP)		
Lab Sample ID:	JB45831-2	**Date Sampled:**	08/26/13
Matrix:	AQ - Ground Water	**Date Received:**	08/27/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.4	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	0.26	1.0	0.23	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW036C(BP)		
Lab Sample ID:	JB45831-2	**Date Sampled:**	08/26/13
Matrix:	AQ - Ground Water	**Date Received:**	08/27/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	110%		72-123%
2037-26-5	Toluene-D8	106%		82-118%
460-00-4	4-Bromofluorobenzene	107%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW188D(AP)		
Lab Sample ID:	JB45831-3	**Date Sampled:**	08/26/13
Matrix:	AQ - Ground Water	**Date Received:**	08/27/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C111131.D	1	08/28/13	DR	n/a	n/a	V2C5105
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW188D(AP)		
Lab Sample ID:	JB45831-3	**Date Sampled:**	08/26/13
Matrix:	AQ - Ground Water	**Date Received:**	08/27/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.28	1.0	0.16	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW188D(AP)		
Lab Sample ID:	JB45831-3	**Date Sampled:**	08/26/13
Matrix:	AQ - Ground Water	**Date Received:**	08/27/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	109%		72-123%
2037-26-5	Toluene-D8	107%		82-118%
460-00-4	4-Bromofluorobenzene	105%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW188D(BP)		
Lab Sample ID:	JB45831-4	**Date Sampled:**	08/26/13
Matrix:	AQ - Ground Water	**Date Received:**	08/27/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C111132.D	1	08/28/13	DR	n/a	n/a	V2C5105
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	0.61	1.0	0.24	ug/l	J
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW188D(BP)		
Lab Sample ID:	JB45831-4	**Date Sampled:**	08/26/13
Matrix:	AQ - Ground Water	**Date Received:**	08/27/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	31.2	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	2.3	25	1.8	ug/l	J
994-05-8	tert-Amyl Methyl Ether	2.0	5.0	0.27	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	0.26	1.0	0.23	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW188D(BP)		
Lab Sample ID:	JB45831-4	**Date Sampled:**	08/26/13
Matrix:	AQ - Ground Water	**Date Received:**	08/27/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	109%		72-123%
2037-26-5	Toluene-D8	109%		82-118%
460-00-4	4-Bromofluorobenzene	109%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW138D(AP)		
Lab Sample ID:	JB45831-5	**Date Sampled:**	08/26/13
Matrix:	AQ - Ground Water	**Date Received:**	08/27/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C111118.D	1	08/28/13	DR	n/a	n/a	V2C5105
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW138D(AP)		
Lab Sample ID:	JB45831-5	**Date Sampled:**	08/26/13
Matrix:	AQ - Ground Water	**Date Received:**	08/27/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.1	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW138D(AP)		
Lab Sample ID:	JB45831-5	**Date Sampled:**	08/26/13
Matrix:	AQ - Ground Water	**Date Received:**	08/27/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%		72-123%
2037-26-5	Toluene-D8	108%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW138D(BP)		
Lab Sample ID:	JB45831-6	**Date Sampled:**	08/26/13
Matrix:	AQ - Ground Water	**Date Received:**	08/27/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C111133.D	1	08/28/13	DR	n/a	n/a	V2C5105
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	2.5	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW138D(BP)		
Lab Sample ID:	JB45831-6	**Date Sampled:**	08/26/13
Matrix:	AQ - Ground Water	**Date Received:**	08/27/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	0.54	1.0	0.23	ug/l	J
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	80.2	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	5.7	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	0.56	1.0	0.23	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.66	2.0	0.19	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	1.0	1.0	0.42	ug/l	
95-47-6	o-Xylene	5.5	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	6.5	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW138D(BP)		
Lab Sample ID:	JB45831-6	**Date Sampled:**	08/26/13
Matrix:	AQ - Ground Water	**Date Received:**	08/27/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	108%		72-123%
2037-26-5	Toluene-D8	109%		82-118%
460-00-4	4-Bromofluorobenzene	103%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK CC03		
Lab Sample ID:	JB45831-7	**Date Sampled:**	08/26/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/27/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C111129.D	1	08/28/13	DR	n/a	n/a	V2C5105
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK CC03
Lab Sample ID: JB45831-7 **Date Sampled:** 08/26/13
Matrix: AQ - Trip Blank Water **Date Received:** 08/27/13
Method: SW846 8260B **Percent Solids:** n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK CC03		
Lab Sample ID:	JB45831-7	**Date Sampled:**	08/26/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/27/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	110%		72-123%
2037-26-5	Toluene-D8	107%		82-118%
460-00-4	4-Bromofluorobenzene	105%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE 1 OF 1

ACCUTEST Laboratories

WTB GW

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX. 732-329-3499/3480
www.accutest.com

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: JB45831

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 #: 410-850-0049
Sampler(s) Name(s): Chris Cresci | 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: John Hoban
ExxonMobil Purchase Order #: N/A

ExxonMobil Environmental Services Co.
If Project is Direct Bill to Consultant
Company Name: Kleinfelder
Street Address: 1 Speen Street, Second Floor
City: Framingham State: MA Zip: 01701
Attention: | PO#: Accounts Payable 51141-243044

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	Preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	8260B - Full List VOCs + Fuel Oxygenates	LAB USE ONLY
1	MW036C (AP)		8/26/13	0920	CC	GW	3	x								X	
2	MW036C (AP)		8/26/13	0935	CC	GW	3	x								x	
3	MW188D (AP)		8/26/13	0945	CC	GW	3	x								x	
4	MW188D (EP)		8/26/13	0950	CC	GW	3	x								x	
5	MW138D (AP)		8/26/13	1015	CC	GW	3	x								x	
6	MW 138D(EP)		8/26/13	1020	CC	GW	3	x								x	2072
7	TRIPBLANK CC03		8/15/13	0800	-	TB	2	x								x	

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

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

48-Hour Turn-Around Time

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			8/27/13 1300	2 8/27/13	1815	2
3	Relinquished by Sampler:	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By:	Custody Seal #	Intact / Not intact	Preserved where applicable	On Ice	Cooler Temp. 3.4 L

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB45831 **Client:** **Project:**

Date / Time Received: 8/27/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (3.4/3.4); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control _Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB45831: Chain of Custody
Page 2 of 2

New Jersey ACCUTEST LABORATORIES

09/09/13



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO#51141-243044

Accutest Job Number: JB46558

Sampling Date: 09/03/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **23**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Sample Summary

ExxonMobil Corporation

Job No: JB46558

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#51141-243044

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB46558-1	09/03/13	14:05	CC	09/05/13	AQ	Ground Water	MW135C(AP)
JB46558-2	09/03/13	14:10	CC	09/05/13	AQ	Ground Water	MW135C(BP)
JB46558-3	09/03/13	13:30	CC	09/05/13	AQ	Ground Water	MW171C(AP)
JB46558-4	09/03/13	13:45	CC	09/05/13	AQ	Ground Water	MW171C(BP)
JB46558-5	09/03/13	14:10	CC	09/05/13	AQ	Trip Blank Water	TRIP BLANK CC

Summary of Hits

Job Number: JB46558
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 09/03/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB46558-1	**MW135C(AP)**					
No hits reported in this sample.						
JB46558-2	**MW135C(BP)**					
No hits reported in this sample.						
JB46558-3	**MW171C(AP)**					
Methyl Tert Butyl Ether		8.7	1.0	0.16	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.85 J	5.0	0.27	ug/l	SW846 8260B
JB46558-4	**MW171C(BP)**					
Methyl Tert Butyl Ether		8.9	1.0	0.16	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.88 J	5.0	0.27	ug/l	SW846 8260B
JB46558-5	**TRIP BLANK CC**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW135C(AP)		
Lab Sample ID:	JB46558-1	**Date Sampled:**	09/03/13
Matrix:	AQ - Ground Water	**Date Received:**	09/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A131747.D	1	09/06/13	CC	n/a	n/a	V1A5673
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW135C(AP)
Lab Sample ID: JB46558-1 **Date Sampled:** 09/03/13
Matrix: AQ - Ground Water **Date Received:** 09/05/13
Method: SW846 8260B **Percent Solids:** n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW135C(AP)		
Lab Sample ID:	JB46558-1	**Date Sampled:**	09/03/13
Matrix:	AQ - Ground Water	**Date Received:**	09/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	100%		72-123%
2037-26-5	Toluene-D8	100%		82-118%
460-00-4	4-Bromofluorobenzene	93%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW135C(BP)		
Lab Sample ID:	JB46558-2	**Date Sampled:**	09/03/13
Matrix:	AQ - Ground Water	**Date Received:**	09/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A131748.D	1	09/06/13	CC	n/a	n/a	V1A5673
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW135C(BP)		
Lab Sample ID:	JB46558-2	**Date Sampled:**	09/03/13
Matrix:	AQ - Ground Water	**Date Received:**	09/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW135C(BP)		
Lab Sample ID:	JB46558-2	**Date Sampled:**	09/03/13
Matrix:	AQ - Ground Water	**Date Received:**	09/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%		72-123%
2037-26-5	Toluene-D8	101%		82-118%
460-00-4	4-Bromofluorobenzene	93%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW171C(AP)		
Lab Sample ID:	JB46558-3	**Date Sampled:**	09/03/13
Matrix:	AQ - Ground Water	**Date Received:**	09/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A131749.D	1	09/06/13	CC	n/a	n/a	V1A5673
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW171C(AP)		
Lab Sample ID:	JB46558-3	**Date Sampled:**	09/03/13
Matrix:	AQ - Ground Water	**Date Received:**	09/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	8.7	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	0.85	5.0	0.27	ug/l	J
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW171C(AP)		
Lab Sample ID:	JB46558-3	**Date Sampled:**	09/03/13
Matrix:	AQ - Ground Water	**Date Received:**	09/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%		72-123%
2037-26-5	Toluene-D8	101%		82-118%
460-00-4	4-Bromofluorobenzene	94%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW171C(BP)		
Lab Sample ID:	JB46558-4	**Date Sampled:**	09/03/13
Matrix:	AQ - Ground Water	**Date Received:**	09/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A131750.D	1	09/06/13	CC	n/a	n/a	V1A5673
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW171C(BP)		
Lab Sample ID:	JB46558-4	**Date Sampled:**	09/03/13
Matrix:	AQ - Ground Water	**Date Received:**	09/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	8.9	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	0.88	5.0	0.27	ug/l	J
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW171C(BP)		
Lab Sample ID:	JB46558-4	**Date Sampled:**	09/03/13
Matrix:	AQ - Ground Water	**Date Received:**	09/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	102%		72-123%
2037-26-5	Toluene-D8	101%		82-118%
460-00-4	4-Bromofluorobenzene	92%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK CC		
Lab Sample ID:	JB46558-5	**Date Sampled:**	09/03/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A131746.D	1	09/06/13	CC	n/a	n/a	V1A5673
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK CC		
Lab Sample ID:	JB46558-5	**Date Sampled:**	09/03/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK CC		
Lab Sample ID:	JB46558-5	**Date Sampled:**	09/03/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	98%		72-123%
2037-26-5	Toluene-D8	101%		82-118%
460-00-4	4-Bromofluorobenzene	95%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE 1 OF 1

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #
Bottle Order Control #
Accutest Quote #
Accutest Job # JB46558

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 / 410-850-0049
Sampler(s) Name(s) / Phone #	Chris Cresci

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	John Hoban
ExxonMobil Purchase Order #	N/A

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant

Company Name	Kleinfelder
Street Address	1 Speen Street, Second Floor
City / State / Zip	Framingham MA 01701
Attention: / PO#	Accounts Payable 51141-243044

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	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	8260B - Full List VOCs + Fuel Oxygenates	LAB USE ONLY
1	MW135C(AP)		9/3/13	1405	CC	GW	3	X								X	
2	MW135C(BP)			1410	CC	GW	3	X								X	
3	MW171C(AP)			1330	CC	GW	3	X								X	
4	MW171C(BP)			1345	CC	GW	3	X								X	
5	Trip Blank CC		8/9/13	0545		JB	2	X								X	

2271

Turnaround Time (Business days)

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

48-Hour Turn-Around Time

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]	9-5-13 1410	1 [signature]	2 [signature]	9-5-13 1815	3 [signature]
3		3	4		4
5		5	Custody Seal # 487 ☑ Intact ☐ Not intact	Preserved where applicable ☐	On Ice ☑ Cooler Temp. D.L. 3.1 ACB

2A

JB46558: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB46558 **Client:** **Project:**

Date / Time Received: 9/5/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (3/3); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control _Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB46558: Chain of Custody
Page 2 of 2

New Jersey ACCUTEST LABORATORIES

09/13/13



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO#51141-243044

Accutest Job Number: JB46923

Sampling Dates: 09/09/13 - 09/10/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **38**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Sample Summary

ExxonMobil Corporation

Job No: JB46923

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#51141-243044

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB46923-1	09/10/13	10:00	CB	09/10/13	AQ	Ground Water	MW168(87)
JB46923-2	09/10/13	10:02	CB	09/10/13	AQ	Ground Water	MW168(115)
JB46923-3	09/10/13	10:04	CB	09/10/13	AQ	Ground Water	MW168(148)
JB46923-4	09/10/13	10:06	CB	09/10/13	AQ	Ground Water	MW168(235)
JB46923-5	09/10/13	10:06	CB	09/10/13	AQ	Trip Blank Water	TRIP BLANK CB1
JB46923-6	09/09/13	12:00	CB	09/10/13	AQ	Ground Water	MW054
JB46923-7	09/09/13	11:40	CB	09/10/13	AQ	Ground Water	MW091C
JB46923-8	09/09/13	11:50	CB	09/10/13	AQ	Ground Water	MW176
JB46923-9	09/09/13	11:30	CB	09/10/13	AQ	Ground Water	MW178C
JB46923-10	09/09/13	13:45	CB	09/10/13	AQ	Ground Water	MW027B

Summary of Hits

Job Number: JB46923
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 09/09/13 thru 09/10/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB46923-1	**MW168(87)**					
No hits reported in this sample.						
JB46923-2	**MW168(115)**					
Methyl Tert Butyl Ether		0.56 J	1.0	0.16	ug/l	SW846 8260B
JB46923-3	**MW168(148)**					
Methyl Tert Butyl Ether		2.5	1.0	0.16	ug/l	SW846 8260B
JB46923-4	**MW168(235)**					
Methyl Tert Butyl Ether		6.1	1.0	0.16	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.48 J	5.0	0.27	ug/l	SW846 8260B
JB46923-5	**TRIP BLANK CB1**					
No hits reported in this sample.						
JB46923-6	**MW054**					
Di-Isopropyl ether		0.44 J	5.0	0.17	ug/l	SW846 8260B
Methyl Tert Butyl Ether		39.2	1.0	0.16	ug/l	SW846 8260B
tert-Amyl Methyl Ether		2.8 J	5.0	0.27	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		1.1 J	5.0	0.27	ug/l	SW846 8260B
JB46923-7	**MW091C**					
Di-Isopropyl ether		0.90 J	5.0	0.17	ug/l	SW846 8260B
Methyl Tert Butyl Ether		2.5	1.0	0.16	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		1.3 J	5.0	0.27	ug/l	SW846 8260B
JB46923-8	**MW176**					
Di-Isopropyl ether		0.44 J	5.0	0.17	ug/l	SW846 8260B
Methyl Tert Butyl Ether		1.8	1.0	0.16	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		1.2 J	5.0	0.27	ug/l	SW846 8260B
JB46923-9	**MW178C**					
Benzene		104	5.0	1.2	ug/l	SW846 8260B
Di-Isopropyl ether		21.2 J	25	0.85	ug/l	SW846 8260B
Ethylbenzene		17.3	5.0	1.1	ug/l	SW846 8260B

Summary of Hits

Job Number: JB46923
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 09/09/13 thru 09/10/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Methyl Tert Butyl Ether		4260	50	8.2	ug/l	SW846 8260B
Tert Butyl Alcohol		766	130	9.2	ug/l	SW846 8260B
tert-Amyl Methyl Ether		302	25	1.3	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		81.4	25	1.4	ug/l	SW846 8260B
Toluene		125	5.0	1.1	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		5.0 J	10	0.93	ug/l	SW846 8260B
m,p-Xylene		32.7	5.0	2.1	ug/l	SW846 8260B
o-Xylene		7.7	5.0	1.2	ug/l	SW846 8260B
Xylene (total)		40.4	5.0	1.2	ug/l	SW846 8260B
JB46923-10	**MW027B**					
Methyl Tert Butyl Ether		16.7	1.0	0.16	ug/l	SW846 8260B

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW168(87)		
Lab Sample ID:	JB46923-1	**Date Sampled:**	09/10/13
Matrix:	AQ - Ground Water	**Date Received:**	09/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D125256.D	1	09/12/13	ET	n/a	n/a	V2D5221
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW168(87)
Lab Sample ID: JB46923-1 **Date Sampled:** 09/10/13
Matrix: AQ - Ground Water **Date Received:** 09/10/13
Method: SW846 8260B **Percent Solids:** n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW168(87)		
Lab Sample ID:	JB46923-1	**Date Sampled:**	09/10/13
Matrix:	AQ - Ground Water	**Date Received:**	09/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	93%		72-123%
2037-26-5	Toluene-D8	98%		82-118%
460-00-4	4-Bromofluorobenzene	94%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW168(115)		
Lab Sample ID:	JB46923-2	**Date Sampled:**	09/10/13
Matrix:	AQ - Ground Water	**Date Received:**	09/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D125257.D	1	09/12/13	ET	n/a	n/a	V2D5221
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW168(115)
Lab Sample ID: JB46923-2 **Date Sampled:** 09/10/13
Matrix: AQ - Ground Water **Date Received:** 09/10/13
Method: SW846 8260B **Percent Solids:** n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.56	1.0	0.16	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW168(115)		
Lab Sample ID:	JB46923-2	**Date Sampled:**	09/10/13
Matrix:	AQ - Ground Water	**Date Received:**	09/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	94%		72-123%
2037-26-5	Toluene-D8	96%		82-118%
460-00-4	4-Bromofluorobenzene	95%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW168(148)		
Lab Sample ID:	JB46923-3	**Date Sampled:**	09/10/13
Matrix:	AQ - Ground Water	**Date Received:**	09/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D125258.D	1	09/12/13	ET	n/a	n/a	V2D5221
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW168(148)
Lab Sample ID: JB46923-3 **Date Sampled:** 09/10/13
Matrix: AQ - Ground Water **Date Received:** 09/10/13
Method: SW846 8260B **Percent Solids:** n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.5	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW168(148)		
Lab Sample ID:	JB46923-3	**Date Sampled:**	09/10/13
Matrix:	AQ - Ground Water	**Date Received:**	09/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	95%		72-123%
2037-26-5	Toluene-D8	96%		82-118%
460-00-4	4-Bromofluorobenzene	95%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW168(235)		
Lab Sample ID:	JB46923-4	**Date Sampled:**	09/10/13
Matrix:	AQ - Ground Water	**Date Received:**	09/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D125259.D	1	09/12/13	ET	n/a	n/a	V2D5221
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW168(235)		
Lab Sample ID:	JB46923-4	**Date Sampled:**	09/10/13
Matrix:	AQ - Ground Water	**Date Received:**	09/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	6.1	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	0.48	5.0	0.27	ug/l	J
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW168(235)		
Lab Sample ID:	JB46923-4	**Date Sampled:**	09/10/13
Matrix:	AQ - Ground Water	**Date Received:**	09/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	95%		72-123%
2037-26-5	Toluene-D8	97%		82-118%
460-00-4	4-Bromofluorobenzene	96%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK CB1		
Lab Sample ID:	JB46923-5	**Date Sampled:**	09/10/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D125255.D	1	09/12/13	ET	n/a	n/a	V2D5221
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK CB1		
Lab Sample ID:	JB46923-5	**Date Sampled:**	09/10/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK CB1		
Lab Sample ID:	JB46923-5	**Date Sampled:**	09/10/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	95%		72-123%
2037-26-5	Toluene-D8	96%		82-118%
460-00-4	4-Bromofluorobenzene	95%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW054		
Lab Sample ID:	JB46923-6	**Date Sampled:**	09/09/13
Matrix:	AQ - Ground Water	**Date Received:**	09/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D125260.D	1	09/12/13	ET	n/a	n/a	V2D5221
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	0.44	5.0	0.17	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW054		
Lab Sample ID:	JB46923-6	**Date Sampled:**	09/09/13
Matrix:	AQ - Ground Water	**Date Received:**	09/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	39.2	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	2.8	5.0	0.27	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	1.1	5.0	0.27	ug/l	J
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW054		
Lab Sample ID:	JB46923-6	**Date Sampled:**	09/09/13
Matrix:	AQ - Ground Water	**Date Received:**	09/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	95%		72-123%
2037-26-5	Toluene-D8	99%		82-118%
460-00-4	4-Bromofluorobenzene	99%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW091C		
Lab Sample ID:	JB46923-7	**Date Sampled:**	09/09/13
Matrix:	AQ - Ground Water	**Date Received:**	09/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D125261.D	1	09/12/13	ET	n/a	n/a	V2D5221
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	0.90	5.0	0.17	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW091C		
Lab Sample ID:	JB46923-7	**Date Sampled:**	09/09/13
Matrix:	AQ - Ground Water	**Date Received:**	09/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.5	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	1.3	5.0	0.27	ug/l	J
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW091C		
Lab Sample ID:	JB46923-7	**Date Sampled:**	09/09/13
Matrix:	AQ - Ground Water	**Date Received:**	09/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	96%		72-123%
2037-26-5	Toluene-D8	98%		82-118%
460-00-4	4-Bromofluorobenzene	97%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW176		
Lab Sample ID:	JB46923-8	**Date Sampled:**	09/09/13
Matrix:	AQ - Ground Water	**Date Received:**	09/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D125262.D	1	09/12/13	ET	n/a	n/a	V2D5221
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.14	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.17	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.15	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.30	ug/l	
108-20-3	Di-Isopropyl ether	0.44	5.0	0.17	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW176		
Lab Sample ID:	JB46923-8	**Date Sampled:**	09/09/13
Matrix:	AQ - Ground Water	**Date Received:**	09/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.15	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.30	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.24	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.8	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.26	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	1.2	5.0	0.27	ug/l	J
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.36	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW176		
Lab Sample ID:	JB46923-8	**Date Sampled:**	09/09/13
Matrix:	AQ - Ground Water	**Date Received:**	09/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	96%		72-123%
2037-26-5	Toluene-D8	99%		82-118%
460-00-4	4-Bromofluorobenzene	96%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW178C		
Lab Sample ID:	JB46923-9	**Date Sampled:**	09/09/13
Matrix:	AQ - Ground Water	**Date Received:**	09/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D125251.D	5	09/12/13	ET	n/a	n/a	V2D5221
Run #2	U175678.D	50	09/12/13	NT	n/a	n/a	VU8122

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	16	ug/l	
71-43-2	Benzene	104	5.0	1.2	ug/l	
108-86-1	Bromobenzene	ND	25	0.69	ug/l	
74-97-5	Bromochloromethane	ND	25	1.5	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	1.0	ug/l	
75-25-2	Bromoform	ND	20	1.1	ug/l	
74-83-9	Bromomethane	ND	10	1.1	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	12	ug/l	
104-51-8	n-Butylbenzene	ND	25	0.86	ug/l	
135-98-8	sec-Butylbenzene	ND	25	1.1	ug/l	
98-06-6	tert-Butylbenzene	ND	25	1.5	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	1.1	ug/l	
108-90-7	Chlorobenzene	ND	5.0	1.1	ug/l	
75-00-3	Chloroethane	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	5.0	1.0	ug/l	
74-87-3	Chloromethane	ND	5.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	25	0.75	ug/l	
106-43-4	p-Chlorotoluene	ND	25	1.5	ug/l	
108-20-3	Di-Isopropyl ether	21.2	25	0.85	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	2.7	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	0.68	ug/l	
106-93-4	1,2-Dibromoethane	ND	10	0.98	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.1	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.1	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.5	ug/l	
75-71-8	Dichlorodifluoromethane	ND	25	1.3	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	0.53	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.3	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	0.96	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	0.94	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	1.1	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	2.4	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW178C		
Lab Sample ID:	JB46923-9	**Date Sampled:**	09/09/13
Matrix:	AQ - Ground Water	**Date Received:**	09/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	25	1.1	ug/l	
594-20-7	2,2-Dichloropropane	ND	25	0.74	ug/l	
563-58-6	1,1-Dichloropropene	ND	25	1.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.95	ug/l	
100-41-4	Ethylbenzene	17.3	5.0	1.1	ug/l	
87-68-3	Hexachlorobutadiene	ND	25	1.2	ug/l	
98-82-8	Isopropylbenzene	ND	10	2.2	ug/l	
99-87-6	p-Isopropyltoluene	ND	25	1.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4260 [a]	50	8.2	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	25	4.1	ug/l	
74-95-3	Methylene bromide	ND	25	1.3	ug/l	
75-09-2	Methylene chloride	ND	10	3.5	ug/l	
91-20-3	Naphthalene	ND	25	5.5	ug/l	
103-65-1	n-Propylbenzene	ND	25	1.2	ug/l	
100-42-5	Styrene	ND	25	1.1	ug/l	
75-65-0	Tert Butyl Alcohol	766	130	9.2	ug/l	
994-05-8	tert-Amyl Methyl Ether	302	25	1.3	ug/l	
637-92-3	tert-Butyl Ethyl Ether	81.4	25	1.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	25	1.2	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.1	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	1.4	ug/l	
108-88-3	Toluene	125	5.0	1.1	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	25	1.4	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	25	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.2	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.4	ug/l	
79-01-6	Trichloroethene	ND	5.0	1.1	ug/l	
75-69-4	Trichlorofluoromethane	ND	25	1.3	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	25	2.7	ug/l	
95-63-6	1,2,4-Trimethylbenzene	5.0	10	0.93	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	10	1.8	ug/l	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/l	
	m,p-Xylene	32.7	5.0	2.1	ug/l	
95-47-6	o-Xylene	7.7	5.0	1.2	ug/l	
1330-20-7	Xylene (total)	40.4	5.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%	92%	79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW178C		
Lab Sample ID:	JB46923-9	**Date Sampled:**	09/09/13
Matrix:	AQ - Ground Water	**Date Received:**	09/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	94%	90%	72-123%
2037-26-5	Toluene-D8	95%	96%	82-118%
460-00-4	4-Bromofluorobenzene	92%	102%	75-118%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW027B		
Lab Sample ID:	JB46923-10	**Date Sampled:**	09/09/13
Matrix:	AQ - Ground Water	**Date Received:**	09/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D90788.D	1	09/12/13	KC	n/a	n/a	V3D3910
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	16.7	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		79-117%
17060-07-0	1,2-Dichloroethane-D4	91%		72-123%
2037-26-5	Toluene-D8	97%		82-118%
460-00-4	4-Bromofluorobenzene	91%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY- ExxonMobil Projects

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WTB
GW

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB46923

Client / Reporting Information

Company Name: Kleinfelder
Street Address: 1340 Charwood Road Ste. 1
City: Hanover, State: MD, Zip: 21076
Project Contact: Sean Rochford, Stacey Schiding, E-mail:
Phone #: 410-850-0404, Fax #: 860-508-4663
Sampler(s) Name(s): Charlie Brehm, Phone #: 484-883-9881

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

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

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name: Kleinfelder
Street Address: 1 Speen Street, Second Floor
City: Framingham, State: MA, Zip: 01701
Attention: Accounts Payable, PO#: 51141-243044

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	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	MTBE, BTEX, ETBE, TAME, DIPE, TBA by 8260B	V8260MDVO	LAB USE ONLY
1	MW168(87)		9/10/13	1000	CB	GW	3	X									X	
2	MW168(115)		9/10/13	1002	CB	GW	3	X									X	
3	MW168(148)		9/10/13	1004	CB	GW	3	X									X	
~~4~~	~~MW168(148) DUP CB~~		~~9/10/13~~	~~1004~~	~~CB~~	~~GW~~	~~3~~	~~X~~									~~X~~	902
4	MW168(235)		9/10/13	1006	CB	GW	3	X									X	
5	TRIP BLANK CB1		9/4/13	1000		TB	2	X									X	

Turnaround Time (Business days)

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

48 HOUR TAT

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 [signature] 9/10/13 1225	2 [signature] 9/10/13	1715	2 Michael [signature]
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	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐ On Ice ☑ Cooler Temp. 3.0C

Cooler (R)

4.1 4

JB46923: Chain of Custody
Page 1 of 3

ACCUTEST Laboratories

CHAIN OF CUSTODY- ExxonMobil Projects

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2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB 46923

Client / Reporting Information

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

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	John Hoban
ExxonMobil Purchase Order #	

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant

Company Name	Kleinfelder
Street Address	1 Speen Street, Second Floor
City / State / Zip	Framington MA 01701
Attention: / PO#	Accounts Payable 51141-243044

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	HCl	NaOH	HNO3	H2SO4	NONE	DI Wat	MEOH	ENCO	MTBE, BTEX, ETBE, TAME, DIPE, TBA by 8260B	V8260MDVO	LAB USE ONLY
6	MW054		9/9/13	1200	CC	GW	3	X									X	
7	MW091C		9/9/13	1140	CC	GW	3	X									X	
8	MW176		9/9/13	1150	CC	GW	3	X									X	
9	MW178C		9/9/13	1130	CC	GW	3	X									X	
10	MW027B		9-9-13	1345	BW	GW	3	X								X		

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] 8 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [x] 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 [signature]		1 [signature] 9/10/13 1225	2 [signature] 9/10/13 1715		2 Mikhail Beath
3		3	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not intact — Preserved where applicable ☐ — On Ice ☐ — Cooler Temp. 3.0

JB46923: Chain of Custody
Page 2 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB46923 **Client:** **Project:**

Date / Time Received: 9/10/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (3/3); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control _Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB46923: Chain of Custody
Page 3 of 3

Report of Analysis

Client Sample ID:	PW3501(BP)		
Lab Sample ID:	JB47293-29	**Date Sampled:**	09/11/13
Matrix:	AQ - Ground Water	**Date Received:**	09/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C111685.D	1	09/19/13	DR	n/a	n/a	V2C5137
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.2	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		79-117%
17060-07-0	1,2-Dichloroethane-D4	109%		72-123%
2037-26-5	Toluene-D8	108%		82-118%
460-00-4	4-Bromofluorobenzene	110%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW3501(AP)		
Lab Sample ID:	JB47293-30	**Date Sampled:**	09/11/13
Matrix:	AQ - Ground Water	**Date Received:**	09/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C111686.D	1	09/19/13	DR	n/a	n/a	V2C5137
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-117%
17060-07-0	1,2-Dichloroethane-D4	108%		72-123%
2037-26-5	Toluene-D8	111%		82-118%
460-00-4	4-Bromofluorobenzene	112%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

GW

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE ___ OF ___

ACCUTEST Laboratories

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2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB47293

Client / Reporting Information | **SITE NAME - Provide Site Name for Retail or AFE Number for Major Projects** | **Requested Analysis (see TEST CODE sheet)** | **Matrix Codes**

Company Name: Kleinfelder	Retail Project (Site Name): Exxon - Phoenix	ExxonMobil Environmental Services Co.
Street Address: 1340 Charwood Road Ste. 1	Major Project (AFE): 28077	If Project is Direct Bill to Consultant
City / State / Zip: Hanover, MD 21076	Project Name: 14258 Jarrettsville Pike	Company Name: Kleinfelder
Project Contact / E-mail: Sean Rochford, Stacey Schiding	City / State: Phoenix MD	Street Address: 1 Speen Street, Second Floor
Phone #: 410-850-0404 / Fax #:	ExxonMobil Manager: John Hoban	City / State / Zip: Framingham MA 01701
Sampler(s) Name(s): Chris Cresci / Phone #:	ExxonMobil Purchase Order #:	Attention: Accounts Payable / PO#: 51141-243044

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	V8260MDVO	LAB USE ONLY
-1	MW166A		9/11/13	1250	CC	GW	3	X									X	971
-2	MW166B		9/11/13	1225	CC	GW	3	X									X	972
-3	MW142		9/11/13	1130	CC	GW	3	X									X	
-4	MW143		9/11/13	1215	CC	GW	3	X									X	
-5	MW084P		9/11/13	0840	CC	GW	3	X									X	
-6	MW045P		9/11/13	0905	CC	GW	3	X									X	
-7	MW037P		9/10/13	1500	CC	GW	3	X									X	
-8	MW036		9/10/13	1600	CC	GW	3	X									X	
-9	MW038P		9/10/13	1520	CC	GW	3	X									X	
-10	MW057P		9/10/13	1400	CC	GW	3	X									X	
-11	MW058P		9/10/13	1415	CC	GW	3	X									X	
-12	MW059A		9/10/13	1430	CC	GW	3	X									X	
-13	MW138		9/11/13	1100	CC	GW	3	X									X	
-14	TRIP Blank CC2		8/28/13	0900	~~[illegible]~~	TB	2	✓									✓	

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 Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	9-12-13 1410	1 [signature]	2 [signature]	9-12-13 1810	2 Michael Beaton
3		3	4		4
5		5			

Relinquished by: | Date Time: | Received By: | Custody Seal # | ☐ Intact ☐ Not intact | Preserved where applicable ☐ | On Ice ☑ | Cooler Temp. 2.0 C B

2A

JB47293: Chain of Custody
Page 1 of 6

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE ___ OF ___ Cc

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Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB47293

Client / Reporting Information

Company Name: Kleinfelder
Street Address: 1340 Charwood Road Ste. 1
City / State / Zip: Hanover, MD 21076
Project Contact / E-mail: Sean Rochford, 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: John Hoban
ExxonMobil Purchase Order #:

ExxonMobil Environmental Services Co.
If Project is Direct Bill to Consultant
Company Name: Kleinfelder
Street Address: 1 Speen Street, Second Floor
City / State / Zip: Framingham MA 01701
Attention: Accounts Payable
PO#: 51141-243044

Requested Analysis (see TEST CODE sheet)

MTBE, BTEX, ETBE, TAME, DIPE, TBA by 8260B

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	V8260MDVO	LAB USE ONLY
-	MW005		9/9/13	1500	CB	GW	3	X									X	971
-15	MW004A		9/10/13	1455	CB	GW	3	X									X	972
-16	MW008		9/10/13	1530	CB	GW	3	X									X	
-	SVE002		9/9/13	1505	CB	GW	3	X									X	
-17	MW012		9/10/13	1400	CB	GW	3	X									X	
-18	MW001		9/9/13	1545	CB	GW	3	X									X	
-	MW002		9/9/13	1335	CB	GW	3	X									X	
-19	MW014		9/11/13	0855	CB	GW	3	X									X	
-20	MW105		9/10/13	1625	CB	GW	3	X									X	
-	MW003P		9/9/13	1155	CB	GW	3	X									X	
-21	MW020		9/11/13	0940	CB	GW	3	X									X	
-22	MW015		9/11/13	1005	CB	GW	3	X									X	
-23	MW150A		9/11/13	1030	CB	GW	3	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 _____

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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]	9-12-13 1400	1 [signature]	2 [signature]	9-12-13 1810	Nikhil Benot
3		3	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not intact — Preserved where applicable ☐ — On Ice ☑ — Cooler Temp. 2.0 °C

4.1 4

JB47293: Chain of Custody
Page 2 of 6

ACCUTEST Laboratories

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE ___ OF ___ CC

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www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB47293

Client / Reporting Information

Company Name: Kleinfelder
Street Address: 1340 Charwood Road Ste. 1
City / State / Zip: Hanover, MD 21076
Project Contact / E-mail: Sean Rochford, 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: John Hoban
ExxonMobil Purchase Order #:

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name: Kleinfelder
Street Address: 1 Speen Street, Second Floor
City / State / Zip: Framingham MA 01701
Attention: Accounts Payable
PO#: 51141-243044

Requested Analysis (see TEST CODE sheet)

MTBE, BTEX, ETBE, TAME, DIPE, TBA by 8260B

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	V8260MDVO	LAB USE ONLY
-24	MW105B		9/11/13	1035	CB	GW	3	X									X	971
-25	MW078A		9/11/13	1215	CB	GW	3	X									X	972
-26	MW133A		9/11/13	1100	CB	GW	3	X									X	
-27	MW133B		9/11/13	1110	CB	GW	3	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 Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	9-12-13 1410	1 [signature]	2 [signature]	9-12-13 1810	[signature]
3		3	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not intact — Preserved where applicable ☐ — On Ice ☑ — Cooler Temp 2.0CB

JB47293: Chain of Custody
Page 3 of 6

CHAIN OF CUSTODY- ExxonMobil Projects

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GW

FED-EX Tracking #: | Bottle Order Control #:

Accutest Quote #: | Accutest Job #: JB47293

Client / Reporting Information

Company Name: Kleinfelder
Street Address: 1340 Charwood Road Ste. 1
City: Hanover, MD State: Zip: 21076
Project Contact: Sean Rochford, Stacey Schiding E-mail:
Phone #: 410-850-0404 Fax #:
Sampler(s) Name(s): Chris Cresci 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: John Hoban
ExxonMobil Purchase Order #:

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name: Kleinfelder
Street Address: 1 Speen Street, Second Floor
City: Framingham State: MA Zip: 01701
Attention: PO#: Accounts Payable 51141-243044

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	V8260MDVO	LAB USE ONLY
-28	MW073		9/11/13	0950	CC	GW	3	X								X		971
-29	PW3501(BP)		9/11/13	1035	CC	GW	3	X								X		972
-30	PW3501(AP)		9/11/13	1030	CC	GW	3	X								X		
-31	MW037		9/11/13	1000	CC	GW	3	X								X		
-32	MW038		9/11/13	1010	CC	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		9/12/13 1410	1	2	9-12-13 1810	2
3			3	4		4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	[ ] Intact [ ] Not intact	Preserved where applicable [ ] On Ice [ ] Cooler Temp. 2.0C

JB47293: Chain of Custody
Page 4 of 6

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB47293 **Client:** KLEINFELDER **Project:** XOM PHOENIX

Date / Time Received: 9/12/2013 18:10 **Delivery Method:** Accutest Courier **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (2/2); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No, Coolers	1		

Quality Control _Preservation	Y	N	N/A
1. Trip Blank present / cooler:	☑	☐	☐
2. Trip Blank listed on COC:	☑	☐	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☐		☑
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☐	☑	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments 1. Did not receive samples "MW005","SVE002", "MW002", or "MW003P".

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JB47293: Chain of Custody
Page 5 of 6

Sample Receipt Summary - Problem Resolution

Accutest Job Number: JB47293

CSR: VP **Response Date:** 9/17/2013

Response: Per Sean Rochford,
Samples for these four locations (MW005, SVE002, MW002, and MW003P) were submitted to the lab on 9/10/13 with lab report JB46943. They should not have been included on the COC for lab report JB47293.

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JB47293: Chain of Custody
Page 6 of 6

New Jersey ACCUTEST LABORATORIES

10/10/13



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO # 51141-243044

Accutest Job Number: JB49230

Sampling Date: 10/02/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **10**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Section 4: Misc. Forms **8**
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Sample Summary

ExxonMobil Corporation

Job No: JB49230

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO # 51141-243044

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB49230-1	10/02/13	09:00	CB	10/03/13	AQ	Ground Water	MW027B
JB49230-2	10/02/13	09:00	CB	10/03/13	AQ	Trip Blank Water	TRIP BLANK CB2

Summary of Hits

Job Number: JB49230
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 10/02/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB49230-1	**MW027B**					
Methyl Tert Butyl Ether		43.3	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		2.4 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.63 J	5.0	0.25	ug/l	SW846 8260B
JB49230-2	**TRIP BLANK CB2**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW027B		
Lab Sample ID:	JB49230-1	**Date Sampled:**	10/02/13
Matrix:	AQ - Ground Water	**Date Received:**	10/03/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A132795.D	1	10/04/13	CC	n/a	n/a	V1A5720
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	43.3	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	2.4	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.63	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-117%
17060-07-0	1,2-Dichloroethane-D4	105%		72-123%
2037-26-5	Toluene-D8	96%		82-118%
460-00-4	4-Bromofluorobenzene	90%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK CB2		
Lab Sample ID:	JB49230-2	**Date Sampled:**	10/02/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/03/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A132794.D	1	10/04/13	CC	n/a	n/a	V1A5720
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-117%
17060-07-0	1,2-Dichloroethane-D4	101%		72-123%
2037-26-5	Toluene-D8	95%		82-118%
460-00-4	4-Bromofluorobenzene	92%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

GW
WTB

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE ___ OF ___ CC

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FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB49230

Client / Reporting Information

Company Name	Kleinfelder
Street Address	1340 Charwood Road Ste. 1
City / State / Zip	Hanover, MD 21076
Project Contact / E-mail	Sean Rochford, 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	John Hoban
ExxonMobil Purchase Order #	

ExxonMobil Environmental Services Co.

If Project Is Direct Bill to Consultant

Company Name	Kleinfelder
Street Address	1 Speen Street, Second Floor
City / State / Zip	Framingham MA 01701
Attention: / PO#	Accounts Payable 51141-243044

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	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	MTBE, BTEX, ETBE, TAME, DIPE, TBA by 8260B	V8260MDVO	LAB USE ONLY
1	MW027B		10/2/13	0900	CB	GW	3	X								X		469
2	Trip Blank CB2		9/25/13	0800		TB	2	X								X		

Tumaround Time (Business days)

- ☐ 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

- ☒ 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 Charlie Brehm	10-3-13	1 [signature]	2 [signature]	10-3-13 1755	2 [signature]
3		3	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not intact — Preserved where applicable ☐ — On Ice ☐ — Cooler Temp. 2.9 CB

2 A

4.1 4

JB49230: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB49230 **Client:** **Project:**

Date / Time Received: 10/3/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (2/2); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Bar Therm		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

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JB49230: Chain of Custody
Page 2 of 2

New Jersey ACCUTEST LABORATORIES

10/15/13



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO # 51141-243044

Accutest Job Number: JB49563

Sampling Date: 10/07/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **14**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Sample Summary

ExxonMobil Corporation

Job No: JB49563

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO # 51141-243044

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB49563-1	10/07/13	11:00	JCM	10/08/13	AQ	Ground Water	MW048D(BP)
JB49563-2	10/07/13	11:00	JCM	10/08/13	AQ	Trip Blank Water	TRIP BLANK JCM 1

Summary of Hits

Job Number: JB49563
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 10/07/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JB49563-1 **MW048D(BP)**

No hits reported in this sample.

JB49563-2 **TRIP BLANK JCM 1**

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW048D(BP)		
Lab Sample ID:	JB49563-1	**Date Sampled:**	10/07/13
Matrix:	AQ - Ground Water	**Date Received:**	10/08/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B112488.D	1	10/12/13	KC	n/a	n/a	V2B5119
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.39	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.48	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.17	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW048D(BP)		
Lab Sample ID:	JB49563-1	**Date Sampled:**	10/07/13
Matrix:	AQ - Ground Water	**Date Received:**	10/08/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.21	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.17	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.42	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.42	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.33	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
91-20-3	Naphthalene	ND	5.0	0.25	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.32	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.67	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.23	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.19	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW048D(BP)		
Lab Sample ID:	JB49563-1	**Date Sampled:**	10/07/13
Matrix:	AQ - Ground Water	**Date Received:**	10/08/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	115%		72-123%
2037-26-5	Toluene-D8	106%		82-118%
460-00-4	4-Bromofluorobenzene	107%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM 1		
Lab Sample ID:	JB49563-2	**Date Sampled:**	10/07/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/08/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B112487.D	1	10/12/13	KC	n/a	n/a	V2B5119
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.39	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.48	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.17	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK JCM 1
Lab Sample ID: JB49563-2 **Date Sampled:** 10/07/13
Matrix: AQ - Trip Blank Water **Date Received:** 10/08/13
Method: SW846 8260B **Percent Solids:** n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.21	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.17	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.42	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.42	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.33	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
91-20-3	Naphthalene	ND	5.0	0.25	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.32	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.67	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.23	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.19	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM 1		
Lab Sample ID:	JB49563-2	**Date Sampled:**	10/07/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/08/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	116%		72-123%
2037-26-5	Toluene-D8	108%		82-118%
460-00-4	4-Bromofluorobenzene	107%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE 1 OF 1

ACCUTEST Laboratories

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL 732-329-0200 FAX 732-329-3499/3480
www.accutest.com

GW WTB

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: JB49563

Client / Reporting Information

Company Name: Kleinfelder
Street Address: 1340 Charwood Road Ste. 1
City: Hanover, State: MD, Zip: 21076
Project Contact: Stacey Schiding, E-mail:
Phone #: 410-850-0404, Fax #: 410-850-0049
Sampler(s) Name(s): Jonathan Mead / Phone #: 860-508-4663

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: John Hoban
ExxonMobil Purchase Order #: N/A

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name: Kleinfelder
Street Address: 1 Speen Street, Second Floor
City: Framingham, State: MA, Zip: 01701
Attention: Accounts Payable, PO#: 51141-243044

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	8260B - Full List VOCs + Fuel Oxygenates	LAB USE ONLY
1	MW048D(BP)		10/7/2013	11:00	JCM	GW	3	3								X	499R
2	Trip Blank JCM 1		10/3/2013	06:00	-	TB	2	2								X	

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] 8 Day *RUSH*
- [x] 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

5-Day Turn-Around Time

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		10/7/13 @ 11:15	1 10/8/13 1024	2	10/8/13 1710	2
3			3	4		4
5			5			

Custody Seal # | Intact | Not intact | Preserved where applicable | On Ice | Cooler Temp. 12.6C°

JB49563: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB49563 **Client:** **Project:**

Date / Time Received: 10/8/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (2.6/2.6); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB49563: Chain of Custody
Page 2 of 2

New Jersey ACCUTEST LABORATORIES

10/16/13



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO # 51141-243044

Accutest Job Number: JB49576

Sampling Dates: 10/07/13 - 10/08/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **20**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Sample Summary

ExxonMobil Corporation

Job No: JB49576

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO # 51141-243044

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB49576-1	10/07/13	14:50	CB	10/08/13	AQ	Ground Water	MW036C(150)
JB49576-2	10/07/13	14:55	CB	10/08/13	AQ	Ground Water	MW036C(350)
JB49576-3	10/07/13	11:20	CB	10/08/13	AQ	Ground Water	MW-135C(150)
JB49576-4	10/07/13	11:25	CB	10/08/13	AQ	Ground Water	MW-135C(350)
JB49576-5	10/07/13	14:20	CB	10/08/13	AQ	Ground Water	MW-171C(350)
JB49576-6	10/07/13	15:30	CB	10/08/13	AQ	Ground Water	MW-188D(150)
JB49576-7	10/07/13	15:35	CB	10/08/13	AQ	Ground Water	MW-188D(350)
JB49576-8	10/07/13	13:20	CB	10/08/13	AQ	Ground Water	PW-3501(150)
JB49576-9	10/07/13	13:25	CB	10/08/13	AQ	Ground Water	PW-3501(350)
JB49576-10	10/08/13	09:30	CB	10/08/13	AQ	Trip Blank Water	TRIP BLANK
JB49576-11	10/08/13	09:30	CB	10/08/13	AQ	Ground Water	MW171C(160)

Summary of Hits

Job Number: JB49576
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 10/07/13 thru 10/08/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB49576-1	**MW036C(150)**					
Methyl Tert Butyl Ether		1.9	1.0	0.29	ug/l	SW846 8260B
JB49576-2	**MW036C(350)**					
Methyl Tert Butyl Ether		2.0	1.0	0.29	ug/l	SW846 8260B
JB49576-3	**MW-135C(150)**					
Toluene		0.75 J	1.0	0.44	ug/l	SW846 8260B
JB49576-4	**MW-135C(350)**					
Toluene		1.3	1.0	0.44	ug/l	SW846 8260B
JB49576-5	**MW-171C(350)**					
Methyl Tert Butyl Ether		10.6	1.0	0.29	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		1.1 J	5.0	0.25	ug/l	SW846 8260B
JB49576-6	**MW-188D(150)**					
Benzene		0.59 J	1.0	0.28	ug/l	SW846 8260B
Toluene		1.1	1.0	0.44	ug/l	SW846 8260B
Methyl Tert Butyl Ether		29.1	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		2.2 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.54 J	5.0	0.25	ug/l	SW846 8260B
JB49576-7	**MW-188D(350)**					
Benzene		0.30 J	1.0	0.28	ug/l	SW846 8260B
Toluene		1.1	1.0	0.44	ug/l	SW846 8260B
Ethylbenzene		0.25 J	1.0	0.21	ug/l	SW846 8260B
Xylene (total)		0.96 J	1.0	0.19	ug/l	SW846 8260B
Methyl Tert Butyl Ether		42.6	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		3.5 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.83 J	5.0	0.25	ug/l	SW846 8260B
JB49576-8	**PW-3501(150)**					
Xylene (total)		1.0	1.0	0.19	ug/l	SW846 8260B
Methyl Tert Butyl Ether		0.56 J	1.0	0.29	ug/l	SW846 8260B

Summary of Hits

Job Number: JB49576
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 10/07/13 thru 10/08/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB49576-9	**PW-3501(350)**					
Toluene		0.66 J	1.0	0.44	ug/l	SW846 8260B
Xylene (total)		1.6	1.0	0.19	ug/l	SW846 8260B
Methyl Tert Butyl Ether		0.76 J	1.0	0.29	ug/l	SW846 8260B
JB49576-10	**TRIP BLANK**					
No hits reported in this sample.						
JB49576-11	**MW171C(160)**					
Methyl Tert Butyl Ether		11.5	1.0	0.29	ug/l	SW846 8260B

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW036C(150)		
Lab Sample ID:	JB49576-1	**Date Sampled:**	10/07/13
Matrix:	AQ - Ground Water	**Date Received:**	10/08/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S176698.D	1	10/15/13	VC	n/a	n/a	VS7266
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.9	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		79-117%
17060-07-0	1,2-Dichloroethane-D4	84%		72-123%
2037-26-5	Toluene-D8	115%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW036C(350)		
Lab Sample ID:	JB49576-2	**Date Sampled:**	10/07/13
Matrix:	AQ - Ground Water	**Date Received:**	10/08/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S176699.D	1	10/15/13	VC	n/a	n/a	VS7266
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.0	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		79-117%
17060-07-0	1,2-Dichloroethane-D4	83%		72-123%
2037-26-5	Toluene-D8	115%		82-118%
460-00-4	4-Bromofluorobenzene	104%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-135C(150)		
Lab Sample ID:	JB49576-3	**Date Sampled:**	10/07/13
Matrix:	AQ - Ground Water	**Date Received:**	10/08/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U176953.D	1	10/15/13	NT	n/a	n/a	VU8176
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	0.75	1.0	0.44	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		79-117%
17060-07-0	1,2-Dichloroethane-D4	95%		72-123%
2037-26-5	Toluene-D8	98%		82-118%
460-00-4	4-Bromofluorobenzene	94%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-135C(350)		
Lab Sample ID:	JB49576-4	**Date Sampled:**	10/07/13
Matrix:	AQ - Ground Water	**Date Received:**	10/08/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U176954.D	1	10/15/13	NT	n/a	n/a	VU8176
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	1.3	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		79-117%
17060-07-0	1,2-Dichloroethane-D4	95%		72-123%
2037-26-5	Toluene-D8	97%		82-118%
460-00-4	4-Bromofluorobenzene	95%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-171C(350)		
Lab Sample ID:	JB49576-5	**Date Sampled:**	10/07/13
Matrix:	AQ - Ground Water	**Date Received:**	10/08/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U176955.D	1	10/15/13	NT	n/a	n/a	VU8176
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	10.6	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	1.1	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		79-117%
17060-07-0	1,2-Dichloroethane-D4	96%		72-123%
2037-26-5	Toluene-D8	99%		82-118%
460-00-4	4-Bromofluorobenzene	96%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-188D(150)		
Lab Sample ID:	JB49576-6	**Date Sampled:**	10/07/13
Matrix:	AQ - Ground Water	**Date Received:**	10/08/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U176956.D	1	10/15/13	NT	n/a	n/a	VU8176
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.59	1.0	0.28	ug/l	J
108-88-3	Toluene	1.1	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	29.1	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	2.2	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.54	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-117%
17060-07-0	1,2-Dichloroethane-D4	96%		72-123%
2037-26-5	Toluene-D8	99%		82-118%
460-00-4	4-Bromofluorobenzene	95%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-188D(350)		
Lab Sample ID:	JB49576-7	**Date Sampled:**	10/07/13
Matrix:	AQ - Ground Water	**Date Received:**	10/08/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S176704.D	1	10/15/13	VC	n/a	n/a	VS7266
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.30	1.0	0.28	ug/l	J
108-88-3	Toluene	1.1	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	0.25	1.0	0.21	ug/l	J
1330-20-7	Xylene (total)	0.96	1.0	0.19	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	42.6	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	3.5	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.83	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		79-117%
17060-07-0	1,2-Dichloroethane-D4	83%		72-123%
2037-26-5	Toluene-D8	116%		82-118%
460-00-4	4-Bromofluorobenzene	107%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW-3501(150)		
Lab Sample ID:	JB49576-8	**Date Sampled:**	10/07/13
Matrix:	AQ - Ground Water	**Date Received:**	10/08/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O139061.D	1	10/15/13	VC	n/a	n/a	VO6162
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	1.0	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.56	1.0	0.29	ug/l	J
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		79-117%
17060-07-0	1,2-Dichloroethane-D4	99%		72-123%
2037-26-5	Toluene-D8	90%		82-118%
460-00-4	4-Bromofluorobenzene	85%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW-3501(350)		
Lab Sample ID:	JB49576-9	**Date Sampled:**	10/07/13
Matrix:	AQ - Ground Water	**Date Received:**	10/08/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O139062.D	1	10/15/13	VC	n/a	n/a	VO6162
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	0.66	1.0	0.44	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	1.6	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.76	1.0	0.29	ug/l	J
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		79-117%
17060-07-0	1,2-Dichloroethane-D4	97%		72-123%
2037-26-5	Toluene-D8	88%		82-118%
460-00-4	4-Bromofluorobenzene	85%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JB49576-10	**Date Sampled:**	10/08/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/08/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O139063.D	1	10/15/13	VC	n/a	n/a	VO6162
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		79-117%
17060-07-0	1,2-Dichloroethane-D4	98%		72-123%
2037-26-5	Toluene-D8	89%		82-118%
460-00-4	4-Bromofluorobenzene	85%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW171C(160)
Lab Sample ID: JB49576-11 **Date Sampled:** 10/08/13
Matrix: AQ - Ground Water **Date Received:** 10/08/13
Method: SW846 8260B **Percent Solids:** n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O139064.D	1	10/15/13	VC	n/a	n/a	VO6162
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	11.5	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		79-117%
17060-07-0	1,2-Dichloroethane-D4	99%		72-123%
2037-26-5	Toluene-D8	88%		82-118%
460-00-4	4-Bromofluorobenzene	86%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

GW
WTB

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE 1 OF 1 (CC)

ACCUTEST Laboratories

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL 732-329-0200 FAX 732-329-3499/3480
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB49576

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 / 410-850-0049
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	John Hoban
ExxonMobil Purchase Order #	N/A

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant

Company Name	Kleinfelder
Street Address	1 Speen Street, Second Floor
City / State / Zip	Framingham MA 01701
Attention: / PO#	Accounts Payable 51141-243044

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	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	8260B - BTEX + Fuel Oxygenates	LAB USE ONLY
1	~~MW-36C(150)~~ MW036C(150)		10/7/13	1450	CB	GW	3	3								X	499U
2	~~MW-36C(350)~~ MW036C(350)		10/7/13	1455	CB	GW	3	3								X	
3	MW-135C(150)		10/7/13	1120	CB	GW	3	3								X	
4	MW-135C(350)		10/7/13	1125	CB	GW	3	3								X	
	~~MW-171C(150)~~						~~3~~	~~3~~								~~X~~	
5	MW-171C(350)		10/7/13	1420	CB	GW	3	3								X	
6	MW-188D(150)		10/7/13	1530	CB	GW	3	3								X	
7	MW-188D(350)		10/7/13	1535	CB	GW	3	3								X	
8	PW-3501(150)		10/7/13	1320	CB	GW	3	3								X	
9	PW-3501(350)		10/7/13	1325	CB	GW	3	3								X	
10	Trip Blank _____		9/25/13	1100	-	TB	2	2								X	
11	MW171C (160)		10/8/13	0930	JW	GW	3	3								X	

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] 8 Day *RUSH*
- [x] 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

5-Day Turn-Around Time

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 Charlie Brehm	10/8/13 1224	1 Louis Jr.	2 Louis Jr.	10/8/13 1705	2 [signature]
3		3	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not intact — Preserved where applicable ☐ — On Ice ☑ — Cooler Temp. 01.4C°

4.1 4

JB49576: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB49576 **Client:** **Project:**

Date / Time Received: 10/8/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (1.4/1.4); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB49576: Chain of Custody
Page 2 of 2

New Jersey ACCUTEST LABORATORIES

10/13/13



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO # 51141-243044

Accutest Job Number: JB49841

Sampling Date: 10/08/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **17**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Sample Summary

ExxonMobil Corporation

Job No: JB49841

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO # 51141-243044

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB49841-1	10/08/13	17:45	JCM	10/10/13	AQ	Ground Water	MW131C(BP)
JB49841-2	10/08/13	17:55	JCM	10/10/13	AQ	Ground Water	MW131C(AP)
JB49841-3	10/08/13	17:55	JCM	10/10/13	AQ	Trip Blank Water	TRIP BLANK JCM 2

Summary of Hits

Job Number: JB49841
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 10/08/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JB49841-1 MW131C(BP)

No hits reported in this sample.

JB49841-2 MW131C(AP)

No hits reported in this sample.

JB49841-3 TRIP BLANK JCM 2

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW131C(BP)		
Lab Sample ID:	JB49841-1	**Date Sampled:**	10/08/13
Matrix:	AQ - Ground Water	**Date Received:**	10/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A133074.D	1	10/11/13	CC	n/a	n/a	V1A5732
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.39	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.48	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.17	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW131C(BP)
Lab Sample ID: JB49841-1 **Date Sampled:** 10/08/13
Matrix: AQ - Ground Water **Date Received:** 10/10/13
Method: SW846 8260B **Percent Solids:** n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.21	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.17	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.42	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.42	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.33	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
91-20-3	Naphthalene	ND	5.0	0.25	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.32	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.67	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.23	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.19	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW131C(BP)		
Lab Sample ID:	JB49841-1	**Date Sampled:**	10/08/13
Matrix:	AQ - Ground Water	**Date Received:**	10/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	100%		72-123%
2037-26-5	Toluene-D8	97%		82-118%
460-00-4	4-Bromofluorobenzene	91%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW131C(AP)		
Lab Sample ID:	JB49841-2	**Date Sampled:**	10/08/13
Matrix:	AQ - Ground Water	**Date Received:**	10/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A133075.D	1	10/11/13	CC	n/a	n/a	V1A5732
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.39	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.48	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.17	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW131C(AP)
Lab Sample ID: JB49841-2 **Date Sampled:** 10/08/13
Matrix: AQ - Ground Water **Date Received:** 10/10/13
Method: SW846 8260B **Percent Solids:** n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.21	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.17	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.42	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.42	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.33	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
91-20-3	Naphthalene	ND	5.0	0.25	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.32	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.67	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.23	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.19	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW131C(AP)		
Lab Sample ID:	JB49841-2	**Date Sampled:**	10/08/13
Matrix:	AQ - Ground Water	**Date Received:**	10/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		72-123%
2037-26-5	Toluene-D8	97%		82-118%
460-00-4	4-Bromofluorobenzene	90%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM 2		
Lab Sample ID:	JB49841-3	**Date Sampled:**	10/08/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A133073.D	1	10/11/13	CC	n/a	n/a	V1A5732
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.39	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.48	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.17	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM 2		
Lab Sample ID:	JB49841-3	**Date Sampled:**	10/08/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.21	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.17	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.42	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.42	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.33	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
91-20-3	Naphthalene	ND	5.0	0.25	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.32	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.67	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.23	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.19	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM 2		
Lab Sample ID:	JB49841-3	**Date Sampled:**	10/08/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	99%		72-123%
2037-26-5	Toluene-D8	96%		82-118%
460-00-4	4-Bromofluorobenzene	90%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

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CHAIN OF CUSTODY- ExxonMobil Projects

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Cc

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB49841

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 / 410-850-0049
Sampler(s) Name(s) / Phone #	Jonathan Mead 810-508-4663

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	John Hoban
ExxonMobil Purchase Order #	N/A

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant

Company Name	Kleinfelder
Street Address	1 Speen Street, Second Floor
City / State / Zip	Framingham MA 01701
Attention: / PO#	Accounts Payable 51141-243044

Requested Analysis (see TEST CODE sheet)

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	8260B - Full List VOCs + Fuel Oxygenates	LAB USE ONLY
1	MW131C(BP)		10/8/2013	17:45	JCM	GW	3	3								X	2235
2	MW131C(AP)		10/8/2013	17:55	JCM	GW	3	3								X	
3	Trip Blank JCM 2		10/2/2013	06:00	-	TB	2	2								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

Turnaround Time (Business days)

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

2-Day Turn-Around Time

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]	10/8/13	[signature] 10-10-13 1305	2 [signature] 10-10-13	1640	2 [signature]
3		3	4		4
5		5	Custody Seal # N/A	☐ Intact ☐ Not intact	Preserved where applicable ☐ On Ice ☑ Cooler Temp. 2.8

4.1 4

JB49841: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB49841 **Client:** **Project:**

Date / Time Received: 10/10/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (2.8/2.8); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB49841: Chain of Custody
Page 2 of 2

New Jersey
ACCUTEST LABORATORIES

11/04/13



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO#51141-243044

Accutest Job Number: JB50712

Sampling Date: 10/18/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **9**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Accutest Laboratories

Sample Summary

ExxonMobil Corporation

Job No: JB50712

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#51141-243044

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB50712-1	10/18/13	10:00	CC	10/19/13	AQ	Ground Water	MW027B

Summary of Hits

Job Number: JB50712
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 10/18/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB50712-1	**MW027B**					
Methyl Tert Butyl Ether		4.9	1.0	0.29	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.54 J	5.0	0.25	ug/l	SW846 8260B

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW027B		
Lab Sample ID:	JB50712-1	**Date Sampled:**	10/18/13
Matrix:	AQ - Ground Water	**Date Received:**	10/19/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3B101967.D	1	10/26/13	MAH	n/a	n/a	V3B4738
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4.9	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	0.54	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		79-117%
17060-07-0	1,2-Dichloroethane-D4	94%		72-123%
2037-26-5	Toluene-D8	96%		82-118%
460-00-4	4-Bromofluorobenzene	93%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CC

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PAGE ___ OF ___

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

GW

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB50712

Client / Reporting Information

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

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	John Hoban
ExxonMobil Purchase Order #	

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant

Company Name	Kleinfelder
Street Address	1 Speen Street, Second Floor
City / State / Zip	Framingham MA 01701
Attention: / PO#	Accounts Payable 51141-243044

Requested Analysis (see TEST CODE sheet)

	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	V8260MDVO	LAB USE ONLY
1	MW027B		10/18/13	1000	CC	GW	3	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

2054

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 Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	10-18-13 1108	1 [signature]	2 [signature]	10-18-13 1758	[signature]
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	Custody Seal # ☐ Intact ☐ Not intact	Preserved where applicable ☐	On Ice ☐ Cooler Temp. 2.0 °C

1.A

4.1 4

JB50712: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB50712 **Client:** **Project:**

Date / Time Received: 10/19/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (2/2); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Bar Therm		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control _Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB50712: Chain of Custody
Page 2 of 2

New Jersey
ACCUTEST LABORATORIES

10/31/13



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO#51141-243044

Accutest Job Number: JB51481

Sampling Date: 10/28/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **17**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Sample Summary

ExxonMobil Corporation

Job No: JB51481

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#51141-243044

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB51481-1	10/28/13	15:30	JCM	10/29/13	AQ	Ground Water	MW131C(BP)
JB51481-2	10/28/13	15:40	JCM	10/29/13	AQ	Ground Water	MW131C(AP)
JB51481-3	10/28/13	16:00	JCM	10/29/13	AQ	Ground Water	MW048D(BP)
JB51481-4	10/28/13	16:10	JCM	10/29/13	AQ	Ground Water	MW048D(AP)
JB51481-5	10/28/13	16:10	JCM	10/29/13	AQ	Trip Blank Water	TRIP BLANK JCM 2

Summary of Hits

Job Number: JB51481
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 10/28/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JB51481-1 **MW131C(BP)**

No hits reported in this sample.

JB51481-2 **MW131C(AP)**

No hits reported in this sample.

JB51481-3 **MW048D(BP)**

No hits reported in this sample.

JB51481-4 **MW048D(AP)**

No hits reported in this sample.

JB51481-5 **TRIP BLANK JCM 2**

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW131C(BP)		
Lab Sample ID:	JB51481-1	**Date Sampled:**	10/28/13
Matrix:	AQ - Ground Water	**Date Received:**	10/29/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V1800.D	1	10/30/13	TDN	n/a	n/a	V4V71
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-117%
17060-07-0	1,2-Dichloroethane-D4	99%		72-123%
2037-26-5	Toluene-D8	103%		82-118%
460-00-4	4-Bromofluorobenzene	91%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW131C(AP)		
Lab Sample ID:	JB51481-2	**Date Sampled:**	10/28/13
Matrix:	AQ - Ground Water	**Date Received:**	10/29/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V1801.D	1	10/30/13	TDN	n/a	n/a	V4V71
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-117%
17060-07-0	1,2-Dichloroethane-D4	100%		72-123%
2037-26-5	Toluene-D8	105%		82-118%
460-00-4	4-Bromofluorobenzene	92%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW048D(BP)		
Lab Sample ID:	JB51481-3	**Date Sampled:**	10/28/13
Matrix:	AQ - Ground Water	**Date Received:**	10/29/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V1802.D	1	10/30/13	TDN	n/a	n/a	V4V71
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-117%
17060-07-0	1,2-Dichloroethane-D4	102%		72-123%
2037-26-5	Toluene-D8	104%		82-118%
460-00-4	4-Bromofluorobenzene	94%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW048D(AP)		
Lab Sample ID:	JB51481-4	**Date Sampled:**	10/28/13
Matrix:	AQ - Ground Water	**Date Received:**	10/29/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V1799.D	1	10/30/13	TDN	n/a	n/a	V4V71
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.39	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.48	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.17	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW048D(AP)		
Lab Sample ID:	JB51481-4	**Date Sampled:**	10/28/13
Matrix:	AQ - Ground Water	**Date Received:**	10/29/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.21	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.17	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.42	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.42	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.33	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
91-20-3	Naphthalene	ND	5.0	0.25	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.32	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.67	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.23	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.19	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW048D(AP)		
Lab Sample ID:	JB51481-4	**Date Sampled:**	10/28/13
Matrix:	AQ - Ground Water	**Date Received:**	10/29/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	96%		72-123%
2037-26-5	Toluene-D8	103%		82-118%
460-00-4	4-Bromofluorobenzene	92%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM 2		
Lab Sample ID:	JB51481-5	**Date Sampled:**	10/28/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/29/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V1798.D	1	10/30/13	TDN	n/a	n/a	V4V71
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.39	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.48	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.17	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM 2		
Lab Sample ID:	JB51481-5	**Date Sampled:**	10/28/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/29/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.21	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.17	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.42	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.42	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.33	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
91-20-3	Naphthalene	ND	5.0	0.25	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.32	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.67	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.23	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.19	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		79-117%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM 2		
Lab Sample ID:	JB51481-5	**Date Sampled:**	10/28/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/29/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	89%		72-123%
2037-26-5	Toluene-D8	104%		82-118%
460-00-4	4-Bromofluorobenzene	90%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

GW
WTB

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE 1 OF 1

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: JB51481

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 #: 410-850-0049
Sampler(s) Name(s): Jonathan Mead
Phone #: 860-508-4663

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: John Hoban
ExxonMobil Purchase Order #: N/A

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name: Kleinfelder
Street Address: 1 Speen Street, Second Floor
City / State / Zip: Framingham MA 01701
Attention: Accounts Payable
PO#: 51141-243044

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	Preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	8260B - Full List VOCs + Fuel Oxygenates	8260B - BTEX + Fuel Oxygenates	LAB USE ONLY
1	MW131C(BP)		10/28/2013	15:30	JCM	GW	3	3									X	955
2	MW131C(AP)		10/28/2013	15:40	JCM	GW	3	3									X	
3	MW048D(BP)		10/28/2013	16:00	JCM	GW	3	3									X	
4	MW048D(AP)		10/28/2013	16:10	JCM	GW	3	3								X		
5	Trip Blank JCM 2		10/24/2013	08:00	-	TB	2	2								X		

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

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

2-Day Turn-Around Time

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

	Relinquished by Sampler:	Date Time:	Received By:
1	Jonathan Mead	10/28/13	1 10/29/13 1230
2			2 10/29/13 1725
3			3
4			4
5			5

Custody Seal # ☐ Intact ☐ Not intact
Preserved where applicable ☐
On Ice: 8
Cooler Temp: 1.2C

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB51481 **Client:** **Project:**

Date / Time Received: 10/29/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (1.2/1.2); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB51481: Chain of Custody
Page 2 of 2

New Jersey
ACCUTEST
LABORATORIES

11/20/13



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

Accutest Job Number: JB52396

Sampling Date: 11/07/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **14**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

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Accutest Laboratories

Sample Summary

ExxonMobil Corporation

Job No: JB52396

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB52396-1	11/07/13	09:10	CB	11/07/13	AQ	Ground Water	MW073
JB52396-2	11/07/13	08:20	CB	11/07/13	AQ	Ground Water	PW3501(150)
JB52396-3	11/07/13	08:25	CB	11/07/13	AQ	Ground Water	PW3501(350)
JB52396-4	11/07/13	09:35	CB	11/07/13	AQ	Ground Water	MW037
JB52396-5	11/07/13	09:25	CB	11/07/13	AQ	Ground Water	MW038
JB52396-6	11/07/13	09:35	CB	11/07/13	AQ	Trip Blank Water	TRIP BLANK CB3

Summary of Hits

Job Number: JB52396
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 11/07/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB52396-1	**MW073**					
No hits reported in this sample.						
JB52396-2	**PW3501(150)**					
No hits reported in this sample.						
JB52396-3	**PW3501(350)**					
Xylene (total)		0.58 J	1.0	0.19	ug/l	SW846 8260B
Methyl Tert Butyl Ether		0.54 J	1.0	0.29	ug/l	SW846 8260B
JB52396-4	**MW037**					
Methyl Tert Butyl Ether		0.38 J	1.0	0.29	ug/l	SW846 8260B
Di-Isopropyl ether		2.1 J	5.0	0.24	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		2.1 J	5.0	0.25	ug/l	SW846 8260B
JB52396-5	**MW038**					
Benzene		0.96 J	1.0	0.28	ug/l	SW846 8260B
Xylene (total)		0.48 J	1.0	0.19	ug/l	SW846 8260B
Methyl Tert Butyl Ether		72.6	1.0	0.29	ug/l	SW846 8260B
Di-Isopropyl ether		0.89 J	5.0	0.24	ug/l	SW846 8260B
tert-Amyl Methyl Ether		9.0	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		2.4 J	5.0	0.25	ug/l	SW846 8260B
JB52396-6	**TRIP BLANK CB3**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW073		
Lab Sample ID:	JB52396-1	**Date Sampled:**	11/07/13
Matrix:	AQ - Ground Water	**Date Received:**	11/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A141162.D	1	11/14/13	CC	n/a	n/a	V2A6036
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		79-117%
17060-07-0	1,2-Dichloroethane-D4	97%		72-123%
2037-26-5	Toluene-D8	108%		82-118%
460-00-4	4-Bromofluorobenzene	95%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW3501(150)		
Lab Sample ID:	JB52396-2	**Date Sampled:**	11/07/13
Matrix:	AQ - Ground Water	**Date Received:**	11/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A141164.D	1	11/14/13	CC	n/a	n/a	V2A6036
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		79-117%
17060-07-0	1,2-Dichloroethane-D4	98%		72-123%
2037-26-5	Toluene-D8	106%		82-118%
460-00-4	4-Bromofluorobenzene	93%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW3501(350)		
Lab Sample ID:	JB52396-3	**Date Sampled:**	11/07/13
Matrix:	AQ - Ground Water	**Date Received:**	11/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A141165.D	1	11/14/13	CC	n/a	n/a	V2A6036
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	0.58	1.0	0.19	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	0.54	1.0	0.29	ug/l	J
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		79-117%
17060-07-0	1,2-Dichloroethane-D4	97%		72-123%
2037-26-5	Toluene-D8	104%		82-118%
460-00-4	4-Bromofluorobenzene	91%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW037		
Lab Sample ID:	JB52396-4	**Date Sampled:**	11/07/13
Matrix:	AQ - Ground Water	**Date Received:**	11/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A141166.D	1	11/14/13	CC	n/a	n/a	V2A6036
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.38	1.0	0.29	ug/l	J
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	2.1	5.0	0.24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	2.1	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-117%
17060-07-0	1,2-Dichloroethane-D4	99%		72-123%
2037-26-5	Toluene-D8	103%		82-118%
460-00-4	4-Bromofluorobenzene	93%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW038		
Lab Sample ID:	JB52396-5	**Date Sampled:**	11/07/13
Matrix:	AQ - Ground Water	**Date Received:**	11/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A141167.D	1	11/14/13	CC	n/a	n/a	V2A6036
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.96	1.0	0.28	ug/l	J
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	0.48	1.0	0.19	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	72.6	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	0.89	5.0	0.24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	9.0	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	2.4	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		79-117%
17060-07-0	1,2-Dichloroethane-D4	96%		72-123%
2037-26-5	Toluene-D8	103%		82-118%
460-00-4	4-Bromofluorobenzene	93%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK CB3		
Lab Sample ID:	JB52396-6	**Date Sampled:**	11/07/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A141168.D	1	11/14/13	CC	n/a	n/a	V2A6036
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		79-117%
17060-07-0	1,2-Dichloroethane-D4	97%		72-123%
2037-26-5	Toluene-D8	104%		82-118%
460-00-4	4-Bromofluorobenzene	93%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE ___ OF ___

ACCUTEST Laboratories

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL 732-329-0200 FAX 732-329-3499/3480
www.accutest.com

WTB GW

FED-EX Tracking # | Bottle Order Control #
Accutest Quote # | Accutest Job # JB52396

Client / Reporting Information

Company Name: Kleinfelder
Street Address: 1340 Charwood Road Ste. 1
City: Hanover, MD State: Zip: 21076
Project Contact: Sean Rochford, 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: John Hoban
ExxonMobil Purchase Order #:

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name: Kleinfelder
Street Address: 1 Speen Street, Second Floor
City: Framingham State: MA Zip: 01701
Attention: PO#: Accounts Payable 51141-243044

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	V8260MDVO	LAB USE ONLY
1	MW073		11/7/13	0910	CB	GW	3	X								X		
2	PW3501(150)		11/7/13	0820	CB	GW	3	X								X		
3	PW3501(350)		11/7/13	0825	CB	GW	3	X								X		
4	MW037		11/7/13	0935	CB	GW	3	X								X		
5	MW038		11/7/13	0925	CB	GW	3	X								X		
6	TRIP BLANK CB3		10/28/13	0900		TB	2	X								X		2191

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	Charlie Brehm	11-7-13	11-7-13 12:20	2 11-7-13	1620	2
3			3	4		4
5			5			

Custody Seal # N/A [ ] Intact [ ] Not intact Preserved where applicable [ ] On Ice [X] Cooler Temp. 4.2

3A

JB52396: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB52396 **Client:** **Project:**

Date / Time Received: 11/7/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (4.2/4.2); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control _Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB52396: Chain of Custody
Page 2 of 2

New Jersey ACCUTEST LABORATORIES

11/24/13



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

Accutest Job Number: JB52896

Sampling Dates: 11/11/13 - 11/12/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **55**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

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Accutest Laboratories

Sample Summary

ExxonMobil Corporation

Job No: JB52896

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB52896-1	11/11/13	13:15	JW	11/12/13	AQ	Ground Water	MW188D(AP)
JB52896-2	11/11/13	13:20	JW	11/12/13	AQ	Ground Water	MW188D(BP)
JB52896-3	11/11/13	14:30	JW	11/12/13	AQ	Ground Water	MW135C(HS-S)
JB52896-4	11/11/13	14:32	JW	11/12/13	AQ	Ground Water	MW135C(HS-D)
JB52896-5	11/12/13	10:15	JW	11/12/13	AQ	Ground Water	MW131C(HS-S)
JB52896-6	11/12/13	10:20	JW	11/12/13	AQ	Ground Water	MW131C(HS-D)
JB52896-7	11/12/13	10:20	JW	11/12/13	AQ	Trip Blank Water	TRIP BLANK HW1
JB52896-8	11/11/13	15:10	JW	11/12/13	AQ	Ground Water	MW036C(HS-S)
JB52896-9	11/11/13	15:15	JW	11/12/13	AQ	Ground Water	MW036C(HS-D)
JB52896-10	11/11/13	11:25	JW	11/12/13	AQ	Ground Water	MW047C(HS-S)
JB52896-11	11/11/13	11:27	JW	11/12/13	AQ	Ground Water	MW047C(HS-D)
JB52896-12	11/12/13	09:32	JW	11/12/13	AQ	Ground Water	MW171C(HS-S)
JB52896-13	11/12/13	09:30	JW	11/12/13	AQ	Ground Water	MW171C(HS-D)

Sample Summary
(continued)

ExxonMobil Corporation

Job No: JB52896

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB52896-14	11/12/13	09:45	JW	11/12/13	AQ	Ground Water	MW179C(HS-S)
JB52896-15	11/12/13	09:50	JW	11/12/13	AQ	Ground Water	MW179C(HS-D)
JB52896-16	11/11/13	09:52	JW	11/12/13	AQ	Ground Water	MW180C(HS-S)
JB52896-17	11/11/13	09:50	JW	11/12/13	AQ	Ground Water	MW180C(HS-D)
JB52896-18	11/11/13	11:00	JW	11/12/13	AQ	Ground Water	MW176C(HS-S)
JB52896-19	11/11/13	12:00	JW	11/12/13	AQ	Ground Water	MW177(130)
JB52896-20	11/11/13	12:02	JW	11/12/13	AQ	Ground Water	MW177(143)
JB52896-21	11/11/13	12:04	JW	11/12/13	AQ	Ground Water	MW177(220)
JB52896-22	11/11/13	12:06	JW	11/12/13	AQ	Ground Water	MW177(228)
JB52896-23	11/11/13	12:08	JW	11/12/13	AQ	Ground Water	MW177(236)
JB52896-24	11/12/13	12:00	JW	11/12/13	AQ	Ground Water	MW054C(HS-S)
JB52896-25	11/12/13	12:05	JW	11/12/13	AQ	Ground Water	MW054C(HS-D)
JB52896-26	11/11/13	10:10	JW	11/12/13	AQ	Ground Water	MW182(HS-S)

Sample Summary
(continued)

ExxonMobil Corporation

Job No: JB52896

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB52896-27	11/11/13	10:12	JW	11/12/13	AQ	Ground Water	MW182(HS-D)
JB52896-28	11/12/13	08:20	JW	11/12/13	AQ	Ground Water	MW181C(126)
JB52896-29	11/12/13	08:22	JW	11/12/13	AQ	Ground Water	MW181C(179)
JB52896-30	11/12/13	08:24	JW	11/12/13	AQ	Ground Water	MW181C(187)
JB52896-31	11/12/13	08:26	JW	11/12/13	AQ	Ground Water	MW181C(215)
JB52896-32	11/12/13	08:28	JW	11/12/13	AQ	Ground Water	MW181C(221)
JB52896-33	11/12/13	08:30	JW	11/12/13	AQ	Ground Water	MW181C(259.5)
JB52896-34	11/12/13	08:32	JW	11/12/13	AQ	Ground Water	MW181C(284.5)
JB52896-35	11/12/13	08:34	JW	11/12/13	AQ	Ground Water	MW181C(291)

Summary of Hits

Job Number: JB52896
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 11/11/13 thru 11/12/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB52896-1	**MW188D(AP)**					
Toluene		155	1.0	0.44	ug/l	SW846 8260B
Methyl Tert Butyl Ether		29.9	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		2.5 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.60 J	5.0	0.25	ug/l	SW846 8260B
JB52896-2	**MW188D(BP)**					
Toluene		82.2	1.0	0.44	ug/l	SW846 8260B
Xylene (total)		1.1	1.0	0.19	ug/l	SW846 8260B
Methyl Tert Butyl Ether		23.0	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		1.3 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.39 J	5.0	0.25	ug/l	SW846 8260B
JB52896-3	**MW135C(HS-S)**					
Toluene		0.91 J	1.0	0.44	ug/l	SW846 8260B
JB52896-4	**MW135C(HS-D)**					
Toluene		1.2	1.0	0.44	ug/l	SW846 8260B
JB52896-5	**MW131C(HS-S)**					
Toluene		0.56 J	1.0	0.44	ug/l	SW846 8260B
JB52896-6	**MW131C(HS-D)**					
Toluene		0.59 J	1.0	0.44	ug/l	SW846 8260B
JB52896-7	**TRIP BLANK HW1**					
No hits reported in this sample.						
JB52896-8	**MW036C(HS-S)**					
Benzene		0.33 J	1.0	0.28	ug/l	SW846 8260B
Toluene		0.45 J	1.0	0.44	ug/l	SW846 8260B
Methyl Tert Butyl Ether		2.5	1.0	0.29	ug/l	SW846 8260B
JB52896-9	**MW036C(HS-D)**					
Methyl Tert Butyl Ether		2.4	1.0	0.29	ug/l	SW846 8260B

Summary of Hits

Job Number: JB52896
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 11/11/13 thru 11/12/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB52896-10	**MW047C(HS-S)**					
Methyl Tert Butyl Ether		13.5	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		0.49 J	5.0	0.20	ug/l	SW846 8260B
JB52896-11	**MW047C(HS-D)**					
Methyl Tert Butyl Ether		13.6	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		0.55 J	5.0	0.20	ug/l	SW846 8260B
JB52896-12	**MW171C(HS-S)**					
Methyl Tert Butyl Ether		3.9	1.0	0.29	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.94 J	5.0	0.25	ug/l	SW846 8260B
JB52896-13	**MW171C(HS-D)**					
Methyl Tert Butyl Ether		4.3	1.0	0.29	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.76 J	5.0	0.25	ug/l	SW846 8260B
JB52896-14	**MW179C(HS-S)**					
Methyl Tert Butyl Ether		20.8	1.0	0.29	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		3.9 J	5.0	0.25	ug/l	SW846 8260B
JB52896-15	**MW179C(HS-D)**					
Methyl Tert Butyl Ether		38.2	1.0	0.29	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		5.2	5.0	0.25	ug/l	SW846 8260B
JB52896-16	**MW180C(HS-S)**					
Methyl Tert Butyl Ether		10.2	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		0.36 J	5.0	0.20	ug/l	SW846 8260B
JB52896-17	**MW180C(HS-D)**					
Methyl Tert Butyl Ether		11.4	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		0.40 J	5.0	0.20	ug/l	SW846 8260B
JB52896-18	**MW176C(HS-S)**					
Methyl Tert Butyl Ether		9.7	1.0	0.29	ug/l	SW846 8260B

Summary of Hits

Job Number: JB52896
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 11/11/13 thru 11/12/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB52896-19	**MW177(130)**					
Methyl Tert Butyl Ether		4.0	1.0	0.29	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.34 J	5.0	0.25	ug/l	SW846 8260B
JB52896-20	**MW177(143)**					
Methyl Tert Butyl Ether		0.34 J	1.0	0.29	ug/l	SW846 8260B
JB52896-21	**MW177(220)**					
Methyl Tert Butyl Ether		0.32 J	1.0	0.29	ug/l	SW846 8260B
JB52896-22	**MW177(228)**					
No hits reported in this sample.						
JB52896-23	**MW177(236)**					
Methyl Tert Butyl Ether		0.36 J	1.0	0.29	ug/l	SW846 8260B
JB52896-24	**MW054C(HS-S)**					
Benzene		670	100	28	ug/l	SW846 8260B
Toluene		665	100	44	ug/l	SW846 8260B
Ethylbenzene		62.2 J	100	21	ug/l	SW846 8260B
Xylene (total)		651	100	19	ug/l	SW846 8260B
Methyl Tert Butyl Ether		51400	1000	290	ug/l	SW846 8260B
Tert Butyl Alcohol		1010 J	2500	190	ug/l	SW846 8260B
Di-Isopropyl ether		163 J	500	24	ug/l	SW846 8260B
tert-Amyl Methyl Ether		3250	500	20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		790	500	25	ug/l	SW846 8260B
JB52896-25	**MW054C(HS-D)**					
Benzene		767	100	28	ug/l	SW846 8260B
Toluene		1250	100	44	ug/l	SW846 8260B
Ethylbenzene		83.9 J	100	21	ug/l	SW846 8260B
Xylene (total)		455	100	19	ug/l	SW846 8260B
Methyl Tert Butyl Ether		56600	1000	290	ug/l	SW846 8260B
Tert Butyl Alcohol		3090	2500	190	ug/l	SW846 8260B
Di-Isopropyl ether		190 J	500	24	ug/l	SW846 8260B
tert-Amyl Methyl Ether		3700	500	20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		895	500	25	ug/l	SW846 8260B

Summary of Hits

Job Number: JB52896
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 11/11/13 thru 11/12/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB52896-26	**MW182(HS-S)**					
Methyl Tert Butyl Ether		4.1	1.0	0.29	ug/l	SW846 8260B
Di-Isopropyl ether		0.51 J	5.0	0.24	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		1.9 J	5.0	0.25	ug/l	SW846 8260B
JB52896-27	**MW182(HS-D)**					
Methyl Tert Butyl Ether		2.9	1.0	0.29	ug/l	SW846 8260B
Di-Isopropyl ether		0.42 J	5.0	0.24	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		1.4 J	5.0	0.25	ug/l	SW846 8260B
JB52896-28	**MW181C(126)**					
Benzene		0.31 J	1.0	0.28	ug/l	SW846 8260B
Methyl Tert Butyl Ether		12.4	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		0.44 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.79 J	5.0	0.25	ug/l	SW846 8260B
JB52896-29	**MW181C(179)**					
Methyl Tert Butyl Ether		17.7	1.0	0.29	ug/l	SW846 8260B
Di-Isopropyl ether		0.27 J	5.0	0.24	ug/l	SW846 8260B
tert-Amyl Methyl Ether		0.86 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.88 J	5.0	0.25	ug/l	SW846 8260B
JB52896-30	**MW181C(187)**					
Methyl Tert Butyl Ether		17.2	1.0	0.29	ug/l	SW846 8260B
Di-Isopropyl ether		0.26 J	5.0	0.24	ug/l	SW846 8260B
tert-Amyl Methyl Ether		0.85 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.93 J	5.0	0.25	ug/l	SW846 8260B
JB52896-31	**MW181C(215)**					
Methyl Tert Butyl Ether		18.6	1.0	0.29	ug/l	SW846 8260B
Di-Isopropyl ether		0.29 J	5.0	0.24	ug/l	SW846 8260B
tert-Amyl Methyl Ether		1.4 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.92 J	5.0	0.25	ug/l	SW846 8260B
JB52896-32	**MW181C(221)**					
Methyl Tert Butyl Ether		18.0	1.0	0.29	ug/l	SW846 8260B
Di-Isopropyl ether		0.26 J	5.0	0.24	ug/l	SW846 8260B
tert-Amyl Methyl Ether		1.2 J	5.0	0.20	ug/l	SW846 8260B

Summary of Hits

Job Number: JB52896
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 11/11/13 thru 11/12/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
tert-Butyl Ethyl Ether		0.86 J	5.0	0.25	ug/l	SW846 8260B
JB52896-33	**MW181C(259.5)**					
Methyl Tert Butyl Ether		15.2	1.0	0.29	ug/l	SW846 8260B
Di-Isopropyl ether		0.25 J	5.0	0.24	ug/l	SW846 8260B
tert-Amyl Methyl Ether		0.62 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.89 J	5.0	0.25	ug/l	SW846 8260B
JB52896-34	**MW181C(284.5)**					
Methyl Tert Butyl Ether		13.5	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		0.58 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.77 J	5.0	0.25	ug/l	SW846 8260B
JB52896-35	**MW181C(291)**					
Methyl Tert Butyl Ether		12.5	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		0.44 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.74 J	5.0	0.25	ug/l	SW846 8260B

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW188D(AP)		
Lab Sample ID:	JB52896-1	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D127252.D	1	11/14/13	CM	n/a	n/a	V2D5308
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	155	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	29.9	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	2.5	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.60	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	117%		79-117%
17060-07-0	1,2-Dichloroethane-D4	116%		72-123%
2037-26-5	Toluene-D8	110%		82-118%
460-00-4	4-Bromofluorobenzene	107%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW188D(BP)		
Lab Sample ID:	JB52896-2	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E96897.D	1	11/16/13	TYG	n/a	n/a	V2E4370
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	82.2	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	1.1	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	23.0	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	1.3	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.39	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-117%
17060-07-0	1,2-Dichloroethane-D4	99%		72-123%
2037-26-5	Toluene-D8	98%		82-118%
460-00-4	4-Bromofluorobenzene	105%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW135C(HS-S)		
Lab Sample ID:	JB52896-3	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D127323.D	1	11/18/13	CM	n/a	n/a	V2D5311
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	0.91	1.0	0.44	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-117%
17060-07-0	1,2-Dichloroethane-D4	103%		72-123%
2037-26-5	Toluene-D8	109%		82-118%
460-00-4	4-Bromofluorobenzene	105%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW135C(HS-D)		
Lab Sample ID:	JB52896-4	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D127324.D	1	11/18/13	CM	n/a	n/a	V2D5311
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	1.2	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-117%
17060-07-0	1,2-Dichloroethane-D4	102%		72-123%
2037-26-5	Toluene-D8	109%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW131C(HS-S)		
Lab Sample ID:	JB52896-5	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D127325.D	1	11/18/13	CM	n/a	n/a	V2D5311
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	0.56	1.0	0.44	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		79-117%
17060-07-0	1,2-Dichloroethane-D4	105%		72-123%
2037-26-5	Toluene-D8	108%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW131C(HS-D)		
Lab Sample ID:	JB52896-6	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E97046.D	1	11/20/13	TYG	n/a	n/a	V2E4377
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	0.59	1.0	0.44	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-117%
17060-07-0	1,2-Dichloroethane-D4	101%		72-123%
2037-26-5	Toluene-D8	99%		82-118%
460-00-4	4-Bromofluorobenzene	108%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK HW1		
Lab Sample ID:	JB52896-7	**Date Sampled:**	11/12/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D127333.D	1	11/19/13	CM	n/a	n/a	V2D5312
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-117%
17060-07-0	1,2-Dichloroethane-D4	104%		72-123%
2037-26-5	Toluene-D8	108%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW036C(HS-S)		
Lab Sample ID:	JB52896-8	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D127334.D	1	11/19/13	CM	n/a	n/a	V2D5312
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.33	1.0	0.28	ug/l	J
108-88-3	Toluene	0.45	1.0	0.44	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.5	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-117%
17060-07-0	1,2-Dichloroethane-D4	105%		72-123%
2037-26-5	Toluene-D8	109%		82-118%
460-00-4	4-Bromofluorobenzene	108%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW036C(HS-D)		
Lab Sample ID:	JB52896-9	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D127335.D	1	11/19/13	CM	n/a	n/a	V2D5312
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.4	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-117%
17060-07-0	1,2-Dichloroethane-D4	105%		72-123%
2037-26-5	Toluene-D8	109%		82-118%
460-00-4	4-Bromofluorobenzene	107%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW047C(HS-S)		
Lab Sample ID:	JB52896-10	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E96985.D	1	11/19/13	TYG	n/a	n/a	V2E4374
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	13.5	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.49	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-117%
17060-07-0	1,2-Dichloroethane-D4	101%		72-123%
2037-26-5	Toluene-D8	97%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW047C(HS-D)		
Lab Sample ID:	JB52896-11	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E96986.D	1	11/19/13	TYG	n/a	n/a	V2E4374
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	13.6	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.55	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-117%
17060-07-0	1,2-Dichloroethane-D4	101%		72-123%
2037-26-5	Toluene-D8	98%		82-118%
460-00-4	4-Bromofluorobenzene	105%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW171C(HS-S)		
Lab Sample ID:	JB52896-12	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E96987.D	1	11/19/13	TYG	n/a	n/a	V2E4374
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.9	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	0.94	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%
17060-07-0	1,2-Dichloroethane-D4	103%		72-123%
2037-26-5	Toluene-D8	98%		82-118%
460-00-4	4-Bromofluorobenzene	105%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW171C(HS-D)		
Lab Sample ID:	JB52896-13	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E96998.D	1	11/19/13	TYG	n/a	n/a	V2E4374
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4.3	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	0.76	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-117%
17060-07-0	1,2-Dichloroethane-D4	102%		72-123%
2037-26-5	Toluene-D8	99%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW179C(HS-S)		
Lab Sample ID:	JB52896-14	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E96999.D	1	11/19/13	TYG	n/a	n/a	V2E4374
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	20.8	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	3.9	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		79-117%
17060-07-0	1,2-Dichloroethane-D4	104%		72-123%
2037-26-5	Toluene-D8	99%		82-118%
460-00-4	4-Bromofluorobenzene	105%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW179C(HS-D)		
Lab Sample ID:	JB52896-15	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E97000.D	1	11/19/13	TYG	n/a	n/a	V2E4374
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	38.2	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	5.2	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		79-117%
17060-07-0	1,2-Dichloroethane-D4	102%		72-123%
2037-26-5	Toluene-D8	99%		82-118%
460-00-4	4-Bromofluorobenzene	105%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW180C(HS-S)		
Lab Sample ID:	JB52896-16	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E97001.D	1	11/19/13	TYG	n/a	n/a	V2E4374
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	10.2	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.36	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-117%
17060-07-0	1,2-Dichloroethane-D4	103%		72-123%
2037-26-5	Toluene-D8	99%		82-118%
460-00-4	4-Bromofluorobenzene	104%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW180C(HS-D)		
Lab Sample ID:	JB52896-17	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E97002.D	1	11/19/13	TYG	n/a	n/a	V2E4374
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	11.4	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.40	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-117%
17060-07-0	1,2-Dichloroethane-D4	102%		72-123%
2037-26-5	Toluene-D8	99%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW176C(HS-S)		
Lab Sample ID:	JB52896-18	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E97003.D	1	11/19/13	TYG	n/a	n/a	V2E4374
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	9.7	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%
17060-07-0	1,2-Dichloroethane-D4	104%		72-123%
2037-26-5	Toluene-D8	99%		82-118%
460-00-4	4-Bromofluorobenzene	105%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW177(130)		
Lab Sample ID:	JB52896-19	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E97038.D	1	11/20/13	TYG	n/a	n/a	V2E4377
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4.0	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	0.34	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-117%
17060-07-0	1,2-Dichloroethane-D4	103%		72-123%
2037-26-5	Toluene-D8	99%		82-118%
460-00-4	4-Bromofluorobenzene	105%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW177(143)		
Lab Sample ID:	JB52896-20	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E97039.D	1	11/20/13	TYG	n/a	n/a	V2E4377
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.34	1.0	0.29	ug/l	J
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%
17060-07-0	1,2-Dichloroethane-D4	103%		72-123%
2037-26-5	Toluene-D8	101%		82-118%
460-00-4	4-Bromofluorobenzene	105%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW177(220)		
Lab Sample ID:	JB52896-21	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E97040.D	1	11/20/13	TYG	n/a	n/a	V2E4377
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.32	1.0	0.29	ug/l	J
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%
17060-07-0	1,2-Dichloroethane-D4	103%		72-123%
2037-26-5	Toluene-D8	99%		82-118%
460-00-4	4-Bromofluorobenzene	104%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW177(228)		
Lab Sample ID:	JB52896-22	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E97041.D	1	11/20/13	TYG	n/a	n/a	V2E4377
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		79-117%
17060-07-0	1,2-Dichloroethane-D4	102%		72-123%
2037-26-5	Toluene-D8	99%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW177(236)		
Lab Sample ID:	JB52896-23	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E97042.D	1	11/20/13	TYG	n/a	n/a	V2E4377
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.36	1.0	0.29	ug/l	J
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-117%
17060-07-0	1,2-Dichloroethane-D4	104%		72-123%
2037-26-5	Toluene-D8	100%		82-118%
460-00-4	4-Bromofluorobenzene	105%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW054C(HS-S)		
Lab Sample ID:	JB52896-24	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E96887.D	100	11/16/13	TYG	n/a	n/a	V2E4370
Run #2	2E96888.D	1000	11/16/13	TYG	n/a	n/a	V2E4370

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	670	100	28	ug/l	
108-88-3	Toluene	665	100	44	ug/l	
100-41-4	Ethylbenzene	62.2	100	21	ug/l	J
1330-20-7	Xylene (total)	651	100	19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	51400 [a]	1000	290	ug/l	
75-65-0	Tert Butyl Alcohol	1010	2500	190	ug/l	J
108-20-3	Di-Isopropyl ether	163	500	24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	3250	500	20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	790	500	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%	90%	79-117%
17060-07-0	1,2-Dichloroethane-D4	96%	95%	72-123%
2037-26-5	Toluene-D8	96%	96%	82-118%
460-00-4	4-Bromofluorobenzene	106%	104%	75-118%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW054C(HS-D)		
Lab Sample ID:	JB52896-25	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E96890.D	100	11/16/13	TYG	n/a	n/a	V2E4370
Run #2	2E96891.D	1000	11/16/13	TYG	n/a	n/a	V2E4370

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	767	100	28	ug/l	
108-88-3	Toluene	1250	100	44	ug/l	
100-41-4	Ethylbenzene	83.9	100	21	ug/l	J
1330-20-7	Xylene (total)	455	100	19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	56600 [a]	1000	290	ug/l	
75-65-0	Tert Butyl Alcohol	3090	2500	190	ug/l	
108-20-3	Di-Isopropyl ether	190	500	24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	3700	500	20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	895	500	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%	92%	79-117%
17060-07-0	1,2-Dichloroethane-D4	97%	96%	72-123%
2037-26-5	Toluene-D8	97%	97%	82-118%
460-00-4	4-Bromofluorobenzene	104%	105%	75-118%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW182(HS-S)		
Lab Sample ID:	JB52896-26	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E96892.D	1	11/16/13	TYG	n/a	n/a	V2E4370
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4.1	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	0.51	5.0	0.24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	1.9	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		79-117%
17060-07-0	1,2-Dichloroethane-D4	96%		72-123%
2037-26-5	Toluene-D8	97%		82-118%
460-00-4	4-Bromofluorobenzene	104%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW182(HS-D)		
Lab Sample ID:	JB52896-27	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E96893.D	1	11/16/13	TYG	n/a	n/a	V2E4370
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.9	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	0.42	5.0	0.24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	1.4	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		79-117%
17060-07-0	1,2-Dichloroethane-D4	97%		72-123%
2037-26-5	Toluene-D8	98%		82-118%
460-00-4	4-Bromofluorobenzene	105%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW181C(126)		
Lab Sample ID:	JB52896-28	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E96894.D	1	11/16/13	TYG	n/a	n/a	V2E4370
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.31	1.0	0.28	ug/l	J
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	12.4	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.44	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.79	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		79-117%
17060-07-0	1,2-Dichloroethane-D4	96%		72-123%
2037-26-5	Toluene-D8	97%		82-118%
460-00-4	4-Bromofluorobenzene	104%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW181C(179)		
Lab Sample ID:	JB52896-29	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E96895.D	1	11/16/13	TYG	n/a	n/a	V2E4370
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	17.7	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	0.27	5.0	0.24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	0.86	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.88	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		79-117%
17060-07-0	1,2-Dichloroethane-D4	97%		72-123%
2037-26-5	Toluene-D8	98%		82-118%
460-00-4	4-Bromofluorobenzene	105%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW181C(187)		
Lab Sample ID:	JB52896-30	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E96896.D	1	11/16/13	TYG	n/a	n/a	V2E4370
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	17.2	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	0.26	5.0	0.24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	0.85	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.93	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-117%
17060-07-0	1,2-Dichloroethane-D4	99%		72-123%
2037-26-5	Toluene-D8	98%		82-118%
460-00-4	4-Bromofluorobenzene	105%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW181C(215)		
Lab Sample ID:	JB52896-31	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A141239.D	1	11/15/13	CC	n/a	n/a	V2A6039
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	18.6	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	0.29	5.0	0.24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	1.4	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.92	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%
17060-07-0	1,2-Dichloroethane-D4	96%		72-123%
2037-26-5	Toluene-D8	105%		82-118%
460-00-4	4-Bromofluorobenzene	93%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW181C(221)		
Lab Sample ID:	JB52896-32	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A141240.D	1	11/15/13	CC	n/a	n/a	V2A6039
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	18.0	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	0.26	5.0	0.24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	1.2	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.86	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-117%
17060-07-0	1,2-Dichloroethane-D4	96%		72-123%
2037-26-5	Toluene-D8	102%		82-118%
460-00-4	4-Bromofluorobenzene	91%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW181C(259.5)		
Lab Sample ID:	JB52896-33	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E96848.D	1	11/15/13	TYG	n/a	n/a	V2E4368
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	15.2	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	0.25	5.0	0.24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	0.62	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.89	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		79-117%
17060-07-0	1,2-Dichloroethane-D4	100%		72-123%
2037-26-5	Toluene-D8	98%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW181C(284.5)		
Lab Sample ID:	JB52896-34	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E97047.D	1	11/20/13	TYG	n/a	n/a	V2E4377
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	13.5	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.58	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.77	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-117%
17060-07-0	1,2-Dichloroethane-D4	101%		72-123%
2037-26-5	Toluene-D8	100%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW181C(291)		
Lab Sample ID:	JB52896-35	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E97048.D	1	11/20/13	TYG	n/a	n/a	V2E4377
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	12.5	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.44	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.74	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%
17060-07-0	1,2-Dichloroethane-D4	102%		72-123%
2037-26-5	Toluene-D8	99%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

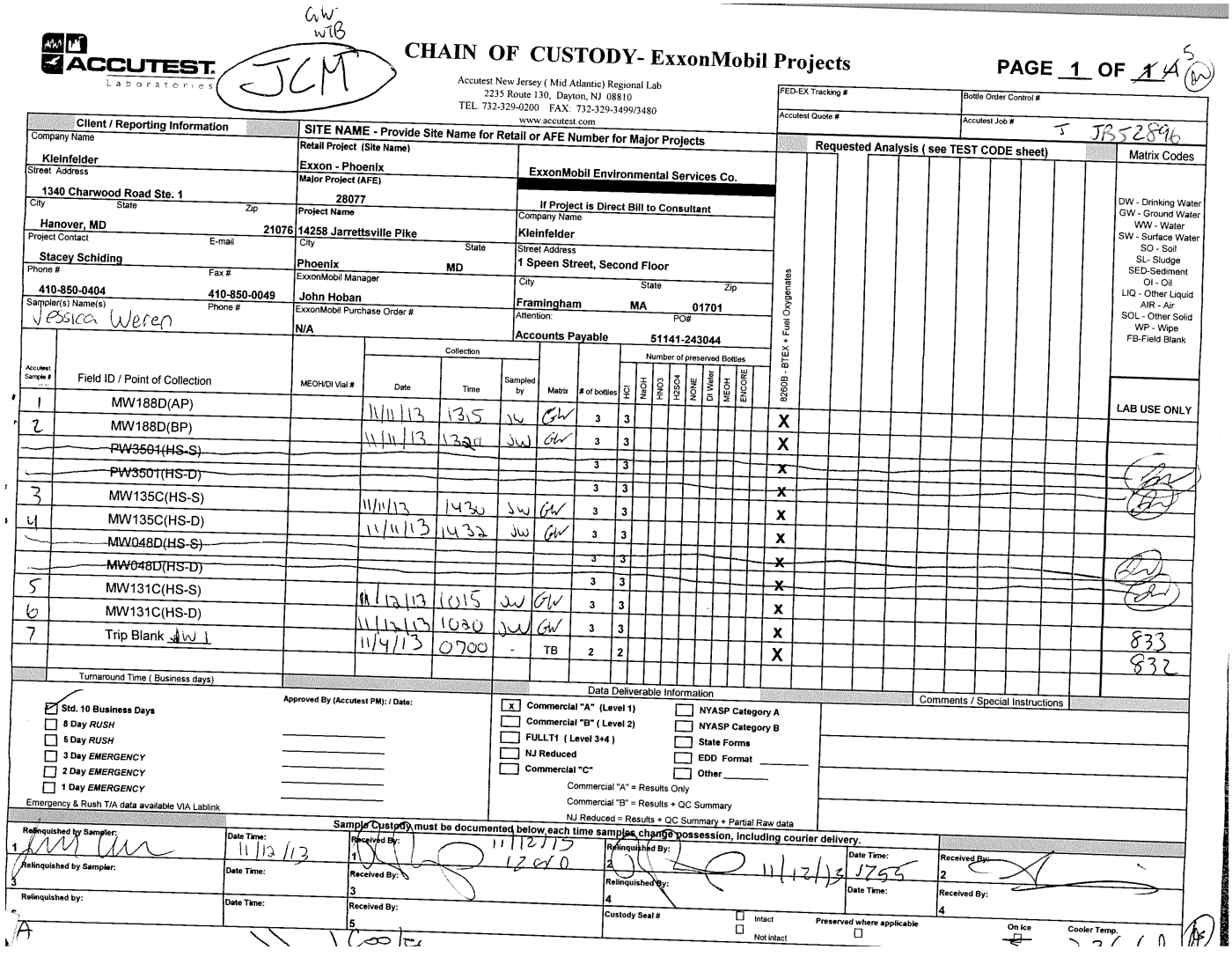
New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



GW
WTB

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CHAIN OF CUSTODY- ExxonMobil Projects

PAGE 1 OF ~~1~~ ~~4~~ 5

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #
Bottle Order Control #
Accutest Quote #
Accutest Job # J JB52896

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 #: 410-850-0404 Fax #: 410-850-0049
Sampler(s) Name(s) / Phone #: Jessica Weren

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: John Hoban
ExxonMobil Purchase Order #: N/A

ExxonMobil Environmental Services Co.
If Project is Direct Bill to Consultant
Company Name: Kleinfelder
Street Address: 1 Speen Street, Second Floor
City / State / Zip: Framingham MA 01701
Attention: Accounts Payable PO#: 51141-243044

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	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	8260B - BTEX + Fuel Oxygenates	LAB USE ONLY
1	MW188D(AP)		11/11/13	1315	JW	GW	3	3								X	
2	MW188D(BP)		11/11/13	1320	JW	GW	3	3								X	
	~~PW3501(HS-S)~~						3	3								X	
	~~PW3501(HS-D)~~						3	3								X	
3	MW135C(HS-S)		11/11/13	1430	JW	GW	3	3								X	
4	MW135C(HS-D)		11/11/13	1432	JW	GW	3	3								X	
	~~MW048D(HS-S)~~						3	3								X	
	~~MW048D(HS-D)~~						3	3								X	
5	MW131C(HS-S)		11/12/13	1015	JW	GW	3	3								X	
6	MW131C(HS-D)		11/12/13	1020	JW	GW	3	3								X	
7	Trip Blank JW 1		11/4/13	0700	-	TB	2	2								X	833
																	832

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 Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	11/12/13	1 [signature] 11/12/13 1200	2 [signature] 11/12/13	1755	2 [signature]
3		3	4		4
Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable	On Ice / Cooler Temp.
A		5	☐ Intact ☐ Not intact	☐	

Cooler

4.1

4

JB52896: Chain of Custody
Page 1 of 8

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CHAIN OF CUSTODY- ExxonMobil Projects

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB52896

Client / Reporting Information

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

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	John Hoban
ExxonMobil Purchase Order #	

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant

Company Name	Kleinfelder
Street Address	1 Speen Street, Second Floor
City / State / Zip	Framingham MA 01701
Attention: / PO#	Accounts Payable 51141-243044

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	V8260MDVO	LAB USE ONLY
8	MW036C(HS-S)		11/11/13	1510	JW	GW	3	X								X		
9	MW036C(HS-D)		11/11/13	1515	JW	GW	3	X								X		
10	MW047C(HS-S)		11/11/13	1125	JW	GW	3	X								X		
11	MW047C(HS-D)		11/11/13	1127	JW	GW	3	X								X		
12	MW171C(HS-S)		11/12/13	0932 ~~1030~~	JW	GW	3	X								X		
13	MW171C(HS-D)		11/12/13	0930 ~~1033~~	JW	GW	3	X								X		
14	MW179C(HS-S)		11/12/13	0945	JW	GW	3	X								X		
15	MW179C(HS-D)		11/12/13	0950	JW	GW	3	X								X		
16	MW180C(HS-S)		11/11/13	0952	JW	GW	3	X								X		
17	MW180C(HS-D)		11/11/13	0950	JW	GW	3	X								X		
18	MW176CC(HS)		11/11/13	1100	JW	GW	2	X								X		
	~~TRIPBLANK~~					TB	2	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 Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	11/12/13	1 [signature] 11/12/13 1240	2 [signature] 11/12/13	1755	2 [signature]
3		3	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not intact

Preserved where applicable ☐

On Ice ☑ Cooler Temp. 2.3 C

A

JB52896: Chain of Custody
Page 2 of 8

ACCUTEST Laboratories

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CHAIN OF CUSTODY- ExxonMobil Projects

PAGE 3 OF X 5

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking # | Bottle Order Control #

Accutest Quote # | Accutest Job # JB52896

Client / Reporting Information

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

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: John Hoban
ExxonMobil Purchase Order #

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name: Kleinfelder
Street Address: 1 Speen Street, Second Floor
City: Framingham, State: MA, Zip: 01701
Attention: | PO#: Accounts Payable 51141-243044

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	V8260MDVO	LAB USE ONLY
19	MW177(130)		11/11/13	1200	JW	GW	3	X								X		
20	MW177(143)		11/11/13	1202	JW	GW	3	X								X		
21	MW177(220)		11/11/13	1204	JW	GW	3	X								X		
22	MW177(228)		11/11/13	1206	JW	GW	3	X								X		
23	MW177(236)		11/11/13	1208	JW	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		11/12/13				
2			11/12/13 1240	11/12/13	1755	
3	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
4						
5	Relinquished by:	Date Time:	Received By:	Custody Seal #	Intact / Not Intact	Preserved where applicable

On Ice | Cooler Temp. 2.3C GR

ACCUTEST Laboratories

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CHAIN OF CUSTODY- ExxonMobil Projects

PAGE 4 OF 4 5

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB52896

Client / Reporting Information	SITE NAME - Provide Site Name for Retail or AFE Number for Major Projects	Requested Analysis (see TEST CODE sheet)
Company Name: Kleinfelder	Retail Project (Site Name): Exxon - Phoenix	ExxonMobil Environmental Services Co.
Street Address: 1340 Charwood Road Ste. 1	Major Project (AFE): 28077	If Project is Direct Bill to Consultant
City: Hanover, State: MD, Zip: 21076	Project Name: 14258 Jarrettsville Pike	Company Name: Kleinfelder
Project Contact: Sean Rochford, Stacey Schiding, E-mail:	City: Phoenix, State: MD	Street Address: 1 Speen Street, Second Floor
Phone #: Brand Rodenberg 410-850-0404, Fax #:	ExxonMobil Manager: John Hoban	City: Framingham, State: MA, Zip: 01701
Sampler(s) Name(s): Jessica Weron, Phone #:	ExxonMobil Purchase Order #:	Attention: Accounts Payable, PO#: 51141-243044

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	V8260MDVO	LAB USE ONLY
24	MW054C(HS-S)		9/18/13	1200	JW	GW	3	X								X		
25	MW054C(HS-D)		9/18/13	1205	JW	GW	3	X								X		
26	MW182(HS-S)		11/11/13	1010	JW	GW	3	X								X		
27	MW182(HS-D)		11/11/13	1012	JW	GW	3	X								X		

Turnaround Time (Business days): 40934

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 [signature]	11/12/13	1 [signature] 11/12/13 1240	2 [signature] 11/12/13	1755	2 [signature]
3		3	4		4
5		5	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐ On Ice ☒ Cooler Temp. 2.3C GP

1A

JB52896: Chain of Custody
Page 4 of 8

ACCUTEST Laboratories

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CHAIN OF CUSTODY- ExxonMobil Projects

PAGE 5 OF 5

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #	Bottle Order Control # JB52896
Accutest Quote #	Accutest Job # ~~TB5~~ 11/12/13

Client / Reporting Information

Company Name	Kleinfelder
Street Address	1340 Charwood Road Ste. 1
City / State / Zip	Hanover, MD 21076
Project Contact / E-mail	Sean Rochford, Stacey Schiding
Phone # / Fax #	410-850-0404 / 860-508-4663
Sampler(s) Name(s) / Phone #	Jessica Weron

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

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

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant

Company Name	Kleinfelder
Street Address	1 Speen Street, Second Floor
City / State / Zip	Framingham MA 01701
Attention: / PO#	Accounts Payable 51141-243044

Requested Analysis (see TEST CODE sheet)

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	V8260MDVO	LAB USE ONLY
28	MW181C(126)		11/12/13	0820	JW	GW	3	X								X		
29	MW181C(179)		11/12/13	0822	JW	GW	3	X								X		
30	MW181C(187)		11/12/13	0824	JW	GW	3	X								X		
31	MW181C(215)		11/12/13	0826	JW	GW	3	X								X		
32	MW181C(221)		11/12/13	0828	JW	GW	3	X								X		
33	MW181C(259.5)		11/12/13	0830	JW	GW	3	X								X		
34	MW181C(284.5)		11/12/13	0832	JW	GW	3	X								X		
35	MW181C(291)		11/12/13	0834	JW	GW	3	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

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 Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	11/12/13	1 [signature] 11/12/13 1210	2 [signature] 11/12/13	1755	2 [signature]
3		3	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not intact — Preserved where applicable ☐ — On Ice ☑ — Cooler Temp. 2.3C CP

4.1 4

JB52896: Chain of Custody
Page 5 of 8

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB52896 **Client:** KLEINFELDER - MD

Date / Time Received: 11/12/2013 1755 **Project:** PHOENIX

No. Coolers: 1 **Airbill #'s:** **Delivery Method:** Accutest Courier

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☐		☑

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☑
2. Trip Blank listed on COC:	☐		☑	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☐		☑

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments -24 & -25 Collection dates are 11/11/13 not 9/18/13 ID and time ok

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F: 732.329.3499

Dayton, NJ 0
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JB52896: Chain of Custody
Page 6 of 8

Accutest Job Number: JB52896

CSR: _____ **Response Date:** 11/13/2013

Response: Proceed with analysis

JB52896: Chain of Custody
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ACCUTEST Laboratories

JCM

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE 4 OF 4 5

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB52896 REVISED

Client / Reporting Information

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

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	John Hoban
ExxonMobil Purchase Order #	

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant

Company Name	Kleinfelder
Street Address	1 Speen Street, Second Floor
City / State / Zip	Framingham MA 01701
Attention: / PO#	Accounts Payable 51141-243044

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	V8260MDVO	LAB USE ONLY
24	MW054C(HS-S)	11/12/13	~~9/18/13~~ 11/14/13	1200	JW	GW	3	X								X		
25	MW054C(HS-D)	11/12/13	~~9/18/13~~	1205	JW	GW	3	X								X		
26	MW182(HS-S)		11/11/13	1010	JW	GW	3	X								X		
27	MW182(HS-D)		11/11/13	1012	JW	GW	3	X								X		

Turnaround Time (Business days): 40934

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 [signature]	11/12/13	11/12/13 1240	2 [signature] 11/12/13	1755	2 [signature]
3		3	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not Intact — Preserved where applicable ☐ — On Ice (B) — Cooler Temp. 2.3C GP

1A

15

4.1

4

JB52896: Chain of Custody
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New Jersey
ACCUTEST LABORATORIES

12/03/13



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO#51141-243044

Accutest Job Number: JB53307

Sampling Date: 11/15/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **10**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

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Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Sample Summary

ExxonMobil Corporation

Job No: JB53307

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#51141-243044

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB53307-1	11/15/13	08:30	CB	11/15/13	AQ	Ground Water	MW027B
JB53307-2	11/15/13	08:30	CB	11/15/13	AQ	Trip Blank Water	TRIP BLANK CB3

Summary of Hits

Job Number: JB53307
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 11/15/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB53307-1	**MW027B**					
Methyl Tert Butyl Ether		42.5	1.0	0.29	ug/l	SW846 8260B
Tert Butyl Alcohol		18.4 J	25	1.9	ug/l	SW846 8260B
Di-Isopropyl ether		0.32 J	5.0	0.24	ug/l	SW846 8260B
tert-Amyl Methyl Ether		3.4 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.93 J	5.0	0.25	ug/l	SW846 8260B
JB53307-2	**TRIP BLANK CB3**					

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW027B		
Lab Sample ID:	JB53307-1	**Date Sampled:**	11/15/13
Matrix:	AQ - Ground Water	**Date Received:**	11/15/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3B103156.D	1	11/26/13	MAH	n/a	n/a	V3B4792
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	42.5	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	18.4	25	1.9	ug/l	J
108-20-3	Di-Isopropyl ether	0.32	5.0	0.24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	3.4	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.93	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-117%
17060-07-0	1,2-Dichloroethane-D4	88%		72-123%
2037-26-5	Toluene-D8	102%		82-118%
460-00-4	4-Bromofluorobenzene	97%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK CB3		
Lab Sample ID:	JB53307-2	**Date Sampled:**	11/15/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/15/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D127537.D	1	11/23/13	CM	n/a	n/a	V2D5321
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		79-117%
17060-07-0	1,2-Dichloroethane-D4	92%		72-123%
2037-26-5	Toluene-D8	105%		82-118%
460-00-4	4-Bromofluorobenzene	102%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

GW
WTB

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE ___ OF ___

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB53307

Client / Reporting Information

Company Name	Kleinfelder
Street Address	1340 Charwood Road Ste. 1
City / State / Zip	Hanover, MD 21076
Project Contact / E-mail	Sean Rochford, 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	John Hoban
ExxonMobil Purchase Order #	

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant

Company Name	Kleinfelder
Street Address	1 Speen Street, Second Floor
City / State / Zip	Framingham MA 01701
Attention: / PO#	Accounts Payable 51141-243044

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	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	MTBE, BTEX, ETBE, TAME, DIPE, TBA by 8260B	V8260MDVO	LAB USE ONLY
1	MW027B		11/15/13	0830	CB	GW	3	X								X		897
2	TRIP BLANK CB3		10/28/13	0630		TB	2	X								X		

Tumaround 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 Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Charlie Brehm	11-15-13 1255	1 [signature]	2 [signature]	11-15-13 1755	2 [signature]
3		3	4		4
5		5	Custody Seal # ☐ Intact ☐ Not intact	Preserved where applicable ☐	On Ice ☑ Cooler Temp. 2.0CB

3A

4.1

4

JB53307: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB53307 **Client:** **Project:**

Date / Time Received: 11/15/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (2/2); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Bar Therm		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
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F: 732.329.3499

Dayton, New Jersey
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JB53307: Chain of Custody
Page 2 of 2

New Jersey
ACCUTEST LABORATORIES

Reissue #1
12/20/13



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

51141-243044

Accutest Job Number: JB55497

Sampling Dates: 12/09/13 - 12/10/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **14**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

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Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

December 20, 2013

Mr. Sean Rochford
Kleinfelder
1340 Charwood Road Suite
Hanover, MD 21076

RE: Accutest job JB55497 Reissue

Dear Mr. Rochford,

The final report for Accutest job number JB55497 has been edited to reflect corrections to the final results. These edits have been incorporated into the revised report which is attached.

Specifically, samples collection dates have been revised to match chain of custody. The attached revised report incorporates this revision.

We apologize for any inconvenience the above issue may have caused. Please contact me at 732-355-4550 if I can be of further assistance in this matter, or if you have any further questions regarding this data report.

Sincerely,

Matt Cordova

Accutest Laboratories

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Sample Summary

ExxonMobil Corporation

Job No: JB55497

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: 51141-243044

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB55497-1	12/09/13	11:15	JW	12/12/13	AQ	Ground Water	MW188D(AP)
JB55497-2	12/09/13	11:20	JW	12/12/13	AQ	Ground Water	MW188D(BP)
JB55497-3	12/10/13	12:00	JW	12/12/13	AQ	Ground Water	MW048D(HS-S)
JB55497-4	12/10/13	12:05	JW	12/12/13	AQ	Ground Water	MW048D(HS-D)
JB55497-5	12/10/13	12:05	JW	12/12/13	AQ	Trip Blank Water	TRIP BLANK CB1

Summary of Hits

Job Number: JB55497
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 12/09/13 thru 12/10/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB55497-1	**MW188D(AP)**					
Toluene		10.7	1.0	0.44	ug/l	SW846 8260B
Methyl Tert Butyl Ether		1.5	1.0	0.29	ug/l	SW846 8260B
JB55497-2	**MW188D(BP)**					
Toluene		1.9	1.0	0.44	ug/l	SW846 8260B
Methyl Tert Butyl Ether		23.0	1.0	0.29	ug/l	SW846 8260B
Tert Butyl Alcohol		4.4 J	25	1.9	ug/l	SW846 8260B
tert-Amyl Methyl Ether		1.9 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.44 J	5.0	0.25	ug/l	SW846 8260B
JB55497-3	**MW048D(HS-S)**					
No hits reported in this sample.						
JB55497-4	**MW048D(HS-D)**					
No hits reported in this sample.						
JB55497-5	**TRIP BLANK CB1**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW188D(AP)		
Lab Sample ID:	JB55497-1	**Date Sampled:**	12/09/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A126593.D	1	12/14/13	TS	n/a	n/a	V3A5471
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	10.7	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.5	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-117%
17060-07-0	1,2-Dichloroethane-D4	80%		72-123%
2037-26-5	Toluene-D8	105%		82-118%
460-00-4	4-Bromofluorobenzene	96%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW188D(BP)		
Lab Sample ID:	JB55497-2	**Date Sampled:**	12/09/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A126594.D	1	12/14/13	TS	n/a	n/a	V3A5471
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	1.9	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	23.0	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	4.4	25	1.9	ug/l	J
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	1.9	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.44	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-117%
17060-07-0	1,2-Dichloroethane-D4	80%		72-123%
2037-26-5	Toluene-D8	104%		82-118%
460-00-4	4-Bromofluorobenzene	97%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW048D(HS-S)		
Lab Sample ID:	JB55497-3	**Date Sampled:**	12/10/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A126595.D	1	12/14/13	TS	n/a	n/a	V3A5471
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		79-117%
17060-07-0	1,2-Dichloroethane-D4	81%		72-123%
2037-26-5	Toluene-D8	105%		82-118%
460-00-4	4-Bromofluorobenzene	98%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW048D(HS-D)		
Lab Sample ID:	JB55497-4	**Date Sampled:**	12/10/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A126596.D	1	12/14/13	TS	n/a	n/a	V3A5471
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-117%
17060-07-0	1,2-Dichloroethane-D4	80%		72-123%
2037-26-5	Toluene-D8	106%		82-118%
460-00-4	4-Bromofluorobenzene	95%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK CB1		
Lab Sample ID:	JB55497-5	**Date Sampled:**	12/10/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A126597.D	1	12/14/13	TS	n/a	n/a	V3A5471
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-117%
17060-07-0	1,2-Dichloroethane-D4	80%		72-123%
2037-26-5	Toluene-D8	105%		82-118%
460-00-4	4-Bromofluorobenzene	96%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

GW
WB
///

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE ___ OF ___

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: JB55497

Client / Reporting Information

Company Name: Kleinfelder
Street Address: 1340 Charwood Road Ste. 1
City: Hanover, MD State: Zip: 21076
Project Contact: Sean Rochford, Stacey Schiding E-mail:
Phone #: 410-850-0404 Fax #:
Sampler(s) Name(s): Chris Cresci 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: John Hoban
ExxonMobil Purchase Order #:

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name: Kleinfelder
Street Address: 1 Speen Street, Second Floor
City: Framingham State: MA Zip: 01701
Attention: Accounts Payable PO#: 51141-243044

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	VB260MDVO	LAB USE ONLY
1	MW188D(AP)		12/9/13	1115	JW	GW	3	X								X		
2	MW188D(BP)		12/9/13	1120	JW	GW	3	X								X		
3	MW048D(HS-S)		12/10/13	1200	CC	GW	3	X								X		Z299H
4	MW048D(HS-D)		12/10/13	1205	CC	GW	3	X								X		
5	TRIP Blank (CB)		11/25/13	0900		TB	2	HCl								11		

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] 8 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [X] 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			12-12-13	2	1750	2
3	Relinquished by Sampler:	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal # N/A ☐ Intact ☐ Not intact	Preserved where applicable ☐	On Ice ☒ Cooler Temp. 2.5

4.1
4

JB55497: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB55497 **Client:** **Project:**

Date / Time Received: 12/12/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (2.8/2.8); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB55497: Chain of Custody
Page 2 of 2

New Jersey
ACCUTEST
LABORATORIES

12/26/13



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

51141-243044

Accutest Job Number: JB55509

Sampling Dates: 12/09/13 - 12/10/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **47**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

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Sample Summary

ExxonMobil Corporation

Job No: JB55509

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: 51141-243044

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB55509-1	12/09/13	11:20	CC	12/12/13	AQ	Ground Water	MW036C(HS-S)
JB55509-2	12/09/13	11:15	CC	12/12/13	AQ	Ground Water	MW036C(HS-D)
JB55509-3	12/10/13	09:45	CC	12/12/13	AQ	Ground Water	MW171C(HS-S)
JB55509-4	12/10/13	09:40	CC	12/12/13	AQ	Ground Water	MW171C(HS-D)
JB55509-5	12/10/13	11:30	CC	12/12/13	AQ	Ground Water	MW135C(HS-S)
JB55509-6	12/10/13	11:35	CC	12/12/13	AQ	Ground Water	MW135C(HS-D)
JB55509-7	12/10/13	12:30	CC	12/12/13	AQ	Ground Water	MW131C(HS-S)
JB55509-8	12/10/13	12:32	CC	12/12/13	AQ	Ground Water	MW131C(HS-D)
JB55509-9	12/10/13	08:30	CC	12/12/13	AQ	Ground Water	MW177(130)
JB55509-10	12/10/13	08:32	CC	12/12/13	AQ	Ground Water	MW177(143)
JB55509-11	12/10/13	08:34	CC	12/12/13	AQ	Ground Water	MW177(220)
JB55509-12	12/10/13	08:36	CC	12/12/13	AQ	Ground Water	MW177(228)
JB55509-13	12/10/13	08:38	CC	12/12/13	AQ	Ground Water	MW177(236)

Sample Summary
(continued)

ExxonMobil Corporation

Job No: JB55509

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: 51141-243044

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB55509-14	12/09/13	10:00	CC	12/12/13	AQ	Ground Water	MW181C(126)
JB55509-15	12/09/13	10:02	CC	12/12/13	AQ	Ground Water	MW181C(179)
JB55509-16	12/09/13	10:04	CC	12/12/13	AQ	Ground Water	MW181C(187)
JB55509-17	12/09/13	10:06	CC	12/12/13	AQ	Ground Water	MW181C(215)
JB55509-18	12/09/13	10:08	CC	12/12/13	AQ	Ground Water	MW181C(221)
JB55509-19	12/09/13	10:10	CC	12/12/13	AQ	Ground Water	MW181C(259.5)
JB55509-20	12/09/13	10:12	CC	12/12/13	AQ	Ground Water	MW181C(284.5)
JB55509-21	12/09/13	10:14	CC	12/12/13	AQ	Ground Water	MW181C(291)
JB55509-22	12/10/13	09:22	CC	12/12/13	AQ	Ground Water	MW047C(HS-S)
JB55509-23	12/10/13	09:20	CC	12/12/13	AQ	Ground Water	MW047C(HS-D)
JB55509-24	12/10/13	10:12	CC	12/12/13	AQ	Ground Water	MW179C(HS-S)
JB55509-25	12/10/13	10:10	CC	12/12/13	AQ	Ground Water	MW179C(HS-D)
JB55509-26	12/10/13	10:37	CC	12/12/13	AQ	Ground Water	MW180C(HS-S)

Sample Summary
(continued)

ExxonMobil Corporation

Job No: JB55509

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: 51141-243044

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB55509-27	12/10/13	10:35	CC	12/12/13	AQ	Ground Water	MW180C(HS-D)
JB55509-28	12/10/13	09:00	CC	12/12/13	AQ	Ground Water	MW176CC(HS)
JB55509-29	12/10/13	11:00	CC	12/12/13	AQ	Ground Water	MW182(HS-S)
JB55509-30	12/10/13	11:05	CC	12/12/13	AQ	Ground Water	MW182(HS-D)
JB55509-31	12/10/13	12:32	CC	12/12/13	AQ	Trip Blank Water	TRIPBLANK CC1

Summary of Hits

Job Number: JB55509
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 12/09/13 thru 12/10/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB55509-1	**MW036C(HS-S)**					
Methyl Tert Butyl Ether		1.9	1.0	0.29	ug/l	SW846 8260B
JB55509-2	**MW036C(HS-D)**					
Methyl Tert Butyl Ether		2.0	1.0	0.29	ug/l	SW846 8260B
JB55509-3	**MW171C(HS-S)**					
Methyl Tert Butyl Ether		2.0	1.0	0.29	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.86 J	5.0	0.25	ug/l	SW846 8260B
JB55509-4	**MW171C(HS-D)**					
Methyl Tert Butyl Ether		2.3	1.0	0.29	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		1.0 J	5.0	0.25	ug/l	SW846 8260B
JB55509-5	**MW135C(HS-S)**					
Toluene		0.59 J	1.0	0.44	ug/l	SW846 8260B
JB55509-6	**MW135C(HS-D)**					
Toluene		0.81 J	1.0	0.44	ug/l	SW846 8260B
JB55509-7	**MW131C(HS-S)**					
Toluene		0.64 J	1.0	0.44	ug/l	SW846 8260B
JB55509-8	**MW131C(HS-D)**					
Toluene		0.62 J	1.0	0.44	ug/l	SW846 8260B
JB55509-9	**MW177(130)**					
Methyl Tert Butyl Ether		3.3	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		0.35 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.39 J	5.0	0.25	ug/l	SW846 8260B
JB55509-10	**MW177(143)**					
No hits reported in this sample.						

Summary of Hits

Job Number: JB55509
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 12/09/13 thru 12/10/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB55509-11	**MW177(220)**					
Methyl Tert Butyl Ether		0.38 J	1.0	0.29	ug/l	SW846 8260B
JB55509-12	**MW177(228)**					
Methyl Tert Butyl Ether		0.33 J	1.0	0.29	ug/l	SW846 8260B
JB55509-13	**MW177(236)**					
No hits reported in this sample.						
JB55509-14	**MW181C(126)**					
Benzene		0.38 J	1.0	0.28	ug/l	SW846 8260B
Methyl Tert Butyl Ether		12.0	1.0	0.29	ug/l	SW846 8260B
Di-Isopropyl ether		0.27 J	5.0	0.24	ug/l	SW846 8260B
tert-Amyl Methyl Ether		0.79 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.96 J	5.0	0.25	ug/l	SW846 8260B
JB55509-15	**MW181C(179)**					
Methyl Tert Butyl Ether		17.2	1.0	0.29	ug/l	SW846 8260B
Di-Isopropyl ether		0.34 J	5.0	0.24	ug/l	SW846 8260B
tert-Amyl Methyl Ether		1.5 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		1.1 J	5.0	0.25	ug/l	SW846 8260B
JB55509-16	**MW181C(187)**					
Methyl Tert Butyl Ether		15.2	1.0	0.29	ug/l	SW846 8260B
Di-Isopropyl ether		0.34 J	5.0	0.24	ug/l	SW846 8260B
tert-Amyl Methyl Ether		1.1 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		1.1 J	5.0	0.25	ug/l	SW846 8260B
JB55509-17	**MW181C(215)**					
Methyl Tert Butyl Ether		14.8	1.0	0.29	ug/l	SW846 8260B
Di-Isopropyl ether		0.30 J	5.0	0.24	ug/l	SW846 8260B
tert-Amyl Methyl Ether		1.1 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		1.1 J	5.0	0.25	ug/l	SW846 8260B
JB55509-18	**MW181C(221)**					
Methyl Tert Butyl Ether		17.1	1.0	0.29	ug/l	SW846 8260B
Di-Isopropyl ether		0.39 J	5.0	0.24	ug/l	SW846 8260B

Summary of Hits

Job Number: JB55509
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 12/09/13 thru 12/10/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
tert-Amyl Methyl Ether		1.3 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		1.2 J	5.0	0.25	ug/l	SW846 8260B
JB55509-19	**MW181C(259.5)**					
Methyl Tert Butyl Ether		15.5	1.0	0.29	ug/l	SW846 8260B
Di-Isopropyl ether		0.33 J	5.0	0.24	ug/l	SW846 8260B
tert-Amyl Methyl Ether		1.1 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		1.1 J	5.0	0.25	ug/l	SW846 8260B
JB55509-20	**MW181C(284.5)**					
Methyl Tert Butyl Ether		15.8	1.0	0.29	ug/l	SW846 8260B
Di-Isopropyl ether		0.35 J	5.0	0.24	ug/l	SW846 8260B
tert-Amyl Methyl Ether		1.5 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		1.2 J	5.0	0.25	ug/l	SW846 8260B
JB55509-21	**MW181C(291)**					
Methyl Tert Butyl Ether		16.3	1.0	0.29	ug/l	SW846 8260B
Di-Isopropyl ether		0.33 J	5.0	0.24	ug/l	SW846 8260B
tert-Amyl Methyl Ether		1.4 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		1.1 J	5.0	0.25	ug/l	SW846 8260B
JB55509-22	**MW047C(HS-S)**					
Methyl Tert Butyl Ether		12.8	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		0.84 J	5.0	0.20	ug/l	SW846 8260B
JB55509-23	**MW047C(HS-D)**					
Methyl Tert Butyl Ether		13.1	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		0.85 J	5.0	0.20	ug/l	SW846 8260B
JB55509-24	**MW179C(HS-S)**					
Methyl Tert Butyl Ether		18.3	1.0	0.29	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		4.2 J	5.0	0.25	ug/l	SW846 8260B
JB55509-25	**MW179C(HS-D)**					
Methyl Tert Butyl Ether		36.1	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		0.41 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		5.9	5.0	0.25	ug/l	SW846 8260B

Summary of Hits

Job Number: JB55509
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 12/09/13 thru 12/10/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB55509-26	**MW180C(HS-S)**					
Methyl Tert Butyl Ether		9.9	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		0.61 J	5.0	0.20	ug/l	SW846 8260B
JB55509-27	**MW180C(HS-D)**					
Methyl Tert Butyl Ether		9.3	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		0.53 J	5.0	0.20	ug/l	SW846 8260B
JB55509-28	**MW176CC(HS)**					
Methyl Tert Butyl Ether		10.2	1.0	0.29	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.36 J	5.0	0.25	ug/l	SW846 8260B
JB55509-29	**MW182(HS-S)**					
Methyl Tert Butyl Ether		3.6	1.0	0.29	ug/l	SW846 8260B
Di-Isopropyl ether		0.61 J	5.0	0.24	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		2.1 J	5.0	0.25	ug/l	SW846 8260B
JB55509-30	**MW182(HS-D)**					
Methyl Tert Butyl Ether		3.5	1.0	0.29	ug/l	SW846 8260B
Di-Isopropyl ether		0.61 J	5.0	0.24	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		2.0 J	5.0	0.25	ug/l	SW846 8260B
JB55509-31	**TRIPBLANK CC1**					

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW036C(HS-S)		
Lab Sample ID:	JB55509-1	**Date Sampled:**	12/09/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187124.D	1	12/17/13	TDN	n/a	n/a	VC6786
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.9	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-117%
17060-07-0	1,2-Dichloroethane-D4	85%		72-123%
2037-26-5	Toluene-D8	87%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW036C(HS-D)		
Lab Sample ID:	JB55509-2	**Date Sampled:**	12/09/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187125.D	1	12/17/13	TDN	n/a	n/a	VC6786
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.0	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-117%
17060-07-0	1,2-Dichloroethane-D4	85%		72-123%
2037-26-5	Toluene-D8	86%		82-118%
460-00-4	4-Bromofluorobenzene	105%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW171C(HS-S)		
Lab Sample ID:	JB55509-3	**Date Sampled:**	12/10/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187210.D	1	12/19/13	TDN	n/a	n/a	VC6790
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.0	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	0.86	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-117%
17060-07-0	1,2-Dichloroethane-D4	85%		72-123%
2037-26-5	Toluene-D8	87%		82-118%
460-00-4	4-Bromofluorobenzene	105%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW171C(HS-D)		
Lab Sample ID:	JB55509-4	**Date Sampled:**	12/10/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187211.D	1	12/19/13	TDN	n/a	n/a	VC6790
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.3	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	1.0	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-117%
17060-07-0	1,2-Dichloroethane-D4	85%		72-123%
2037-26-5	Toluene-D8	87%		82-118%
460-00-4	4-Bromofluorobenzene	105%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW135C(HS-S)		
Lab Sample ID:	JB55509-5	**Date Sampled:**	12/10/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187212.D	1	12/19/13	TDN	n/a	n/a	VC6790
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	0.59	1.0	0.44	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-117%
17060-07-0	1,2-Dichloroethane-D4	84%		72-123%
2037-26-5	Toluene-D8	86%		82-118%
460-00-4	4-Bromofluorobenzene	105%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW135C(HS-D)		
Lab Sample ID:	JB55509-6	**Date Sampled:**	12/10/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187213.D	1	12/19/13	TDN	n/a	n/a	VC6790
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	0.81	1.0	0.44	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		79-117%
17060-07-0	1,2-Dichloroethane-D4	85%		72-123%
2037-26-5	Toluene-D8	86%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW131C(HS-S)		
Lab Sample ID:	JB55509-7	**Date Sampled:**	12/10/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187133.D	1	12/17/13	TDN	n/a	n/a	VC6786
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	0.64	1.0	0.44	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-117%
17060-07-0	1,2-Dichloroethane-D4	85%		72-123%
2037-26-5	Toluene-D8	87%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW131C(HS-D)		
Lab Sample ID:	JB55509-8	**Date Sampled:**	12/10/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187134.D	1	12/17/13	TDN	n/a	n/a	VC6786
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	0.62	1.0	0.44	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		79-117%
17060-07-0	1,2-Dichloroethane-D4	84%		72-123%
2037-26-5	Toluene-D8	87%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW177(130)		
Lab Sample ID:	JB55509-9	**Date Sampled:**	12/10/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187214.D	1	12/19/13	TDN	n/a	n/a	VC6790
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.3	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.35	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.39	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-117%
17060-07-0	1,2-Dichloroethane-D4	84%		72-123%
2037-26-5	Toluene-D8	87%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW177(143)		
Lab Sample ID:	JB55509-10	**Date Sampled:**	12/10/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187215.D	1	12/19/13	TDN	n/a	n/a	VC6790
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-117%
17060-07-0	1,2-Dichloroethane-D4	85%		72-123%
2037-26-5	Toluene-D8	86%		82-118%
460-00-4	4-Bromofluorobenzene	105%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW177(220)		
Lab Sample ID:	JB55509-11	**Date Sampled:**	12/10/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187216.D	1	12/19/13	TDN	n/a	n/a	VC6790
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.38	1.0	0.29	ug/l	J
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		79-117%
17060-07-0	1,2-Dichloroethane-D4	85%		72-123%
2037-26-5	Toluene-D8	86%		82-118%
460-00-4	4-Bromofluorobenzene	105%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW177(228)		
Lab Sample ID:	JB55509-12	**Date Sampled:**	12/10/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187228.D	1	12/19/13	TDN	n/a	n/a	VC6791
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.33	1.0	0.29	ug/l	J
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-117%
17060-07-0	1,2-Dichloroethane-D4	84%		72-123%
2037-26-5	Toluene-D8	86%		82-118%
460-00-4	4-Bromofluorobenzene	104%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW177(236)		
Lab Sample ID:	JB55509-13	**Date Sampled:**	12/10/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187259.D	1	12/20/13	TDN	n/a	n/a	VC6793
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-117%
17060-07-0	1,2-Dichloroethane-D4	83%		72-123%
2037-26-5	Toluene-D8	86%		82-118%
460-00-4	4-Bromofluorobenzene	105%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW181C(126)		
Lab Sample ID:	JB55509-14	**Date Sampled:**	12/09/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187140.D	1	12/17/13	TDN	n/a	n/a	VC6786
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.38	1.0	0.28	ug/l	J
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	12.0	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	0.27	5.0	0.24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	0.79	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.96	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-117%
17060-07-0	1,2-Dichloroethane-D4	86%		72-123%
2037-26-5	Toluene-D8	86%		82-118%
460-00-4	4-Bromofluorobenzene	104%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	MW181C(179)		
Lab Sample ID:	JB55509-15	**Date Sampled:**	12/09/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187141.D	1	12/17/13	TDN	n/a	n/a	VC6786
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	17.2	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	0.34	5.0	0.24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	1.5	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	1.1	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		79-117%
17060-07-0	1,2-Dichloroethane-D4	84%		72-123%
2037-26-5	Toluene-D8	87%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW181C(187)		
Lab Sample ID:	JB55509-16	**Date Sampled:**	12/09/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187152.D	1	12/18/13	TDN	n/a	n/a	VC6787
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	15.2	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	0.34	5.0	0.24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	1.1	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	1.1	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-117%
17060-07-0	1,2-Dichloroethane-D4	86%		72-123%
2037-26-5	Toluene-D8	87%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW181C(215)		
Lab Sample ID:	JB55509-17	**Date Sampled:**	12/09/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187153.D	1	12/18/13	TDN	n/a	n/a	VC6787
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	14.8	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	0.30	5.0	0.24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	1.1	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	1.1	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		79-117%
17060-07-0	1,2-Dichloroethane-D4	86%		72-123%
2037-26-5	Toluene-D8	87%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW181C(221)		
Lab Sample ID:	JB55509-18	**Date Sampled:**	12/09/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187154.D	1	12/18/13	TDN	n/a	n/a	VC6787
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	17.1	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	0.39	5.0	0.24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	1.3	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	1.2	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-117%
17060-07-0	1,2-Dichloroethane-D4	85%		72-123%
2037-26-5	Toluene-D8	88%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW181C(259.5)		
Lab Sample ID:	JB55509-19	**Date Sampled:**	12/09/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187155.D	1	12/18/13	TDN	n/a	n/a	VC6787
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	15.5	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	0.33	5.0	0.24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	1.1	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	1.1	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-117%
17060-07-0	1,2-Dichloroethane-D4	85%		72-123%
2037-26-5	Toluene-D8	87%		82-118%
460-00-4	4-Bromofluorobenzene	107%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW181C(284.5)		
Lab Sample ID:	JB55509-20	**Date Sampled:**	12/09/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187156.D	1	12/18/13	TDN	n/a	n/a	VC6787
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	15.8	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	0.35	5.0	0.24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	1.5	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	1.2	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		79-117%
17060-07-0	1,2-Dichloroethane-D4	84%		72-123%
2037-26-5	Toluene-D8	87%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW181C(291)		
Lab Sample ID:	JB55509-21	**Date Sampled:**	12/09/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187157.D	1	12/18/13	TDN	n/a	n/a	VC6787
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	16.3	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	0.33	5.0	0.24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	1.4	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	1.1	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-117%
17060-07-0	1,2-Dichloroethane-D4	84%		72-123%
2037-26-5	Toluene-D8	87%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW047C(HS-S)		
Lab Sample ID:	JB55509-22	**Date Sampled:**	12/10/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187158.D	1	12/18/13	TDN	n/a	n/a	VC6787
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	12.8	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.84	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-117%
17060-07-0	1,2-Dichloroethane-D4	85%		72-123%
2037-26-5	Toluene-D8	87%		82-118%
460-00-4	4-Bromofluorobenzene	107%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW047C(HS-D)		
Lab Sample ID:	JB55509-23	**Date Sampled:**	12/10/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187159.D	1	12/18/13	TDN	n/a	n/a	VC6787
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	13.1	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.85	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-117%
17060-07-0	1,2-Dichloroethane-D4	84%		72-123%
2037-26-5	Toluene-D8	86%		82-118%
460-00-4	4-Bromofluorobenzene	107%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW179C(HS-S)		
Lab Sample ID:	JB55509-24	**Date Sampled:**	12/10/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187160.D	1	12/18/13	TDN	n/a	n/a	VC6787
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	18.3	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	4.2	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-117%
17060-07-0	1,2-Dichloroethane-D4	85%		72-123%
2037-26-5	Toluene-D8	86%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW179C(HS-D)		
Lab Sample ID:	JB55509-25	**Date Sampled:**	12/10/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187161.D	1	12/18/13	TDN	n/a	n/a	VC6787
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	36.1	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.41	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	5.9	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-117%
17060-07-0	1,2-Dichloroethane-D4	85%		72-123%
2037-26-5	Toluene-D8	86%		82-118%
460-00-4	4-Bromofluorobenzene	105%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW180C(HS-S)		
Lab Sample ID:	JB55509-26	**Date Sampled:**	12/10/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187162.D	1	12/18/13	TDN	n/a	n/a	VC6787
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	9.9	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.61	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		79-117%
17060-07-0	1,2-Dichloroethane-D4	87%		72-123%
2037-26-5	Toluene-D8	86%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW180C(HS-D)		
Lab Sample ID:	JB55509-27	**Date Sampled:**	12/10/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187163.D	1	12/18/13	TDN	n/a	n/a	VC6787
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	9.3	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.53	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		79-117%
17060-07-0	1,2-Dichloroethane-D4	86%		72-123%
2037-26-5	Toluene-D8	86%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW176CC(HS)		
Lab Sample ID:	JB55509-28	**Date Sampled:**	12/10/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187164.D	1	12/18/13	TDN	n/a	n/a	VC6787
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	10.2	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	0.36	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-117%
17060-07-0	1,2-Dichloroethane-D4	85%		72-123%
2037-26-5	Toluene-D8	87%		82-118%
460-00-4	4-Bromofluorobenzene	104%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW182(HS-S)		
Lab Sample ID:	JB55509-29	**Date Sampled:**	12/10/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187165.D	1	12/18/13	TDN	n/a	n/a	VC6787
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.6	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	0.61	5.0	0.24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	2.1	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-117%
17060-07-0	1,2-Dichloroethane-D4	84%		72-123%
2037-26-5	Toluene-D8	86%		82-118%
460-00-4	4-Bromofluorobenzene	105%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW182(HS-D)		
Lab Sample ID:	JB55509-30	**Date Sampled:**	12/10/13
Matrix:	AQ - Ground Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187166.D	1	12/18/13	TDN	n/a	n/a	VC6787
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.5	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	0.61	5.0	0.24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	2.0	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-117%
17060-07-0	1,2-Dichloroethane-D4	86%		72-123%
2037-26-5	Toluene-D8	87%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIPBLANK CC1		
Lab Sample ID:	JB55509-31	**Date Sampled:**	12/10/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C187236.D	1	12/19/13	TDN	n/a	n/a	VC6791
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-117%
17060-07-0	1,2-Dichloroethane-D4	84%		72-123%
2037-26-5	Toluene-D8	87%		82-118%
460-00-4	4-Bromofluorobenzene	104%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY- ExxonMobil Projects

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ACCUTEST Laboratories

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FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: JB55509

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): Chris Cresci 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: John Hoban
ExxonMobil Purchase Order #: N/A

ExxonMobil Environmental Services Co.
If Project is Direct Bill to Consultant
Company Name: Kleinfelder
Street Address: 1 Speen Street, Second Floor
City: Framingham State: MA Zip: 01701
Attention: Accounts Payable PO#: 51141-243044

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	8260B - BTEX + Fuel Oxygenates	LAB USE ONLY
1	MW036C(HS-S)		12/9/13	1120	JW	GW	3	3								X	
2	MW036C(HS-D)		12/9/13	1115	JW	GW	3	3								X	
3	MW171C(HS-S)		12/10/13	0945	CC	GW	3	3								X	2209R
4	MW171C(HS-D)		12/10/13	0940	CC	GW	3	3								X	2299R
5	MW135C(HS-S)		12/10/13	1130	CC	GW	3	3								X	
6	MW135C(HS-D)		12/10/13	1135	CC	GW	3	3								X	
	~~MW048D(HS-S)~~					GW	3	3								X (c)	
	~~MW048D(HS-D)~~					GW	3	3								X (c)	
7	MW131C(HS-S)		12/10/13	1230	CC	GW	3	3								X	
8	MW131C(HS-D)		12/10/13	1232	CC	GW	3	3								X	
	~~MW188D(AP)~~		12/9/13	0930		GW	3	3								X (c)	
	~~MW188D(BP)~~		12/9/13	0935	JW	GW	3	3								X (c)	

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			1	12-12-13 1750	12-12-13 1750	2
3	Relinquished by Sampler:	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal # 301 Intact / Not intact	Preserved where applicable	On Ice / Cooler Temp. 2.5

GW
2

CHAIN OF CUSTODY- ExxonMobil Projects

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ACCUTEST Laboratories

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #	Bottle Order Control # JB55509
Accutest Quote #	Accutest Job # JB55509

Client / Reporting Information

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

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: John Hoban
ExxonMobil Purchase Order #:

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name: Kleinfelder
Street Address: 1 Speen Street, Second Floor
City: Framingham State: MA Zip: 01701
Attention: Accounts Payable PO#: 51141-243044

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	V8260MDVO		LAB USE ONLY
1	MW177(130)		12/10/13	0830	CC	GW	3	X								X		9	
2	MW177(143)			0832	CC	GW	3	X								X		10	
3	MW177(220)			0834	CC	GW	3	X								X		11	
4	MW177(228)			0836	CC	GW	3	X								X		12	
5	MW177(236)			0838	CC	GW	3	X								X		13	

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)
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- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
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- [ ] NYASP Category B
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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			12-10-13	12-12-13	1750	
2	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3						
4	Relinquished by:	Date Time:	Received By:	Custody Seal #	Intact / Not Intact	Preserved where applicable
5						On Ice: Cooler Temp. 2.5c

2
GW

CHAIN OF CUSTODY- ExxonMobil Projects

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TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: JB55509

Client / Reporting Information

Company Name: Kleinfelder
Street Address: 1340 Charwood Road Ste. 1
City: Hanover, State: MD, Zip: 21076
Project Contact: Sean Rochford, Stacey Schiding | E-mail:
Phone #: 410-850-0404 | Fax #: 860-508-4663
Sampler(s) Name(s): Brand Rockenberg | Phone #:

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

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

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name: Kleinfelder
Street Address: 1 Speen Street, Second Floor
City: Framingham, State: MA, Zip: 01701
Attention: | PO#: Accounts Payable 51141-243044

Requested Analysis (see TEST CODE sheet)

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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: HDI	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	MTBE, BTEX, ETBE, TAME, DIPE, TBA by 8260B	V8260MDVO	LAB USE ONLY
1	MW181C(126)		12/9/13	1000	BR	GW	3	X								X	14	
2	MW181C(179)		12/9/13	1002	BR	GW	3	X								X	15	
3	MW181C(187)		12/9/13	1004	BR	GW	3	X								X	16	
4	MW181C(215)		12/9/13	1006	BR	GW	3	X								X	17	
5	MW181C(221)		12/9/13	1008	BR	GW	3	X								X	18	
6	MW181C(259.5)		12/9/13	1010	BR	GW	3	X								X	19	
7	MW181C(284.5)		12/9/13	1012	BR	GW	3	X								X	20	
8	MW181C(291)		12/9/13	1014	BR	GW	3	X								X	21	

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*

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- [X] Commercial "A" (Level 1)
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- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
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- [ ] Other

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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: 1	Date Time:	Received By: 12-12-13	Relinquished By: 2 12-12-13	Date Time: 1750	Received By: 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	Custody Seal # ☐ Intact ☐ Not intact	Preserved where applicable ☐	On Ice ☑ Cooler Temp. 2.5c

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE ___ OF ___

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FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: JB55509

Client / Reporting Information

Company Name: Kleinfelder
Street Address: 1340 Charwood Road Ste. 1
City: Hanover, MD State: Zip: 21076
Project Contact: Sean Rochford, Stacey Schiding E-mail:
Phone #: 410-850-0404 Fax #:
Sampler(s) Name(s): Chris Crescl 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: John Hoban
ExxonMobil Purchase Order #:

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name: Kleinfelder
Street Address: 1 Speen Street, Second Floor
City: Framingham State: MA Zip: 01701
Attention: PO#: Accounts Payable 51141-243044

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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	V8260MDVO	LAB USE ONLY
MW047C(HS-S)		12/10/13	0922	CC	GW	3	X								X		22
MW047C(HS-D)			0920		GW	3	X								X		23
MW179C(HS-S)			1012		GW	3	X								X		24
MW179C(HS-D)			1010		GW	3	X								X		25
MW180C(HS-S)			1037		GW	3	X								X		26
MW180C(HS-D)			1035		GW	3	X								X		27
MW176CC(HS)			0900		GW	3	X								X		28
MW182(HS-S)			1100		GW	3	X								X		29
MW182(HS-D)			1105		GW	3	X								X		30
TRIPBLANK CC1		12/4/13	1100		TB	2	X								X		31

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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- [ ] State Forms
- [ ] EDD Format
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Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery. 12/12

	Relinquished by Sampler:	Date Time:	Received By:
1			12-12-13
2			12-12-13
3			
4			
5			

Relinquished By: | Date Time: 1750 | Received By:

Custody Seal # | [ ] Intact [ ] Not intact | Preserved where applicable [ ] | On Ice [✓] | Cooler Temp. 2.8 c

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB55509 **Client:** **Project:**

Date / Time Received: 12/12/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (2.8/2.8); 0#2: (2.8/2.8); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	2		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

New Jersey ACCUTEST LABORATORIES

12/30/13



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO # 51141-243044

Accutest Job Number: JB55688

Sampling Date: 12/12/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **27**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

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Accutest Laboratories

Sample Summary

ExxonMobil Corporation

Job No: JB55688

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO # 51141-243044

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB55688-1	12/12/13	13:10	CB	12/13/13	AQ	Ground Water	MW098A
JB55688-2	12/12/13	13:15	CB	12/13/13	AQ	Ground Water	MW098B
JB55688-3	12/12/13	13:50	CB	12/13/13	AQ	Ground Water	MW163B
JB55688-4	12/12/13	14:10	CB	12/13/13	AQ	Ground Water	MW053A
JB55688-5	12/12/13	14:15	CB	12/13/13	AQ	Ground Water	MW053B
JB55688-6	12/12/13	14:30	CB	12/13/13	AQ	Ground Water	MW056B
JB55688-7	12/12/13	14:35	CB	12/13/13	AQ	Ground Water	MW056A
JB55688-8	12/12/13	12:05	CB	12/13/13	AQ	Ground Water	MW005
JB55688-9	12/12/13	12:25	CB	12/13/13	AQ	Ground Water	MW004A
JB55688-10	12/12/13	12:40	CB	12/13/13	AQ	Ground Water	MW008
JB55688-11	12/12/13	11:35	CB	12/13/13	AQ	Ground Water	SVE002
JB55688-12	12/12/13	13:10	CB	12/13/13	AQ	Ground Water	MW012
JB55688-13	12/12/13	13:30	CB	12/13/13	AQ	Ground Water	MW014

Sample Summary
(continued)

ExxonMobil Corporation

Job No: JB55688

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO # 51141-243044

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB55688-14	12/12/13	14:00	CB	12/13/13	AQ	Ground Water	MW105
JB55688-15	12/12/13	15:20	CB	12/13/13	AQ	Ground Water	MW027B
JB55688-16	12/12/13	15:20	CB	12/13/13	AQ	Trip Blank Water	TRIP BLANK CC1

Summary of Hits

Job Number: JB55688
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 12/12/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB55688-1	**MW098A**					
No hits reported in this sample.						
JB55688-2	**MW098B**					
No hits reported in this sample.						
JB55688-3	**MW163B**					
Methyl Tert Butyl Ether		1.6	1.0	0.29	ug/l	SW846 8260B
JB55688-4	**MW053A**					
No hits reported in this sample.						
JB55688-5	**MW053B**					
Methyl Tert Butyl Ether		2.0	1.0	0.29	ug/l	SW846 8260B
JB55688-6	**MW056B**					
Methyl Tert Butyl Ether		0.61 J	1.0	0.29	ug/l	SW846 8260B
JB55688-7	**MW056A**					
No hits reported in this sample.						
JB55688-8	**MW005**					
No hits reported in this sample.						
JB55688-9	**MW004A**					
No hits reported in this sample.						
JB55688-10	**MW008**					
No hits reported in this sample.						
JB55688-11	**SVE002**					
Benzene		0.61 J	1.0	0.28	ug/l	SW846 8260B
Toluene		18.3	1.0	0.44	ug/l	SW846 8260B
Ethylbenzene		1.4	1.0	0.21	ug/l	SW846 8260B

Summary of Hits

Job Number: JB55688
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 12/12/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Xylene (total)		79.4	1.0	0.19	ug/l	SW846 8260B
Methyl Tert Butyl Ether		51.3	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		6.3	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.27 J	5.0	0.25	ug/l	SW846 8260B
JB55688-12	**MW012**					
No hits reported in this sample.						
JB55688-13	**MW014**					
Benzene [a]		1560	10	2.8	ug/l	SW846 8260B
Toluene [a]		16700	100	44	ug/l	SW846 8260B
Ethylbenzene [a]		1190	10	2.1	ug/l	SW846 8260B
Xylene (total) [a]		3630	10	1.9	ug/l	SW846 8260B
Methyl Tert Butyl Ether [a]		1130	10	2.9	ug/l	SW846 8260B
Di-Isopropyl ether [a]		3.6 J	50	2.4	ug/l	SW846 8260B
tert-Amyl Methyl Ether [a]		85.5	50	2.0	ug/l	SW846 8260B
tert-Butyl Ethyl Ether [a]		11.1 J	50	2.5	ug/l	SW846 8260B
JB55688-14	**MW105**					
No hits reported in this sample.						
JB55688-15	**MW027B**					
Toluene		0.50 J	1.0	0.44	ug/l	SW846 8260B
Methyl Tert Butyl Ether		9.4	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		0.33 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.53 J	5.0	0.25	ug/l	SW846 8260B
JB55688-16	**TRIP BLANK CC1**					
No hits reported in this sample.						

(a) Sample analyzed outside the holding time due to scheduling error.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW098A		
Lab Sample ID:	JB55688-1	**Date Sampled:**	12/12/13
Matrix:	AQ - Ground Water	**Date Received:**	12/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B114916.D	1	12/20/13	KC	n/a	n/a	V2B5229
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-117%
17060-07-0	1,2-Dichloroethane-D4	111%		72-123%
2037-26-5	Toluene-D8	99%		82-118%
460-00-4	4-Bromofluorobenzene	100%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW098B		
Lab Sample ID:	JB55688-2	**Date Sampled:**	12/12/13
Matrix:	AQ - Ground Water	**Date Received:**	12/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B114917.D	1	12/20/13	KC	n/a	n/a	V2B5229
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-117%
17060-07-0	1,2-Dichloroethane-D4	110%		72-123%
2037-26-5	Toluene-D8	99%		82-118%
460-00-4	4-Bromofluorobenzene	101%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW163B		
Lab Sample ID:	JB55688-3	**Date Sampled:**	12/12/13
Matrix:	AQ - Ground Water	**Date Received:**	12/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B114918.D	1	12/20/13	KC	n/a	n/a	V2B5229
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.6	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-117%
17060-07-0	1,2-Dichloroethane-D4	111%		72-123%
2037-26-5	Toluene-D8	99%		82-118%
460-00-4	4-Bromofluorobenzene	100%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW053A		
Lab Sample ID:	JB55688-4	**Date Sampled:**	12/12/13
Matrix:	AQ - Ground Water	**Date Received:**	12/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B114919.D	1	12/20/13	KC	n/a	n/a	V2B5229
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-117%
17060-07-0	1,2-Dichloroethane-D4	111%		72-123%
2037-26-5	Toluene-D8	97%		82-118%
460-00-4	4-Bromofluorobenzene	100%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW053B		
Lab Sample ID:	JB55688-5	**Date Sampled:**	12/12/13
Matrix:	AQ - Ground Water	**Date Received:**	12/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B114920.D	1	12/20/13	KC	n/a	n/a	V2B5229
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.0	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-117%
17060-07-0	1,2-Dichloroethane-D4	111%		72-123%
2037-26-5	Toluene-D8	99%		82-118%
460-00-4	4-Bromofluorobenzene	100%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW056B		
Lab Sample ID:	JB55688-6	**Date Sampled:**	12/12/13
Matrix:	AQ - Ground Water	**Date Received:**	12/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B114921.D	1	12/20/13	KC	n/a	n/a	V2B5229
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.61	1.0	0.29	ug/l	J
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-117%
17060-07-0	1,2-Dichloroethane-D4	112%		72-123%
2037-26-5	Toluene-D8	99%		82-118%
460-00-4	4-Bromofluorobenzene	99%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW056A		
Lab Sample ID:	JB55688-7	**Date Sampled:**	12/12/13
Matrix:	AQ - Ground Water	**Date Received:**	12/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B114922.D	1	12/20/13	KC	n/a	n/a	V2B5229
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-117%
17060-07-0	1,2-Dichloroethane-D4	111%		72-123%
2037-26-5	Toluene-D8	99%		82-118%
460-00-4	4-Bromofluorobenzene	99%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW005		
Lab Sample ID:	JB55688-8	**Date Sampled:**	12/12/13
Matrix:	AQ - Ground Water	**Date Received:**	12/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B114923.D	1	12/20/13	KC	n/a	n/a	V2B5229
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-117%
17060-07-0	1,2-Dichloroethane-D4	111%		72-123%
2037-26-5	Toluene-D8	99%		82-118%
460-00-4	4-Bromofluorobenzene	99%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW004A		
Lab Sample ID:	JB55688-9	**Date Sampled:**	12/12/13
Matrix:	AQ - Ground Water	**Date Received:**	12/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B114924.D	1	12/20/13	KC	n/a	n/a	V2B5229
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-117%
17060-07-0	1,2-Dichloroethane-D4	111%		72-123%
2037-26-5	Toluene-D8	100%		82-118%
460-00-4	4-Bromofluorobenzene	100%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW008		
Lab Sample ID:	JB55688-10	**Date Sampled:**	12/12/13
Matrix:	AQ - Ground Water	**Date Received:**	12/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B114925.D	1	12/20/13	KC	n/a	n/a	V2B5229
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-117%
17060-07-0	1,2-Dichloroethane-D4	110%		72-123%
2037-26-5	Toluene-D8	99%		82-118%
460-00-4	4-Bromofluorobenzene	100%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVE002		
Lab Sample ID:	JB55688-11	**Date Sampled:**	12/12/13
Matrix:	AQ - Ground Water	**Date Received:**	12/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B114949.D	1	12/20/13	KC	n/a	n/a	V2B5230
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.61	1.0	0.28	ug/l	J
108-88-3	Toluene	18.3	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	1.4	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	79.4	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	51.3	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	6.3	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	0.27	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-117%
17060-07-0	1,2-Dichloroethane-D4	111%		72-123%
2037-26-5	Toluene-D8	101%		82-118%
460-00-4	4-Bromofluorobenzene	96%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW012		
Lab Sample ID:	JB55688-12	**Date Sampled:**	12/12/13
Matrix:	AQ - Ground Water	**Date Received:**	12/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B114926.D	1	12/20/13	KC	n/a	n/a	V2B5229
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-117%
17060-07-0	1,2-Dichloroethane-D4	110%		72-123%
2037-26-5	Toluene-D8	99%		82-118%
460-00-4	4-Bromofluorobenzene	99%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW014		
Lab Sample ID:	JB55688-13	**Date Sampled:**	12/12/13
Matrix:	AQ - Ground Water	**Date Received:**	12/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2B115144.D	10	12/27/13	KC	n/a	n/a	V2B5239
Run #2 [a]	2B115145.D	50	12/27/13	KC	n/a	n/a	V2B5239
Run #3 [a]	2B115148.D	100	12/27/13	KC	n/a	n/a	V2B5239

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml
Run #3	5.0 ml

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1560	10	2.8	ug/l	
108-88-3	Toluene	16700 [b]	100	44	ug/l	
100-41-4	Ethylbenzene	1190	10	2.1	ug/l	
1330-20-7	Xylene (total)	3630	10	1.9	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1130	10	2.9	ug/l	
75-65-0	Tert Butyl Alcohol	ND	250	19	ug/l	
108-20-3	Di-Isopropyl ether	3.6	50	2.4	ug/l	J
994-05-8	tert-Amyl Methyl Ether	85.5	50	2.0	ug/l	
637-92-3	tert-Butyl Ethyl Ether	11.1	50	2.5	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	102%	103%	102%	79-117%
17060-07-0	1,2-Dichloroethane-D4	100%	102%	101%	72-123%
2037-26-5	Toluene-D8	100%	98%	97%	82-118%
460-00-4	4-Bromofluorobenzene	95%	95%	97%	75-118%

(a) Sample analyzed outside the holding time due to scheduling error.
(b) Result is from Run# 3

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW105		
Lab Sample ID:	JB55688-14	**Date Sampled:**	12/12/13
Matrix:	AQ - Ground Water	**Date Received:**	12/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B114927.D	1	12/20/13	KC	n/a	n/a	V2B5229
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-117%
17060-07-0	1,2-Dichloroethane-D4	112%		72-123%
2037-26-5	Toluene-D8	100%		82-118%
460-00-4	4-Bromofluorobenzene	99%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW027B		
Lab Sample ID:	JB55688-15	**Date Sampled:**	12/12/13
Matrix:	AQ - Ground Water	**Date Received:**	12/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B114928.D	1	12/20/13	KC	n/a	n/a	V2B5229
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	0.50	1.0	0.44	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	9.4	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.33	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.53	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-117%
17060-07-0	1,2-Dichloroethane-D4	111%		72-123%
2037-26-5	Toluene-D8	98%		82-118%
460-00-4	4-Bromofluorobenzene	99%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK CC1		
Lab Sample ID:	JB55688-16	**Date Sampled:**	12/12/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B114950.D	1	12/20/13	KC	n/a	n/a	V2B5230
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-117%
17060-07-0	1,2-Dichloroethane-D4	110%		72-123%
2037-26-5	Toluene-D8	99%		82-118%
460-00-4	4-Bromofluorobenzene	99%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY- ExxonMobil Projects

CC

PAGE ___ OF ___

ACCUTEST Laboratories

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

WTR
GW

FED-EX Tracking #

Bottle Order Control #

Accutest Quote #

Accutest Job # JB55688

Client / Reporting Information

Company Name: Kleinfelder
Street Address: 1340 Charwood Road Ste. 1
City: Hanover, MD State: Zip: 21076
Project Contact: Sean Rochford, 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: John Hoban
ExxonMobil Purchase Order #:

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name: Kleinfelder
Street Address: 1 Speen Street, Second Floor
City: Framingham State: MA Zip: 01701
Attention: Accounts Payable PO#: 51141-243044

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	V8260MDVO	LAB USE ONLY
1	MW098A		12/12/13	1310	CB	GW	3	X								X		
2	MW098B		12/12/13	1315	CB	GW	3	X								X		
3	MW163B		12/12/13	1350	CB	GW	3	X								X		
4	MW053A		12/12/13	1410	CB	GW	3	X								X		
5	MW053B		12/12/13	1415	CB	GW	3	X								X		939
6	MW056B		12/12/13	1430	CB	GW	3	X								X		
7	MW056A		12/12/13	1435	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

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	Charlie Brehm	12-13-13		2	12-13-13	
3			3	4		4
5			5			

Custody Seal # None ☐ Intact ☐ Not intact

Preserved where applicable ☐

On Ice ☐ Cooler Temp. 1.4

D.6

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE ___ OF ___

ACCUTEST Laboratories

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX. 732-329-3499/3480
www.accutest.com

FED-EX Tracking # | Bottle Order Control #

Accutest Quote # | Accutest Job # JB55688

Client / Reporting Information

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

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: John Hoban
ExxonMobil Purchase Order #:

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name: Kleinfelder
Street Address: 1 Speen Street, Second Floor
City / State / Zip: Framingham MA 01701
Attention: Accounts Payable
PO#: 51141-243044

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	V8260MDVO	LAB USE ONLY
8	MW005		12/12/13	1205	CC	GW	3	X								X		
9	MW004A		12/12/13	1225	CC	GW	3	X								X		
10	MW008		12/12/13	1240	CC	GW	3	X								X		
11	SVE002		12/12/13	1135	CC	GW	3	X								X		
12	MW012		12/12/13	1310	CC	GW	3	X								X		
13	MW014		12/12/13	1330	CC	GW	3	X								X		
14	MW105		12/12/13	1400	CC	GW	3	X								X		
15	MW027B		12/12/13	1520	CC	GW	3	X								X		
16	TRIP Blank KCCI		12/9/13	2000		FB	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		12-13-13 1245		2	12-13-13 1830	
3				4		
5						

Custody Seal # None ☐ Intact ☐ Not Intact | Preserved where applicable ☐ | On Ice ☐ | Cooler Temp. 1.4 C

JB55688: Chain of Custody
Page 2 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB55688 **Client:** **Project:**

Date / Time Received: 12/13/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (1.4/1.4); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control _Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB55688: Chain of Custody
Page 3 of 3

New Jersey
ACCUTEST LABORATORIES

01/07/14



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO#51141-243044

Accutest Job Number: JB56671

Sampling Date: 12/27/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **11**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

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Sample Summary

ExxonMobil Corporation

Job No: JB56671

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#51141-243044

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB56671-1	12/27/13	15:00	JCM	12/31/13	AQ	Ground Water	PW3501(HS-S)
JB56671-2	12/27/13	15:10	JCM	12/31/13	AQ	Ground Water	PW3501(HS-D)
JB56671-3	12/27/13	15:10	JCM	12/31/13	AQ	Trip Blank Water	TRIP BLANK JCM 1

Summary of Hits

Job Number: JB56671
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 12/27/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JB56671-1 **PW3501(HS-S)**

No hits reported in this sample.

JB56671-2 **PW3501(HS-D)**

No hits reported in this sample.

JB56671-3 **TRIP BLANK JCM 1**

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	PW3501(HS-S)		
Lab Sample ID:	JB56671-1	**Date Sampled:**	12/27/13
Matrix:	AQ - Ground Water	**Date Received:**	12/31/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A142784.D	1	01/02/14	CC	n/a	n/a	V2A6100
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-117%
17060-07-0	1,2-Dichloroethane-D4	98%		72-123%
2037-26-5	Toluene-D8	101%		82-118%
460-00-4	4-Bromofluorobenzene	86%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW3501(HS-D)		
Lab Sample ID:	JB56671-2	**Date Sampled:**	12/27/13
Matrix:	AQ - Ground Water	**Date Received:**	12/31/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A142785.D	1	01/02/14	CC	n/a	n/a	V2A6100
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-117%
17060-07-0	1,2-Dichloroethane-D4	98%		72-123%
2037-26-5	Toluene-D8	101%		82-118%
460-00-4	4-Bromofluorobenzene	87%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM 1		
Lab Sample ID:	JB56671-3	**Date Sampled:**	12/27/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/31/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A142783.D	1	01/02/14	CC	n/a	n/a	V2A6100
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-117%
17060-07-0	1,2-Dichloroethane-D4	98%		72-123%
2037-26-5	Toluene-D8	103%		82-118%
460-00-4	4-Bromofluorobenzene	86%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

(CC)

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE __ OF __

ACCUTEST Laboratories

Accutest New Jersey (Mid Atlantic) Regional Lab
Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

2235

WTB
GW

FED-EX Tracking #

Bottle Order Control #

Accutest Quote #

Accutest Job # JB56671

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: SeanRahter
Phone #: 410-850-0404 Fax #: 410-850-0049
Sampler(s) Name(s): Jonathan Mead 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: John Hoban
ExxonMobil Purchase Order #: N/A

ExxonMobil Environmental Services Co.

If Project is Direct Bill to Consultant
Company Name: Kleinfelder
Street Address: 1 Speen Street, Second Floor
City: Framingham State: MA Zip: 01701
Attention: PO#
Accounts Payable 51141-243044

Requested Analysis (see TEST CODE sheet)

8260B - BTEX + Fuel Oxygenates

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	LAB USE ONLY
1	PW3501(HS-S)		12/27/17	15:00	JCM	GW	3	3								X
2	PW3501(HS-D)		12/27/13	15,10	JCM	GW	3	3								X
3	Trip Blank JM 1		12/8/17	0660	-	TB	2	2								X
																2190

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

- [ ] Std. 10 Business Days
- [ ] 8 Day *RUSH*
- [x] 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

5-day Turn-Around Time

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

Relinquished by Sampler: Jonathan Mead	Date Time:	Received By: 1	12-31-13 1235	Relinquished By: 2	12-31-13 1650	Received By: Michael Pace	
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		Custody Seal #	Intact / Not intact	Preserved where applicable	On Ice: Cooler Temp: 3.4C

2A

1 Cooler B

GB

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB56671 **Client:** **Project:**

Date / Time Received: 12/31/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (3.4/3.4); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control _Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB56671: Chain of Custody
Page 2 of 2

New Jersey ACCUTEST LABORATORIES

01/27/14



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO#4410181426 80021012 0008

Accutest Job Number: JB57692

Sampling Dates: 01/13/14 - 01/14/14

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **17**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

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Sample Summary

ExxonMobil Corporation

Job No: JB57692

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#4410181426 80021012 0008

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB57692-1	01/13/14	10:00	JW	01/14/14	AQ	Ground Water	MW073C(AP)
JB57692-2	01/13/14	10:05	JW	01/14/14	AQ	Ground Water	MW073C(BP)
JB57692-3	01/13/14	09:35	JW	01/14/14	AQ	Ground Water	MW188D(AP)
JB57692-4	01/13/14	09:40	JW	01/14/14	AQ	Ground Water	MW188D(BP)
JB57692-5	01/14/14	12:00	JW	01/14/14	AQ	Trip Blank Water	TRIP BLANK JW1
JB57692-6	01/13/14	10:15	JW	01/14/14	AQ	Ground Water	MW186D(BP)
JB57692-7	01/13/14	10:10	JW	01/14/14	AQ	Ground Water	MW186D(AP)
JB57692-8	01/14/14	12:00	JW	01/14/14	AQ	Ground Water	MW054C(HS-D)

Summary of Hits

Job Number: JB57692
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 01/13/14 thru 01/14/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB57692-1	**MW073C(AP)**					
Benzene		0.85 J	1.0	0.28	ug/l	SW846 8260B
Toluene		53.9	1.0	0.44	ug/l	SW846 8260B
Ethylbenzene		0.32 J	1.0	0.21	ug/l	SW846 8260B
Xylene (total)		0.44 J	1.0	0.19	ug/l	SW846 8260B
Methyl Tert Butyl Ether		46.7	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		2.8 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.62 J	5.0	0.25	ug/l	SW846 8260B
JB57692-2	**MW073C(BP)**					
Benzene		17.1 J	25	7.0	ug/l	SW846 8260B
Methyl Tert Butyl Ether		4210	25	7.1	ug/l	SW846 8260B
Tert Butyl Alcohol		1070	630	47	ug/l	SW846 8260B
Di-Isopropyl ether		15.3 J	130	6.0	ug/l	SW846 8260B
tert-Amyl Methyl Ether		309	130	5.1	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		69.0 J	130	6.2	ug/l	SW846 8260B
JB57692-3	**MW188D(AP)**					
Toluene		0.49 J	1.0	0.44	ug/l	SW846 8260B
Methyl Tert Butyl Ether		1.6	1.0	0.29	ug/l	SW846 8260B
JB57692-4	**MW188D(BP)**					
Toluene		1.5	1.0	0.44	ug/l	SW846 8260B
Methyl Tert Butyl Ether		21.6	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		1.6 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.34 J	5.0	0.25	ug/l	SW846 8260B
JB57692-5	**TRIP BLANK JW1**					
No hits reported in this sample.						
JB57692-6	**MW186D(BP)**					
No hits reported in this sample.						
JB57692-7	**MW186D(AP)**					
No hits reported in this sample.						

Summary of Hits

Job Number: JB57692
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 01/13/14 thru 01/14/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB57692-8	**MW054C(HS-D)**					
Benzene		289	100	28	ug/l	SW846 8260B
Toluene		457	100	44	ug/l	SW846 8260B
Ethylbenzene		63.9 J	100	21	ug/l	SW846 8260B
Xylene (total)		239	100	19	ug/l	SW846 8260B
Methyl Tert Butyl Ether		36300	1000	290	ug/l	SW846 8260B
Tert Butyl Alcohol		2640	2500	190	ug/l	SW846 8260B
Di-Isopropyl ether		114 J	500	24	ug/l	SW846 8260B
tert-Amyl Methyl Ether		2060	500	20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		425 J	500	25	ug/l	SW846 8260B

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW073C(AP)		
Lab Sample ID:	JB57692-1	**Date Sampled:**	01/13/14
Matrix:	AQ - Ground Water	**Date Received:**	01/14/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C115799.D	1	01/22/14	TP	n/a	n/a	V2C5328
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.85	1.0	0.28	ug/l	J
108-88-3	Toluene	53.9	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	0.32	1.0	0.21	ug/l	J
1330-20-7	Xylene (total)	0.44	1.0	0.19	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	46.7	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	2.8	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.62	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-117%
17060-07-0	1,2-Dichloroethane-D4	96%		72-123%
2037-26-5	Toluene-D8	107%		82-118%
460-00-4	4-Bromofluorobenzene	101%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW073C(BP)		
Lab Sample ID:	JB57692-2	**Date Sampled:**	01/13/14
Matrix:	AQ - Ground Water	**Date Received:**	01/14/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C115802.D	25	01/22/14	TP	n/a	n/a	V2C5328
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	17.1	25	7.0	ug/l	J
108-88-3	Toluene	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	25	5.2	ug/l	
1330-20-7	Xylene (total)	ND	25	4.8	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4210	25	7.1	ug/l	
75-65-0	Tert Butyl Alcohol	1070	630	47	ug/l	
108-20-3	Di-Isopropyl ether	15.3	130	6.0	ug/l	J
994-05-8	tert-Amyl Methyl Ether	309	130	5.1	ug/l	
637-92-3	tert-Butyl Ethyl Ether	69.0	130	6.2	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-117%
17060-07-0	1,2-Dichloroethane-D4	97%		72-123%
2037-26-5	Toluene-D8	107%		82-118%
460-00-4	4-Bromofluorobenzene	99%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW188D(AP)		
Lab Sample ID:	JB57692-3	**Date Sampled:**	01/13/14
Matrix:	AQ - Ground Water	**Date Received:**	01/14/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C115800.D	1	01/22/14	TP	n/a	n/a	V2C5328
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	0.49	1.0	0.44	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.6	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-117%
17060-07-0	1,2-Dichloroethane-D4	94%		72-123%
2037-26-5	Toluene-D8	108%		82-118%
460-00-4	4-Bromofluorobenzene	99%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW188D(BP)		
Lab Sample ID:	JB57692-4	**Date Sampled:**	01/13/14
Matrix:	AQ - Ground Water	**Date Received:**	01/14/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C115801.D	1	01/22/14	TP	n/a	n/a	V2C5328
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	1.5	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	21.6	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	1.6	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.34	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		79-117%
17060-07-0	1,2-Dichloroethane-D4	94%		72-123%
2037-26-5	Toluene-D8	106%		82-118%
460-00-4	4-Bromofluorobenzene	100%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JW1		
Lab Sample ID:	JB57692-5	**Date Sampled:**	01/14/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/14/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C115798.D	1	01/22/14	TP	n/a	n/a	V2C5328
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		79-117%
17060-07-0	1,2-Dichloroethane-D4	94%		72-123%
2037-26-5	Toluene-D8	106%		82-118%
460-00-4	4-Bromofluorobenzene	98%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW186D(BP)		
Lab Sample ID:	JB57692-6	**Date Sampled:**	01/13/14
Matrix:	AQ - Ground Water	**Date Received:**	01/14/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C115803.D	1	01/22/14	TP	n/a	n/a	V2C5328
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		79-117%
17060-07-0	1,2-Dichloroethane-D4	94%		72-123%
2037-26-5	Toluene-D8	107%		82-118%
460-00-4	4-Bromofluorobenzene	98%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW186D(AP)		
Lab Sample ID:	JB57692-7	**Date Sampled:**	01/13/14
Matrix:	AQ - Ground Water	**Date Received:**	01/14/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C115849.D	1	01/23/14	TP	n/a	n/a	V2C5330
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-117%
17060-07-0	1,2-Dichloroethane-D4	112%		72-123%
2037-26-5	Toluene-D8	106%		82-118%
460-00-4	4-Bromofluorobenzene	102%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW054C(HS-D)		
Lab Sample ID:	JB57692-8	**Date Sampled:**	01/14/14
Matrix:	AQ - Ground Water	**Date Received:**	01/14/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C115897.D	100	01/24/14	TP	n/a	n/a	V2C5332
Run #2	2C115901.D	1000	01/24/14	TP	n/a	n/a	V2C5332

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	289	100	28	ug/l	
108-88-3	Toluene	457	100	44	ug/l	
100-41-4	Ethylbenzene	63.9	100	21	ug/l	J
1330-20-7	Xylene (total)	239	100	19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	36300 [a]	1000	290	ug/l	
75-65-0	Tert Butyl Alcohol	2640	2500	190	ug/l	
108-20-3	Di-Isopropyl ether	114	500	24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	2060	500	20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	425	500	25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	99%	79-117%
17060-07-0	1,2-Dichloroethane-D4	112%	111%	72-123%
2037-26-5	Toluene-D8	106%	105%	82-118%
460-00-4	4-Bromofluorobenzene	103%	101%	75-118%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

BR

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE __ OF __

ACCUTEST Laboratories

WTB
GW

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB57692

Client / Reporting Information	SITE NAME - Provide Site Name for Retail or AFE Number for Major Projects	
Company Name: Kleinfelder	Retail Project (Site Name): Exxon - Phoenix	ExxonMobil Environmental Services Co.
Street Address: 1340 Charwood Road Ste. 1	Major Project (AFE): 28077	If Project is Direct Bill to Consultant
City: Hanover, State: MD, Zip: 21076	Project Name: 14258 Jarrettsville Pike	Company Name:
Project Contact: Stacey Schiding, E-mail:	City: Phoenix, State: MD	Street Address:
Phone #: 410-850-0404, Fax #: 410-850-0049	ExxonMobil Manager: John Hoban	City: State: Zip:
Sampler(s) Name(s): Jessica Weron, Phone #:	ExxonMobil Purchase Order #: N/A	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	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	8260B - BTEX + Fuel Oxygenates	LAB USE ONLY
1	MW073C(AP)		1/13/14	1000	JW	GW	3	3								X	
2	MW073C(BP)		1/13/14	1005	JW	GW	3	3								X	
3	MW188D (AP)		1/13/14	0935	JW	GW	3	3								X	
4	MW188D (BP)		1/13/14	0940	JW	GW	3	3								X	
5	Trip Blank JW1		1/12/14	0800	-	TB	2	2								X	V78
6	MW186D (BP)		1/13/14	1015	JW	GW	3	3								X	
7	MW186D (AP)		1/13/14	1010	JW	GW	3	3								X	
8	MW054C (HS-D)		1/14/14	1200	JW	GW	3	3								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 [signature]	12057/14/14	1/14/14 1300	2 [signature] 1/14/14	1755	2 [signature]
3		3	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not intact — Preserved where applicable ☐ — On Ice ☒ — Cooler Temp. 2.3 C

1A 1/14 1 Cooler G.P.

JB57692: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB57692 **Client:** **Project:**

Date / Time Received: 1/14/2014 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (2.3/2.3); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control _Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB57692: Chain of Custody
Page 2 of 2

New Jersey
ACCUTEST
LABORATORIES

01/24/14



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO#4410181426 80021012 0008

Accutest Job Number: JB57699

Sampling Date: 01/14/14

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **15**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

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Sample Summary

ExxonMobil Corporation

Job No: JB57699

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#4410181426 80021012 0008

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB57699-1	01/14/14	10:00	JW	01/14/14	AQ	Ground Water	MW180C (HS-S)
JB57699-2	01/14/14	10:05	JW	01/14/14	AQ	Ground Water	MW180C (HS-D)
JB57699-3	01/14/14	09:35	JW	01/14/14	AQ	Ground Water	MW182 (HS-S)
JB57699-4	01/14/14	09:40	JW	01/14/14	AQ	Ground Water	MW182 (HS-D)
JB57699-5	01/14/14	09:00	JW	01/14/14	AQ	Ground Water	MW048D (HS-S)
JB57699-6	01/14/14	09:05	JW	01/14/14	AQ	Ground Water	MW048D (HS-D)

Summary of Hits

Job Number: JB57699
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 01/14/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB57699-1	**MW180C (HS-S)**					
Methyl Tert Butyl Ether		8.2	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		0.47 J	5.0	0.20	ug/l	SW846 8260B
JB57699-2	**MW180C (HS-D)**					
Methyl Tert Butyl Ether		9.2	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		0.50 J	5.0	0.20	ug/l	SW846 8260B
JB57699-3	**MW182 (HS-S)**					
Methyl Tert Butyl Ether		3.8	1.0	0.29	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		1.9 J	5.0	0.25	ug/l	SW846 8260B
JB57699-4	**MW182 (HS-D)**					
Methyl Tert Butyl Ether		3.8	1.0	0.29	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		1.7 J	5.0	0.25	ug/l	SW846 8260B
JB57699-5	**MW048D (HS-S)**					
No hits reported in this sample.						
JB57699-6	**MW048D (HS-D)**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW180C (HS-S)		
Lab Sample ID:	JB57699-1	**Date Sampled:**	01/14/14
Matrix:	AQ - Ground Water	**Date Received:**	01/14/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V4647.D	1	01/18/14	LD	n/a	n/a	V4V192
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	8.2	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.47	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		79-117%
17060-07-0	1,2-Dichloroethane-D4	104%		72-123%
2037-26-5	Toluene-D8	103%		82-118%
460-00-4	4-Bromofluorobenzene	103%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW180C (HS-D)		
Lab Sample ID:	JB57699-2	**Date Sampled:**	01/14/14
Matrix:	AQ - Ground Water	**Date Received:**	01/14/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V4648.D	1	01/18/14	LD	n/a	n/a	V4V192
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	9.2	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.50	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		79-117%
17060-07-0	1,2-Dichloroethane-D4	104%		72-123%
2037-26-5	Toluene-D8	102%		82-118%
460-00-4	4-Bromofluorobenzene	103%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW182 (HS-S)		
Lab Sample ID:	JB57699-3	**Date Sampled:**	01/14/14
Matrix:	AQ - Ground Water	**Date Received:**	01/14/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V4650.D	1	01/18/14	LD	n/a	n/a	V4V192
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.8	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	1.9	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		79-117%
17060-07-0	1,2-Dichloroethane-D4	105%		72-123%
2037-26-5	Toluene-D8	102%		82-118%
460-00-4	4-Bromofluorobenzene	102%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW182 (HS-D)		
Lab Sample ID:	JB57699-4	**Date Sampled:**	01/14/14
Matrix:	AQ - Ground Water	**Date Received:**	01/14/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V4651.D	1	01/18/14	LD	n/a	n/a	V4V192
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.8	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	1.7	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		79-117%
17060-07-0	1,2-Dichloroethane-D4	105%		72-123%
2037-26-5	Toluene-D8	102%		82-118%
460-00-4	4-Bromofluorobenzene	102%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW048D (HS-S)		
Lab Sample ID:	JB57699-5	**Date Sampled:**	01/14/14
Matrix:	AQ - Ground Water	**Date Received:**	01/14/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V4652.D	1	01/18/14	LD	n/a	n/a	V4V192
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		79-117%
17060-07-0	1,2-Dichloroethane-D4	105%		72-123%
2037-26-5	Toluene-D8	102%		82-118%
460-00-4	4-Bromofluorobenzene	102%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW048D (HS-D)		
Lab Sample ID:	JB57699-6	**Date Sampled:**	01/14/14
Matrix:	AQ - Ground Water	**Date Received:**	01/14/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V4653.D	1	01/18/14	LD	n/a	n/a	V4V192
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		79-117%
17060-07-0	1,2-Dichloroethane-D4	106%		72-123%
2037-26-5	Toluene-D8	102%		82-118%
460-00-4	4-Bromofluorobenzene	102%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

GW
WTB

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE ___ OF ___

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ACCUTEST Laboratories

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB57699

Client / Reporting Information

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

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	John Hoban
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	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	MTBE, BTEX, ETBE, TAME, DIPE, TBA by 8260B	V8260MDVO	LAB USE ONLY
1	MW180C(HS-S)		1/14/14	1000	JW	GW	3	X								X		V80
2	MW180C(HS-D)		1/14/14	1005	JW	GW	3	X								X		
3	MW182(HS-S)		1/14/14	0935	JW	GW	3	X								X		
4	MW182(HS-D)		1/14/14	0940	JW	GW	3	X								X		
5	MW048D(HS-S)		1/14/14	0900	JW	GW	3	X								X		
6	MW048D(HS-D)		1/14/14	0905	JW	GW	3	X								X		
7	Trip Blank																	
8	1/14/14																	

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 Sampler	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]		1 [signature] 1/14/14 1322	2 [signature] 1/14/14	1755	2 [signature]
3		3	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not intact — Preserved where applicable ☐ — Cooler Temp. 1.06

Ams ... 1 Cooler

4.1

4

JB57699: Chain of Custody
Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB57699 **Client:** KLEINFELDER - MD **Project:** PHOENIX

Date / Time Received: 1/14/2014 1755 **Delivery Method:** Accutest Courier **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (1/1); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No, Coolers	1		

Quality Control Preservatio	Y	N	N/A
1. Trip Blank present / cooler:	☐	☑	☐
2. Trip Blank listed on COC:	☑	☐	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments Did not receive TB's

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB57699: Chain of Custody
Page 2 of 3

Sample Receipt Summary - Problem Resolution

Accutest Job Number: JB57699

CSR: Kelly **Response Date:** 1/16/2014

Response: Please proceed without TB per Sean Rochford

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB57699: Chain of Custody
Page 3 of 3

New Jersey
ACCUTEST
LABORATORIES

01/27/14



Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO#4410181426 80021012 0008

Accutest Job Number: JB57962

Sampling Date: 01/15/14

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **26**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

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Sample Summary

ExxonMobil Corporation

Job No: JB57962

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#4410181426 80021012 0008

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB57962-1	01/15/14	11:45	JW	01/16/14	AQ	Ground Water	MW036C(HS-S)
JB57962-2	01/15/14	11:50	JW	01/16/14	AQ	Ground Water	MW036C(HS-D)
JB57962-3	01/15/14	11:15	JW	01/16/14	AQ	Ground Water	MW171C(HS-S)
JB57962-4	01/15/14	11:20	JW	01/16/14	AQ	Ground Water	MW171C(HS-D)
JB57962-5	01/15/14	13:30	JW	01/16/14	AQ	Ground Water	MW135C(HS-S)
JB57962-6	01/15/14	13:40	JW	01/16/14	AQ	Ground Water	MW135C(HS-D)
JB57962-7	01/15/14	12:15	JW	01/16/14	AQ	Ground Water	MW131C(HS-S)
JB57962-8	01/15/14	12:20	JW	01/16/14	AQ	Ground Water	MW131C(HS-D)
JB57962-9	01/15/14	09:30	JW	01/16/14	AQ	Ground Water	PW3501(HS-S)
JB57962-10	01/15/14	09:35	JW	01/16/14	AQ	Ground Water	PW3501(HS-D)
JB57962-11	01/15/14	13:40	JW	01/16/14	AQ	Trip Blank Water	TRIP BLANK JW1
JB57962-12	01/15/14	10:45	JW	01/16/14	AQ	Ground Water	MW179C(HS-S)
JB57962-13	01/15/14	10:50	JW	01/16/14	AQ	Ground Water	MW179C(HS-D)

Sample Summary
(continued)

ExxonMobil Corporation

Job No: JB57962

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#4410181426 80021012 0008

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB57962-14	01/15/14	10:15	JW	01/16/14	AQ	Ground Water	MW047C(HS-S)
JB57962-15	01/15/14	10:20	JW	01/16/14	AQ	Ground Water	MW047C(HS-D)

Summary of Hits

Job Number: JB57962
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 01/15/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB57962-1	**MW036C(HS-S)**					
Methyl Tert Butyl Ether		1.9	1.0	0.29	ug/l	SW846 8260B
JB57962-2	**MW036C(HS-D)**					
Methyl Tert Butyl Ether		2.0	1.0	0.29	ug/l	SW846 8260B
JB57962-3	**MW171C(HS-S)**					
Methyl Tert Butyl Ether		1.7	1.0	0.29	ug/l	SW846 8260B
JB57962-4	**MW171C(HS-D)**					
Methyl Tert Butyl Ether		1.2	1.0	0.29	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.77 J	5.0	0.25	ug/l	SW846 8260B
JB57962-5	**MW135C(HS-S)**					
Toluene		0.66 J	1.0	0.44	ug/l	SW846 8260B
JB57962-6	**MW135C(HS-D)**					
Toluene		0.60 J	1.0	0.44	ug/l	SW846 8260B
JB57962-7	**MW131C(HS-S)**					
Toluene		0.45 J	1.0	0.44	ug/l	SW846 8260B
JB57962-8	**MW131C(HS-D)**					
Toluene		0.50 J	1.0	0.44	ug/l	SW846 8260B
JB57962-9	**PW3501(HS-S)**					
No hits reported in this sample.						
JB57962-10	**PW3501(HS-D)**					
No hits reported in this sample.						
JB57962-11	**TRIP BLANK JW1**					
No hits reported in this sample.						

Summary of Hits

Job Number: JB57962
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 01/15/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB57962-12	**MW179C(HS-S)**					
Methyl Tert Butyl Ether		17.7	1.0	0.29	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		3.2 J	5.0	0.25	ug/l	SW846 8260B
JB57962-13	**MW179C(HS-D)**					
Methyl Tert Butyl Ether		38.1	1.0	0.29	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		4.7 J	5.0	0.25	ug/l	SW846 8260B
JB57962-14	**MW047C(HS-S)**					
Methyl Tert Butyl Ether		13.3	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		0.59 J	5.0	0.20	ug/l	SW846 8260B
JB57962-15	**MW047C(HS-D)**					
Methyl Tert Butyl Ether		14.3	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		0.71 J	5.0	0.20	ug/l	SW846 8260B

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW036C(HS-S)		
Lab Sample ID:	JB57962-1	**Date Sampled:**	01/15/14
Matrix:	AQ - Ground Water	**Date Received:**	01/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B38431.D	1	01/23/14	TP	n/a	n/a	V4B1664
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.9	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		79-117%
17060-07-0	1,2-Dichloroethane-D4	97%		72-123%
2037-26-5	Toluene-D8	110%		82-118%
460-00-4	4-Bromofluorobenzene	104%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW036C(HS-D)		
Lab Sample ID:	JB57962-2	**Date Sampled:**	01/15/14
Matrix:	AQ - Ground Water	**Date Received:**	01/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B38432.D	1	01/23/14	TP	n/a	n/a	V4B1664
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.0	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-117%
17060-07-0	1,2-Dichloroethane-D4	98%		72-123%
2037-26-5	Toluene-D8	113%		82-118%
460-00-4	4-Bromofluorobenzene	103%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW171C(HS-S)		
Lab Sample ID:	JB57962-3	**Date Sampled:**	01/15/14
Matrix:	AQ - Ground Water	**Date Received:**	01/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B38433.D	1	01/23/14	TP	n/a	n/a	V4B1664
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.7	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		79-117%
17060-07-0	1,2-Dichloroethane-D4	100%		72-123%
2037-26-5	Toluene-D8	111%		82-118%
460-00-4	4-Bromofluorobenzene	103%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW171C(HS-D)		
Lab Sample ID:	JB57962-4	**Date Sampled:**	01/15/14
Matrix:	AQ - Ground Water	**Date Received:**	01/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B38434.D	1	01/24/14	TP	n/a	n/a	V4B1664
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.2	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	0.77	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-117%
17060-07-0	1,2-Dichloroethane-D4	100%		72-123%
2037-26-5	Toluene-D8	112%		82-118%
460-00-4	4-Bromofluorobenzene	104%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW135C(HS-S)		
Lab Sample ID:	JB57962-5	**Date Sampled:**	01/15/14
Matrix:	AQ - Ground Water	**Date Received:**	01/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B38435.D	1	01/24/14	TP	n/a	n/a	V4B1664
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	0.66	1.0	0.44	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-117%
17060-07-0	1,2-Dichloroethane-D4	100%		72-123%
2037-26-5	Toluene-D8	111%		82-118%
460-00-4	4-Bromofluorobenzene	103%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW135C(HS-D)		
Lab Sample ID:	JB57962-6	**Date Sampled:**	01/15/14
Matrix:	AQ - Ground Water	**Date Received:**	01/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B38440.D	1	01/24/14	TP	n/a	n/a	V4B1665
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	0.60	1.0	0.44	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-117%
17060-07-0	1,2-Dichloroethane-D4	100%		72-123%
2037-26-5	Toluene-D8	112%		82-118%
460-00-4	4-Bromofluorobenzene	102%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW131C(HS-S)		
Lab Sample ID:	JB57962-7	**Date Sampled:**	01/15/14
Matrix:	AQ - Ground Water	**Date Received:**	01/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B38441.D	1	01/24/14	TP	n/a	n/a	V4B1665
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	0.45	1.0	0.44	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-117%
17060-07-0	1,2-Dichloroethane-D4	100%		72-123%
2037-26-5	Toluene-D8	110%		82-118%
460-00-4	4-Bromofluorobenzene	102%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW131C(HS-D)		
Lab Sample ID:	JB57962-8	**Date Sampled:**	01/15/14
Matrix:	AQ - Ground Water	**Date Received:**	01/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B38442.D	1	01/24/14	TP	n/a	n/a	V4B1665
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	0.50	1.0	0.44	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-117%
17060-07-0	1,2-Dichloroethane-D4	101%		72-123%
2037-26-5	Toluene-D8	110%		82-118%
460-00-4	4-Bromofluorobenzene	104%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW3501(HS-S)		
Lab Sample ID:	JB57962-9	**Date Sampled:**	01/15/14
Matrix:	AQ - Ground Water	**Date Received:**	01/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B38443.D	1	01/24/14	TP	n/a	n/a	V4B1665
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-117%
17060-07-0	1,2-Dichloroethane-D4	101%		72-123%
2037-26-5	Toluene-D8	111%		82-118%
460-00-4	4-Bromofluorobenzene	103%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW3501(HS-D)		
Lab Sample ID:	JB57962-10	**Date Sampled:**	01/15/14
Matrix:	AQ - Ground Water	**Date Received:**	01/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B38444.D	1	01/24/14	TP	n/a	n/a	V4B1665
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-117%
17060-07-0	1,2-Dichloroethane-D4	102%		72-123%
2037-26-5	Toluene-D8	112%		82-118%
460-00-4	4-Bromofluorobenzene	102%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JW1		
Lab Sample ID:	JB57962-11	**Date Sampled:**	01/15/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B38445.D	1	01/24/14	TP	n/a	n/a	V4B1665
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		79-117%
17060-07-0	1,2-Dichloroethane-D4	103%		72-123%
2037-26-5	Toluene-D8	111%		82-118%
460-00-4	4-Bromofluorobenzene	101%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW179C(HS-S)		
Lab Sample ID:	JB57962-12	**Date Sampled:**	01/15/14
Matrix:	AQ - Ground Water	**Date Received:**	01/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B38446.D	1	01/24/14	TP	n/a	n/a	V4B1665
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	17.7	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	3.2	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-117%
17060-07-0	1,2-Dichloroethane-D4	101%		72-123%
2037-26-5	Toluene-D8	112%		82-118%
460-00-4	4-Bromofluorobenzene	104%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW179C(HS-D)		
Lab Sample ID:	JB57962-13	**Date Sampled:**	01/15/14
Matrix:	AQ - Ground Water	**Date Received:**	01/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B38447.D	1	01/24/14	TP	n/a	n/a	V4B1665
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	38.1	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	4.7	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-117%
17060-07-0	1,2-Dichloroethane-D4	104%		72-123%
2037-26-5	Toluene-D8	111%		82-118%
460-00-4	4-Bromofluorobenzene	102%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW047C(HS-S)		
Lab Sample ID:	JB57962-14	**Date Sampled:**	01/15/14
Matrix:	AQ - Ground Water	**Date Received:**	01/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B38448.D	1	01/24/14	TP	n/a	n/a	V4B1665
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	13.3	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.59	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-117%
17060-07-0	1,2-Dichloroethane-D4	102%		72-123%
2037-26-5	Toluene-D8	111%		82-118%
460-00-4	4-Bromofluorobenzene	102%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW047C(HS-D)		
Lab Sample ID:	JB57962-15	**Date Sampled:**	01/15/14
Matrix:	AQ - Ground Water	**Date Received:**	01/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B38449.D	1	01/24/14	TP	n/a	n/a	V4B1665
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	14.3	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.71	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-117%
17060-07-0	1,2-Dichloroethane-D4	102%		72-123%
2037-26-5	Toluene-D8	112%		82-118%
460-00-4	4-Bromofluorobenzene	103%		75-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

GW
WTB CC

ACCUTEST Laboratories

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE __ OF __

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #
Bottle Order Control #
Accutest Quote #
Accutest Job # JB57962

Client / Reporting Information

Company Name: Kleinfelder
Street Address: 1340 Charwood Road Ste. 1
City: Hanover, State: MD, Zip: 21076
Project Contact: Stacey Schiding, E-mail:
Phone #: 410-850-0404, Fax #: 410-850-0049
Sampler(s) Name(s): Jessica Weren, 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: John Hoban
ExxonMobil Purchase Order #: N/A

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	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	8260B - BTEX + Fuel Oxygenates	LAB USE ONLY
-1	MW036C(HS-S)		1/15/14	1145	JW	GW	3	3								X	
-2	MW036C(HS-D)		1/15/14	1150	JW	GW	3	3								X	
-3	MW171C(HS-S)		1/15/14	1115	JW	GW	3	3								X	
-4	MW171C(HS-D)		1/15/14	1120	JW	GW	3	3								X	
-5	MW135C(HS-S)		1/15/14	1330	JW	GW	3	3								X	
-6	MW135C(HS-D)		1/15/14	1340	JW	GW	3	3								X	
-7	MW131C(HS-S)		1/15/14	1215	JW	GW	3	3								X	
-8	MW131C(HS-D)		1/15/14	1220	JW	GW	3	3								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 Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	1/15/14	1 [signature] 1-16-14	2 [signature] 1-16-14	2015	2 [signature]
3		3	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not intact
Preserved where applicable ☐
On Ice ☑
Cooler Temp. [illegible] IZP

Boms

4.1
4

JB57962: Chain of Custody
Page 1 of 3

ACCUTEST Laboratories

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE __ OF __

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.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 / 410-850-0049
Sampler(s) Name(s) / Phone #	Jessica Weron

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	John Hoban
ExxonMobil Purchase Order #	N/A

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	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	8260B - BTEX + Fuel Oxygenates	LAB USE ONLY
-9	PW3501(HS-S)		1/15/14	0930	JW	GW	3	3								X	
-10	PW3501(HS-D)		1/15/14	0935	JW	GW	3	3								X	
-11	Trip Blank JWL		1/2/14	0903	-	TB	2	2								X	
-12	MW179C(HS-S)		1/15/14	1045		GW	3	3								X	
-13	MW179C(HS-D)		1/15/14	1050		GW	3	3								X	
-14	MW047C(HS-S)		1/15/14	1015	JW	GW	3	3								X	
-15	MW047C(HS-D)		1/15/14	1020	JW	GW	3	3								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 Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	1/15/14	1 [signature] 1-16-14	2 [signature] 1-16-14	2015	2
3		3	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not intact — Preserved where applicable ☐ — On Ice ☑ — Cooler Temp. 2.8 IR

Bonus

JB57962: Chain of Custody
Page 2 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB57962 **Client:** **Project:**

Date / Time Received: 1/16/2014 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (2.5/2.5); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Comments

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

APPENDIX B

KLEINFELDER
Bright People. Right Solutions.

1340 Charwood Road, Suite I
Hanover, MD 21076
(410) 850-0404

BORING LOG
Well No. MW-27B

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 07/09/2013
End Date: 07/12/2013
Total Hole Depth: 125'
Hole Diameter: 6-10"
Depth to Bedrock: 37'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~49'
Water Level (Static): NA
Logged By (Geol.): JM/AW

Permit No.: BA-10-0275
License No.: JWD314
Checked By: JM
Notes: Boring pre-cleared to 8' bgs

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
0		Ground Surface				0
0–1		5" Asphalt	NA			0–1
1–2		Roadbase GRAVEL (8" thick)		0.1		1–2
2–5		***SC*** Reddish brown, dry, fine to medium clayey SAND, micaceous		0.3 0.4 0.4		2–5
5–8		***SC*** Reddish brown, dry, fine to medium clayey SAND with gravel, micaceous		0.5 0.4 0.5 0.4		5–8
8–20		Soil/Rock classification below 8' bgs are from air rotary drill rig cuttings that were pulverized by bit and blown from boring with air Advanced boring with 10" diameter air rotary bit. Insufficient cutting blow out for classification/PID screening				8–20
20–35		***ML*** Brown, dry, fine to medium sandy SILT, micaceous, soft drilling		0.2 0.6 0.7		20–35
35–37		***BR*** Brown, dry, SCHIST, micaceous, weathered rock at 35' bgs, harder drilling		0.6		35–37
37–39		***BR*** Brown, dry, SCHIST, micaceous, odor, bedrock at 37' bgs, hard drilling		2.0		37–39
39–44		***BR*** Gray, SCHIST, micaceous, hard/slow drilling		1.3 1.1		39–44
44–50		***BR*** Gray, SCHIST micaceous, odor soft/faster drilling from 44.5-45' Weathered zone		3.8	6" Steel Casing (0'-60') Grout (0'-60')	44–50

VOC - Volatile Organic Compound
NA - Not Applicable
NS - Not Sampled
NR - Not Recorded
NM - Not Measured
NE - Not Encountered
ppm - parts per million

USCS - Unified Soil Classification System
WOR - weight of rod
WH - weight of hammer

KLEINFELDER
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Hanover, MD 21076
(410) 850-0404

BORING LOG
Well No. MW-27B

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 07/09/2013
End Date: 07/12/2013
Total Hole Depth: 125'
Hole Diameter: 6-10"
Depth to Bedrock: 37'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~49'
Water Level (Static): NA
Logged By (Geol.): JM/AW

Permit No.: BA-10-0275
License No.: JWD314
Checked By: JM
Notes: Boring pre-cleared to 8' bgs

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
51–64		***BR*** Gray, dry, SCHIST, quartz, mica, hard/slow drilling soft/faster drilling from 52'-53' bgs		1.5 1.3 0.9		51–64
65–74		***BR*** Gray, SCHIST, micaceous, slow/hard drilling		0.5	Open Hole (60'-125')	65–74
75–100		***BR*** Gray, SCHIST, micaceous, quartzone, hard/slow drilling		0.4 0.7 0.6 0.7		75–100

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WOR - weight of rod
WH - weight of hammer

KLEINFELDER
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Hanover, MD 21076
(410) 850-0404

BORING LOG
Well No. MW-27B

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 07/09/2013
End Date: 07/12/2013
Total Hole Depth: 125'
Hole Diameter: 6-10"
Depth to Bedrock: 37'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~49'
Water Level (Static): NA
Logged By (Geol.): JM/AW

Permit No.: BA-10-0275
License No.: JWD314
Checked By: JM
Notes: Boring pre-cleared to 8' bgs

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
101–114		***BR*** Gray, SCHIST, micaceous, slow/hard drilling		0.4 0.8 0.5		101–114
115–124		***BR*** Gray, SCHIST, quartzone, micaceous, hard/slow drilling		0.7 0.6		115–124
125		***BR*** Gray, SCHIST, micaceous, hard/slow drilling		0.8		125
		End of Borehole				

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WH - weight of hammer

KLEINFELDER
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1340 Charwood Road, Suite I
Hanover, MD 21076
(410) 850-0404

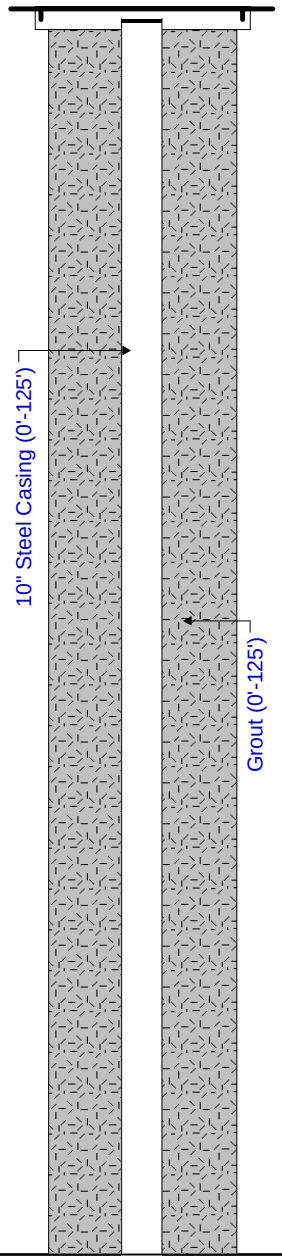
BORING LOG
Well No. MW-36C

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: BL Myers Bros./Eichelbergers
Driller: Stephen Saul/Carey Knaub
Drill Rig Type: AtlasCaplo T3/IR T4W
Drilling Method: Air Rotary
Sampling Method: Cuttings

Start Date: 11/01/2010
End Date: 08/18/2013
Total Hole Depth: 424'
Hole Diameter: 10"-15"
Depth to Bedrock: 20'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~89'
Water Level (Static): NA
Logged By (Geol.): JB/RM/JM

Permit No.: BA-95-3570
License No.: MWD421/JWD314
Checked By: KB/JM
Notes: Well at 14307 Jarrettsville Pike Well initially drilled to 300' bgs on 11/01-02/2010 and deepened to 424' bgs on 08/17-18/2013.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
0		Ground Surface				0
0–9		***ML*** SILT with sand, dark red-brown, quartz fragments, muscovite, oxidized (Airknife to 4.5 feet)	NA			0–9
9–20		***SM*** SILTY SAND, brown, fine to medium grain, trace mica, moist		0.6		9–20
20–35		***BR*** SCHIST, weathered, muscovite with trace biotite		2.1 0.4		20–35
35–50		***BR*** SCHIST, weathered, dark red-brown		1.0		35–50



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WOR - weight of rod
WH - weight of hammer

KLEINFELDER
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Hanover, MD 21076
(410) 850-0404

BORING LOG
Well No. MW-36C

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: BL Myers Bros./Eichelbergers
Driller: Stephen Saul/Carey Knaub
Drill Rig Type: AtlasCaplo T3/IR T4W
Drilling Method: Air Rotary
Sampling Method: Cuttings

Start Date: 11/01/2010
End Date: 08/18/2013
Total Hole Depth: 424'
Hole Diameter: 10"-15"
Depth to Bedrock: 20'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~89'
Water Level (Static): NA
Logged By (Geol.): JB/RM/JM

Permit No.: BA-95-3570
License No.: MWD421/JWD314
Checked By: KB/JM
Notes: Well at 14307 Jarrettsville Pike Well initially drilled to 300' bgs on 11/01-02/2010 and deepened to 424' bgs on 08/17-18/2013.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
51–59		***BR*** SCHIST, weathered, brown to gray, muscovite and trace biotite		1.0		51–59
60		***BR*** SCHIST, unweathered, gray, mosvovite with trace biotite and garnts		0.6		60
61–69						61–69
70				0.2		70
71–79						71–79
80				0.4		80
81–89						81–89
90				0.2		90
91–99						91–99
100				0.2		100

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WOR - weight of rod
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KLEINFELDER
Bright People. Right Solutions.

1340 Charwood Road, Suite I
Hanover, MD 21076
(410) 850-0404

BORING LOG
Well No. MW-36C

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: BL Myers Bros./Eichelbergers
Driller: Stephen Saul/Carey Knaub
Drill Rig Type: AtlasCaplo T3/IR T4W
Drilling Method: Air Rotary
Sampling Method: Cuttings

Start Date: 11/01/2010
End Date: 08/18/2013
Total Hole Depth: 424'
Hole Diameter: 10"-15"
Depth to Bedrock: 20'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~89'
Water Level (Static): NA
Logged By (Geol.): JB/RM/JM

Permit No.: BA-95-3570
License No.: MWD421/JWD314
Checked By: KB/JM
Notes: Well at 14307 Jarrettsville Pike Well initially drilled to 300' bgs on 11/01-02/2010 and deepened to 424' bgs on 08/17-18/2013.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
101–150				0.2 (101–109) 0.5 (110–119) 0.6 (120–124) 0.4 (125–134) 0.2 (135–144) 0.1 (145–150)	Open Hole (125'-424')	101–150

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WOR - weight of rod
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KLEINFELDER
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BORING LOG
Well No. MW-36C

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: BL Myers Bros./Eichelbergers
Driller: Stephen Saul/Carey Knaub
Drill Rig Type: AtlasCaplo T3/IR T4W
Drilling Method: Air Rotary
Sampling Method: Cuttings

Start Date: 11/01/2010
End Date: 08/18/2013
Total Hole Depth: 424'
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Depth to Bedrock: 20'
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Water Level (Initial): ~89'
Water Level (Static): NA
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Permit No.: BA-95-3570
License No.: MWD421/JWD314
Checked By: KB/JM
Notes: Well at 14307 Jarrettsville Pike Well initially drilled to 300' bgs on 11/01-02/2010 and deepened to 424' bgs on 08/17-18/2013.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
151–200				0.0 (155); 0.0 (165); 0.2 (175); 0.1 (185); 0.0 (195)		151–200

VOC - Volatile Organic Compound
NA - Not Applicable
NS - Not Sampled
NR - Not Recorded
NM - Not Measured
NE - Not Encountered
ppm - parts per million

USCS - Unified Soil Classification System
WOR - weight of rod
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KLEINFELDER
Bright People. Right Solutions.

1340 Charwood Road, Suite I
Hanover, MD 21076
(410) 850-0404

BORING LOG
Well No. MW-36C

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: BL Myers Bros./Eichelbergers
Driller: Stephen Saul/Carey Knaub
Drill Rig Type: AtlasCaplo T3/IR T4W
Drilling Method: Air Rotary
Sampling Method: Cuttings

Start Date: 11/01/2010
End Date: 08/18/2013
Total Hole Depth: 424'
Hole Diameter: 10"-15"
Depth to Bedrock: 20'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~89'
Water Level (Static): NA
Logged By (Geol.): JB/RM/JM

Permit No.: BA-95-3570
License No.: MWD421/JWD314
Checked By: KB/JM
Notes: Well at 14307 Jarrettsville Pike Well initially drilled to 300' bgs on 11/01-02/2010 and deepened to 424' bgs on 08/17-18/2013.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
201–250				1.2 (205); 0.4 (215); 0.0 (225); 0.2 (235); 0.1 (245)		201–250

VOC - Volatile Organic Compound
NA - Not Applicable
NS - Not Sampled
NR - Not Recorded
NM - Not Measured
NE - Not Encountered
ppm - parts per million

USCS - Unified Soil Classification System
WOR - weight of rod
WH - weight of hammer

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SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
251						251
252						252
253						253
254						254
255				0.1		255
256						256
257						257
258						258
259						259
260				0.2		260
261						261
262						262
263						263
264						264
265						265
266						266
267						267
268						268
269						269
270						270
271						271
272						272
273						273
274						274
275				0.0		275
276						276
277						277
278						278
279						279
280						280
281						281
282						282
283						283
284						284
285				0.1		285
286						286
287						287
288						288
289						289
290						290
291						291
292						292
293						293
294						294
295				0.4		295
296						296
297						297
298						298
299				0.0		299
300						300

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Water Level (Static): NA
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Notes: Well at 14307 Jarrettsville Pike Well initially drilled to 300' bgs on 11/01-02/2010 and deepened to 424' bgs on 08/17-18/2013.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
301–350		***BR*** SCHIST, quartzose, micaceous, gray cuttings slow/hard drilling		<1.0		301–350
345–350		***BR*** SCHIST, quartzose, gray cuttings slow/hard drilling		<1.0		345–350

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Drilling Method: Air Rotary
Sampling Method: Cuttings

Start Date: 11/01/2010
End Date: 08/18/2013
Total Hole Depth: 424'
Hole Diameter: 10"-15"
Depth to Bedrock: 20'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~89'
Water Level (Static): NA
Logged By (Geol.): JB/RM/JM

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Notes: Well at 14307 Jarrettsville Pike Well initially drilled to 300' bgs on 11/01-02/2010 and deepened to 424' bgs on 08/17-18/2013.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
351		***BR*** SCHIST, quartzose, micaceous, gray cuttings slow/hard drilling		<1.0		351
352						352
353						353
354						354
355						355
356				<1.0		356
357						357
358						358
359						359
360						360
361				<1.0		361
362						362
363						363
364						364
365						365
366				<1.0		366
367						367
368						368
369						369
370						370
371				<1.0		371
372						372
373						373
374						374
375						375
376				<1.0		376
377						377
378						378
379						379
380						380
381				<1.0		381
382						382
383						383
384						384
385						385
386				<1.0		386
387						387
388						388
389						389
390						390
391				<1.0		391
392						392
393						393
394						394
395						395
396				<1.0		396
397						397
398						398
399						399
400						400

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Water Level (Static): NA
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SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
401–423				<1.0		401–423
424		End of Borehole		<1.0		424
425–450						425–450

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BORING LOG
Well No. MW-48D

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 09/30/2013
End Date: 10/02/2013
Total Hole Depth: 403'
Hole Diameter: 6-10"
Depth to Bedrock: 31'
Top-Of-Casing Elevation: TBD
Water Level (Initial): NA
Water Level (Static): NA
Logged By (Geol.): JM

Permit No.: BA-10-0365
License No.: JWD314
Checked By: JM
Notes: Pre-cleared to 8' bgs with Airknife Well located in Cul-de-sac by 3506 Hampshire Glen Ct.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
0		Ground Surface				0
0–2		6" Asphalt 8" Roadbase gravel	NA	<1.0		0–2
2–5		***SM*** Brown, dry, silty SAND with gravel, micaceous		<1.0 <1.0 <1.0		2–5
5–10		COBBLES, ~0.5-5" thick quartz lenses/layers with near vertical orientation with more resistant schist saprolite intermixed - quartze cobbles pried from boring with digging bar		<1.0 <1.0		5–10
10–14		***SM*** Brown, dry, silty SAND, micaceous, likely saprolite, soft/fast drilling		<1.0		10–14
14–20		***SM*** Light brownish gray, dry, fine to medium silty SAND with fine gravel, micaceous, quartzose, soft/fast drilling lense of harder/slower drilling 19'-19.5' faster/softer drilling 19.5'-20' brown cuttings		<1.0	6" Steel Casing (0'-55')	14–20
20–23		***SM*** Light grayish brown, silty SAND with fine gravel, quartzose		<1.0		20–23
23–29		***SM*** Light grayish brown, well graded silty SAND, micaceous, quartzose, schist saprolite, soft/fast drilling		<1.0	Grout (0'-55')	23–29
29–31		***BR*** Brown, dry, saprolitic SCHIST Bedrock encountered at 31' bgs, cuttings from brown to gray, slower/harder drilling		<1.0 <1.0		29–31
31–37		***BR*** SCHIST, micaceous, cuttings are light gray, slow/hard drilling		<1.0		31–37
37–45		***BR*** SCHIST, micaceous, cuttings are gray, slow/hard drilling		<1.0		37–45
45–50		***BR*** SCHIST, micaceous, quartzose, larger/medium sized grains, gray cuttings, hard/slow drilling		<1.0		45–50

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WOR - weight of rod
WH - weight of hammer

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BORING LOG
Well No. MW-48D

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 09/30/2013
End Date: 10/02/2013
Total Hole Depth: 403'
Hole Diameter: 6-10"
Depth to Bedrock: 31'
Top-Of-Casing Elevation: TBD
Water Level (Initial): NA
Water Level (Static): NA
Logged By (Geol.): JM

Permit No.: BA-10-0365
License No.: JWD314
Checked By: JM
Notes: Pre-cleared to 8' bgs with Airknife Well located in Cul-de-sac by 3506 Hampshire Glen Ct.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
51–100		***BR*** SCHIST, micaceous, quartzose, cuttings are gray, hard/slow drilling		<1.0		51–100
		BR SCHIST, quartz and muscovite, cuttings are gray, slow/hard drilling		<1.0		
		BR SCHIST, micaceous, quartzose, cuttings are gray, hard drilling		<1.0		
				<1.0		
				<1.0	Open Hole (55'-404')	
				<1.0		
				<1.0		
				<1.0		
				<1.0		

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Water Level (Initial): NA
Water Level (Static): NA
Logged By (Geol.): JM

Permit No.: BA-10-0365
License No.: JWD314
Checked By: JM
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SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
101–150				<1.0		101–150

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Water Level (Static): NA
Logged By (Geol.): JM

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SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
151–200				<1.0		151–200

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BORING LOG
Well No. MW-48D

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Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

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Top-Of-Casing Elevation: TBD
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Water Level (Static): NA
Logged By (Geol.): JM

Permit No.: BA-10-0365
License No.: JWD314
Checked By: JM
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SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
201–250				<1.0		201–250

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SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
251–300				<1.0		251–300

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SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
301–350				<1.0		301–350

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Water Level (Static): NA
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Checked By: JM
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SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
351–400				<1.0		351–400

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BORING LOG
Well No. MW-48D

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Kleinfelder Project No: 138681
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Driller: Carey Knaub
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Water Level (Initial): NA
Water Level (Static): NA
Logged By (Geol.): JM

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SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
401						401
402						402
403				<1.0		403
404		End of Borehole				404
405						405
406						406
407						407
408						408
409						409
410						410
411						411
412						412
413						413
414						414
415						415
416						416
417						417
418						418
419						419
420						420
421						421
422						422
423						423
424						424
425						425
426						426
427						427
428						428
429						429
430						430
431						431
432						432
433						433
434						434
435						435
436						436
437						437
438						438
439						439
440						440
441						441
442						442
443						443
444						444
445						445
446						446
447						447
448						448
449						449
450						450

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Hanover, MD 21076
(410) 850-0404

BORING LOG
Well No. MW-131C

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: BL Myers Bros./Eichelbergers
Driller: Matt Disley/Jerry Books
Drill Rig Type: IR T3W/IR T4W
Drilling Method: Air Rotary
Sampling Method: Cuttings

Start Date: 01/23/2008
End Date: 10/08/2013
Total Hole Depth: 359'
Hole Diameter: 6"
Depth to Bedrock: 36'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~10'
Water Level (Static): 9'
Logged By (Geol.): TMK/JM

Permit No.: BA-95-2076
License No.: JWD351
Checked By: EW/JM
Notes: Well was initially drilled to 300' bgs on 01/23-25/2008 and deepened to 359' bgs on 10/08/2013.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
0		Ground Surface				0
0–35		***ML*** SILT with some sand, micaceous, red brown, medium stiff to stiff Saprolite Highly weathered to decomposed schist SCHIST, brown, micaceous, moist, softer material	NA		6" Steel Casing (0'-60') Grout (0'-60')	0–35
35–50		***BR*** Gray, SCHIST, micaceous				35–50

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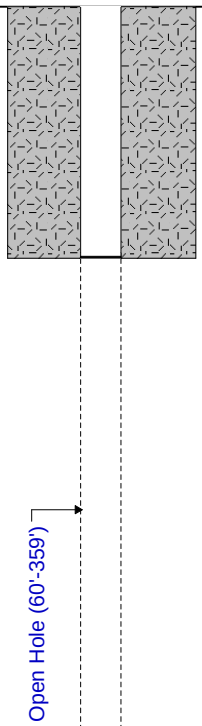
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)



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SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
101–150						101–150

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SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
151–200						151–200

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SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
201–250						201–250

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SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
251–300						251–300

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SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
301–350		***BR*** SCHIST, micaceous, quartzose, trace garnets, gray cuttings, slow/hard drilling		<1.0 (301–305); <1.0 (306–310); <1.0 (311–315); <1.0 (316–320); <1.0 (321–325); <1.0 (326–330); <1.0 (331–335); <1.0 (336–340); <1.0 (341–345); <1.0 (346–350)		301–350

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SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
351–358		***BR*** SCHIST, micaceous, gray cuttings, slow/hard drilling		<1.0 <1.0		351–358
359				<1.0		359
360		End of Borehole				360
361–400						361–400

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BORING LOG
Well No. MW-135C

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Jerry Books
Drill Rig Type: Gill Rock Beetle Rig/IR T4W
Drilling Method: Air Rotary
Sampling Method: Cuttings

Start Date: 02/16/2010
End Date: 07/30/2013
Total Hole Depth: 397'
Hole Diameter: 6-10"
Depth to Bedrock: 55'
Top-Of-Casing Elevation: TBD
Water Level (Initial):
Water Level (Static):
Logged By (Geol.): JM

Permit No.: BA-95-3208
License No.: MWD552/JWD351
Checked By: MB/JM
Notes: Hand auger to 5' bgs
Well was initially drilled to 293' bgs on 02/16-18/2010 and deepened to 397' bgs on 07/29-30/2013.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
0		Ground Surface				0
0–5		***CL*** Silty CLAY, brown	NA			0–5
5–15		Saprolite, brown		0.0		5–15
15–42		Saprolite, brown, wet		0.0	6" Steel Casing (0'-60'); Grout (0'-60')	15–42
42–50		***BR*** SCHIST, gray, wet				42–50

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SUBSURFACE PROFILE			SAMPLE		
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction
60		***BR*** SCHIST, gray, dry		0.1	
70				0.1	Open Hole (60'-397')
80				0.0	
90					
100				0.0	

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SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
101–150				0.0		101–150

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SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
151–200		***BR*** SCHIST, gray, wet				151–200

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SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
201–250						201–250

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SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
251–300						251–300

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SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
301–309		***BR*** SCHIST, quartzose, gray cuttings, slow/hard drilling				301–309
310–314		***BR*** SCHIST, micaceous, quartzose, gray cuttings, slow/hard drilling		<1.0		310–314
315–319		***BR*** SCHIST, quartzose, gray cuttings, slow/hard drilling		<1.0		315–319
320–334		***BR*** SCHIST, quartzose, micaceous, gray cuttings, slow/hard drilling		<1.0 <1.0 <1.0		320–334
335–339		***BR*** SCHIST, quartzose, gray cuttings, hard/slow drilling		<1.0		335–339
340–344		***BR*** SCHIST, micaceous, gray cuttings, slow/hard drilling		<1.0		340–344
345–350		***BR*** SCHIST, quartzose, gray cuttings, slow/hard drilling		<1.0		345–350

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Total Hole Depth: 397'
Hole Diameter: 6-10"
Depth to Bedrock: 55'
Top-Of-Casing Elevation: TBD
Water Level (Initial):
Water Level (Static):
Logged By (Geol.): JM

Permit No.: BA-95-3208
License No.: MWD552/JWD351
Checked By: MB/JM
Notes: Hand auger to 5' bgs
Well was initially drilled to 293' bgs on 02/16-18/2010 and deepened to 397' bgs on 07/29-30/2013.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
351–384		***BR*** SCHIST, micaceous, gray cuttings, slow/hard drilling		<1.0		351–384
385–396		***BR*** SCHIST, micaceous, quartzose, gray cuttings, slow/hard drilling		<1.0		385–396
397		End of Borehole		<1.0		397
398–400						398–400

VOC - Volatile Organic Compound
NA - Not Applicable
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NR - Not Recorded
NM - Not Measured
NE - Not Encountered
ppm - parts per million

USCS - Unified Soil Classification System
WOR - weight of rod
WH - weight of hammer

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BORING LOG
Well No. MW-138D

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 08/07/2013
End Date: 08/08/2013
Total Hole Depth: 404'
Hole Diameter: 6-10"
Depth to Bedrock: 55'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~46'
Water Level (Static): 53.30'
Logged By (Geol.): JM

Permit No.: BA-10-0365
License No.: JWD314
Checked By: JM
Notes: Well at 3506 Hampshire Glen Ct. Boring pre-cleared to 5' by Airknife/Vac.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
0		Ground Surface				0
0–3		***SM*** Brown, dry, silty fine to medium SAND with organics (grass roots)	NA	0.2		0–3
3–5		***SM*** Brown, dry, silty fine to medium SAND		0.1		3–5
5–10		***SM*** Brown, dry, silty SAND with gravel		0.2 0.2 0.2		5–10
10–30		***SM*** Brown, dry, silty fine to medium SAND soft/fast drilling		0.3 0.2 0.2 0.1	6" Steel Casing (0'-60') Grout (0'-60')	10–30
30–40		***SM*** Brown, moist, silty fine SAND soft/fast drilling (greater drilling resistance 35'-36') (greater drilling resistance 39'-40')		<1.0 <1.0		30–40
40–45		***SM*** Brown, moist, silty fine to coarse SAND, micaceous, weathered bedrock at 44' bgs (greater drilling resistance)		<1.0		40–45
45–50		***SM*** Brown, moist, then wet at 46' bgs, silty fine to coarse SAND, micaceous		<1.0		45–50

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BORING LOG
Well No. MW-138D

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 08/07/2013
End Date: 08/08/2013
Total Hole Depth: 404'
Hole Diameter: 6-10"
Depth to Bedrock: 55'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~46'
Water Level (Static): 53.30'
Logged By (Geol.): JM

Permit No.: BA-10-0365
License No.: JWD314
Checked By: JM
Notes: Well at 3506 Hampshire Glen Ct. Boring pre-cleared to 5' by Airknife/Vac.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
51–56		***SM*** Brown gray, moist, fine to medium SAND, micaceous hard drilling/bedrock encountered at 55' drill down to 60' with 10" bit for setting casing		<1.0		51–56
57–60		***BR*** SCHIST, quartzose, micaceous, oxidized/slightly altered, cuttings are brown		<1.0		57–60
61–64		***BR*** SCHIST, quartzose, micaceous, oxidized/slightly altered, cuttings are gray-brown		<1.0		61–64
65–69		***BR*** SCHIST, quartzose, micaceous, quartz grains are coarser (medium) cuttings are gray		<1.0		65–69
70–79		***BR*** SCHIST, quartzose, micaceous, cuttings are gray		<1.0	Open Hole (60'-404')	70–79
80–84		***BR*** SCHIST, quartzose, micaceous, oxidized/slightly altered, brown cuttings from 79.5-80' bgs		<1.0		80–84
85–100		***BR*** SCHIST, quartzose, micaceous, cuttings are gray		<1.0		85–100

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BORING LOG
Well No. MW-138D

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 08/07/2013
End Date: 08/08/2013
Total Hole Depth: 404'
Hole Diameter: 6-10"
Depth to Bedrock: 55'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~46'
Water Level (Static): 53.30'
Logged By (Geol.): JM

Permit No.: BA-10-0365
License No.: JWD314
Checked By: JM
Notes: Well at 3506 Hampshire Glen Ct. Boring pre-cleared to 5' by Airknife/Vac.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
101–119				<1.0		101–119
120		***BR***		<1.0		120
121–123		SCHIST, quartzose, micaceous, cuttings are gray, fracture at 123' bgs		<1.0		121–123
124–150				<1.0		124–150

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BORING LOG
Well No. MW-138D

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 08/07/2013
End Date: 08/08/2013
Total Hole Depth: 404'
Hole Diameter: 6-10"
Depth to Bedrock: 55'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~46'
Water Level (Static): 53.30'
Logged By (Geol.): JM

Permit No.: BA-10-0365
License No.: JWD314
Checked By: JM
Notes: Well at 3506 Hampshire Glen Ct. Boring pre-cleared to 5' by Airknife/Vac.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
151–154				<1.0		151–154
155–159		***BR*** SCHIST, muscovite, quartz, cuttings are light gray		<1.0		155–159
160–164		***BR*** SCHIST, quartzose, micaceous, cuttings are gray		<1.0		160–164
165–169				<1.0		165–169
170–174				<1.0		170–174
175–179				<1.0		175–179
180–184				<1.0		180–184
185–189				<1.0		185–189
190–194				<1.0		190–194
195–200				<1.0		195–200

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BORING LOG
Well No. MW-138D

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 08/07/2013
End Date: 08/08/2013
Total Hole Depth: 404'
Hole Diameter: 6-10"
Depth to Bedrock: 55'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~46'
Water Level (Static): 53.30'
Logged By (Geol.): JM

Permit No.: BA-10-0365
License No.: JWD314
Checked By: JM
Notes: Well at 3506 Hampshire Glen Ct. Boring pre-cleared to 5' by Airknife/Vac.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
201–204				<1.0		201–204
205						205
206–209		***BR*** SCHIST, muscovite, quartz, rock cuttings are light gray (203-207.5' bgs)		<1.0		206–209
210						210
211–214		***BR*** SCHIST, quartzose, micaceous, cuttings are gray		<1.0		211–214
215–218				<1.0		215–218
219–222				<1.0		219–222
223–226				<1.0		223–226
227–230				<1.0		227–230
231–234				<1.0		231–234
235–238				<1.0		235–238
239–242				<1.0		239–242
243–246				<1.0		243–246
247–250						247–250

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BORING LOG
Well No. MW-138D

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 08/07/2013
End Date: 08/08/2013
Total Hole Depth: 404'
Hole Diameter: 6-10"
Depth to Bedrock: 55'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~46'
Water Level (Static): 53.30'
Logged By (Geol.): JM

Permit No.: BA-10-0365
License No.: JWD314
Checked By: JM
Notes: Well at 3506 Hampshire Glen Ct. Boring pre-cleared to 5' by Airknife/Vac.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
251–300				<1.0		251–300

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BORING LOG
Well No. MW-138D

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 08/07/2013
End Date: 08/08/2013
Total Hole Depth: 404'
Hole Diameter: 6-10"
Depth to Bedrock: 55'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~46'
Water Level (Static): 53.30'
Logged By (Geol.): JM

Permit No.: BA-10-0365
License No.: JWD314
Checked By: JM
Notes: Well at 3506 Hampshire Glen Ct. Boring pre-cleared to 5' by Airknife/Vac.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
301–350				<1.0		301–350

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BORING LOG
Well No. MW-138D

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 08/07/2013
End Date: 08/08/2013
Total Hole Depth: 404'
Hole Diameter: 6-10"
Depth to Bedrock: 55'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~46'
Water Level (Static): 53.30'
Logged By (Geol.): JM

Permit No.: BA-10-0365
License No.: JWD314
Checked By: JM
Notes: Well at 3506 Hampshire Glen Ct. Boring pre-cleared to 5' by Airknife/Vac.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
351–400				<1.0		351–400

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BORING LOG
Well No. MW-138D

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 08/07/2013
End Date: 08/08/2013
Total Hole Depth: 404'
Hole Diameter: 6-10"
Depth to Bedrock: 55'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~46'
Water Level (Static): 53.30'
Logged By (Geol.): JM

Permit No.: BA-10-0365
License No.: JWD314
Checked By: JM
Notes: Well at 3506 Hampshire Glen Ct. Boring pre-cleared to 5' by Airknife/Vac.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
401–404				<1.0		401–404
405		End of Borehole				405
406–450						406–450

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BORING LOG
Well No. MW-171C

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: T. Tolland/Carey Knaub
Drill Rig Type: Schramm 555/IR T4W
Drilling Method: Air Hammer/Air Rotary
Sampling Method: Cuttings

Start Date: 05/12/2010
End Date: 07/25/2013
Total Hole Depth: 415'
Hole Diameter: 10"-15"
Depth to Bedrock: 28'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~38.57
Water Level (Static): NA
Logged By (Geol.): KB/JM

Permit No.: BA-95-3407
License No.: JWD318/JWD314
Checked By: KB/JM
Notes: Well initially drilled to 248.6' bgs on 05/12-19/2010 and deepened to 415' bgs on 07/23-25/2013.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
0		Ground Surface				0
0–21		***SW*** SAND, mica, gravel, brown, moist	NA	0.0	10" Steel Casing (0'-125')	0–21
22–27		***SM*** SAND, silt, mica, brown, moist		0.0	Grout (0'-125')	22–27
28–34		***BR*** Biotite, Quartz, Hornblende		0.0		28–34
35–50		***BR*** Biotite, Muscovite, Quartz, Hornblende		0.0		35–50

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ppm - parts per million

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BORING LOG
Well No. MW-171C

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: T. Tolland/Carey Knaub
Drill Rig Type: Schramm 555/IR T4W
Drilling Method: Air Hammer/Air Rotary
Sampling Method: Cuttings

Start Date: 05/12/2010
End Date: 07/25/2013
Total Hole Depth: 415'
Hole Diameter: 10"-15"
Depth to Bedrock: 28'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~38.57
Water Level (Static): NA
Logged By (Geol.): KB/JM

Permit No.: BA-95-3407
License No.: JWD318/JWD314
Checked By: KB/JM
Notes: Well initially drilled to 248.6' bgs on 05/12-19/2010 and deepened to 415' bgs on 07/23-25/2013.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
53		***BR*** Quartz, Biotite, Muscovite, Hornblende		0.0		53
65		SCHIST				65
71		***BR*** Quartz, Biotite, Muscovite, Hornblende, Garnet		0.0		71
80		SCHIST				80
81				0.0		81
91		SCHIST				91

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BORING LOG
Well No. MW-171C

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: T. Tolland/Carey Knaub
Drill Rig Type: Schramm 555/IR T4W
Drilling Method: Air Hammer/Air Rotary
Sampling Method: Cuttings

Start Date: 05/12/2010
End Date: 07/25/2013
Total Hole Depth: 415'
Hole Diameter: 10"-15"
Depth to Bedrock: 28'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~38.57
Water Level (Static): NA
Logged By (Geol.): KB/JM

Permit No.: BA-95-3407
License No.: JWD318/JWD314
Checked By: KB/JM
Notes: Well initially drilled to 248.6' bgs on 05/12-19/2010 and deepened to 415' bgs on 07/23-25/2013.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
101–150		***BR*** SCHIST ***BR*** Quartz, Biotite, Muscovite, Hornblende ***BR*** Biotite, Quartz, Hornblende, Muscovite WEATHERED SCHIST SCHIST SCHIST		0.0 0.0 0.0 0.0	Open Hole (125'-415')	101–150

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BORING LOG
Well No. MW-171C

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: T. Tolland/Carey Knaub
Drill Rig Type: Schramm 555/IR T4W
Drilling Method: Air Hammer/Air Rotary
Sampling Method: Cuttings

Start Date: 05/12/2010
End Date: 07/25/2013
Total Hole Depth: 415'
Hole Diameter: 10"-15"
Depth to Bedrock: 28'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~38.57
Water Level (Static): NA
Logged By (Geol.): KB/JM

Permit No.: BA-95-3407
License No.: JWD318/JWD314
Checked By: KB/JM
Notes: Well initially drilled to 248.6' bgs on 05/12-19/2010 and deepened to 415' bgs on 07/23-25/2013.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
151						151
152				0.0		152
153		***BR***				153
154		Biotite, Quartz, Hornblende, Muscovite, Garnet				154
155						155
156		SCHIST				156
157						157
158						158
159						159
160						160
161						161
162				0.0		162
163						163
164		SCHIST				164
165						165
166						166
167						167
168						168
169						169
170						170
171						171
172						172
173						173
174						174
175						175
176		SCHIST		0.0		176
177						177
178						178
179						179
180						180
181						181
182						182
183						183
184						184
185						185
186						186
187		SCHIST				187
188						188
189				0.0		189
190						190
191						191
192						192
193						193
194						194
195						195
196						196
197						197
198						198
199						199
200						200

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WOR - weight of rod
WH - weight of hammer

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1340 Charwood Road, Suite I
Hanover, MD 21076
(410) 850-0404

BORING LOG
Well No. MW-171C

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: T. Tolland/Carey Knaub
Drill Rig Type: Schramm 555/IR T4W
Drilling Method: Air Hammer/Air Rotary
Sampling Method: Cuttings

Start Date: 05/12/2010
End Date: 07/25/2013
Total Hole Depth: 415'
Hole Diameter: 10"-15"
Depth to Bedrock: 28'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~38.57
Water Level (Static): NA
Logged By (Geol.): KB/JM

Permit No.: BA-95-3407
License No.: JWD318/JWD314
Checked By: KB/JM
Notes: Well initially drilled to 248.6' bgs on 05/12-19/2010 and deepened to 415' bgs on 07/23-25/2013.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
201		***BR***				201
202		SCHIST				202
203						203
204						204
205						205
206						206
207						207
208						208
209						209
210						210
211						211
212						212
213						213
214						214
215						215
216						216
217						217
218						218
219						219
220						220
221		SCHIST				221
222						222
223						223
224						224
225						225
226						226
227						227
228						228
229						229
230						230
231						231
232						232
233						233
234						234
235						235
236						236
237						237
238						238
239						239
240						240
241						241
242						242
243						243
244						244
245		SCHIST				245
246						246
247						247
248						248
249						249
250						250

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Depth to Bedrock: 28'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~38.57
Water Level (Static): NA
Logged By (Geol.): KB/JM

Permit No.: BA-95-3407
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Checked By: KB/JM
Notes: Well initially drilled to 248.6' bgs on 05/12-19/2010 and deepened to 415' bgs on 07/23-25/2013.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
251		***BR*** SCHIST, micaceous, quartzose, gray cuttings slow/hard drilling				251
252						252
253						253
254						254
255						255
256				<1.0		256
257						257
258						258
259						259
260				<1.0		260
261						261
262						262
263						263
264				<1.0		264
265						265
266						266
267						267
268				<1.0		268
269						269
270						270
271						271
272				<1.0		272
273						273
274						274
275						275
276				<1.0		276
277						277
278						278
279						279
280				<1.0		280
281						281
282						282
283						283
284				<1.0		284
285						285
286						286
287						287
288				<1.0		288
289						289
290						290
291						291
292				<1.0		292
293						293
294						294
295						295
296				<1.0		296
297						297
298						298
299						299
300						300

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Drill Rig Type: Schramm 555/IR T4W
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Sampling Method: Cuttings

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Total Hole Depth: 415'
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Depth to Bedrock: 28'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~38.57
Water Level (Static): NA
Logged By (Geol.): KB/JM

Permit No.: BA-95-3407
License No.: JWD318/JWD314
Checked By: KB/JM
Notes: Well initially drilled to 248.6' bgs on 05/12-19/2010 and deepened to 415' bgs on 07/23-25/2013.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
301–350		***BR*** SCHIST, micaceous, quartzose, gray cuttings slow/hard drilling		<1.0 (301–305) <1.0 (306–310) <1.0 (311–315) <1.0 (316–320) <1.0 (321–325) <1.0 (326–330) <1.0 (331–335) <1.0 (336–340) <1.0 (341–345) <1.0 (346–350)		301–350

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Kleinfelder Project No: 138681
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Driller: T. Tolland/Carey Knaub
Drill Rig Type: Schramm 555/IR T4W
Drilling Method: Air Hammer/Air Rotary
Sampling Method: Cuttings

Start Date: 05/12/2010
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Total Hole Depth: 415'
Hole Diameter: 10"-15"
Depth to Bedrock: 28'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~38.57
Water Level (Static): NA
Logged By (Geol.): KB/JM

Permit No.: BA-95-3407
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Notes: Well initially drilled to 248.6' bgs on 05/12-19/2010 and deepened to 415' bgs on 07/23-25/2013.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
351–400		***BR*** SCHIST, micaceous, quartzose, gray cuttings slow/hard drilling		<1.0		351–400

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Driller: T. Tolland/Carey Knaub
Drill Rig Type: Schramm 555/IR T4W
Drilling Method: Air Hammer/Air Rotary
Sampling Method: Cuttings

Start Date: 05/12/2010
End Date: 07/25/2013
Total Hole Depth: 415'
Hole Diameter: 10"-15"
Depth to Bedrock: 28'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~38.57
Water Level (Static): NA
Logged By (Geol.): KB/JM

Permit No.: BA-95-3407
License No.: JWD318/JWD314
Checked By: KB/JM
Notes: Well initially drilled to 248.6' bgs on 05/12-19/2010 and deepened to 415' bgs on 07/23-25/2013.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
401–414		***BR*** SCHIST, micaceous, quartzose, gray cuttings slow/hard drilling		<1.0 <1.0 <1.0		401–414
415		End of Borehole				415
416–450						416–450

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BORING LOG
Well No. MW-188D

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Jerry Books
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 07/31/2013
End Date: 08/05/2013
Total Hole Depth: 436'
Hole Diameter: 6-10"
Depth to Bedrock: 16'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~40.5'
Water Level (Static): NA
Logged By (Geol.): JM

Permit No.: BA-10-0358
License No.: JWD351
Checked By: JM
Notes: Well at 14311 Jarrettsville Pike Boring pre-cleared to 5' by Airknife/Vac.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
0		Ground Surface				0
1–4		***SM*** Brown, dry, silty fine to medium SAND with gravel, micaceous	NA	0.3 0.6 0.2 0.3		1–4
5				0.2		5
6–14		***SM*** Brown, dry, silty fine to medium SAND, micaceous		<1.0		6–14
15–19		***SM*** Tan, dry, silty fine to medium SAND, micaceous slower driling weathered rock		<1.0		15–19
20		***BR*** Bedrock, quartze, biotite hard driling encountered at 16' bgs		<1.0		20
21–25		***BR*** Brown, SCHIST, micaceous softer/weathered zone from 20.5'-21.5' bgs		<1.0		21–25
26–29		***BR*** Gray, SCHIST, micaceous hard drilling, cuttings are gray from 22'-25' bgs		<1.0		26–29
30–34		***BR*** Bedrock, quartze, biotite, garnet hard drilling cuttings are tan from 25'-26.5' bgs		<1.0		30–34
35–39		***BR*** Bedrock, quartze, biotite, garnet hard drilling cuttings are gray from 26.5'-38' bgs		<1.0		35–39
40–44		***BR*** Gray, SCHIST, micaceous, trace garnet hard drilling		<1.0		40–44
45–50		***BR*** Brown, SCHIST, micaceous, hard drilling cuttings are brown from 38'-48'		<1.0	6" Steel Casing (0'-125') Grout (0'-125')	45–50

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BORING LOG
Well No. MW-188D

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Jerry Books
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 07/31/2013
End Date: 08/05/2013
Total Hole Depth: 436'
Hole Diameter: 6-10"
Depth to Bedrock: 16'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~40.5'
Water Level (Static): NA
Logged By (Geol.): JM

Permit No.: BA-10-0358
License No.: JWD351
Checked By: JM
Notes: Well at 14311 Jarrettsville Pike Boring pre-cleared to 5' by Airknife/Vac.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
51–54		***BR*** Brown, SCHIST, micaceous, quartz, garnet hard drilling harder rock at 48', cuttings change to gray at 48'		<1.0		51–54
55–57		***BR*** Gray, SCHIST, micaceous, quartz, garnet hard drilling		<1.0		55–57
58–64				<1.0		58–64
65–71				<1.0		65–71
72–78				<1.0		72–78
79–85				<1.0		79–85
86–89				<1.0		86–89
90–96		***BR*** Gray, SCHIST, micaceous, coarser quartz, garnet, hard drilling		<1.0		90–96
97–100				<1.0		97–100

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Well No. MW-188D

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Kleinfelder Project No: 138681
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Drilling Company: Eichelbergers
Driller: Jerry Books
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Sampling Method: Hand Auger/Cuttings

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SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
101–104				<1.0		101–104
105–109		***BR*** Brown, SCHIST, micaceous, cuttings are brown from 104'-105' bgs hard drilling		<1.0		105–109
110–119		***BR*** Gray, SCHIST, micaceous,quartz, garnet, cuttings are gray from 110' end of boring		<1.0 <1.0		110–119
120–124		***BR*** SCHIST, quartzose, micaceous, cuttings are gray hard/slow drilling		<1.0		120–124
125–150		***BR*** GNEISS, quartzose, amphibole, epidote, micas, dark gray cuttings slow/hard drilling		<1.0 <1.0 <1.0 <1.0 <1.0	Open Hole (125'-436')	125–150

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Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

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Water Level (Static): NA
Logged By (Geol.): JM

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SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
151–169				<1.0		151–169
170–179		***BR*** GNEISS, medium quartz-grains, amphibole, epidote dark gray cuttings slow/hard drilling		<1.0		170–179
180–200		***BR*** GNEISS, amphibole, epiclote, quartz, dark gray cuttings slow/hard drilling		<1.0		180–200

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SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
201–204				<1.0		201–204
205						205
206–209		***BR*** GNEISS, quartzose, light gray cuttings slow/hard drilling		<1.0		206–209
210–214				<1.0		210–214
215–219		softer/weathered/faster drilling from 214'-215'		<1.0		215–219
220						220
221–224		***BR*** GNEISS, amphibole, epidote, quartz, darker gray cuttings, softer/weathered/faster drilling from 222'-222.5' bgs		<1.0		221–224
225						225
226–229		***BR*** GNEISS, amphibole, epidole, quartz, dark gray cuttings, transition to softer/faster drilling at 230' bgs		<1.0		226–229
230						230
231–236		***BR*** SCHIST, quartzose, medium grains		<1.0		231–236
237						237
238–243		***BR*** SCHIST, quartzose, micaceous, trace garnets, gray cuttings faster drilling		<1.0		238–243
244						244
245–249				<1.0		245–249
250						250

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SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
251		***BR***				251
252		SCHIST, quartzose, micaceous, gray cuttings				252
253		steady/medium drill rate		<1.0		253
254						254
255						255
256						256
257				<1.0		257
258						258
259						259
260						260
261						261
262				<1.0		262
263						263
264						264
265						265
266						266
267				<1.0		267
268						268
269						269
270						270
271						271
272				<1.0		272
273						273
274						274
275						275
276						276
277				<1.0		277
278						278
279						279
280						280
281						281
282				<1.0		282
283						283
284						284
285						285
286						286
287				<1.0		287
288						288
289						289
290						290
291						291
292				<1.0		292
293						293
294						294
295						295
296						296
297				<1.0		297
298						298
299						299
300						300

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Water Level (Static): NA
Logged By (Geol.): JM

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Notes: Well at 14311 Jarrettsville Pike Boring pre-cleared to 5' by Airknife/Vac.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
301–344				<1.0		301–344
345–350		***BR*** SCHIST, quartzose, micaceous, gray cuttings steady/medium drill rate Muscarite dominated from 345' to 350' bgs		<1.0		345–350

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Hanover, MD 21076
(410) 850-0404

BORING LOG
Well No. MW-188D

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Jerry Books
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 07/31/2013
End Date: 08/05/2013
Total Hole Depth: 436'
Hole Diameter: 6-10"
Depth to Bedrock: 16'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~40.5'
Water Level (Static): NA
Logged By (Geol.): JM

Permit No.: BA-10-0358
License No.: JWD351
Checked By: JM
Notes: Well at 14311 Jarrettsville Pike Boring pre-cleared to 5' by Airknife/Vac.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
351–400				<1.0		351–400

VOC - Volatile Organic Compound
NA - Not Applicable
NS - Not Sampled
NR - Not Recorded
NM - Not Measured
NE - Not Encountered
ppm - parts per million

USCS - Unified Soil Classification System
WOR - weight of rod
WH - weight of hammer

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Permit No.: BA-10-0358
License No.: JWD351
Checked By: JM
Notes: Well at 14311 Jarrettsville Pike Boring pre-cleared to 5' by Airknife/Vac.

SUBSURFACE PROFILE			SAMPLE		
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction
401–435				<1.0	
436		End of Borehole		<1.0	
437–450					

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WOR - weight of rod
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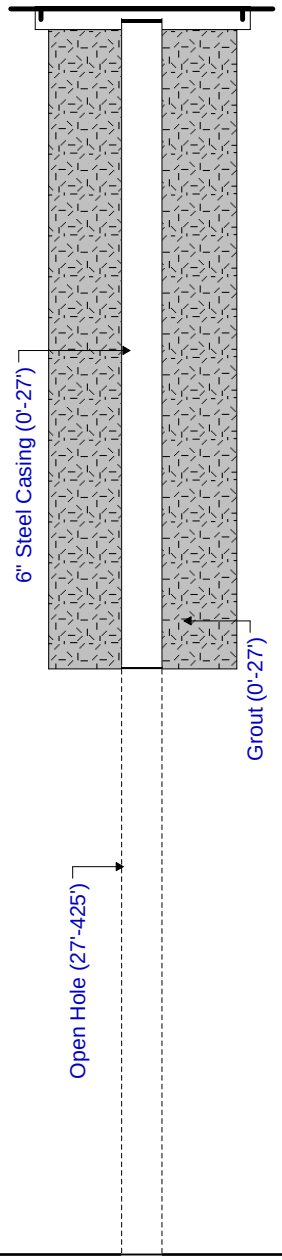
BORING LOG
Well No. PW-3501

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Unknown/Eichelbergers
Driller: Robert Brown/Carey Knaub
Drill Rig Type: Unknown/IR T4W
Drilling Method: Air Rotary
Sampling Method: Cuttings

Start Date: 02/29/1988
End Date: 07/19/2013
Total Hole Depth: 425'
Hole Diameter: 6"
Depth to Bedrock: NR
Top-Of-Casing Elevation: TBD
Water Level (Initial): NR
Water Level (Static): 45'
Logged By (Geol.): RB/JM

Permit No.: BA-81-7044
License No.: 399/JWD314
Checked By: JM
Notes: Well at 3501 Hampshire Glen Ct. Well initially drilled to 300' bgs on 02/29/1988 and deepened to 425' bgs on 07/16-19/2013.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
0		Ground Surface				0
0		***BR*** Brown, SHALE	NA			0
1–24						1–24
25		***BR*** Green, ROCK				25
26–50						26–50



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BORING LOG
Well No. PW-3501

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Water Level (Initial): NR
Water Level (Static): 45'
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License No.: 399/JWD314
Checked By: JM
Notes: Well at 3501 Hampshire Glen Ct. Well initially drilled to 300' bgs on 02/29/1988 and deepened to 425' bgs on 07/16-19/2013.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
51–100						51–100

VOC - Volatile Organic Compound
NA - Not Applicable
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NR - Not Recorded
NM - Not Measured
NE - Not Encountered
ppm - parts per million

USCS - Unified Soil Classification System
WOR - weight of rod
WH - weight of hammer

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BORING LOG
Well No. PW-3501

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
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Sampling Method: Cuttings

Start Date: 02/29/1988
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Hole Diameter: 6"
Depth to Bedrock: NR
Top-Of-Casing Elevation: TBD
Water Level (Initial): NR
Water Level (Static): 45'
Logged By (Geol.): RB/JM

Permit No.: BA-81-7044
License No.: 399/JWD314
Checked By: JM
Notes: Well at 3501 Hampshire Glen Ct. Well initially drilled to 300' bgs on 02/29/1988 and deepened to 425' bgs on 07/16-19/2013.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
101–150						101–150

VOC - Volatile Organic Compound
NA - Not Applicable
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NR - Not Recorded
NM - Not Measured
NE - Not Encountered
ppm - parts per million

USCS - Unified Soil Classification System
WOR - weight of rod
WH - weight of hammer

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BORING LOG
Well No. PW-3501

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Unknown/Eichelbergers
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Sampling Method: Cuttings

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End Date: 07/19/2013
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Hole Diameter: 6"
Depth to Bedrock: NR
Top-Of-Casing Elevation: TBD
Water Level (Initial): NR
Water Level (Static): 45'
Logged By (Geol.): RB/JM

Permit No.: BA-81-7044
License No.: 399/JWD314
Checked By: JM
Notes: Well at 3501 Hampshire Glen Ct. Well initially drilled to 300' bgs on 02/29/1988 and deepened to 425' bgs on 07/16-19/2013.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
151–200						151–200

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ppm - parts per million

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BORING LOG
Well No. PW-3501

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Unknown/Eichelbergers
Driller: Robert Brown/Carey Knaub
Drill Rig Type: Unknown/IR T4W
Drilling Method: Air Rotary
Sampling Method: Cuttings

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End Date: 07/19/2013
Total Hole Depth: 425'
Hole Diameter: 6"
Depth to Bedrock: NR
Top-Of-Casing Elevation: TBD
Water Level (Initial): NR
Water Level (Static): 45'
Logged By (Geol.): RB/JM

Permit No.: BA-81-7044
License No.: 399/JWD314
Checked By: JM
Notes: Well at 3501 Hampshire Glen Ct. Well initially drilled to 300' bgs on 02/29/1988 and deepened to 425' bgs on 07/16-19/2013.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
201		***BR*** Gray, ROCK				201
202–250						202–250

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BORING LOG
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Drilling Method: Air Rotary
Sampling Method: Cuttings

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End Date: 07/19/2013
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Hole Diameter: 6"
Depth to Bedrock: NR
Top-Of-Casing Elevation: TBD
Water Level (Initial): NR
Water Level (Static): 45'
Logged By (Geol.): RB/JM

Permit No.: BA-81-7044
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Checked By: JM
Notes: Well at 3501 Hampshire Glen Ct. Well initially drilled to 300' bgs on 02/29/1988 and deepened to 425' bgs on 07/16-19/2013.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
251–300						251–300

VOC - Volatile Organic Compound
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BORING LOG
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Sampling Method: Cuttings

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Hole Diameter: 6"
Depth to Bedrock: NR
Top-Of-Casing Elevation: TBD
Water Level (Initial): NR
Water Level (Static): 45'
Logged By (Geol.): RB/JM

Permit No.: BA-81-7044
License No.: 399/JWD314
Checked By: JM
Notes: Well at 3501 Hampshire Glen Ct. Well initially drilled to 300' bgs on 02/29/1988 and deepened to 425' bgs on 07/16-19/2013.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
301–330		***BR*** SCHIST, micaceous, gray cuttings, slow/hard drilling		<1.0		301–330
330–340		***BR*** SCHIST, micaceous, quartzose, gray cuttings, slow/hard drilling		<1.0		330–340
340–350		***BR*** SCHIST, micaceous, gray cuttings, slow/hard drilling		<1.0		340–350

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Checked By: JM
Notes: Well at 3501 Hampshire Glen Ct. Well initially drilled to 300' bgs on 02/29/1988 and deepened to 425' bgs on 07/16-19/2013.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
351–400				<1.0		351–400

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License No.: 399/JWD314
Checked By: JM
Notes: Well at 3501 Hampshire Glen Ct. Well initially drilled to 300' bgs on 02/29/1988 and deepened to 425' bgs on 07/16-19/2013.

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
401–414				<1.0		401–414
415–424		***BR*** SCHIST, micaceous, quartzose, trace garnet, gray cuttings, slow/hard drilling		<1.0		415–424
425		***BR*** SCHIST, micaceous, gray cuttings, slow/hard drilling		<1.0		425
426–450		End of Borehole				426–450

VOC - Volatile Organic Compound
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ppm - parts per million

USCS - Unified Soil Classification System
WOR - weight of rod
WH - weight of hammer

APPENDIX C

Final Report
Borehole Geophysical Logging Program
Seven Wells
Phoenix, MD
MAG Reference Number 081325

Prepared For: Kleinfelder
Prepared By: Mid-Atlantic Geosciences
October 18, 2013

1051 Columbia Avenue ● Lancaster, PA 17603 ● 717.396.8922 ● Fax 717.396.8746 ● email@enviroscan.com ● www.enviroscan.com

October 18, 2013

Ms. Stacey Schiding
Kleinfelder
1340 Charwood Road
Suite 201
Hanover, MD 21076

RE: Borehole Geophysical Logging Program
Seven Wells
Phoenix, MD
MAG Reference Number 081325

Dear Mr. Schiding:

Pursuant to our proposal dated August 20, 2013, Mid-Atlantic Geosciences (MAG – the borehole logging division of Enviroscan, Inc.) completed the above-referenced survey on September 6 through October 3, 2013. The objective of the survey was to locate and characterize fractures and potential water-bearing zones intersecting the wells. To accomplish these objectives, MAG conducted Optical Televiewer, Acoustic Televiewer, Borehole Verticality, 3-Arm Caliper, Fluid Temperature, Fluid Conductivity, Natural Gamma, and Heat Pulse Flowmeter logging in the wells.

Logging Equipment

Mid-Atlantic Geosciences conducts borehole geophysics, televiewer, and video logging using a Robertson Geologging, Ltd. Micrologger II and/or a Mount Sopris Matrix. These units record digital data for on-site log playback, reproduction, and field interpretation, as well as post-processing and report presentation. The systems are driven by field PCs running software supplied by the manufacturer for data acquisition, log replay, probe control, probe calibration, and logging environment compensation. Video data (if collected) are recorded in real time to the hard drive of a DVD player/recorder, and can be burned in the field to a DVD that is left with the client's on-site representative.

All of the logging instruments are permanently mounted in a dedicated Ford F350 or Dodge RAM2500 enclosed-bed truck, each with a self-contained power supply, and support and decontamination equipment. The downhole probes or sondes are connected to either a Robertson Geologging Smartwinch with approximately 600 feet of 0.375-inch coaxial cable, or a Robertson 2000m winch with approximately 3000 feet of 0.25-inch coaxial cable – depending on the depth of the wells logged.

Decontamination Procedure

Prior to Mid-Atlantic departure to a site, the winch cable and sondes scheduled for use are decontaminated to ensure the quality of sampling by preventing cross-contamination. The procedure described below was implemented both before and after logging.

The equipment used for decontamination is listed below.

- Distilled water
- Liquinox detergent 1:100 solution (mixed with distilled water)
- Stiff-bristle brush
- Manual pump spray bottle
- Heavy duty paper towels
- 5-gallon bucket with lid

Procedure

1. A decontamination area is designated and set-up.
2. Proper personal protective equipment in donned (i.e. nitrile gloves, safety glasses).
3. Sondes are removed from their containers and placed in the decontamination area.
4. Mixed detergent solution is applied to each sonde with a manual pump spray bottle.
5. Sondes are manually wiped down with a paper towel or scrubbed with a stiff bristle brush, depending on the amount of mud or dirt on the sonde.
6. Sondes are rinsed with distilled water and dried with a paper towel.
7. Discarded water is captured in a 5-gallon bucket and sealed for proper disposal and not allowed to infiltrate the soil.
8. If a sonde is still visibly contaminated, the process is repeated as necessary.
9. Decontamination of the winch cable is performed during the first deployment of a sonde down a borehole and on the last retrieval of a sonde for each borehole.
10. Mixed detergent solution is sprayed on paper towels and the cable is wiped down on its initial deployment down a borehole.
11. Paper towels are monitored for cleanliness and replaced as necessary.
12. Cable decontamination process is repeated on the final recovery of a sonde for each borehole.

Logging Parameters and Methodology

Geophysical well logging in general involves lowering sondes in a borehole and recording parameters that are related to the properties of the adjacent soil or rock, the fluids in the borehole or formation, and/or construction details of the well. There are many tools and techniques that have been developed to provide specific information in different environments and constructions of drilled holes. The data collected can define the nature and extent of geologic formations and formation fluids, and can be used to provide correlation between holes.

The sondes used for this survey are described below. Note that before any of these tools are put into service for a particular job, MAG personnel test them for proper function and recalibrate as necessary. This is essential to the proper acquisition of downhole data and the ability to relate the data from one borehole to another.

Optical Televiewer

The borehole optical televiewer (OPTV) or Optical Borehole Imager (OBI) provides a high-resolution digital optical scan of the interior of a borehole using visible wavelength light. From the accurately-scaled, continuous image it is possible to identify the depth and character of features such as fractures, bedding planes, veins, solution openings, etc. In particular, it is possible to calculate the strike, dip, and aperture of planar features. The OPTV operates by using a high-resolution color downhole camera which views a reflection of the borehole walls in a hyperbolic correction mirror. At successive depth increments of 0.5 mm, rings of pixels corresponding to circular scans of the borehole wall are acquired from the probe and stacked into a continuous image. The image is rectangular – representing the interior of a cylinder that has been sliced open and rolled-out flat. The image is oriented to north based on data from three magnetometers and accelerometers in the sonde. Note that the use of magnetometers for orientation leads to image distortion in steel-cased holes, and within several feet of the base of steel casing in open holes. All OPTV sondes require an open borehole, or one filled with a clear fluid.

Planar features intersecting a cylindrical borehole appear sinusoidal on the flattened cylindrical image. The azimuth of the peak/trough of the sinusoid, and the amplitude of the sinusoid can be measured and used to calculate the strike and dip (see Appendix A) of such features. Based on their visual character, planar features on the optical televiewer (and HRAT – see below) logs have been categorized on the log sheets as various types of geologic interface (fractures, bedding planes, foliation, etc.). Once sinusoids were fit to the structures they were classified (Appendix B) and then corrected for borehole tilt. Data were subsequently corrected for declination using NOAA's "Estimated Value of Magnetic Declination" online calculator for each well location.

Tables listing the depth, aperture, strike, dip and type of feature are included in this report, for each well, as Appendix C. Feature apertures are listed in tenths of an inch. An aperture of zero for an open fracture simply means that while it appears to be a continuous open feature, the opening is smaller than the line thickness on the log (~0.019 inches).

Note also that it has been the experience of MAG that the aperture of a feature is not always a strong indicator of its water-producing potential. Thin, discrete features sometimes produce as much or more water than wide, open fractures or fracture zones.

Acoustic Televiewer

The high-resolution acoustic televiewer (HRAT) provides a scan or image of the interior of the borehole that is created not by reflected visible wavelength light, but by reflected ultrasound. Since ultrasonic pulses are used, it is possible to record both the amplitude and travel time of each pulse, and construct two separate images. The amplitude log is analogous to a visual scan, while the travel time data are affected primarily by the local diameter of the borehole (i.e. the larger the bore, the later the arrival of the reflected pulse), and therefore can supplement or replace a caliper log. The main advantage of the HRAT probe is that it can be used in larger boreholes than optical tools, and in holes with turbid or particle-loaded fluids that would be opaque to optical methods.

The HRAT operates by using a fixed acoustic transducer and a rotating acoustic mirror capable of focusing on the borehole wall at any distance from the probe diameter upwards. The acoustic transducer is focused based on the borehole diameter and impedance-matched to the borehole fluid to provide optimum image resolution and reflected amplitude. Mirror rotation speed (i.e. circumferential resolution), sampling rate (i.e. depth resolution), signal gain (i.e. amplitude image contrast), and recording time gate (i.e. travel time image contrast) are all variable and under operator control to provide the best image possible under borehole-specific conditions.

HRAT logs are presented as accurately-scaled and accurately-oriented cylindrical images that are sliced open and laid flat. Therefore, planar dipping features appear as sinusoids from which the strike and dip of the feature can be calculated (see Appendix A). Selected and representative televiewer features are listed in Appendix C and on the log sheet. Based on their visual character, planar features have been categorized as various types of geologic interface (fractures, bedding planes, foliation, etc.). Feature apertures are listed in tenths of an inch. An aperture of zero for an open fracture simply means that while it appears to be a continuous open feature, the opening is smaller than the line thickness on the log (~0.019 inches).

Borehole Verticality

Borehole Verticality or (Borehole Deviation) is the measurement of a borehole's departure from the vertical measured in degrees. The HRAT and OPTV sondes employ a combination of precision magnetometers and accelerometers to measure the tools orientation with respect to the earth's magnetic and gravitational fields. Through mathematical analysis in WellCad v.4.4 the tool trajectory can be plotted in 3-D space. The tool verticality feature will function in a dry or fluid-filled hole but will not function in the presence of casing unless the casing is non-ferrous metal or plastic. The results of this survey are included in this report as a bulls-eye view in Appendix D.

Three-Arm Caliper

Caliper measurements represent the average diameter of the borehole or well at a given depth. The caliper tool collects and transmits the data from three spring-loaded arms as the tool is lifted upwards through the borehole. The caliper tool is used to locate solution openings or fractures (where the borehole is typically enlarged due either to the presence of natural openings, or to plucking of broken rock by the drill bit), and to determine the length of casing intervals (as evident from small changes in casing diameter, or the small enlargements at threaded junctions, or narrowing due to the bead at welded junctions).

Caliper logs are collected by calibrating the downhole tool with a measuring template, lowering the tool to the base of the well, remotely opening the arms, and then logging the open borehole and casing diameter in an upward direction. Caliper logs are acquired with a logging speed of no more than 12 feet per minute.

Acoustic Caliper

As the HRAT logs an acoustic image, travel time of the acoustic signal is collected. This high-resolution travel time log can be converted into an acoustic caliper log showing the borehole radius much like a mechanical 3-Arm Caliper log. Acoustic caliper logs are acquired with a logging speed of no more than 3 feet per minute.

The HRAT must be properly centralized in order to acquire an accurate measurement of the acoustic signal time. Using a centralization process, the acoustic time log data is fit to a sinusoid to remove any trends and correct the travel time.

In addition to the travel time log, the acoustic caliper log requires a few parameters that include, the unit in which the travel time was recorded, the velocity of the acoustic signal in the borehole fluid, radius of the HRAT, and the internal (inside the tool) two-way travel time of the acoustic signal. Due to significant vertical deviation that caused the 3-arm mechanical caliper data to be adversely affected, an acoustic caliper log was produced for these boreholes to provide an accurate diameter of the boreholes under these conditions.

Fluid Temperature

Fluid temperature logs provide the temperature of the air or fluid in a borehole as a function of depth. Temperature logs can indicate where water is entering or leaving a borehole – and thereby disturbing the normal geothermal gradient. Deviations, offsets, or changes in the slope of the temperature log can be used to locate zones of water movement within the borehole. Temperature logs must be run in wells that have been allowed to fully equilibrate to the local geothermal gradient following any prior drilling, construction, pumping or sampling. During a temperature survey, data accuracy is ensured by maintaining a downward logging speed of approximately 10 feet per minute (fpm). This provides an adequate time buffer to allow sensors to respond to minor temperature changes.

Fluid Conductivity

Fluid conductivity logs provide a continuous measurement of the electrical conductivity of the borehole fluid – i.e. zero in air or hydrocarbons, greater than zero in water. In water, electrical conductivity is mostly a function of electrolytic content. Water with very low dissolved solid concentrations will yield low fluid conductivity, while water containing a high level of dissolved solids will be proportionally more conductive. Fluid conductivity logs often deflect where water-producing features are transmitting water into or out of the well (since the well water may have a differing electrolytic chemistry than the formation water). The fluid conductivity log is usually collected simultaneously with the temperature log – since for both, data from a fully equilibrated water column is required.

Natural Gamma

Gamma logs are one of the most widely used geophysical logs in groundwater applications. They are used primarily to identify changes in lithology – specifically the relative amounts of clay in various sedimentary units.

A gamma log provides a record of the total natural gamma radiation detected within a given energy range. In water-bearing rocks and sediments that are not contaminated by artificial radioisotopes, the most significant naturally-occurring, gamma-emitting radioisotopes are potassium-40 and the daughter products of the uranium and thorium decay series. If gamma-emitting artificial radioisotopes have been introduced by humans into the groundwater system, they will also produce part of the radiation measured.

The amplitude of gamma-log deflections is affected by any borehole condition that alters the density of the material through which gamma photons must pass or the length of the travel path. The bedding of a gamma-emitting formation must be thick to obtain a quantitative value since the detector will be affected by the radiation from the formation as the tool approaches and passes the bed. Although increases in borehole diameter or the presence of steel casing will decrease the recorded gamma count, it is possible to collect usable information in both cased and open portions of the borehole using the gamma sonde. The presence of potassium-rich (and therefore gamma-emitting) bentonite clay commonly used in well construction will generally produce high gamma count peaks on a natural gamma log. MAG has natural gamma detectors on many sondes, and comparison of the multiple gamma logs collected for any given well logging program are used to ensure that the depths of differing logs are not erroneously shifted. Therefore, the gamma log presented for any well may have been collected simultaneously with any of the other logs from the same well.

Heat Pulse Flowmeter

Unlike all other logs that are continuous records of some parameter versus depth, heat pulse flowmeter (HPFM) logs are made with the sonde stationary in the borehole at discrete depth intervals or at stations selected to suit a particular study. In the sonde, large capacitors are charged from the surface power supply and can be discharged rapidly on command through a high resistance wire grid (like the heating elements on an electric stove). The discharge creates an infinitesimally thin disc of heated water. By conduction alone, the heat in this disc disperses slowly due to the poor heat conduction of water. In addition, the slight change in density of the heated water will cause it to rise very slowly (i.e. by convection). However, in the presence of vertical flow, the heated disc of water will move up or down with the flow velocity. In the sonde, thermistors are set at fixed equal distances above and below the heating grid, and sense the passage of the heated disc. Prior to firing the heating element, the two thermistor outputs are equalized so it is possible to interpret any subsequent differential output as a relative change in temperatures between thermistors. The temperature differential data is sent to the surface where the flow rate (in fpm) can be calculated based on the known positions of the thermistors. If the borehole diameter is known, the flow in fpm can be converted to gallons per minute (gpm). Note that by convention, negative flow values represent downward flow.

The main limitation of the heat pulse flowmeter is that it can only accurately measure the vertical component of flow in a borehole. Any horizontal flow cannot be quantified due to the location of the thermistors relative to the heat grid. This factor must be taken into consideration when interpreting heat pulse flowmeter data. Unfortunately, there is no reliable tool for measuring horizontal flow in a borehole. In addition, please note that even in the presence of water-bearing features, vertical flow will only occur in a static well if it intersects two or more features with differing hydraulic heads. For example, a well might intersect just a single, highly productive zone, but since there is no other zone with a different head, the only static flow in the well would be horizontal (across the well - if at all). Therefore, lack of vertical flow under static conditions does not necessarily imply an absence of hydrogeologically important features.

The heat pulse flowmeter is typically operated after the borehole has stabilized from the effects of any prior logging runs in the borehole. In addition, after moving the sonde itself, the hole is allowed to equilibrate before taking any measurements. At each station, multiple measurements are usually recorded to ensure repeatability. The borehole is also allowed to equilibrate between successive measurements at a given station to ensure that the measured flow is due to natural flow conditions, and not conduction or convection from previous measurements. The heat pulse flowmeter is typically run under static conditions and may not quantify flow in some water-producing zones where there is only horizontal flow and/or no head difference between adjacent features. However, in some cases, these zones may be identified by recording heat pulse flowmeter data under stressed or pumping conditions which induce artificial head differences.

Logging Results

The wells were logged on September 6 through October 3, 2013. The logging results for the wells are presented on the enclosed digital logs and tables, and briefly summarized below.

Note that since analysis of borehole geophysical logs can be quite subjective, and the level of detail is dependent upon the specific goals of the geologist, the analysis by MAG below covers the major features of each log, as well as some possibly minor features to serve as examples or guides for further interpretation by geologists familiar with the site, local geology, and/or project goals. In general, logs may display deviations (i.e. "spikes" where the parameter deviates from, and then returns to, "background" level), offsets (changes in background level), or slope changes. Any of these could be considered significant in certain situations, or when compared to correlating features at the same depth on other logs. If there are any questions about the features discussed (or not discussed) below, please do not hesitate to contact MAG.

MW-138D

Noted Features

- The total depth (TD) of the well was logged at approximately 401.5 feet below top of casing (TOC)
- The depth to water (DTW) was measured at 48.5 feet below TOC at the time of the survey.
- The diameter of the casing at the surface was measured to be six inches, and the bottom of the casing (BOC) was located at approximately 60.5 feet below TOC.
- The caliper (borehole diameter) log reveals borehole enlargements located at 81, 124.5 and 199.5 feet below TOC.
- The fluid temperature log shows no significant deviations, offsets, or changes in slope.
- The fluid conductivity log shows no significant deviations, offsets, or changes in slope.
- Planar features were recognizable on the televiewer logs. The depth, strike, dip, aperture, and feature type are listed on the log, as well as on the accompanying table in Appendix C.
- The natural gamma logs show generally smooth variations that are probably related primarily to the clay content of the formation.
- The bottom of the well is offset from the wellhead by about 51 feet in the direction S22^{o}E, with the deviation increasing with depth.

- Based primarily on the locations of caliper anomalies and televiewer features recognized in the field, thirteen stations or depths were selected for heat pulse flowmeter measurements. The recorded flows (based on an averaging of three to seven individual measurements per station) are listed below, with positive being upward.

Depth (feet BGS)	Vertical Flow (GPM)
59	.02
69	0
80	0
99	0
121	0
152	.01
191	.16
199	0
260	0
319	0
339	0
380	0
400	0

MW-135C

Noted Features

- The total depth (TD) of the well was logged at approximately 393.2 feet below ground surface (BGS).
- The diameter of the casing at the surface was measured to be six inches.
- The acoustic caliper (borehole diameter) log reveals a borehole enlargement located at 295.5 feet BGS. Note that the acoustic caliper log was produced due to the 3-arm mechanical caliper collapsing near the bottom of the borehole from significant deviation of the borehole.
- The fluid temperature log shows no significant deviations, offsets, or changes in slope.
- The fluid conductivity log shows no significant deviations, offsets, or changes in slope.
- Planar features were recognizable on the televiewer logs. The depth, strike, dip, aperture, and feature type are listed on the log, as well as on the accompanying table in Appendix C.
- The natural gamma logs show generally smooth variations that are probably related primarily to the clay content of the formation.
- The bottom of the well is offset from the wellhead by about 35 feet in the direction S3^{o}E, with the deviation increasing with depth.
- Based primarily on the locations of caliper anomalies and televiewer features recognized in the field, seven stations or depths were selected for heat pulse flowmeter measurements. The recorded flows (based on an averaging of three to seven individual measurements per station) are listed below, with positive being upward.

Depth (feet BGS)	Vertical Flow (GPM)
290	0
296	0
325	0
355	0
360	0
370	0
380	0

MW-36C

Noted Features

- The total depth (TD) of the well was logged at approximately 416.5 feet below ground surface (BGS).
- The depth to water (DTW) was measured at 50.4 feet BGS at the time of the survey.
- The acoustic caliper (borehole diameter) log reveals an enlargement located at 286 feet BGS.
- The fluid temperature log shows no significant deviations, offsets, or changes in slope.
- The fluid conductivity log shows no significant deviations, offsets, or changes in slope.
- Planar features were recognizable on the televiewer logs. The depth, strike, dip, aperture, and feature type are listed on the log, as well as on the accompanying table in Appendix C.
- The natural gamma logs show generally smooth variations that are probably related primarily to the clay content of the formation.
- The bottom of the well is offset from the top of the logged depth at 285 feet BGS by about 26 feet in the direction S8^{o}E, with the deviation increasing with depth.
- Based primarily on the locations of caliper anomalies and televiewer features recognized in the field, six stations or depths were selected for heat pulse flowmeter measurements. The recorded flows (based on an averaging of three to seven individual measurements per station) are listed below, with positive being upward.

Depth (feet BGS)	Vertical Flow (GPM)
340	0
350	0
368	0
373	0
380	.04
390	0

MW-27B

Noted Features

- The total depth (TD) of the well was logged at approximately 124.2 feet below ground surface (BGS).
- The depth to water (DTW) was measured at 46 feet BGS at the time of the survey.
- The diameter of the casing at the surface was measured to be 6 inches, and the bottom of the casing (BOC) was located at approximately 58.5 feet BGS.
- The caliper (borehole diameter) log reveals a few borehole enlargements located at 63, 67.5, and 72, feet BGS.
- The fluid temperature log shows no significant deviations, offsets, or changes in slope and shows a general cooling trend with depth.
- The fluid conductivity log shows no deviations, offsets, or changes in slope.
- Planar features were recognizable on the televiewer logs. The depth, strike, dip, aperture, and feature type are listed on the log, as well as on the accompanying table in Appendix C.
- The natural gamma logs show generally smooth variations that are probably related primarily to the clay content of the formation.
- The bottom of the well is offset from the wellhead by about 2 feet in the direction S15^{o}E, with the deviation increasing with depth.
- Based primarily on the locations of caliper anomalies and televiewer features recognized in the field, five stations or depths were selected for heat pulse flowmeter measurements. The recorded flows (based on an averaging of three to seven individual measurements per station) are listed below, with positive being upward.

Depth (feet BGS)	Vertical Flow (GPM)
65	0
75	0
102	.03
106	0
112	0

MW-171C

Noted Features

- The total depth (TD) of the well was logged at approximately 410 feet below ground surface (BGS).
- The diameter of the casing at the surface was measured to be ten inches, and the bottom of the casing (BOC) was located at approximately 122 feet BGS.
- The caliper (borehole diameter) log reveals no significant borehole enlargements.
- The fluid temperature log shows no deviations, offsets, or changes in slope, and displays a warming trend with depth.
- The fluid conductivity log shows a step-like deviation located at 382 feet BGS.
- Planar features were recognizable on the televiewer logs. The depth, strike, dip, aperture, and feature type are listed on the log, as well as on the accompanying table in Appendix C.
- The natural gamma logs show generally smooth variations that are probably related primarily to the clay content of the formation.
- The bottom of the well is offset from the top of the televiewer log located at 239 feet BGS by about 28 feet in the direction S8^{o}E, with the deviation increasing with depth.
- Based primarily on the locations of caliper anomalies and televiewer features recognized in the field, nine stations or depths were selected for heat pulse flowmeter measurements. The recorded flows (based on an averaging of three to seven individual measurements per station) are listed below, with positive being upward.

Depth (feet BGS)	Vertical Flow (GPM)
260	0
265	0
272	0
276	0
300	0
309	0
320	0
376	0
382	0

MW-188D

Noted Features

- The total depth (TD) of the well was logged at approximately 432 feet below ground surface (BGS).
- The depth to water (DTW) was measured at 58.9 feet BGS at the time of the survey.
- The diameter of the casing at the surface was measured to be six inches, and the bottom of the casing (BOC) was located at approximately 125 feet BGS.
- The caliper (borehole diameter) log reveals some subtle borehole enlargements located at 137, 141.5, 200.5, 212.5, 220.3, 227, and 239 feet BGS.
- The fluid temperature log shows an offset located at 179 feet BGS. A cooling trend from the top of the water column to 235 feet BGS was observed as well as a switch to a warming trend from approximately 300 feet BGS to the bottom of the borehole.
- The fluid conductivity log shows a step-like deviation located at 425.5 feet BGS.
- Planar features were recognizable on the televiewer logs. The depth, strike, dip, aperture, and feature type are listed on the log, as well as on the accompanying table in Appendix C.
- The natural gamma logs show generally smooth variations that are probably related primarily to the clay content of the formation.
- The bottom of the well is offset from the wellhead by about 38 feet in the direction S15^{o}E, with the deviation increasing with depth.

- Based primarily on the locations of caliper anomalies and televiewer features recognized in the field, twelve stations or depths were selected for heat pulse flowmeter measurements. The recorded flows (based on an averaging of three to seven individual measurements per station) are listed below, with positive being upward.

Depth (feet BGS)	Vertical Flow (GPM)
144	.01
150	.01
197	0
203	0
218	0
222	0
228	.02
235	.02
241	.03
300	0
350	0
400	0

PW-3501

Noted Features

- The total depth (TD) of the well was logged at approximately 423 feet below ground surface (BGS).
- The depth to water (DTW) was measured at 44.5 feet BGS at the time of the survey.
- The diameter of the casing at the surface was measured to be six inches.
- The acoustic caliper (borehole diameter) log reveals borehole enlargements located at 297 and 299.5 feet BGS.
- The fluid temperature log shows no deviations offsets or changes in slope and shows a warming trend with depth.
- The fluid conductivity log shows no deviations, offsets or changes in slope.
- Planar features were recognizable on the televiewer logs. The depth, strike, dip, aperture, and feature type are listed on the log, as well as on the accompanying table in Appendix C.
- The natural gamma logs show generally smooth variations that are probably related primarily to the clay content of the formation.
- The bottom of the well is offset from the top of the televiewer log located at 290 feet BGS by about 30 feet in the direction S10^{o}E, with the deviation increasing with depth.

- Based primarily on the locations of caliper anomalies and televiewer features recognized in the field, six stations or depths were selected for heat pulse flowmeter measurements. The recorded flows (based on an averaging of three to seven individual measurements per station) are listed below, with positive being upward.

Depth (feet BGS)	Vertical Flow (GPM)
294	.01
298	0
302	0
329	.02
333	.02
362	0

Limitations

In making verbal or written interpretation of logs, MAG personnel give the client the benefit of their best professional judgment. However, since all interpretations are based on inference from electrical, magnetic, or other indirect measurements, MAG does not, and cannot, guarantee the accuracy or the correctness of any such interpretations. MAG shall not be liable for any loss, damages, or expenses resulting from reliance on such interpretations. MAG does not warrant the accuracy of log data transmitted by any electronic process and will not be responsible for intentional interpretation of log data by others. MAG makes no warranties – neither explicit nor implied. Under no circumstances shall MAG, its parent company Enviroscan, Inc., or their personnel be liable for consequential damages.

We appreciate this opportunity to have worked with you again. If you have any questions, please do not hesitate to contact me.

Sincerely,
Mid-Atlantic Geosciences



Christopher Lash
Geophysics Project Manager

Technical Review By:
Mid-Atlantic Geosciences



Felicia Kegel Bechtel, M.Sc., P.G.
President

enc.: MW-188D – Geophysical, Televiewer, and Flow Logs
MW-138D – Geophysical, Televiewer, and Flow Logs
MW-27B – Geophysical, Televiewer, and Flow Logs
MW-171C – Geophysical, Televiewer, and Flow Logs
MW-135C – Geophysical, Televiewer, and Flow Logs
MW-36C – Geophysical, Televiewer, and Flow Logs
PW-3501 – Geophysical, Televiewer, and Flow Logs
Appendix A: Planar Feature Orientation Parameters
Appendix B: Planar Feature Characterization
Appendix C: Planar Feature Characterizations Tables
Appendix D: Borehole Verticality/Deviation Plots

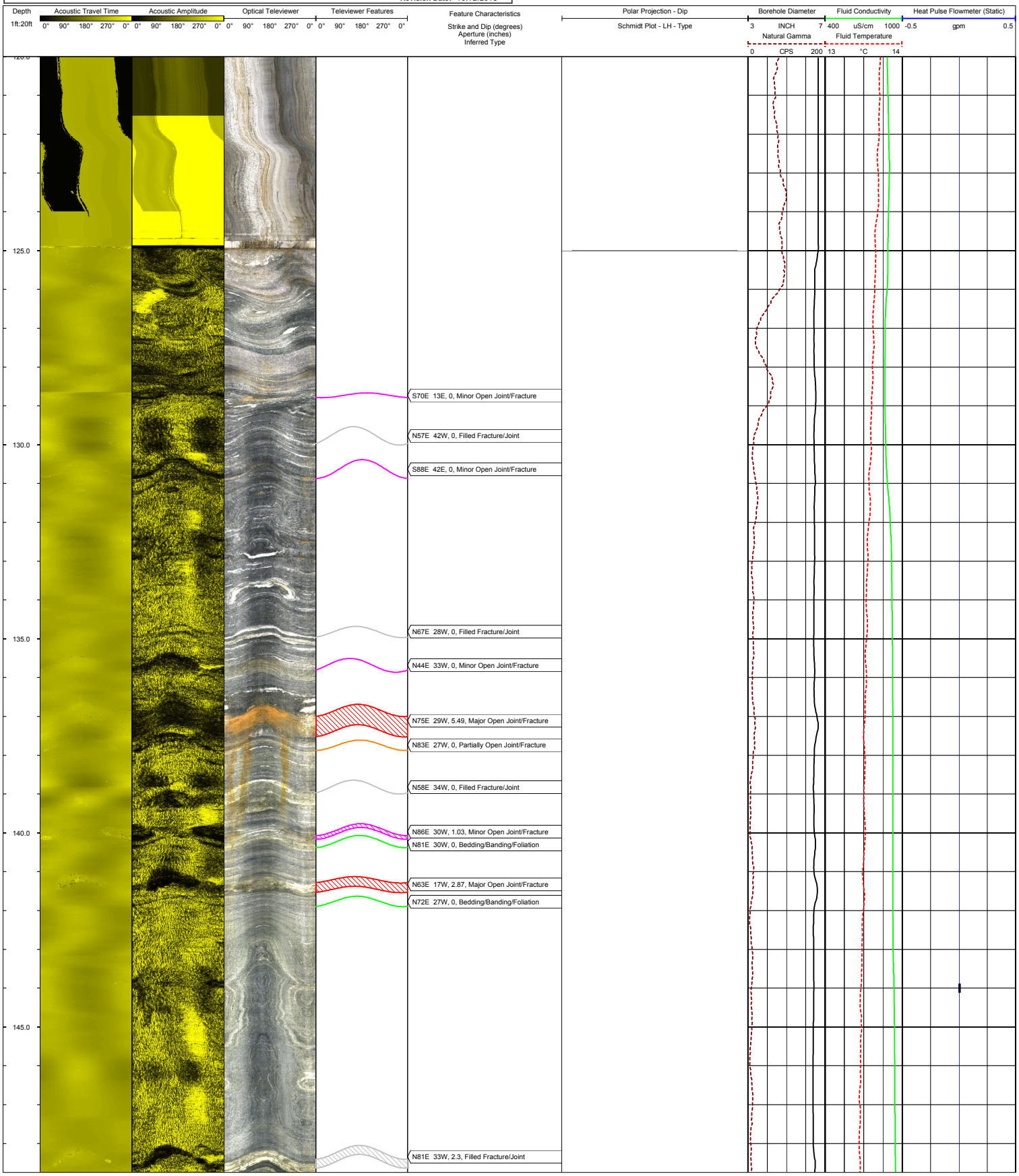
Mid-Atlantic Geosciences

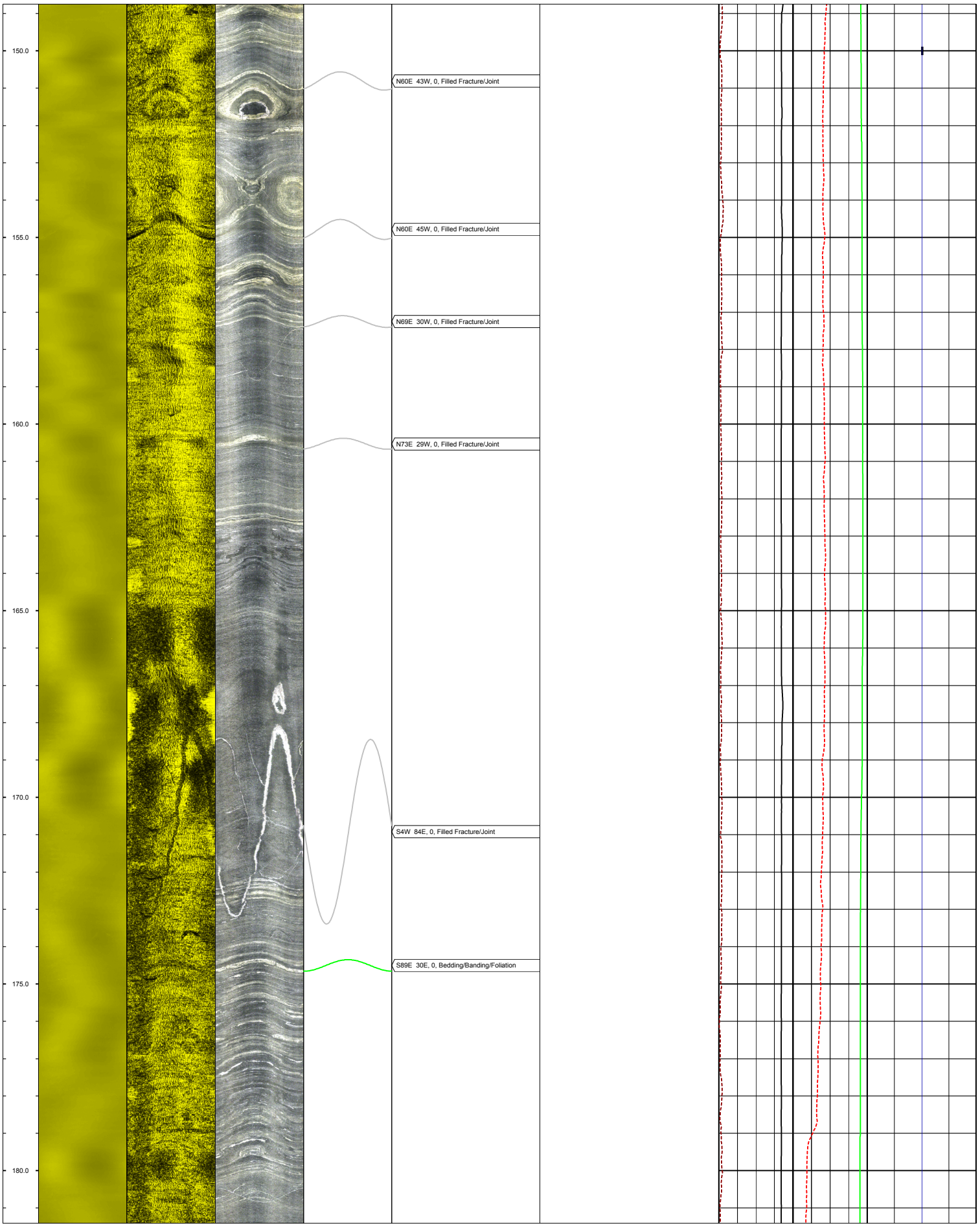
Title: *Borehole Geophysical Logging Program*

WELL ID *MW-188D*

Logging Date: *09.26.2013*
Logging Datum: *Ground Surface*
BOC: *125'* **DTW:** *58.9'* **TD:** *432'*

Site Name:
Location: *Phoenix, MD*
Client: *Kleinfelder*
Project No.: *081325*
Revision Date: *10.12.2013*

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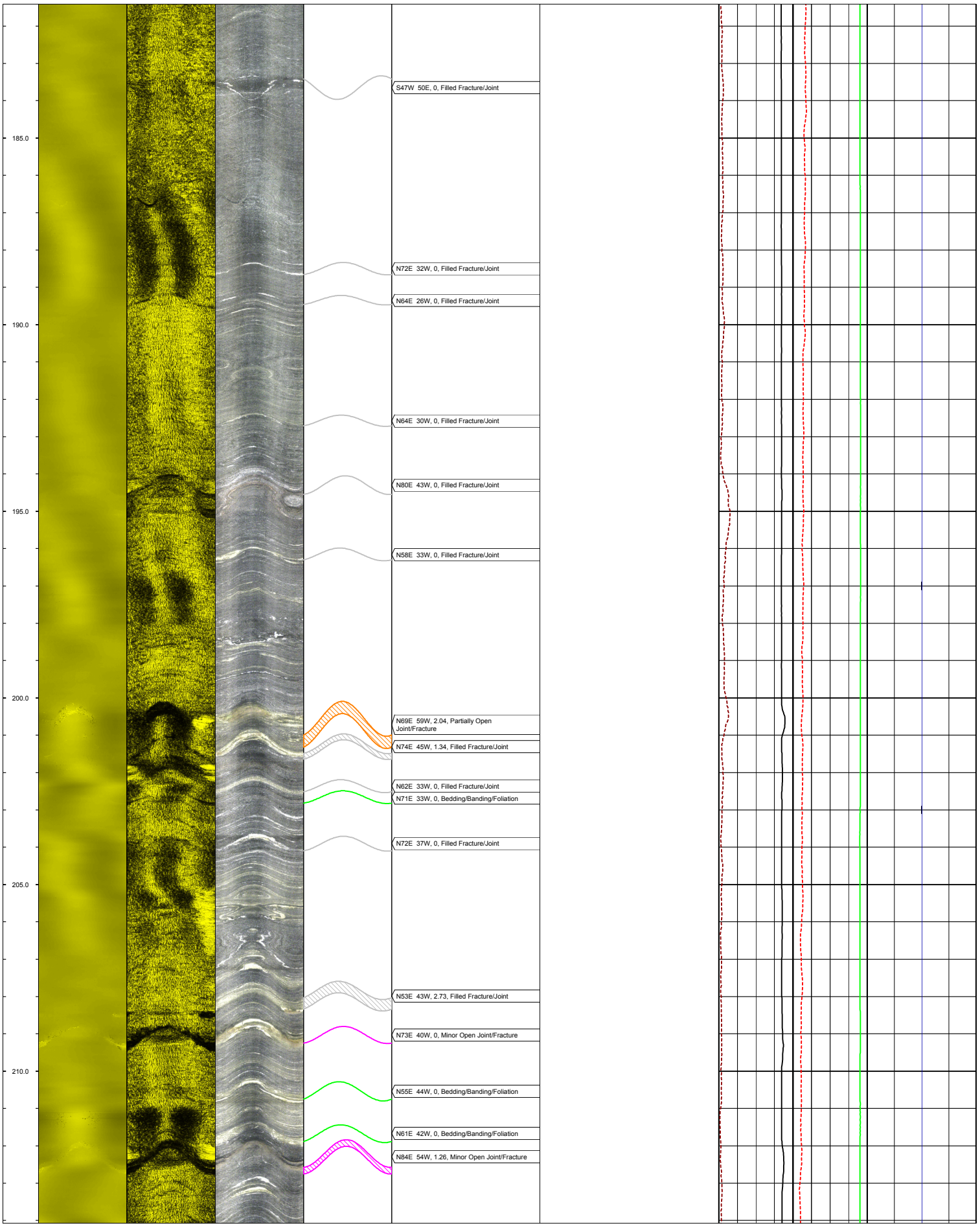
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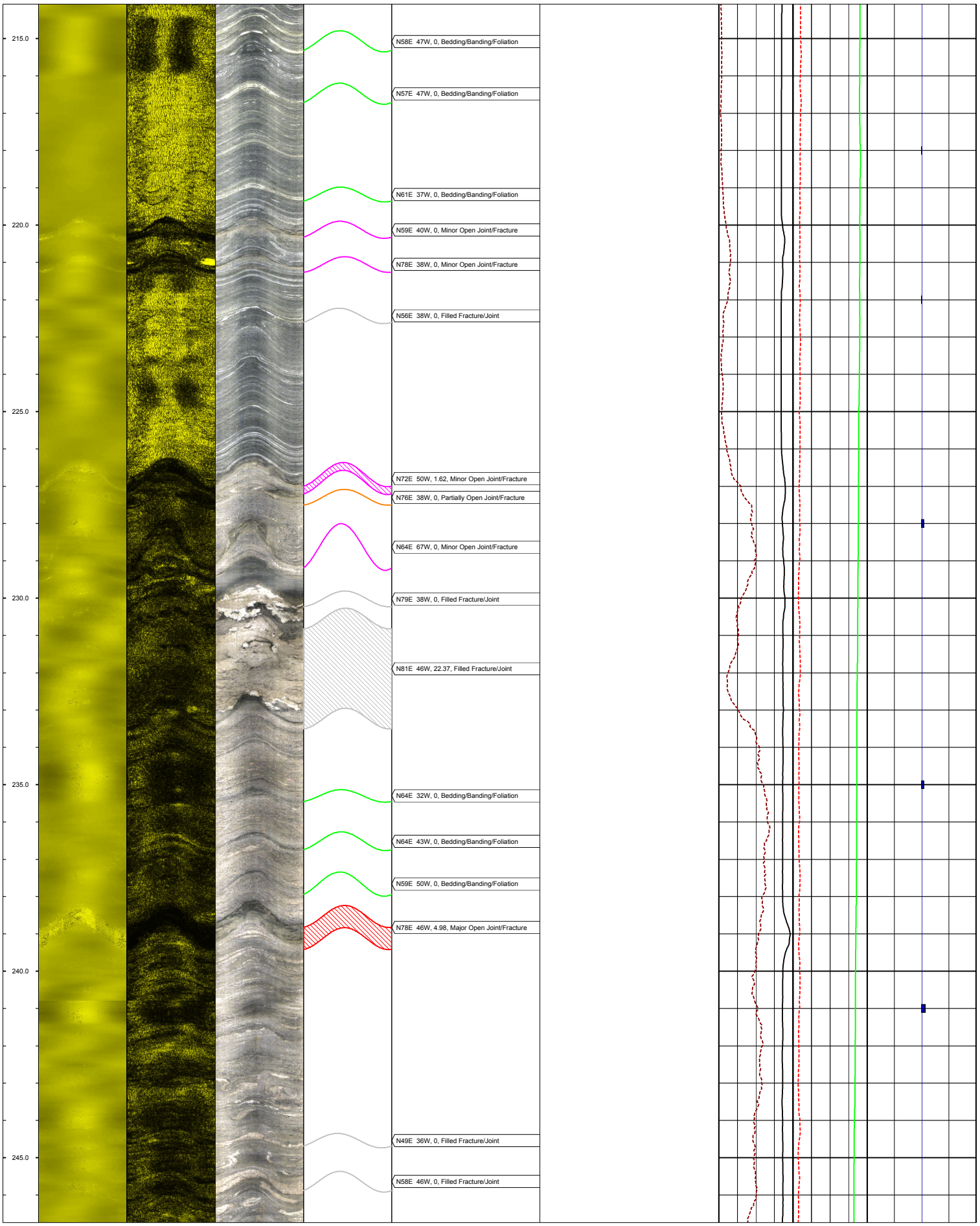
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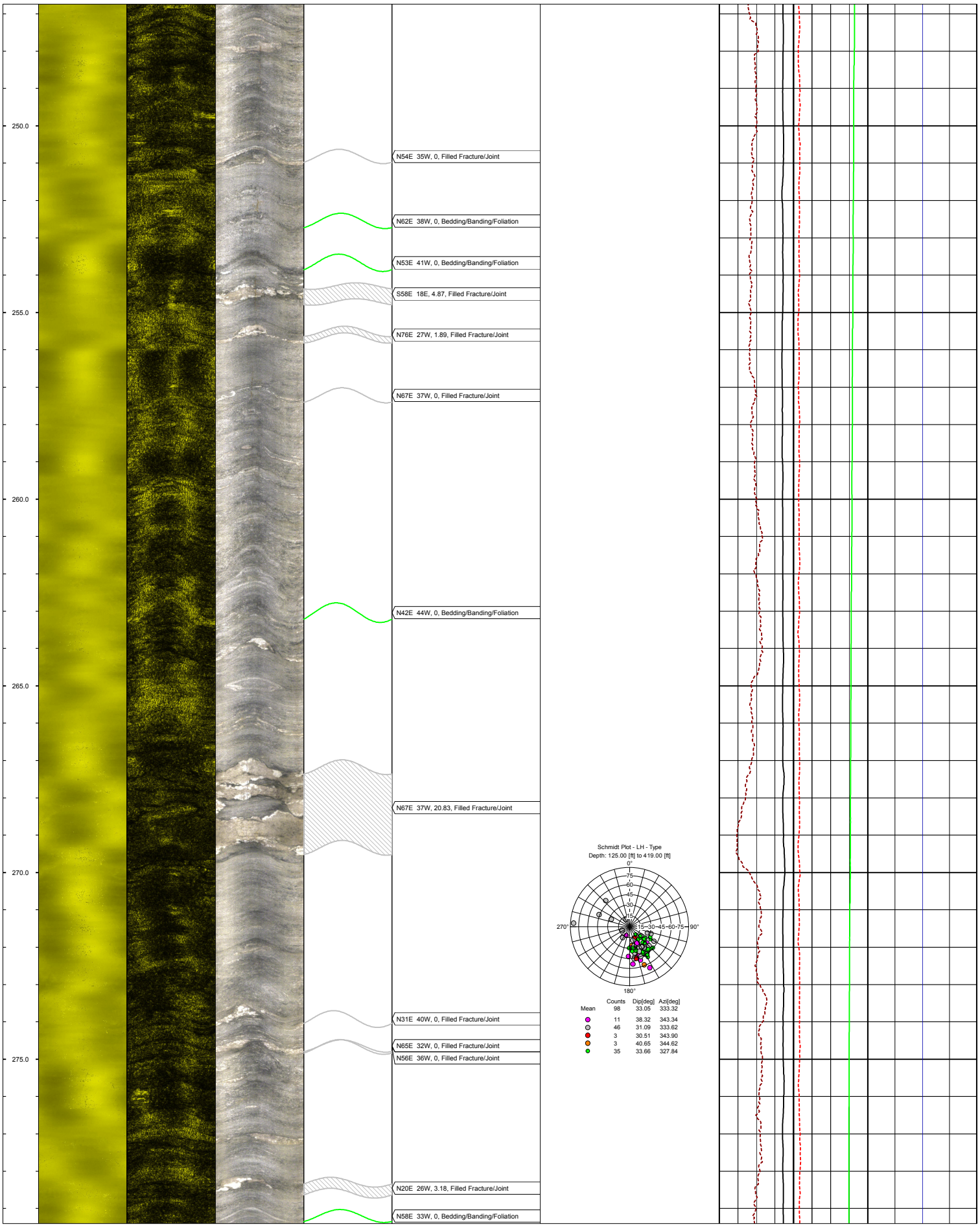
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Schmidt Plot - LH - Type
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90°
180°
270°
Counts Dip[deg] Azi[deg]
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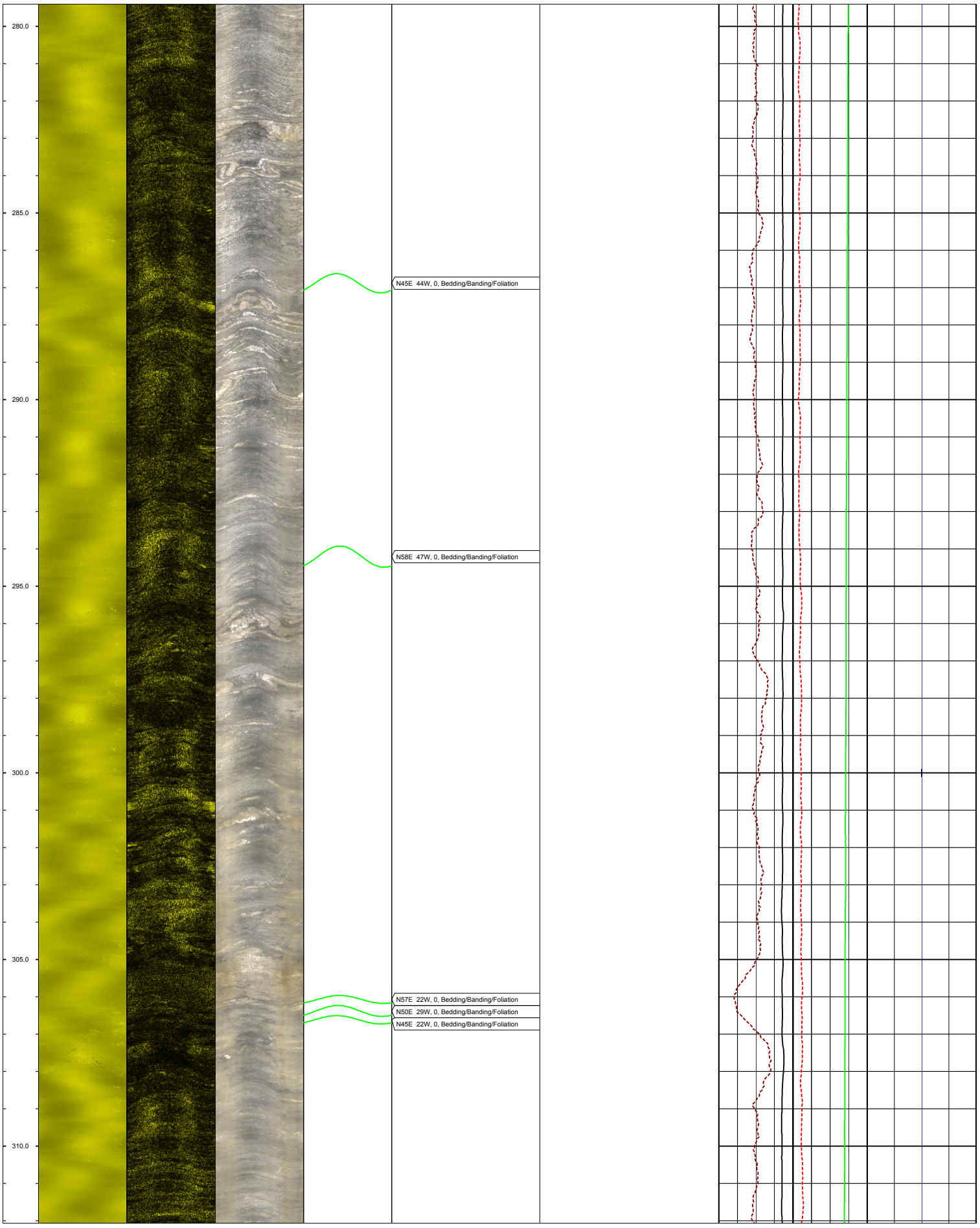
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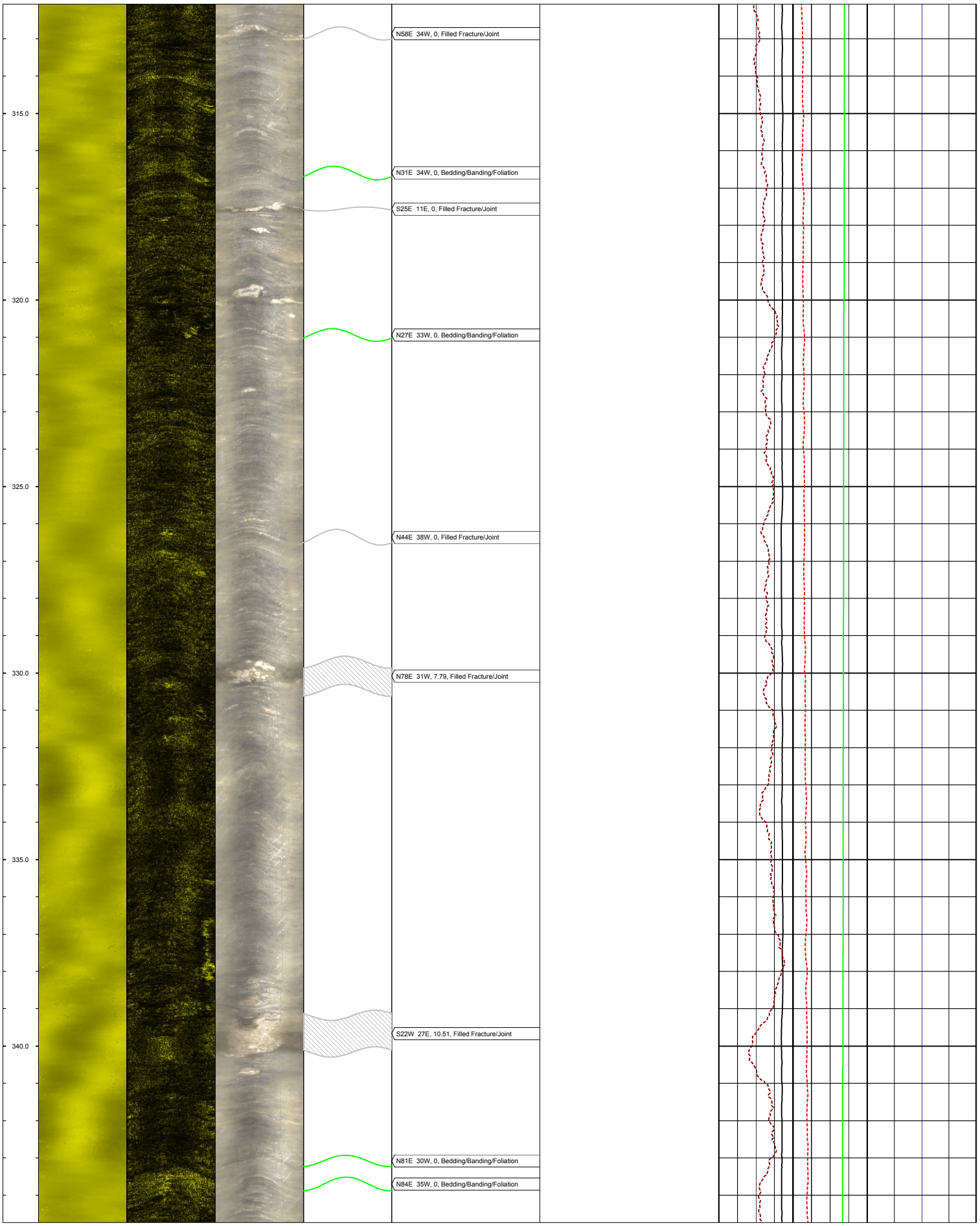
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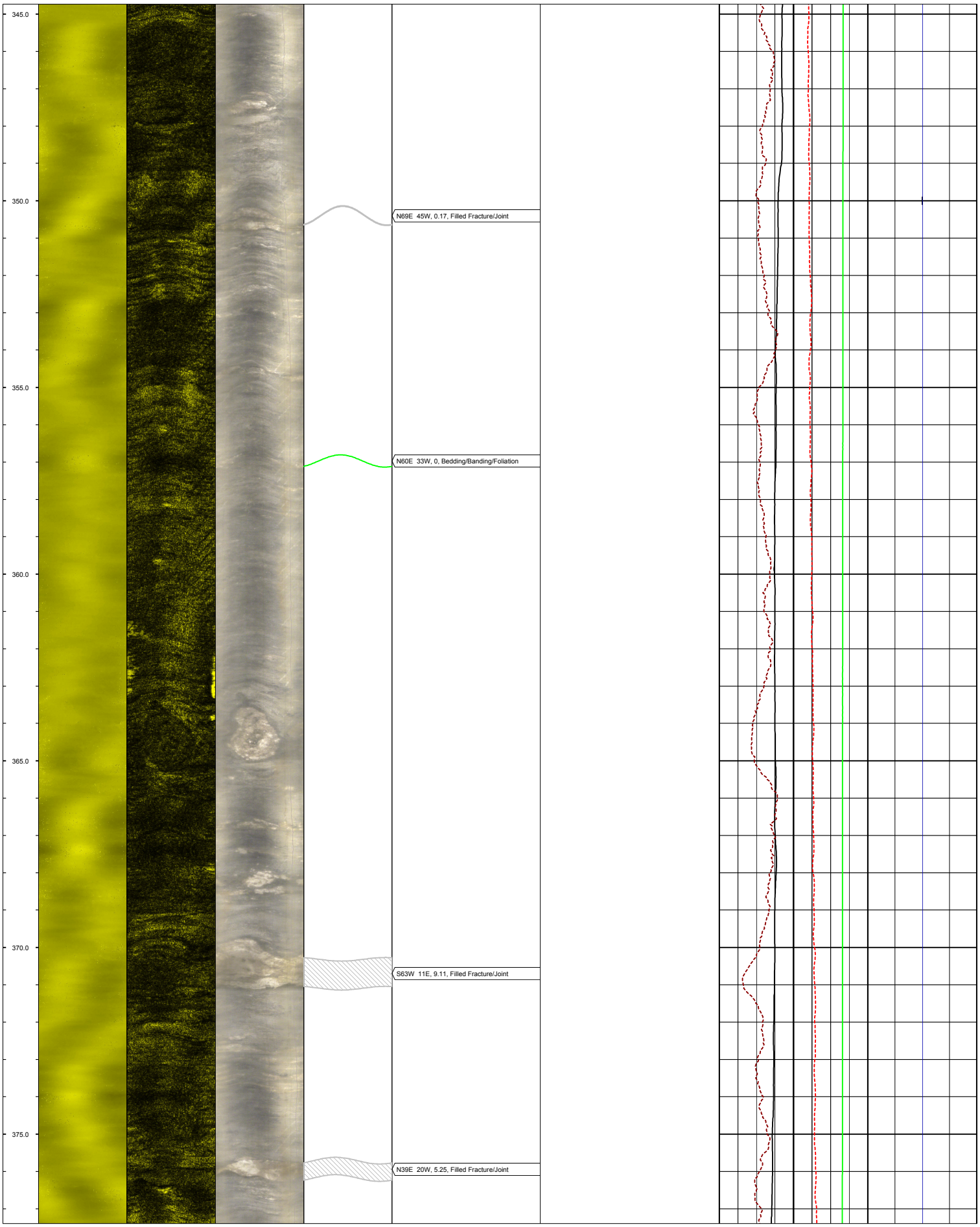
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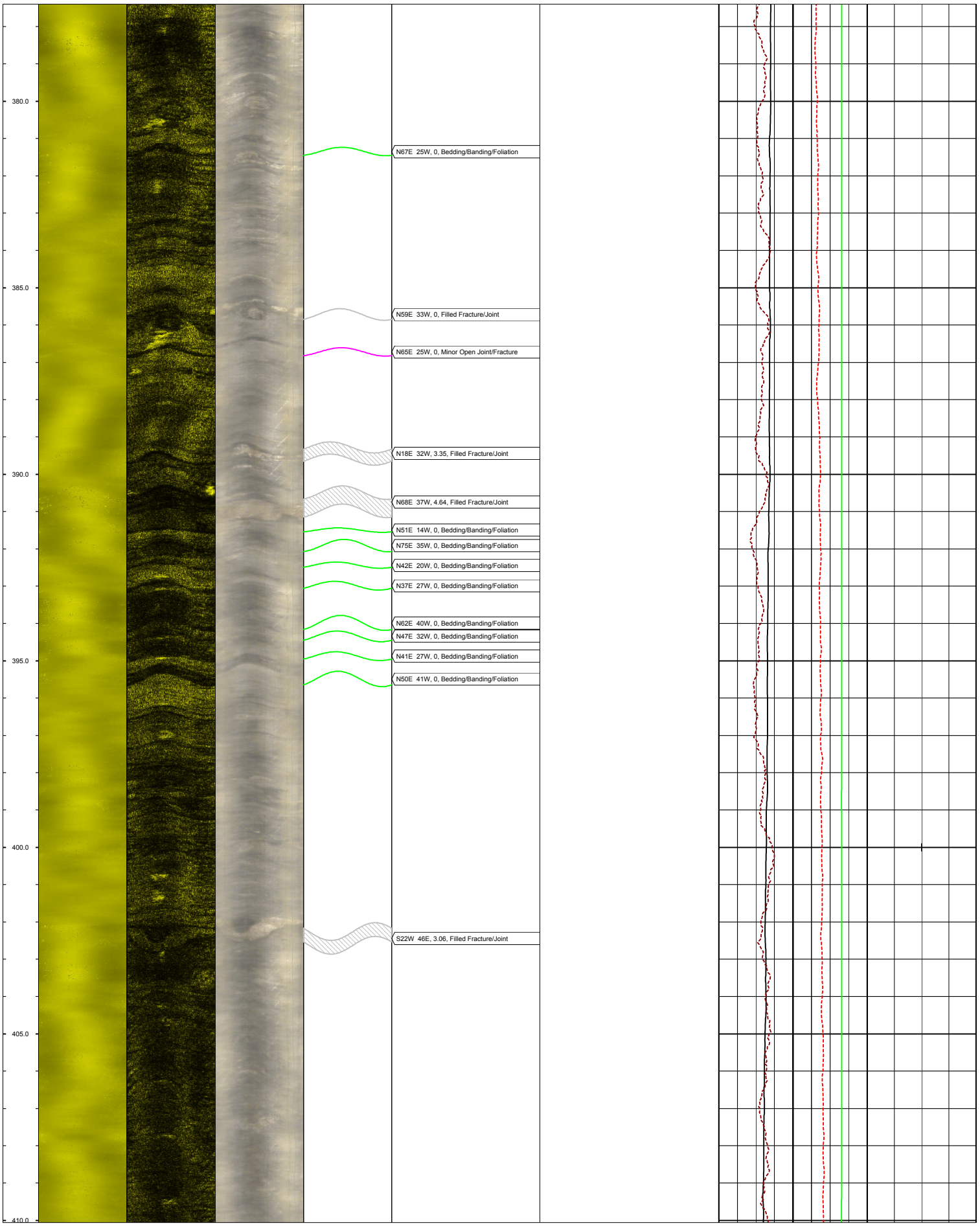
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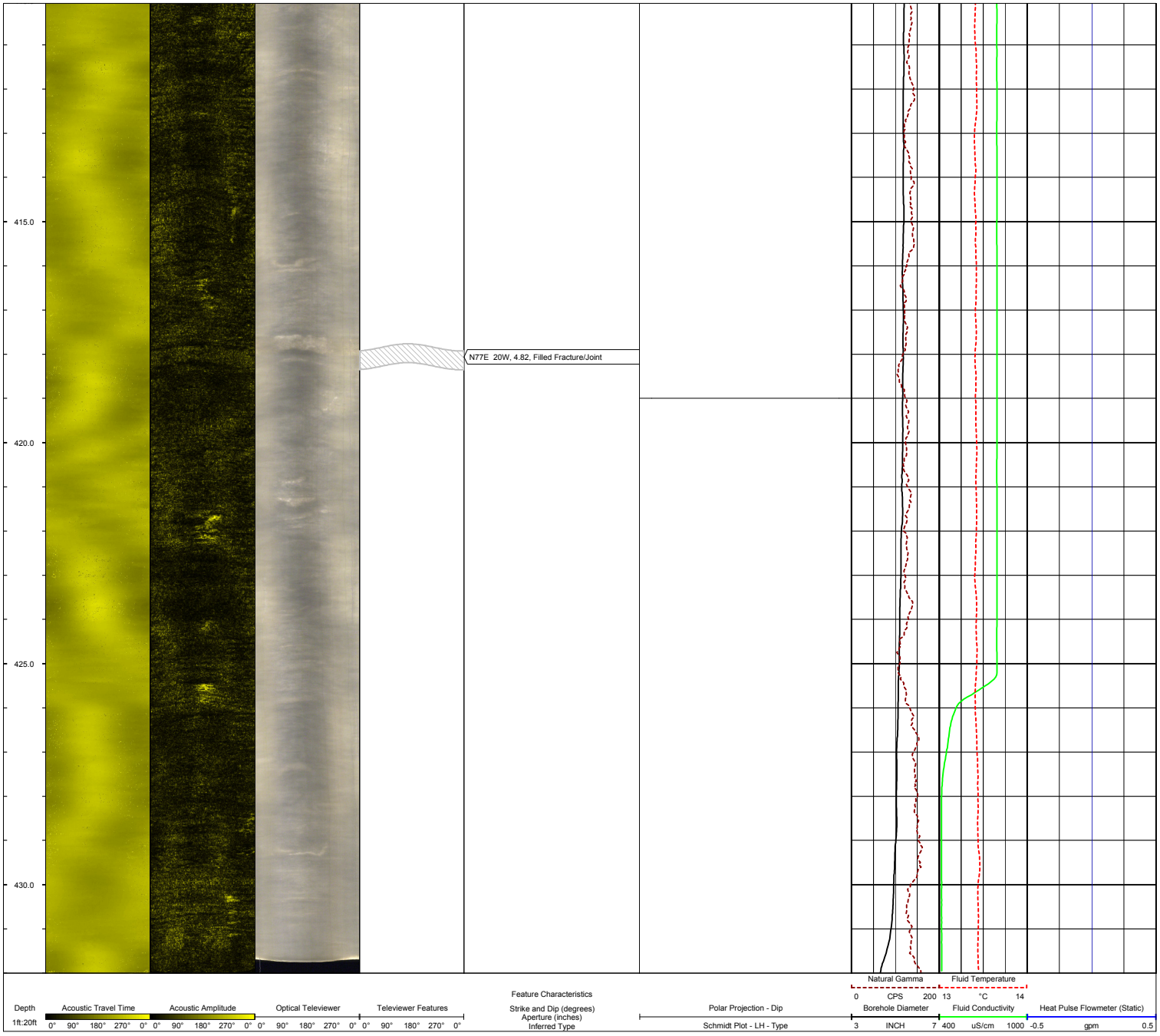
N62E 40W, 0, Bedding/Banding/Foliation
N47E 32W, 0, Bedding/Banding/Foliation
N41E 27W, 0, Bedding/Banding/Foliation
N50E 41W, 0, Bedding/Banding/Foliation
S22W 46E, 3.06, Filled Fracture/Joint

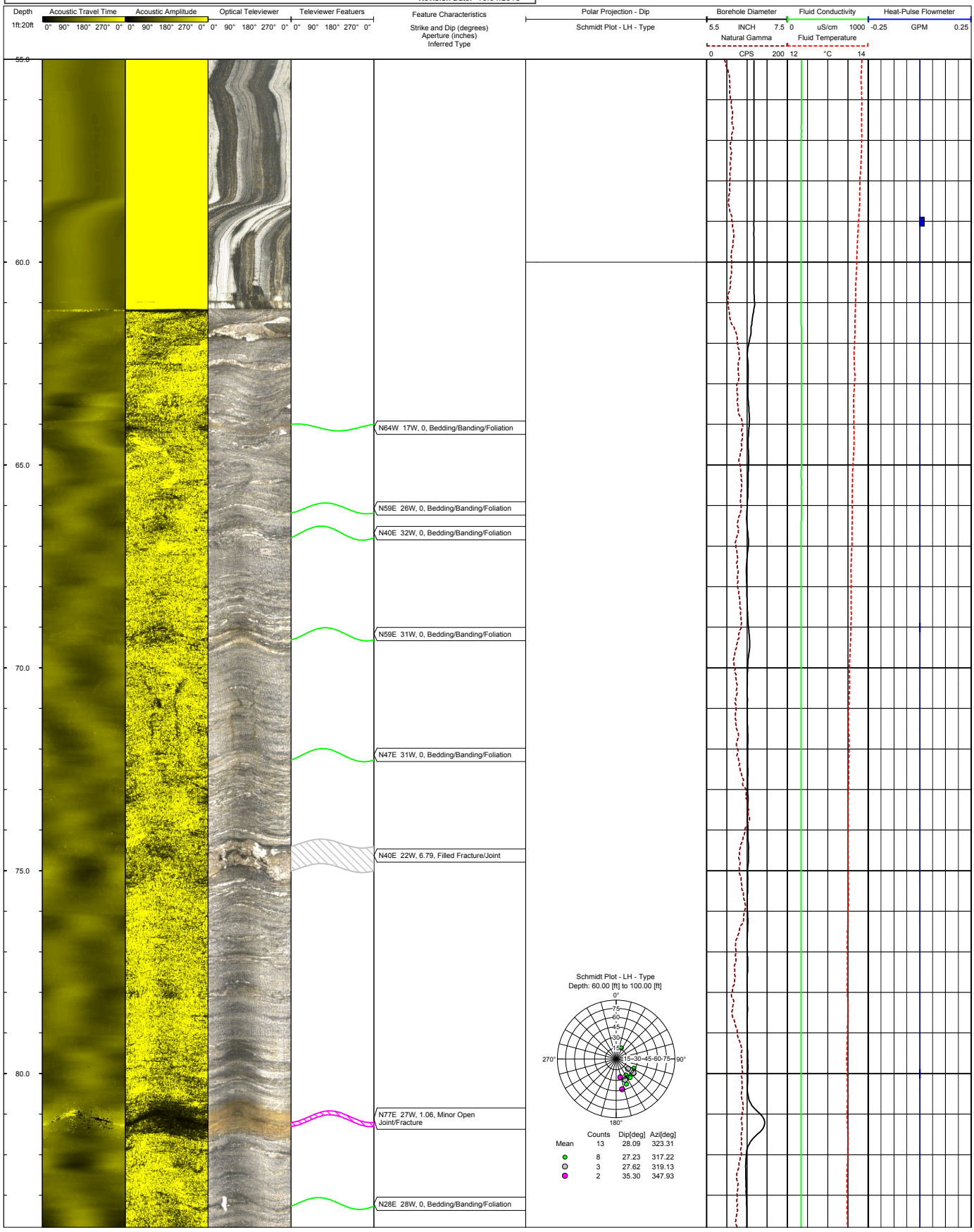

415.0
420.0
425.0
430.0
N77E 20W, 4.82, Filled Fracture/Joint
Natural Gamma
Fluid Temperature
0 CPS 200
13 °C 14
Depth
1ft:20ft
Acoustic Travel Time
Acoustic Amplitude
Optical Televiewer
Televiewer Features
0° 90° 180° 270° 0° 0° 90° 180° 270° 0° 0° 90° 180° 270° 0° 0° 90° 180° 270° 0°
Feature Characteristics
Strike and Dip (degrees)
Aperture (inches)
Inferred Type
Polar Projection - Dip
Schmidt Plot - LH - Type
Borehole Diameter
3 INCH 7
Fluid Conductivity
400 uS/cm 1000
Heat Pulse Flowmeter (Static)
-0.5 gpm 0.5

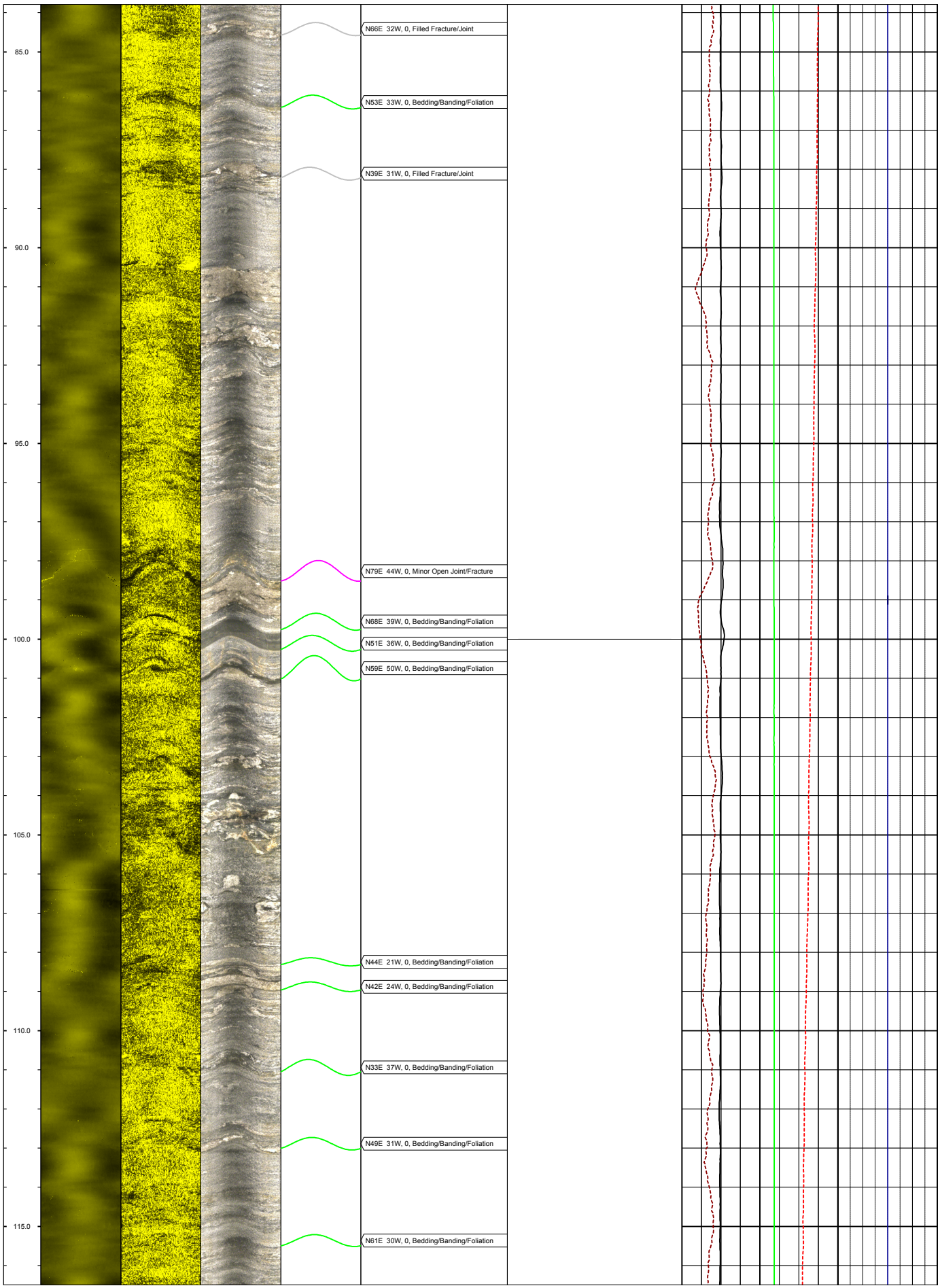
Mid-Atlantic Geosciences

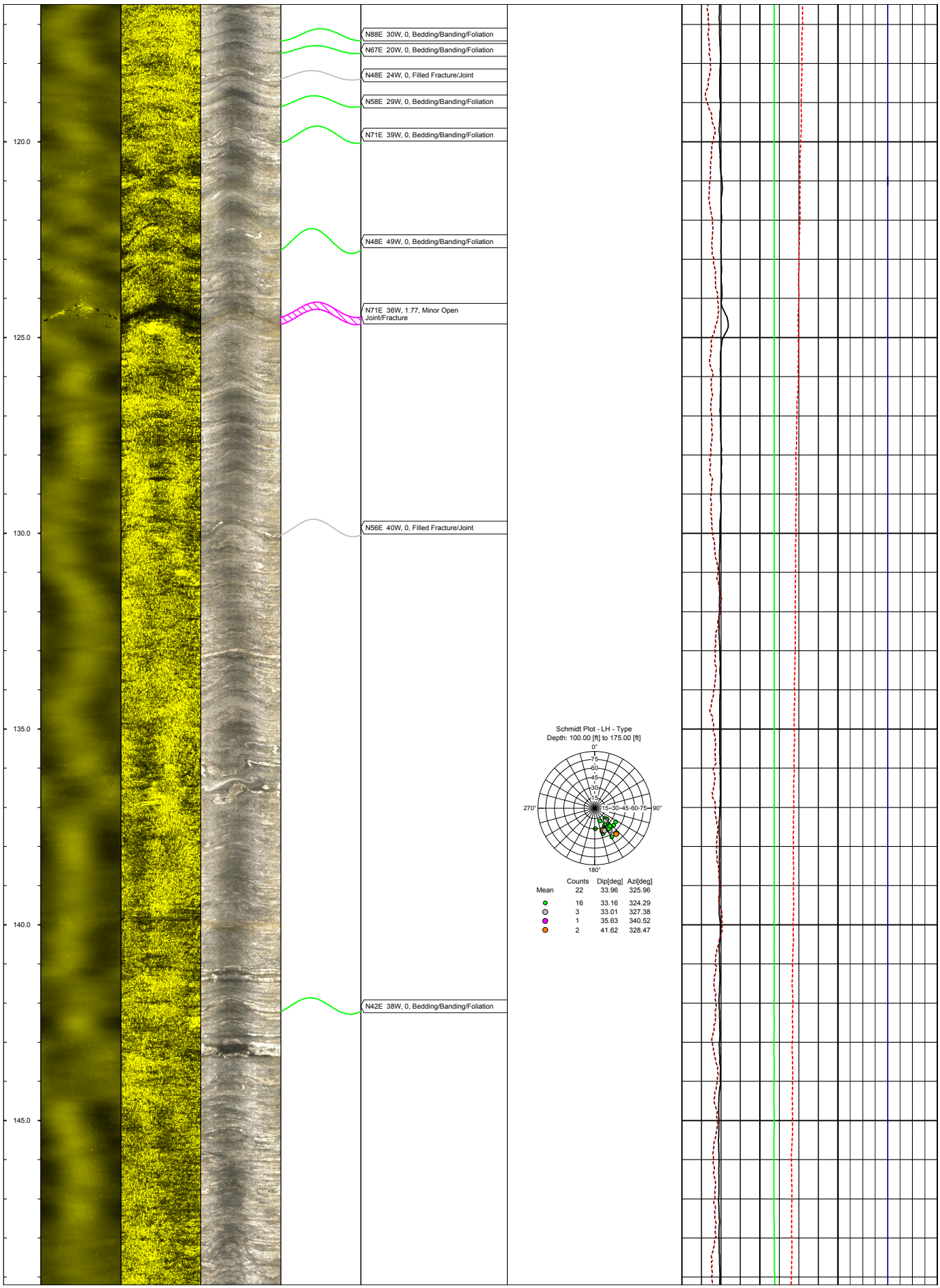
Title: *Borehole Geophysical Logging Program*

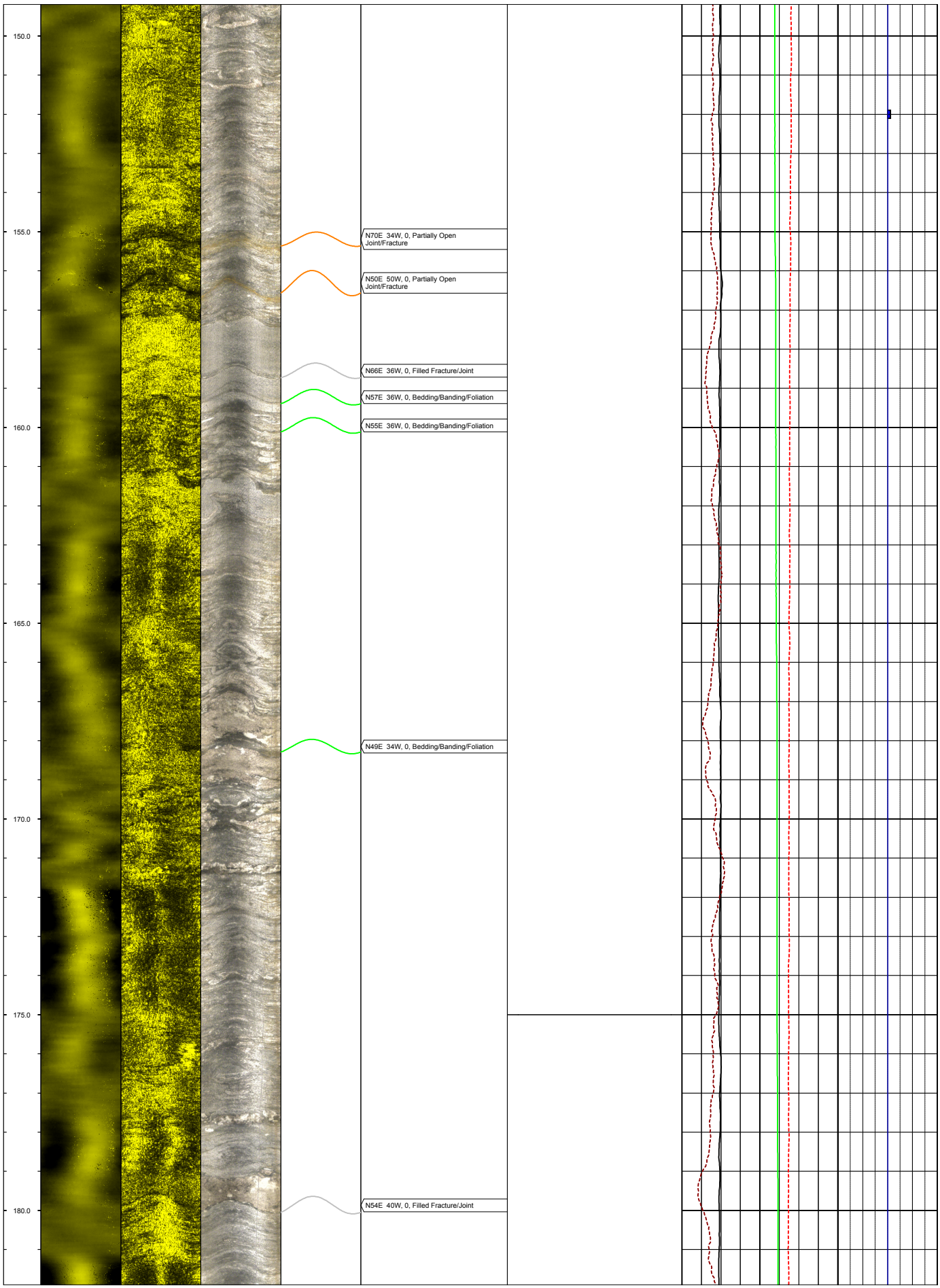
WELL ID	Logging Date:	09.06.2013
MW-138D	Logging Datum:	TOC
	BOC: 60.5'	DTW: 48.5' TD: 401.5'

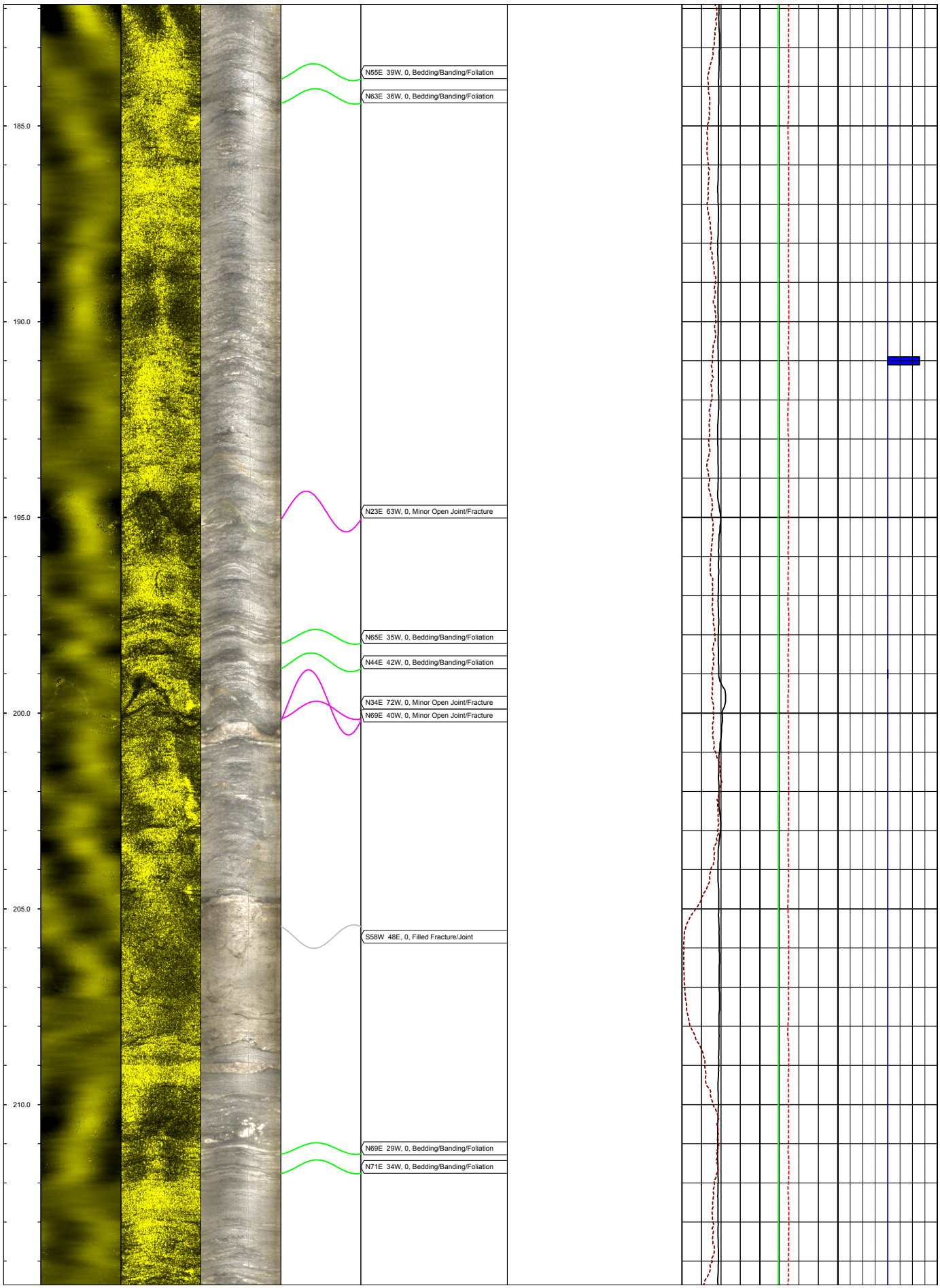
Site Name:
Location: Phoenix, MD
Client: Kleinfelder
Project No.: 081325
Revision Date: 10.04.2013

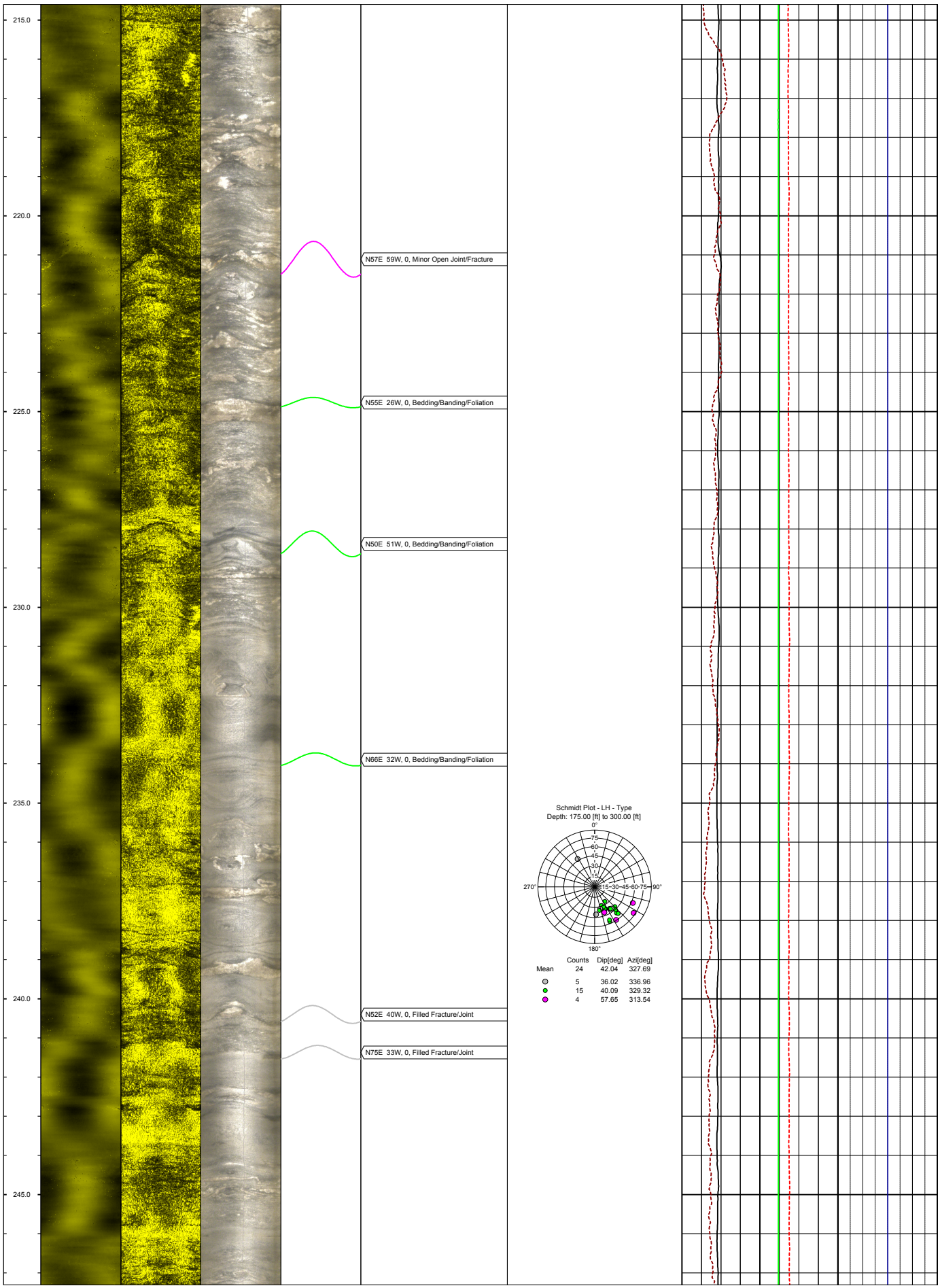


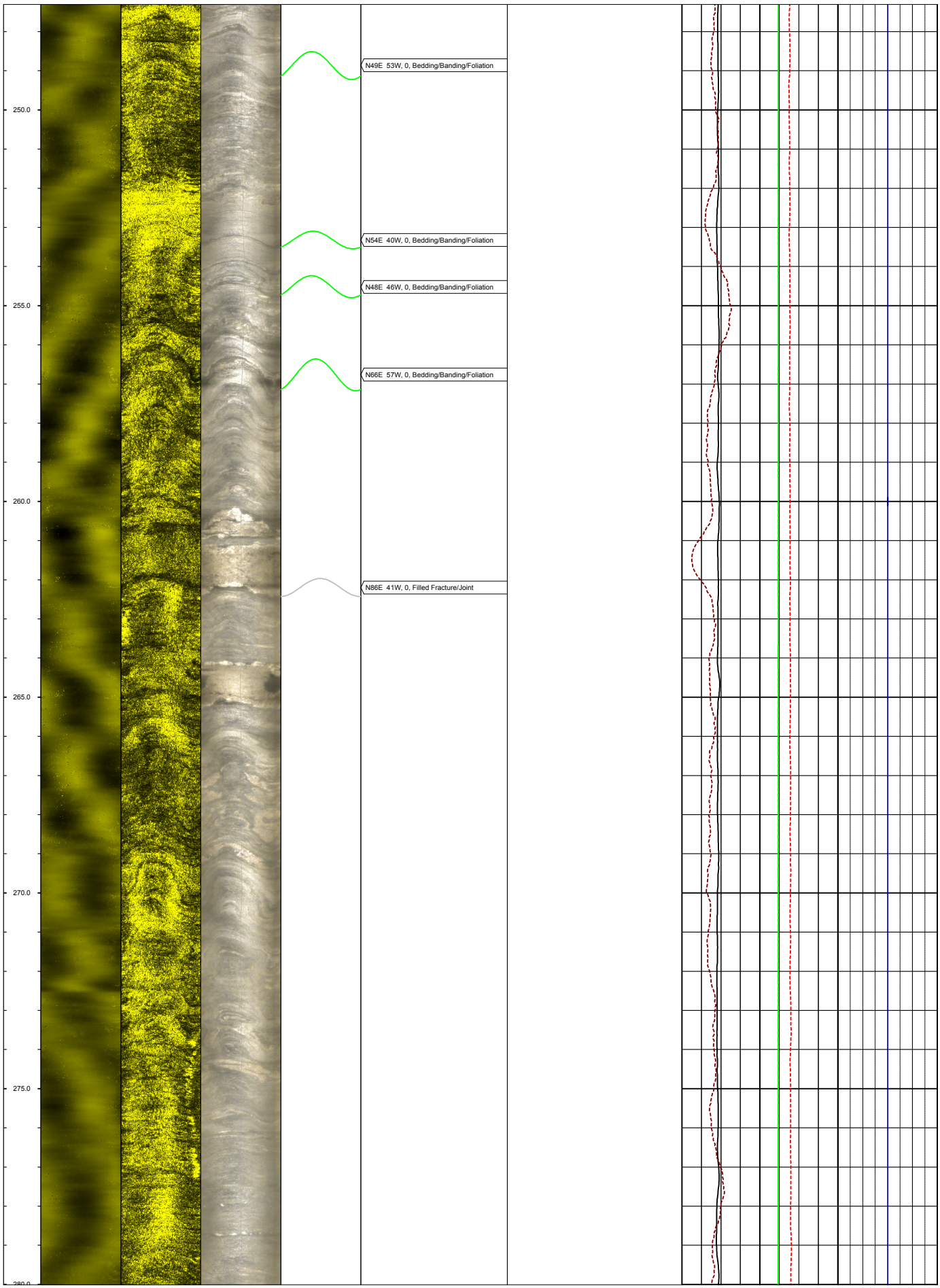

85.0
90.0
95.0
100.0
105.0
110.0
115.0
N66E 32W, 0, Filled Fracture/Joint
N53E 33W, 0, Bedding/Banding/Foliation
N39E 31W, 0, Filled Fracture/Joint
N79E 44W, 0, Minor Open Joint/Fracture
N68E 39W, 0, Bedding/Banding/Foliation
N51E 36W, 0, Bedding/Banding/Foliation
N59E 50W, 0, Bedding/Banding/Foliation
N44E 21W, 0, Bedding/Banding/Foliation
N42E 24W, 0, Bedding/Banding/Foliation
N33E 37W, 0, Bedding/Banding/Foliation
N49E 31W, 0, Bedding/Banding/Foliation
N61E 30W, 0, Bedding/Banding/Foliation

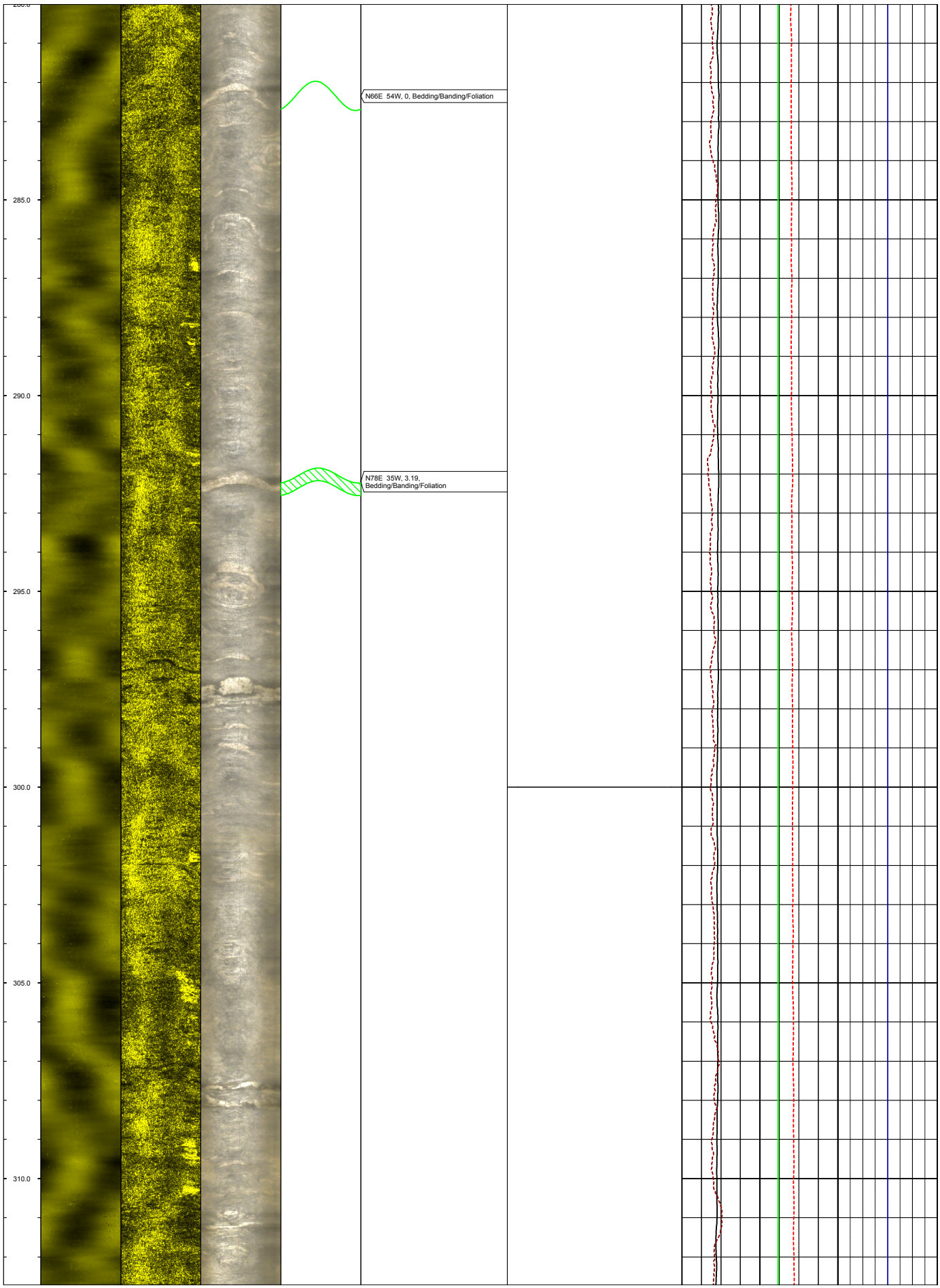

N88E 30W, 0, Bedding/Banding/Foliation
N67E 20W, 0, Bedding/Banding/Foliation
N48E 24W, 0, Filled Fracture/Joint
N58E 29W, 0, Bedding/Banding/Foliation
N71E 39W, 0, Bedding/Banding/Foliation
N48E 49W, 0, Bedding/Banding/Foliation
N71E 36W, 1.77, Minor Open Joint/Fracture
N56E 40W, 0, Filled Fracture/Joint
N42E 38W, 0, Bedding/Banding/Foliation
120.0
125.0
130.0
135.0
140.0
145.0
Schmidt Plot - LH - Type
Depth: 100.00 [ft] to 175.00 [ft]
0°
15°
30°
45°
60°
75°
90°
270°
180°
Counts Dip[deg] Azi[deg]
Mean 22 33.96 325.96
16 33.16 324.29
3 33.01 327.38
1 35.63 340.52
2 41.62 328.47

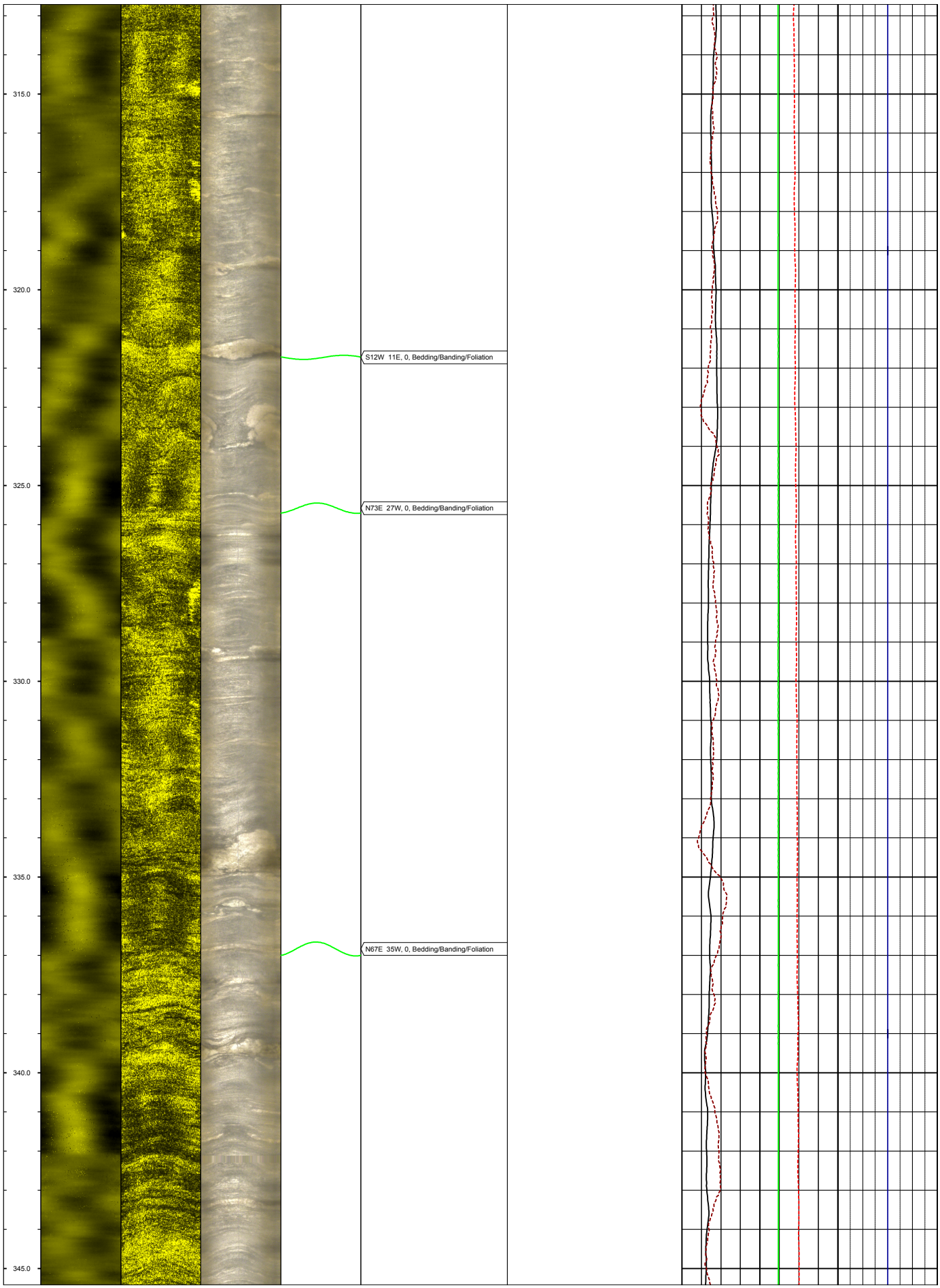

150.0
155.0
160.0
165.0
170.0
175.0
180.0
N70E 34W, 0, Partially Open Joint/Fracture
N50E 50W, 0, Partially Open Joint/Fracture
N66E 36W, 0, Filled Fracture/Joint
N57E 36W, 0, Bedding/Banding/Foliation
N55E 36W, 0, Bedding/Banding/Foliation
N49E 34W, 0, Bedding/Banding/Foliation
N54E 40W, 0, Filled Fracture/Joint

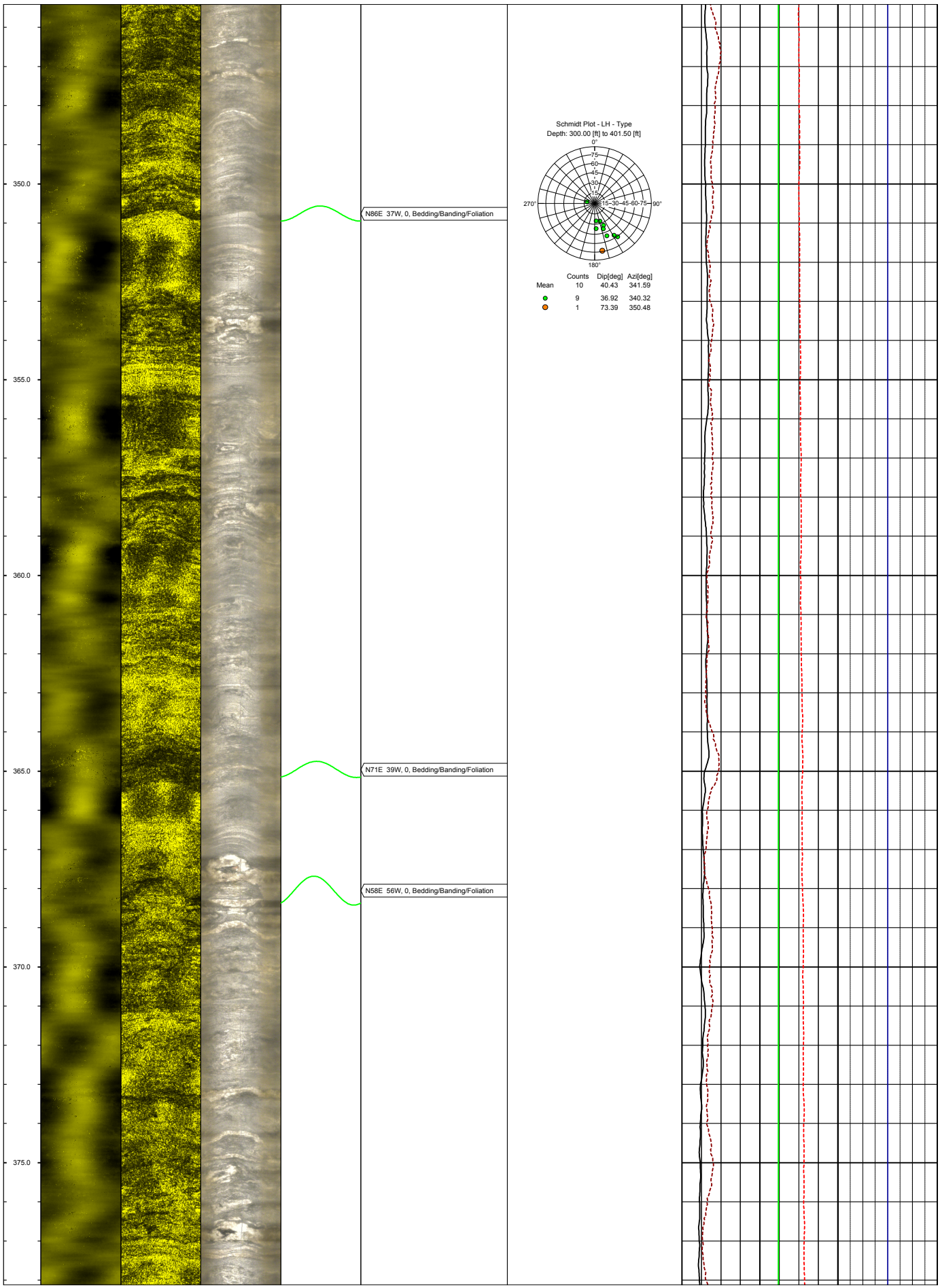

185.0
190.0
195.0
200.0
205.0
210.0
N55E 39W, 0, Bedding/Banding/Foliation
N63E 36W, 0, Bedding/Banding/Foliation
N23E 63W, 0, Minor Open Joint/Fracture
N65E 35W, 0, Bedding/Banding/Foliation
N44E 42W, 0, Bedding/Banding/Foliation
N34E 72W, 0, Minor Open Joint/Fracture
N69E 40W, 0, Minor Open Joint/Fracture
S58W 48E, 0, Filled Fracture/Joint
N69E 29W, 0, Bedding/Banding/Foliation
N71E 34W, 0, Bedding/Banding/Foliation

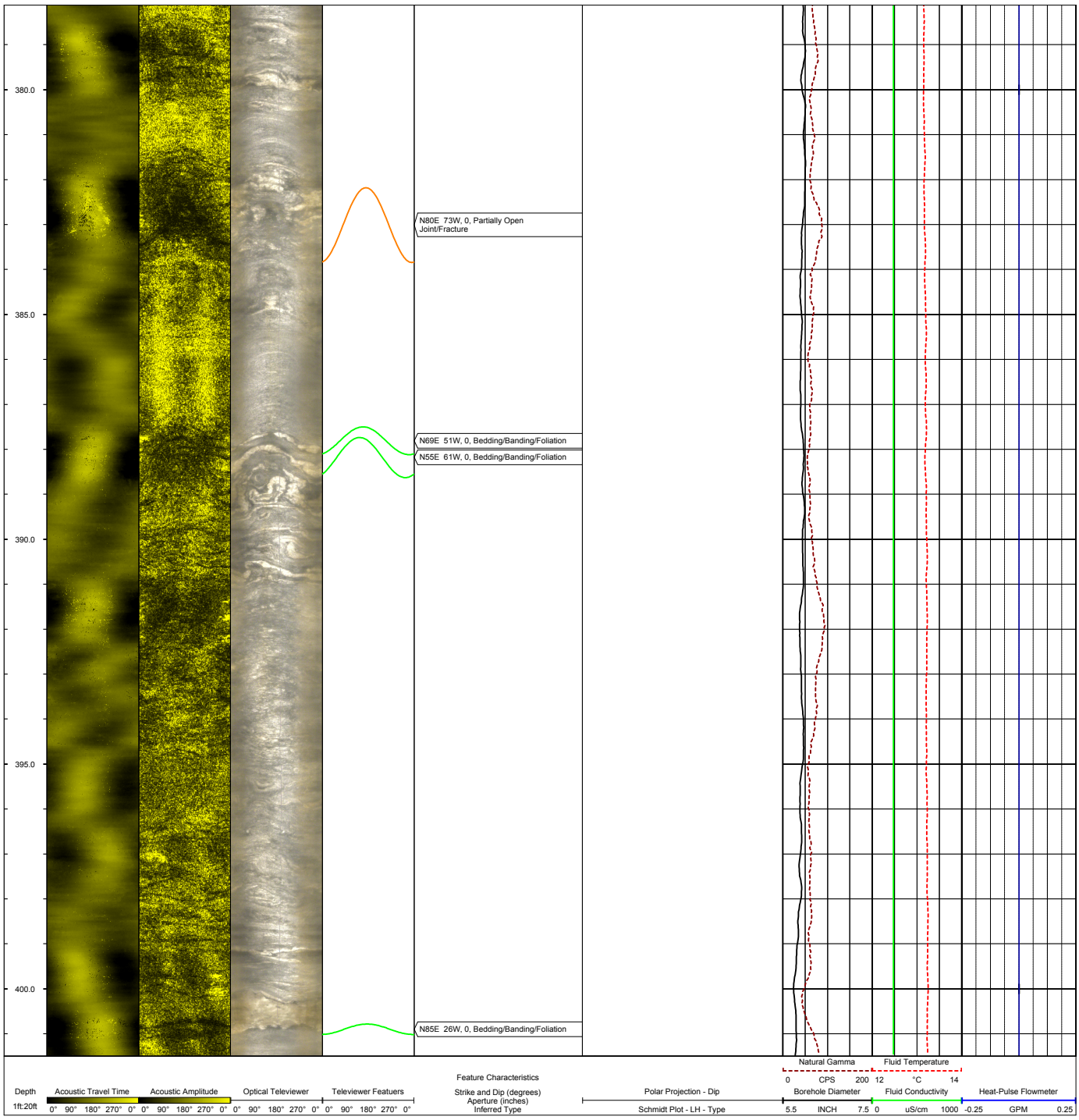

215.0
220.0
225.0
230.0
235.0
240.0
245.0
N57E 59W, 0, Minor Open Joint/Fracture
N55E 26W, 0, Bedding/Banding/Foliation
N50E 51W, 0, Bedding/Banding/Foliation
N66E 32W, 0, Bedding/Banding/Foliation
N52E 40W, 0, Filled Fracture/Joint
N75E 33W, 0, Filled Fracture/Joint
Schmidt Plot - LH - Type
Depth: 175.00 [ft] to 300.00 [ft]
0°
15
30
45
60
75
90°
180°
270°
Counts Dip[deg] Azi[deg]
Mean 24 42.04 327.69
5 36.02 336.96
15 40.09 329.32
4 57.65 313.54


N49E 53W, 0, Bedding/Banding/Foliation
N54E 40W, 0, Bedding/Banding/Foliation
N48E 46W, 0, Bedding/Banding/Foliation
N66E 57W, 0, Bedding/Banding/Foliation
N86E 41W, 0, Filled Fracture/Joint
250.0
255.0
260.0
265.0
270.0
275.0


285.0
290.0
295.0
300.0
305.0
310.0
N66E 54W, 0, Bedding/Banding/Foliation
N78E 35W, 3.19,
Bedding/Banding/Foliation


315.0
320.0
325.0
330.0
335.0
340.0
345.0
S12W 11E, 0, Bedding/Banding/Foliation
N73E 27W, 0, Bedding/Banding/Foliation
N67E 35W, 0, Bedding/Banding/Foliation


350.0
355.0
360.0
365.0
370.0
375.0
N86E 37W, 0, Bedding/Banding/Foliation
N71E 39W, 0, Bedding/Banding/Foliation
N58E 56W, 0, Bedding/Banding/Foliation
Schmidt Plot - LH - Type
Depth: 300.00 [ft] to 401.50 [ft]
0°
15
30
45
60
75
90°
180°
270°
Counts Dip[deg] Azi[deg]
Mean 10 40.43 341.59
9 36.92 340.32
1 73.39 350.48


380.0
385.0
390.0
395.0
400.0
N80E 73W, 0, Partially Open Joint/Fracture
N69E 51W, 0, Bedding/Banding/Foliation
N55E 61W, 0, Bedding/Banding/Foliation
N85E 26W, 0, Bedding/Banding/Foliation
Natural Gamma
Fluid Temperature
0 CPS 200
12 °C 14
Depth
1ft:20ft
Acoustic Travel Time
Acoustic Amplitude
Optical Televiewer
Televiewer Featuers
0° 90° 180° 270° 0° 0° 90° 180° 270° 0° 0° 90° 180° 270° 0° 0° 90° 180° 270° 0°
Feature Characteristics
Strike and Dip (degrees)
Aperture (inches)
Inferred Type
Polar Projection - Dip
Schmidt Plot - LH - Type
Borehole Diameter
5.5 INCH 7.5
Fluid Conductivity
0 uS/cm 1000
Heat-Pulse Flowmeter
-0.25 GPM 0.25

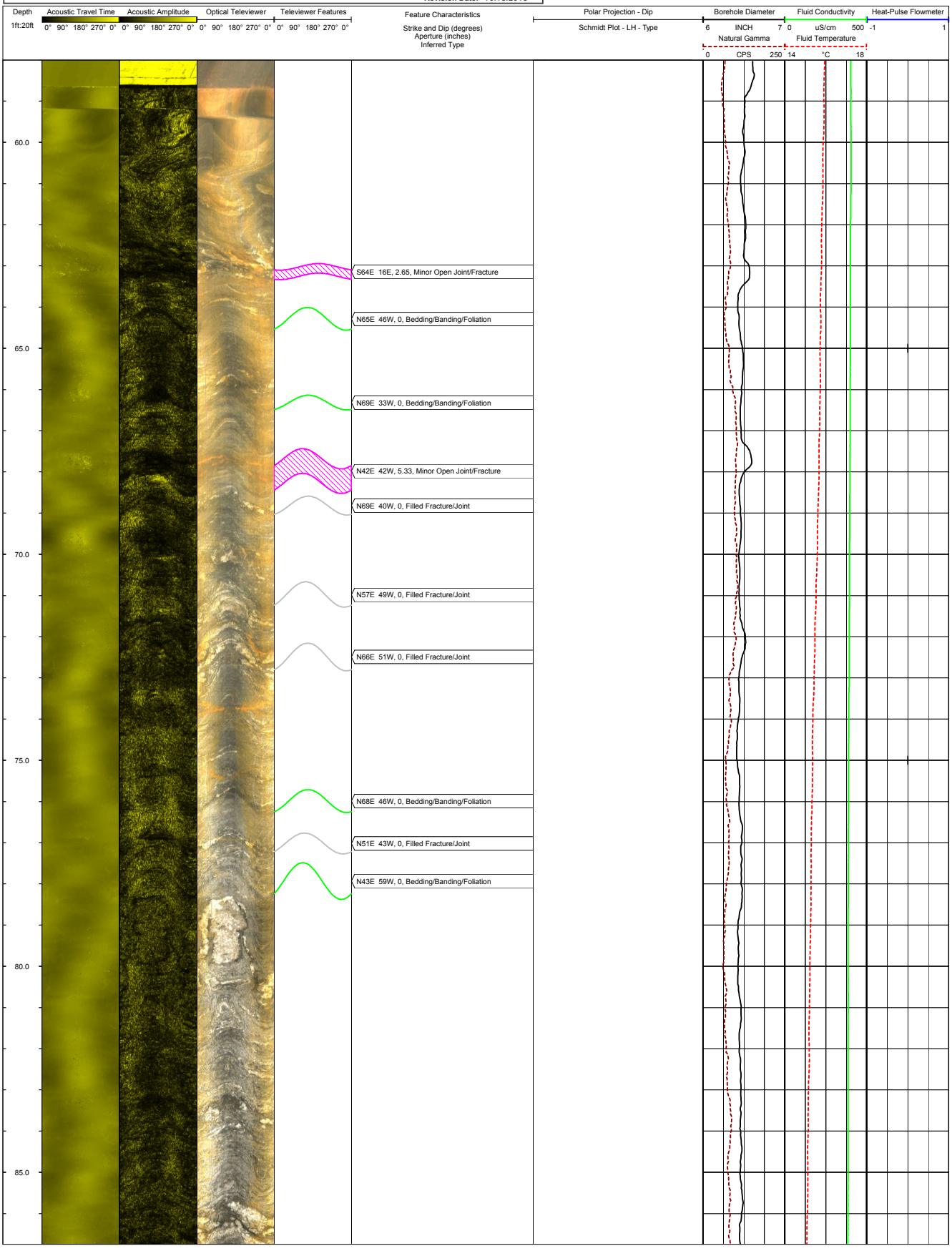
Mid-Atlantic Geosciences

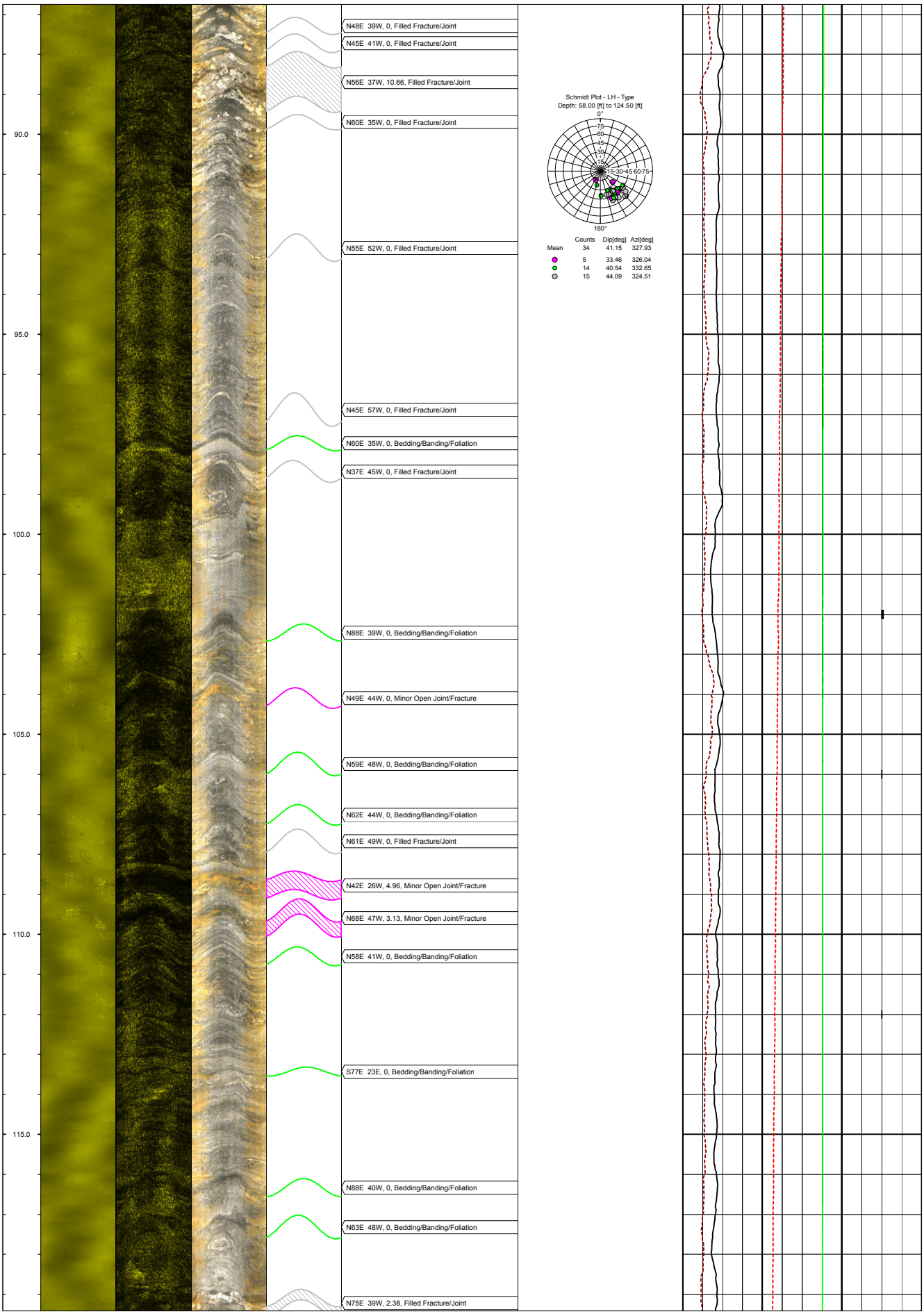
Title: *Borehole Geophysical Logging Program*

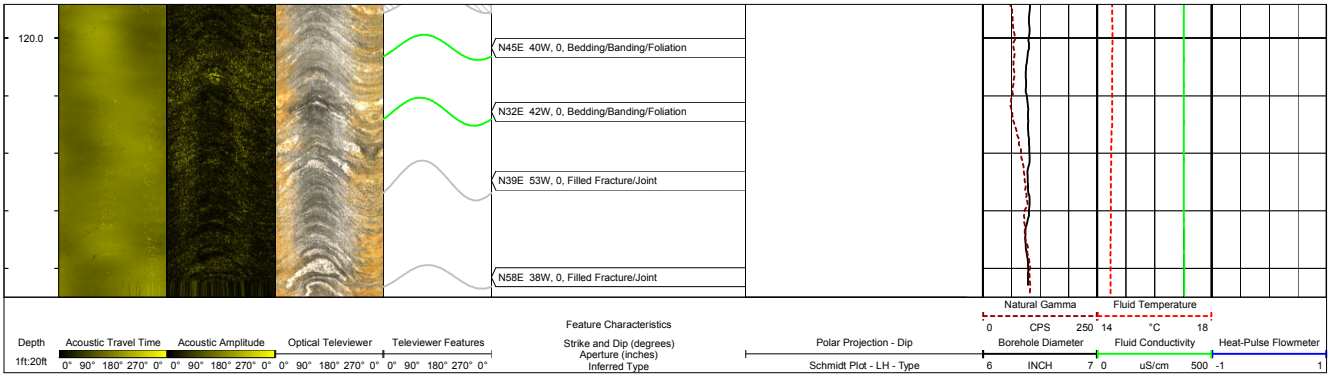
WELL ID *MW-27B*

Logging Date: *10.03.2013*
Logging Datum: *Ground Surface*
BOC: *58.5'* **DTW:** *46'* **TD:** *124.2'*

Site Name:
Location: *Phoenix, MD*
Client: *Kleinfelder*
Project No.: *081325*
Revision Date: *10.15.2013*




90.0
95.0
100.0
105.0
110.0
115.0
N48E 39W, 0, Filled Fracture/Joint
N45E 41W, 0, Filled Fracture/Joint
N56E 37W, 10.66, Filled Fracture/Joint
N60E 35W, 0, Filled Fracture/Joint
N55E 52W, 0, Filled Fracture/Joint
N45E 57W, 0, Filled Fracture/Joint
N60E 35W, 0, Bedding/Banding/Foliation
N37E 45W, 0, Filled Fracture/Joint
N88E 39W, 0, Bedding/Banding/Foliation
N49E 44W, 0, Minor Open Joint/Fracture
N59E 48W, 0, Bedding/Banding/Foliation
N62E 44W, 0, Bedding/Banding/Foliation
N61E 49W, 0, Filled Fracture/Joint
N42E 26W, 4.96, Minor Open Joint/Fracture
N68E 47W, 3.13, Minor Open Joint/Fracture
N58E 41W, 0, Bedding/Banding/Foliation
S77E 23E, 0, Bedding/Banding/Foliation
N88E 40W, 0, Bedding/Banding/Foliation
N63E 48W, 0, Bedding/Banding/Foliation
N75E 39W, 2.38, Filled Fracture/Joint
Schmidt Plot - LH - Type
Depth: 58.00 [ft] to 124.50 [ft]
0°
75
60
45
30
15
15
30
45
60
75
90
180°
Counts Dip[deg] Azi[deg]
Mean 34 41.15 327.93
5 33.46 326.04
14 40.54 332.65
15 44.09 324.51


120.0
N45E 40W, 0, Bedding/Banding/Foliation
N32E 42W, 0, Bedding/Banding/Foliation
N39E 53W, 0, Filled Fracture/Joint
N58E 38W, 0, Filled Fracture/Joint
Natural Gamma
Fluid Temperature
0 CPS 250 14 °C 18
Depth
1ft:20ft
Acoustic Travel Time
Acoustic Amplitude
Optical Televiewer
Televiewer Features
0° 90° 180° 270° 0° 0° 90° 180° 270° 0° 0° 90° 180° 270° 0° 0° 90° 180° 270° 0°
Feature Characteristics
Strike and Dip (degrees)
Aperture (inches)
Inferred Type
Polar Projection - Dip
Schmidt Plot - LH - Type
Borehole Diameter
6 INCH 7
Fluid Conductivity
0 uS/cm 500
Heat-Pulse Flowmeter
-1 1

Mid-Atlantic Geosciences

Title: *Borehole Geophysical Logging Program*

WELL ID	
MW-171C	**Logging Date:** *10.02.2013*
	Logging Datum: *Ground Surface*
	BOC: *122'* **DTW:** *N/A* **TD:** *410'*

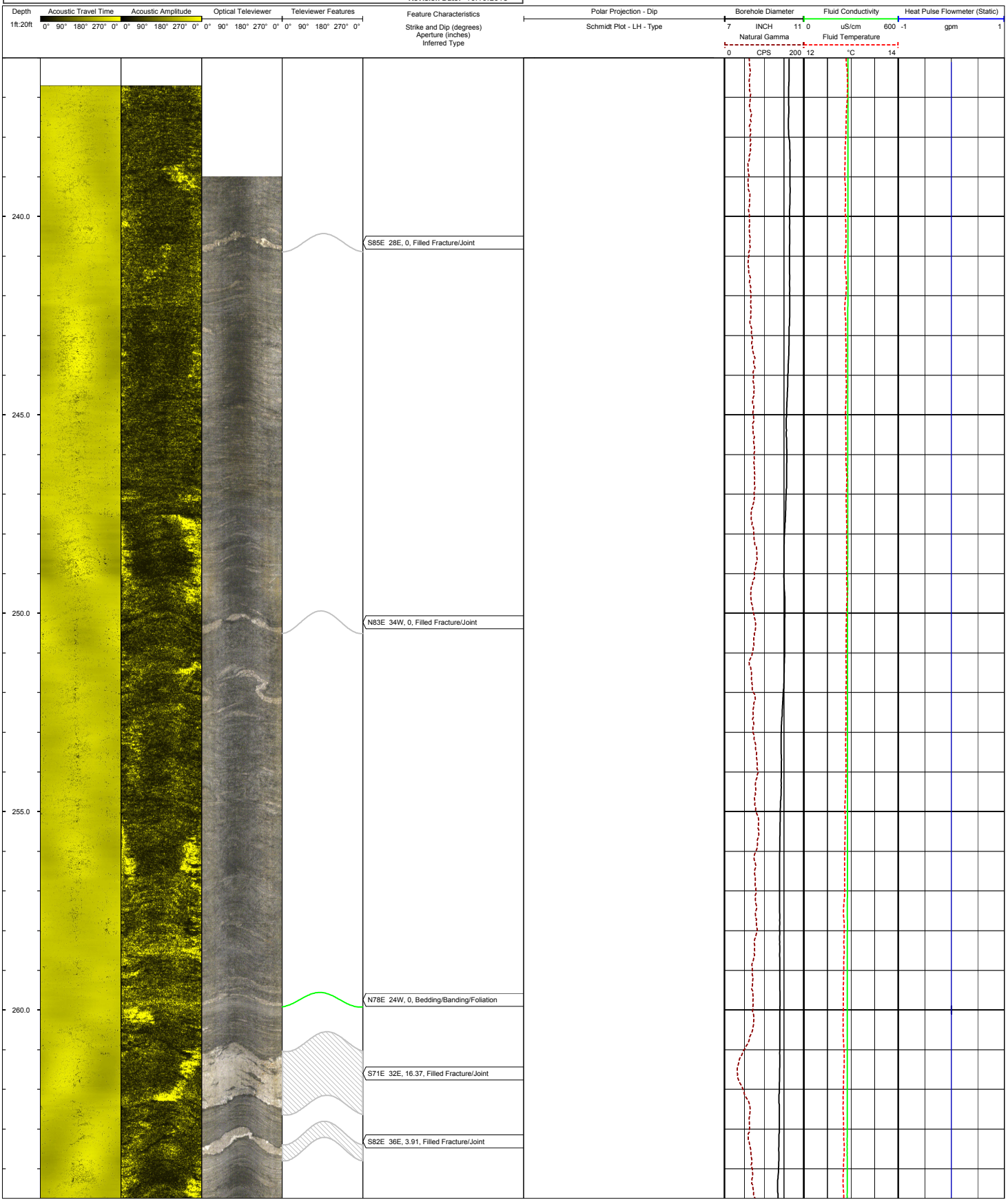
Site Name:

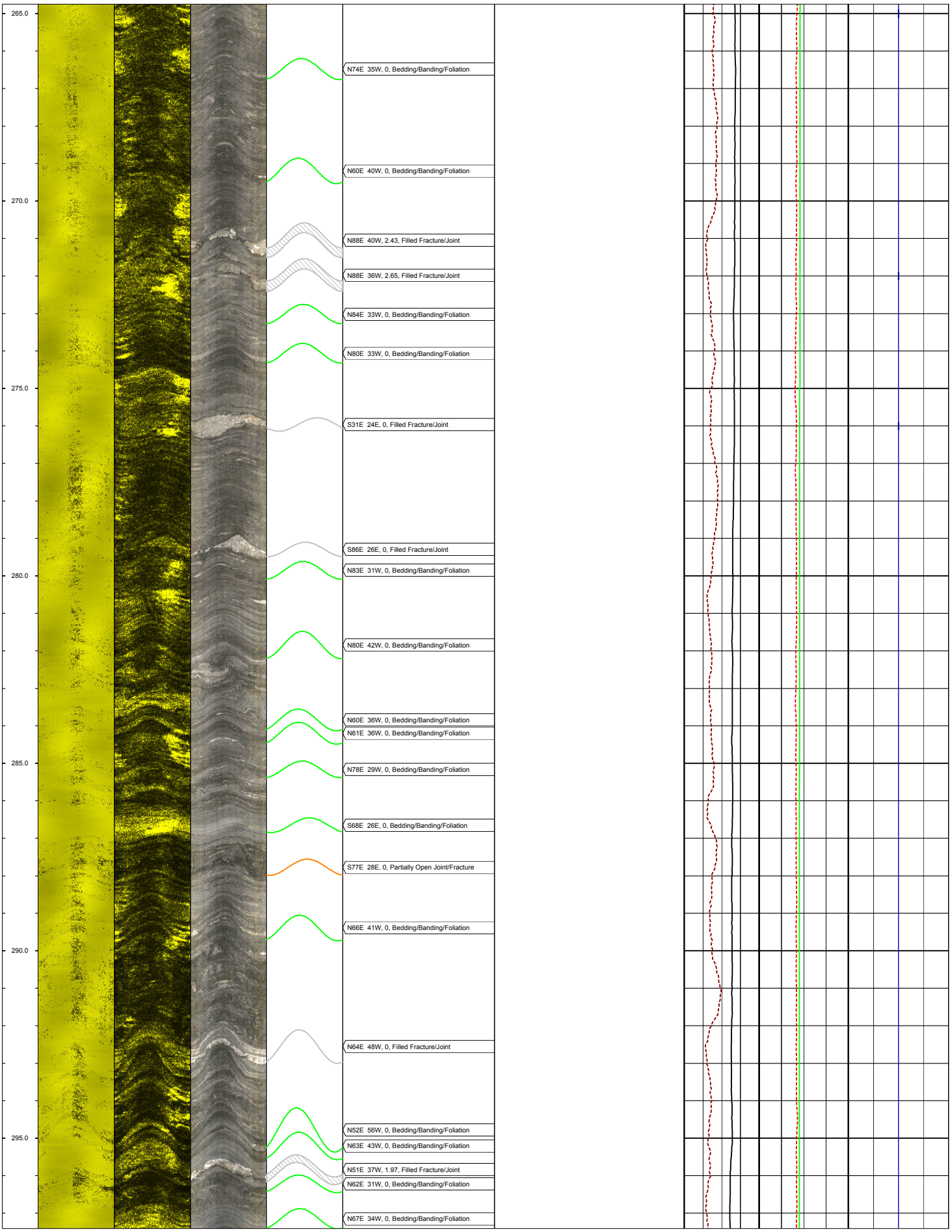
Location: *Phoenix, MD*

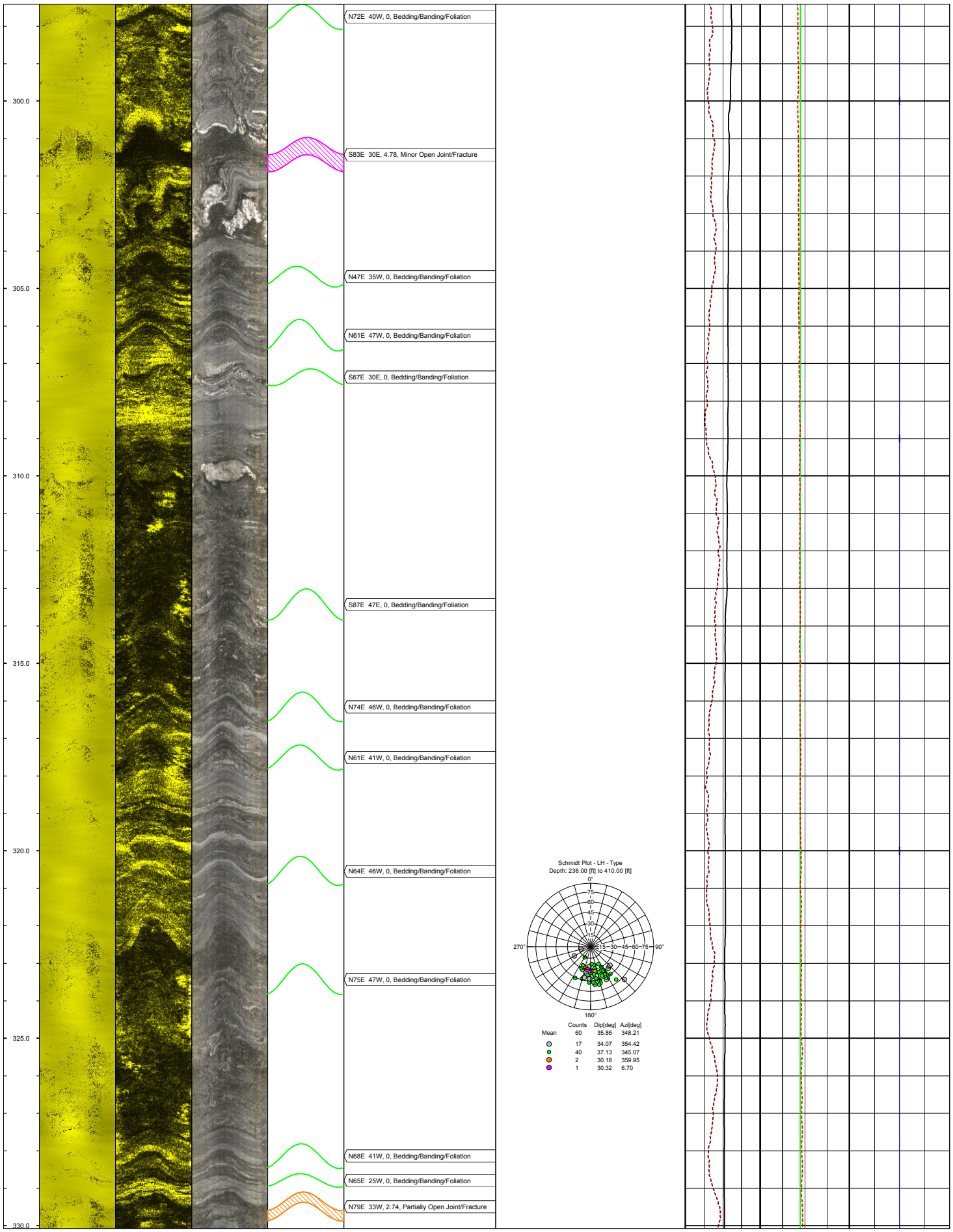
Client: *Kleinfelder*

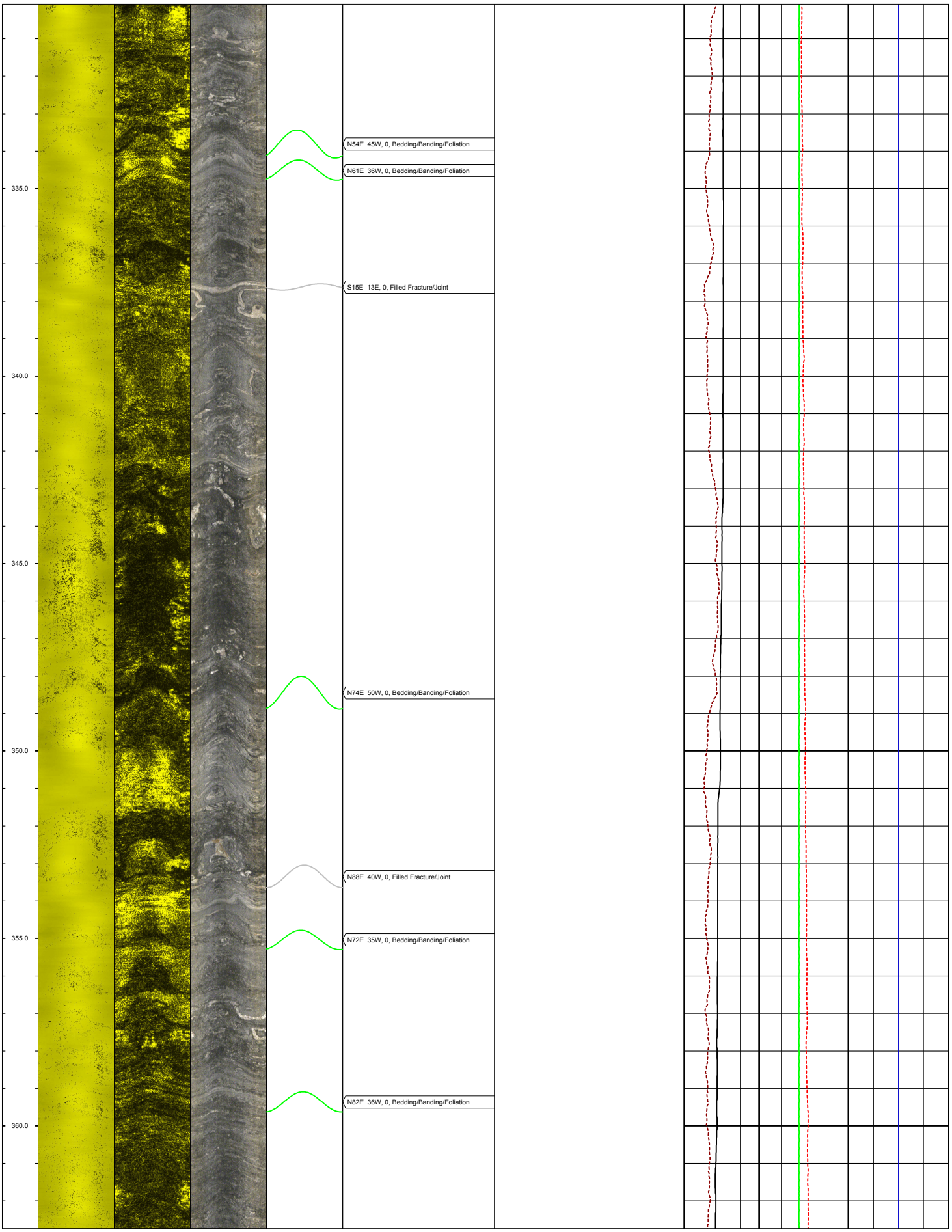
Project No.: *081325*

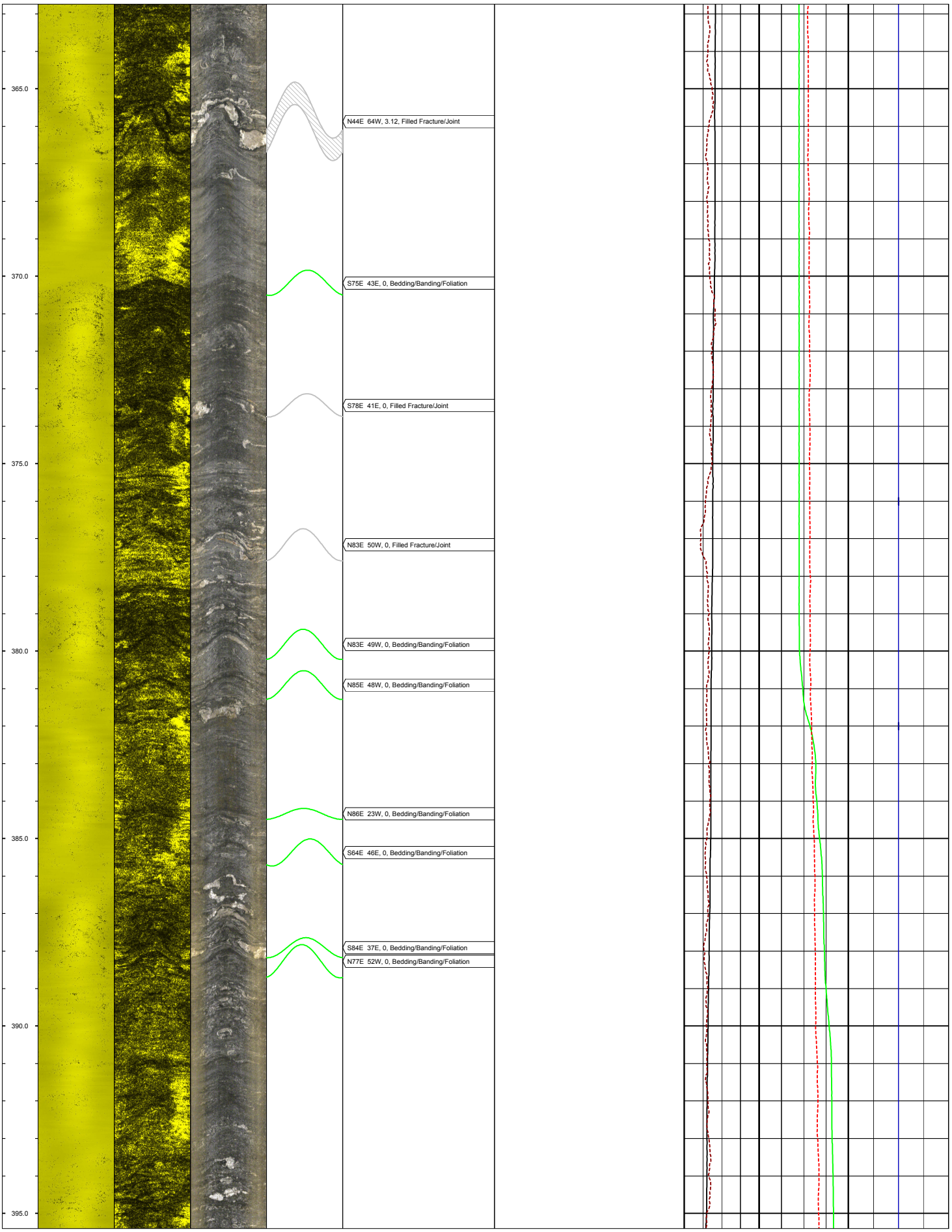
Revision Date: *10.10.2013*

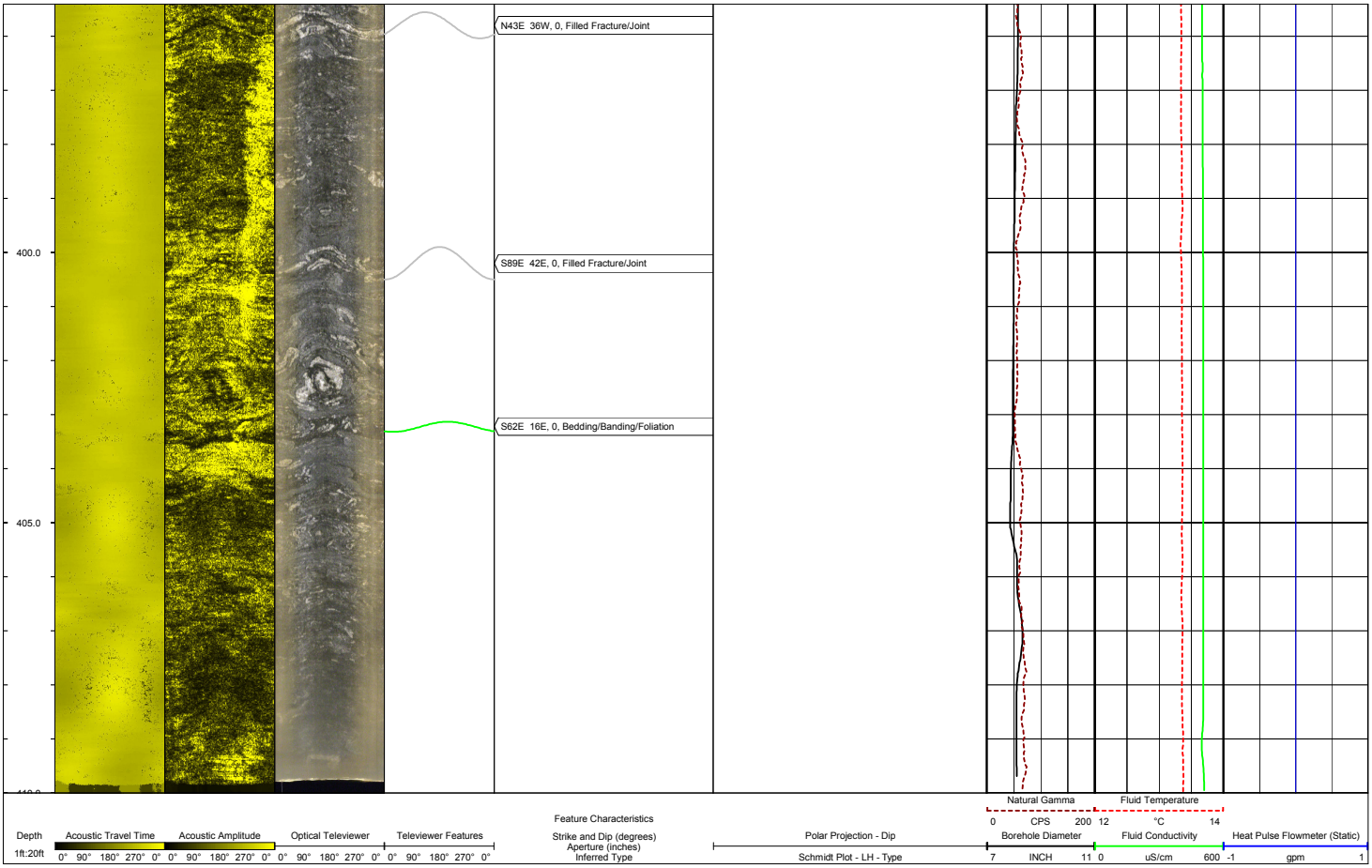



265.0
270.0
275.0
280.0
285.0
290.0
295.0
N74E 35W, 0, Bedding/Banding/Foliation
N60E 40W, 0, Bedding/Banding/Foliation
N88E 40W, 2.43, Filled Fracture/Joint
N88E 36W, 2.65, Filled Fracture/Joint
N84E 33W, 0, Bedding/Banding/Foliation
N80E 33W, 0, Bedding/Banding/Foliation
S31E 24E, 0, Filled Fracture/Joint
S86E 26E, 0, Filled Fracture/Joint
N83E 31W, 0, Bedding/Banding/Foliation
N80E 42W, 0, Bedding/Banding/Foliation
N60E 36W, 0, Bedding/Banding/Foliation
N61E 36W, 0, Bedding/Banding/Foliation
N78E 29W, 0, Bedding/Banding/Foliation
S68E 26E, 0, Bedding/Banding/Foliation
S77E 28E, 0, Partially Open Joint/Fracture
N66E 41W, 0, Bedding/Banding/Foliation
N64E 48W, 0, Filled Fracture/Joint
N52E 56W, 0, Bedding/Banding/Foliation
N63E 43W, 0, Bedding/Banding/Foliation
N51E 37W, 1.97, Filled Fracture/Joint
N62E 31W, 0, Bedding/Banding/Foliation
N67E 34W, 0, Bedding/Banding/Foliation


N72E 40W, 0, Bedding/Banding/Foliation
S83E 30E, 4.78, Minor Open Joint/Fracture
N47E 35W, 0, Bedding/Banding/Foliation
N61E 47W, 0, Bedding/Banding/Foliation
S67E 30E, 0, Bedding/Banding/Foliation
S87E 47E, 0, Bedding/Banding/Foliation
N74E 46W, 0, Bedding/Banding/Foliation
N61E 41W, 0, Bedding/Banding/Foliation
N64E 46W, 0, Bedding/Banding/Foliation
N75E 47W, 0, Bedding/Banding/Foliation
N68E 41W, 0, Bedding/Banding/Foliation
N65E 25W, 0, Bedding/Banding/Foliation
N79E 33W, 2.74, Partially Open Joint/Fracture
300.0
305.0
310.0
315.0
320.0
325.0
330.0
Schmidt Plot - LH - Type
Depth: 236.00 [ft] to 410.00 [ft]
0°
90°
180°
270°
Counts Dip[deg] Azi[deg]
Mean 60 35.86 348.21
17 34.07 354.42
40 37.13 345.07
2 30.18 359.95
1 30.32 6.70


N54E 45W, 0, Bedding/Banding/Foliation
N61E 36W, 0, Bedding/Banding/Foliation
S15E 13E, 0, Filled Fracture/Joint
N74E 50W, 0, Bedding/Banding/Foliation
N88E 40W, 0, Filled Fracture/Joint
N72E 35W, 0, Bedding/Banding/Foliation
N82E 36W, 0, Bedding/Banding/Foliation
335.0
340.0
345.0
350.0
355.0
360.0


365.0
370.0
375.0
380.0
385.0
390.0
395.0
N44E 64W, 3.12, Filled Fracture/Joint
S75E 43E, 0, Bedding/Banding/Foliation
S78E 41E, 0, Filled Fracture/Joint
N83E 50W, 0, Filled Fracture/Joint
N83E 49W, 0, Bedding/Banding/Foliation
N85E 48W, 0, Bedding/Banding/Foliation
N86E 23W, 0, Bedding/Banding/Foliation
S64E 46E, 0, Bedding/Banding/Foliation
S84E 37E, 0, Bedding/Banding/Foliation
N77E 52W, 0, Bedding/Banding/Foliation


N43E 36W, 0, Filled Fracture/Joint
S89E 42E, 0, Filled Fracture/Joint
S62E 16E, 0, Bedding/Banding/Foliation
400.0
405.0
Natural Gamma
Fluid Temperature
0 CPS 200
12 °C 14
Depth
1ft:20ft
Acoustic Travel Time
Acoustic Amplitude
Optical Televiewer
Televiewer Features
0° 90° 180° 270° 0° 0° 90° 180° 270° 0° 0° 90° 180° 270° 0° 0° 90° 180° 270° 0°
Feature Characteristics
Strike and Dip (degrees)
Aperture (inches)
Inferred Type
Polar Projection - Dip
Schmidt Plot - LH - Type
Borehole Diameter
7 INCH 11
Fluid Conductivity
0 uS/cm 600
Heat Pulse Flowmeter (Static)
-1 gpm 1

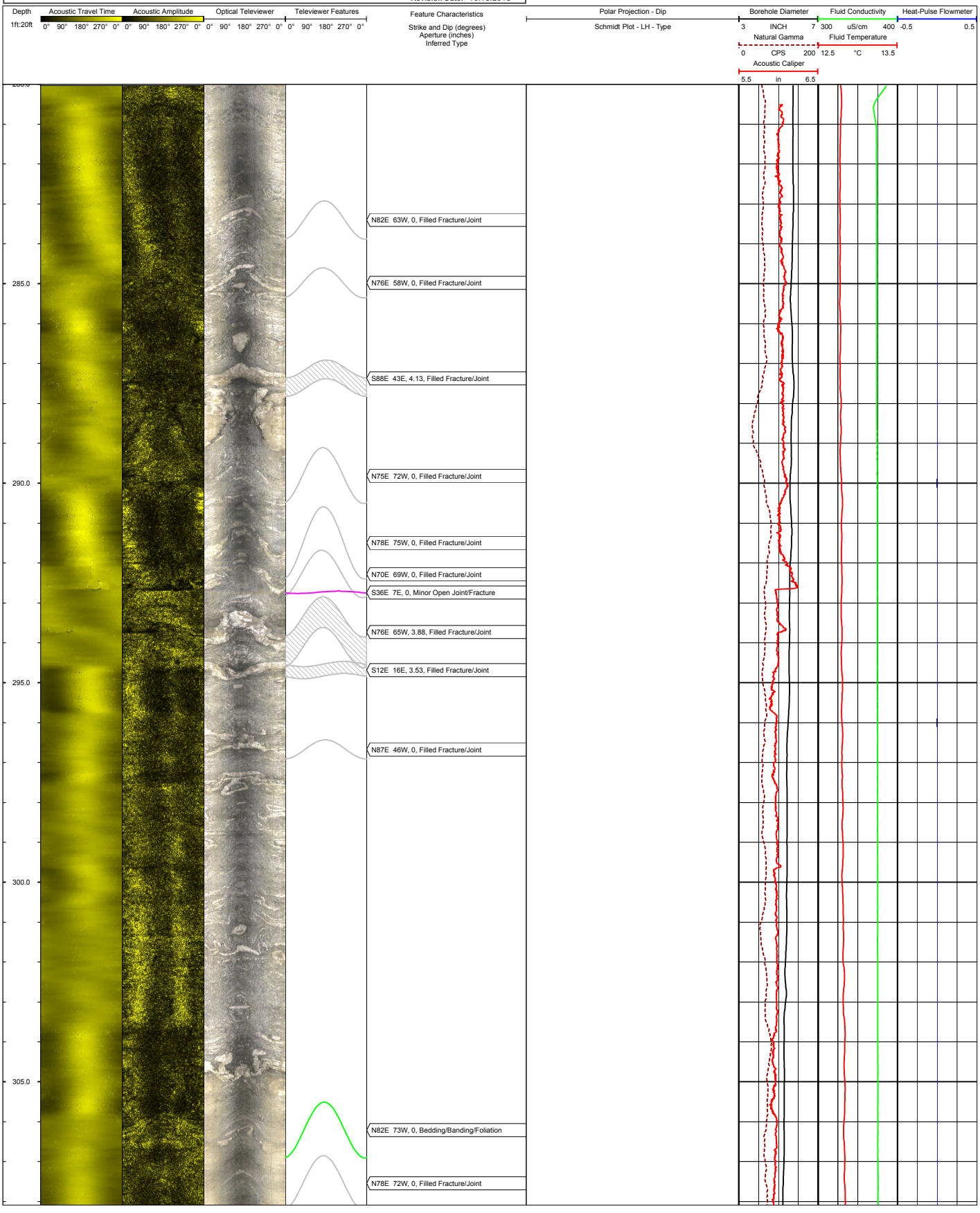
Mid-Atlantic Geosciences

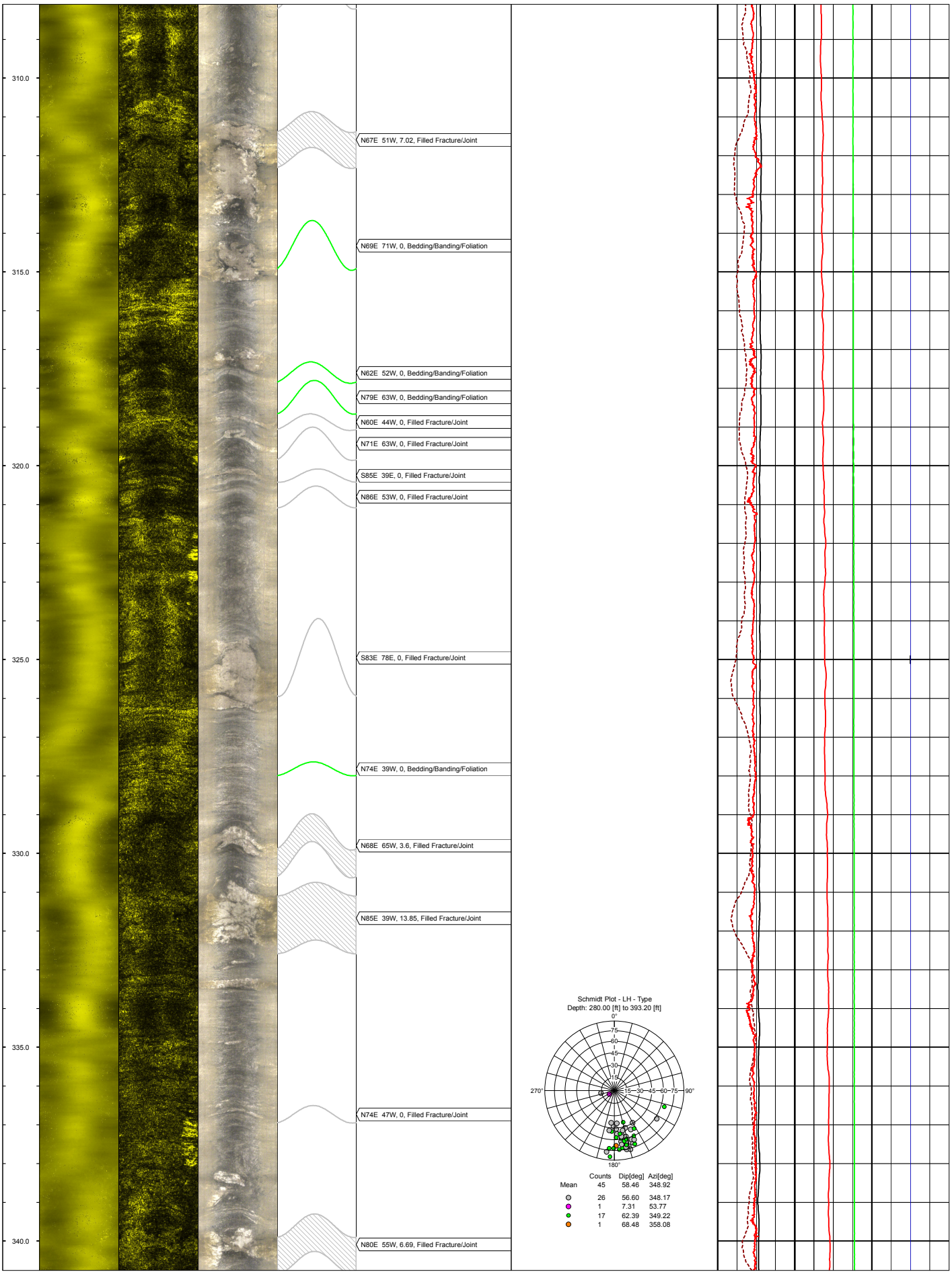
Title: *Borehole Geophysics Logging Program*

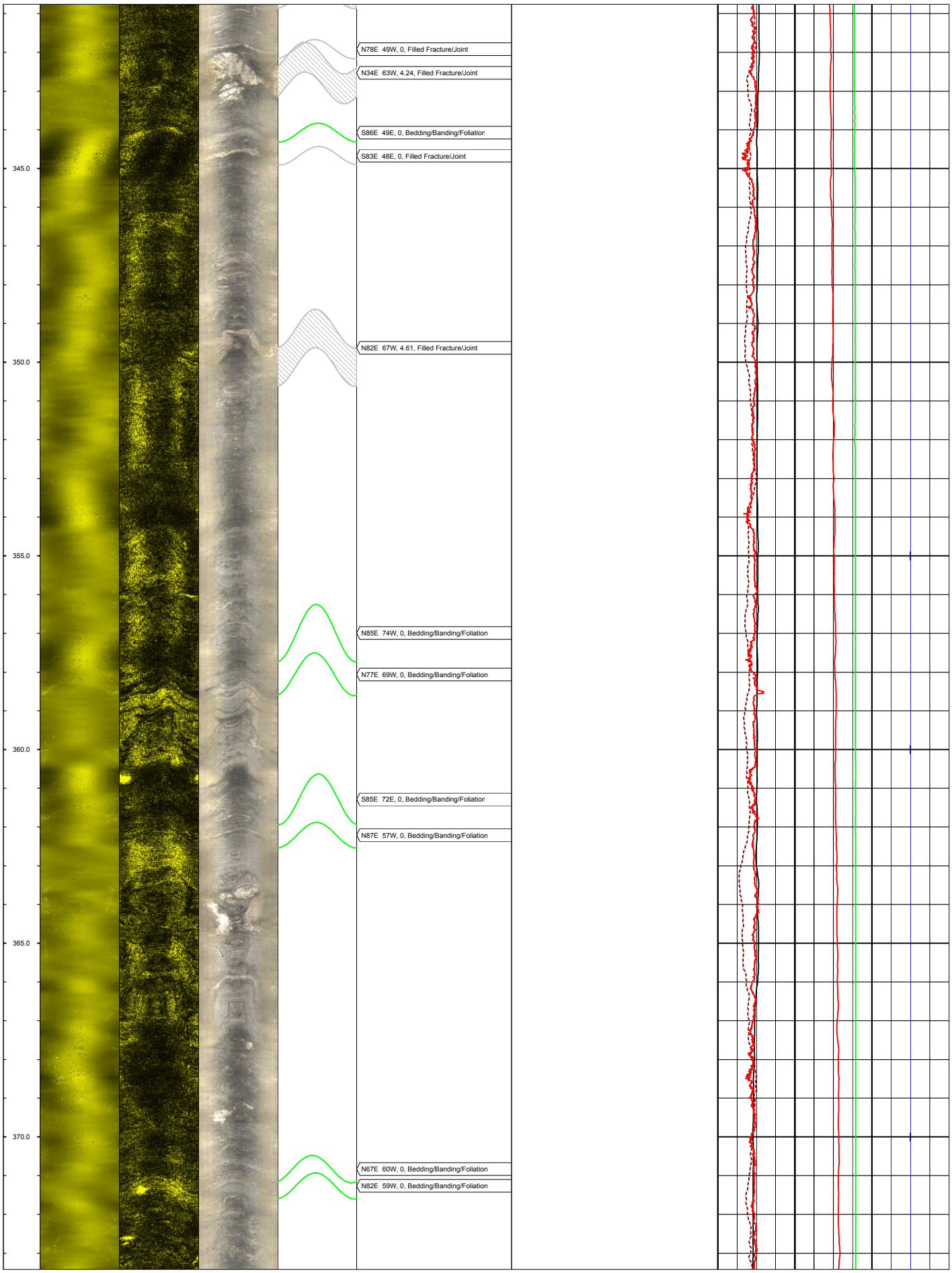
WELL ID *MW-135C*

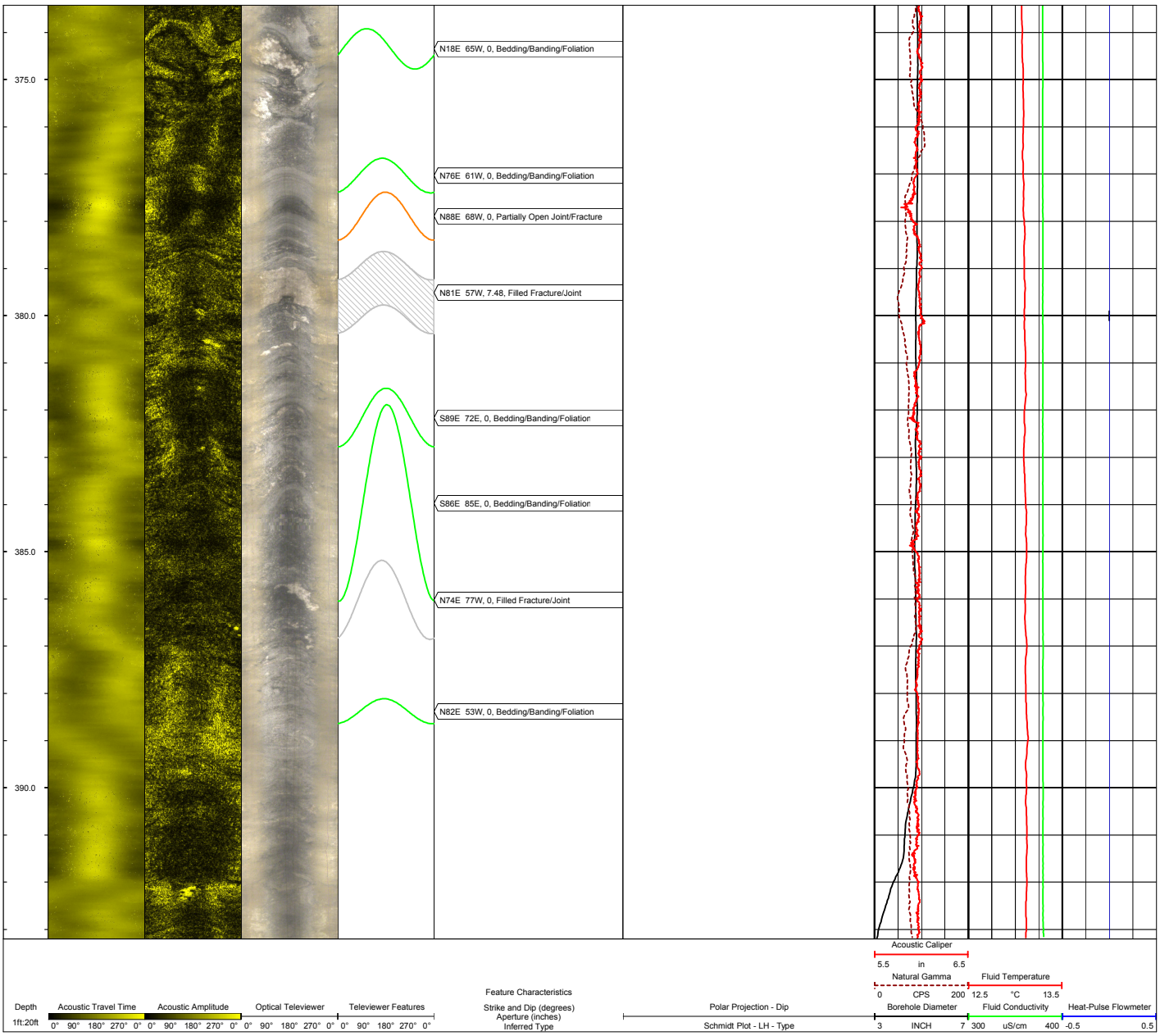
Logging Date: *09.30.2013*
Logging Datum: *Ground Surface*
BOC: *N/A* **DTW:** *N/A* **TD:** *393.2'*

Site Name:
Location: *Phoenix, MD*
Client: *Kleinfelder*
Project No.: *081325*
Revision Date: *10.15.2013*




310.0
315.0
320.0
325.0
330.0
335.0
340.0
N67E 51W, 7.02, Filled Fracture/Joint
N69E 71W, 0, Bedding/Banding/Foliation
N62E 52W, 0, Bedding/Banding/Foliation
N79E 63W, 0, Bedding/Banding/Foliation
N60E 44W, 0, Filled Fracture/Joint
N71E 63W, 0, Filled Fracture/Joint
S85E 39E, 0, Filled Fracture/Joint
N86E 53W, 0, Filled Fracture/Joint
S83E 78E, 0, Filled Fracture/Joint
N74E 39W, 0, Bedding/Banding/Foliation
N68E 65W, 3.6, Filled Fracture/Joint
N85E 39W, 13.85, Filled Fracture/Joint
N74E 47W, 0, Filled Fracture/Joint
N80E 55W, 6.69, Filled Fracture/Joint
Schmidt Plot - LH - Type
Depth: 280.00 [ft] to 393.20 [ft]
0°
90°
180°
270°
Counts Dip[deg] Azi[deg]
Mean 45 58.46 348.92
26 56.60 348.17
1 7.31 53.77
17 62.39 349.22
1 68.48 358.08


N78E 49W, 0, Filled Fracture/Joint
N34E 63W, 4.24, Filled Fracture/Joint
S86E 49E, 0, Bedding/Banding/Foliation
S83E 48E, 0, Filled Fracture/Joint
345.0
N82E 67W, 4.61, Filled Fracture/Joint
350.0
355.0
N85E 74W, 0, Bedding/Banding/Foliation
N77E 69W, 0, Bedding/Banding/Foliation
360.0
S85E 72E, 0, Bedding/Banding/Foliation
N87E 57W, 0, Bedding/Banding/Foliation
365.0
370.0
N67E 60W, 0, Bedding/Banding/Foliation
N82E 59W, 0, Bedding/Banding/Foliation


375.0
380.0
385.0
390.0
N18E 65W, 0, Bedding/Banding/Foliation
N76E 61W, 0, Bedding/Banding/Foliation
N88E 68W, 0, Partially Open Joint/Fracture
N81E 57W, 7.48, Filled Fracture/Joint
S89E 72E, 0, Bedding/Banding/Foliation
S86E 85E, 0, Bedding/Banding/Foliation
N74E 77W, 0, Filled Fracture/Joint
N82E 53W, 0, Bedding/Banding/Foliation
Acoustic Caliper
5.5 in 6.5
Natural Gamma
Fluid Temperature
0 CPS 200 12.5 °C 13.5
Depth
1ft:20ft
Acoustic Travel Time
Acoustic Amplitude
Optical Televiewer
Televiewer Features
0° 90° 180° 270° 0° 0° 90° 180° 270° 0° 0° 90° 180° 270° 0° 0° 90° 180° 270° 0°
Feature Characteristics
Strike and Dip (degrees)
Aperture (inches)
Inferred Type
Polar Projection - Dip
Schmidt Plot - LH - Type
Borehole Diameter
Fluid Conductivity
Heat-Pulse Flowmeter
3 INCH 7 300 uS/cm 400 -0.5 0.5

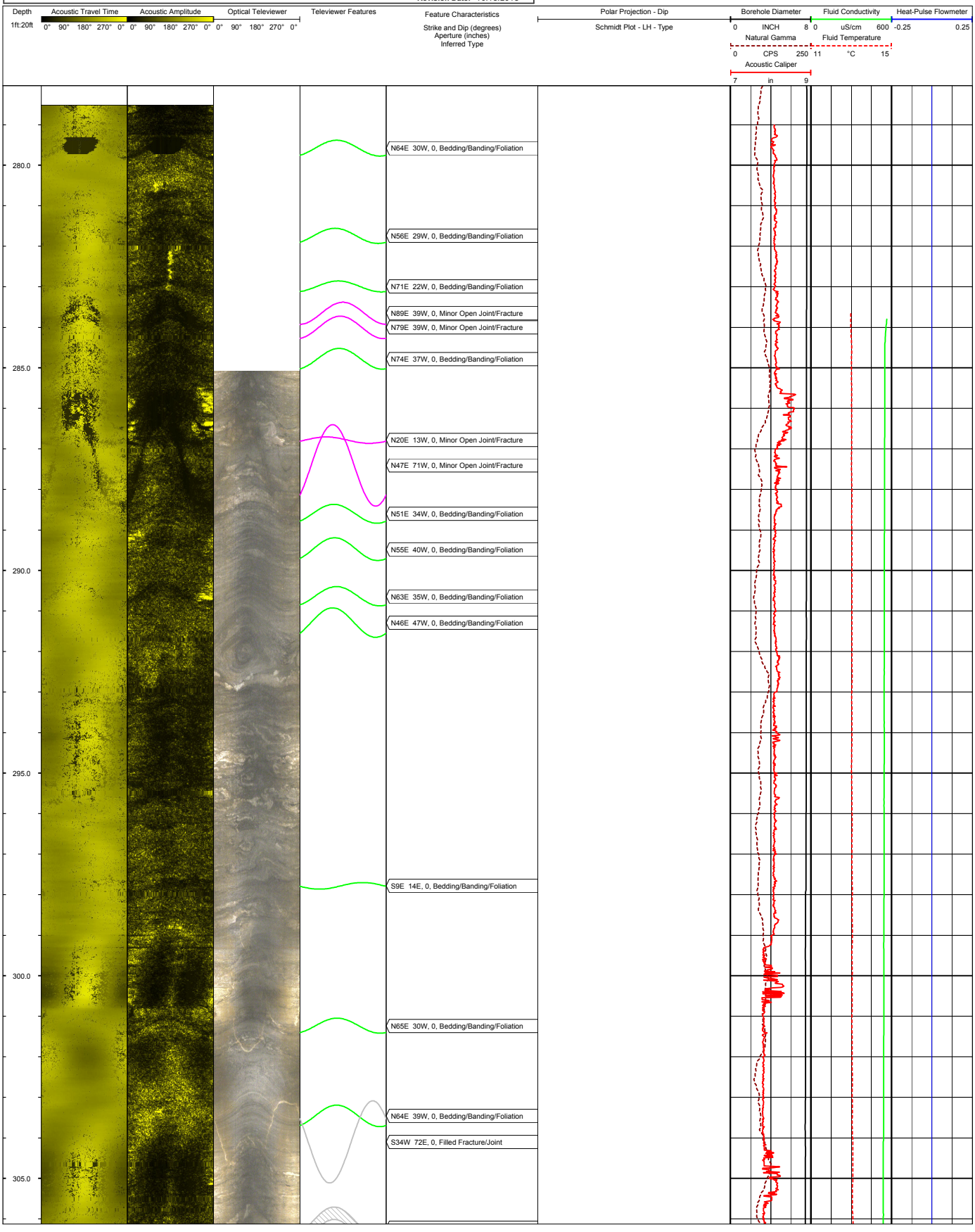
Mid-Atlantic Geosciences

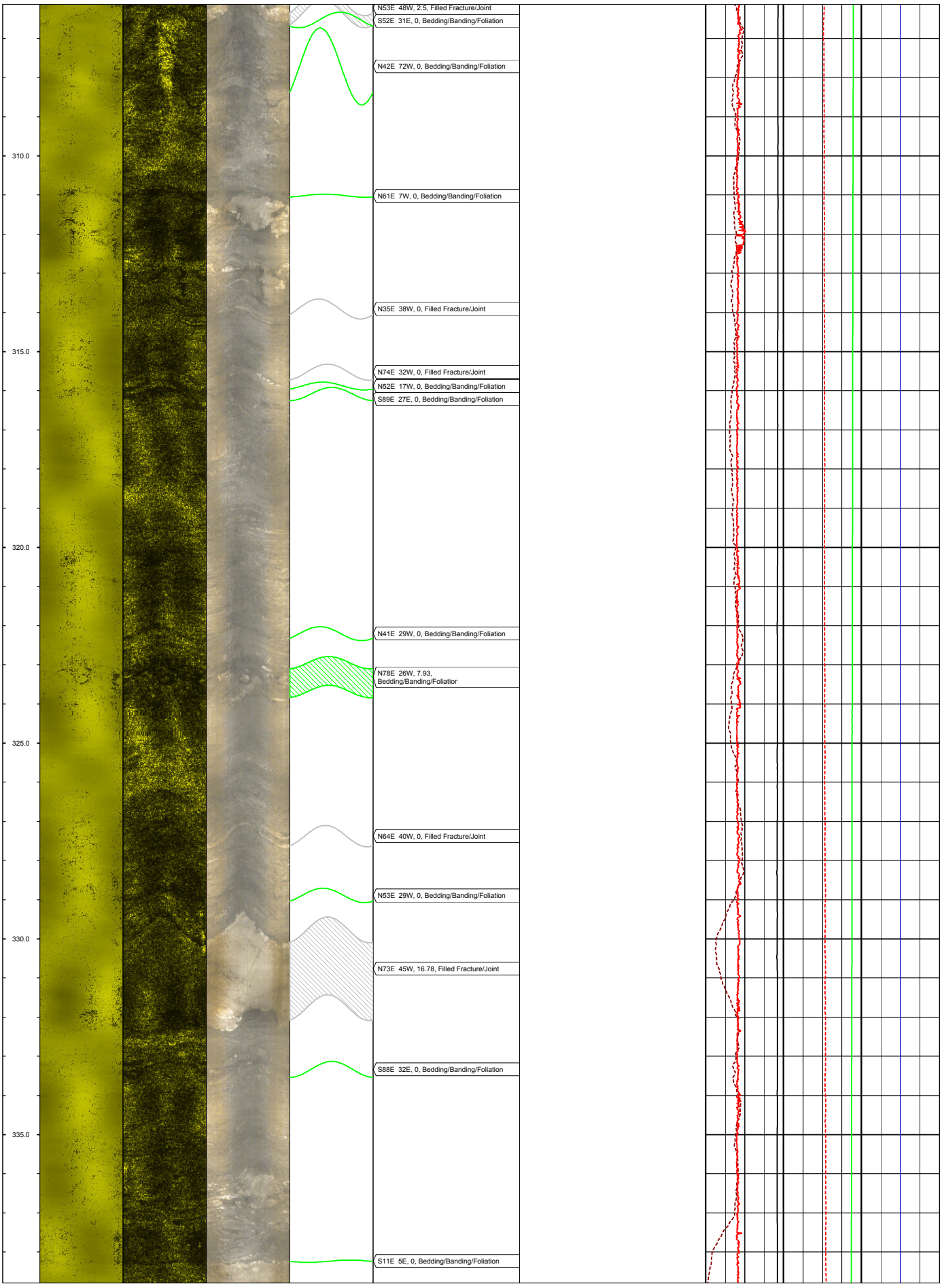
Title: *Beorehole Geophysical Logging Program*

WELL ID *MW-36C*

Logging Date: *10.01.2013*
Logging Datum: *Ground Surface*
BOC: *N/A* **DTW:** *50.4'* **TD:** *416.5'*

Site Name:
Location: *Phoenix, MD*
Client: *Kleinfelder*
Project No.: *081325*
Revision Date: *10.15.2013*

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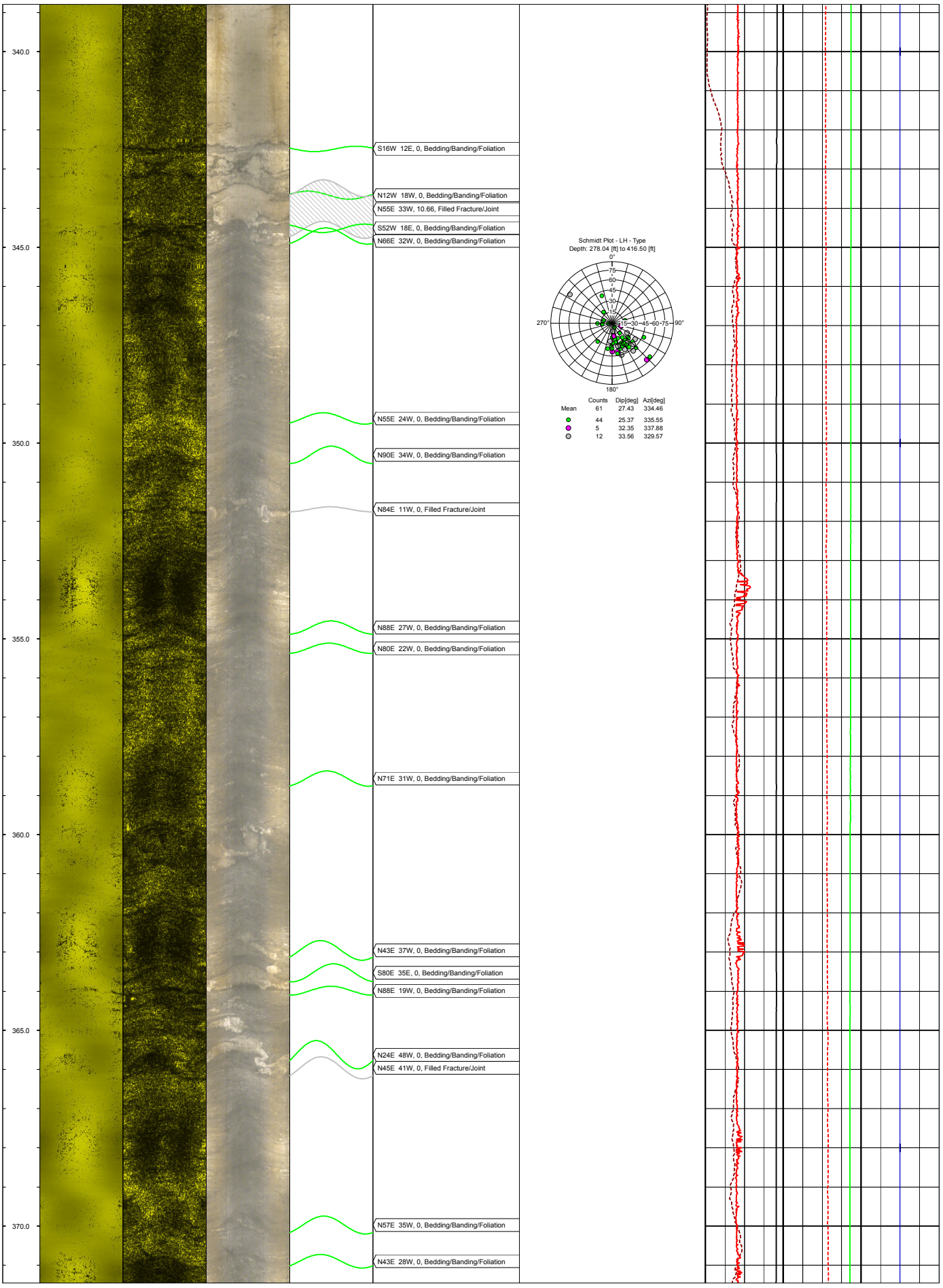
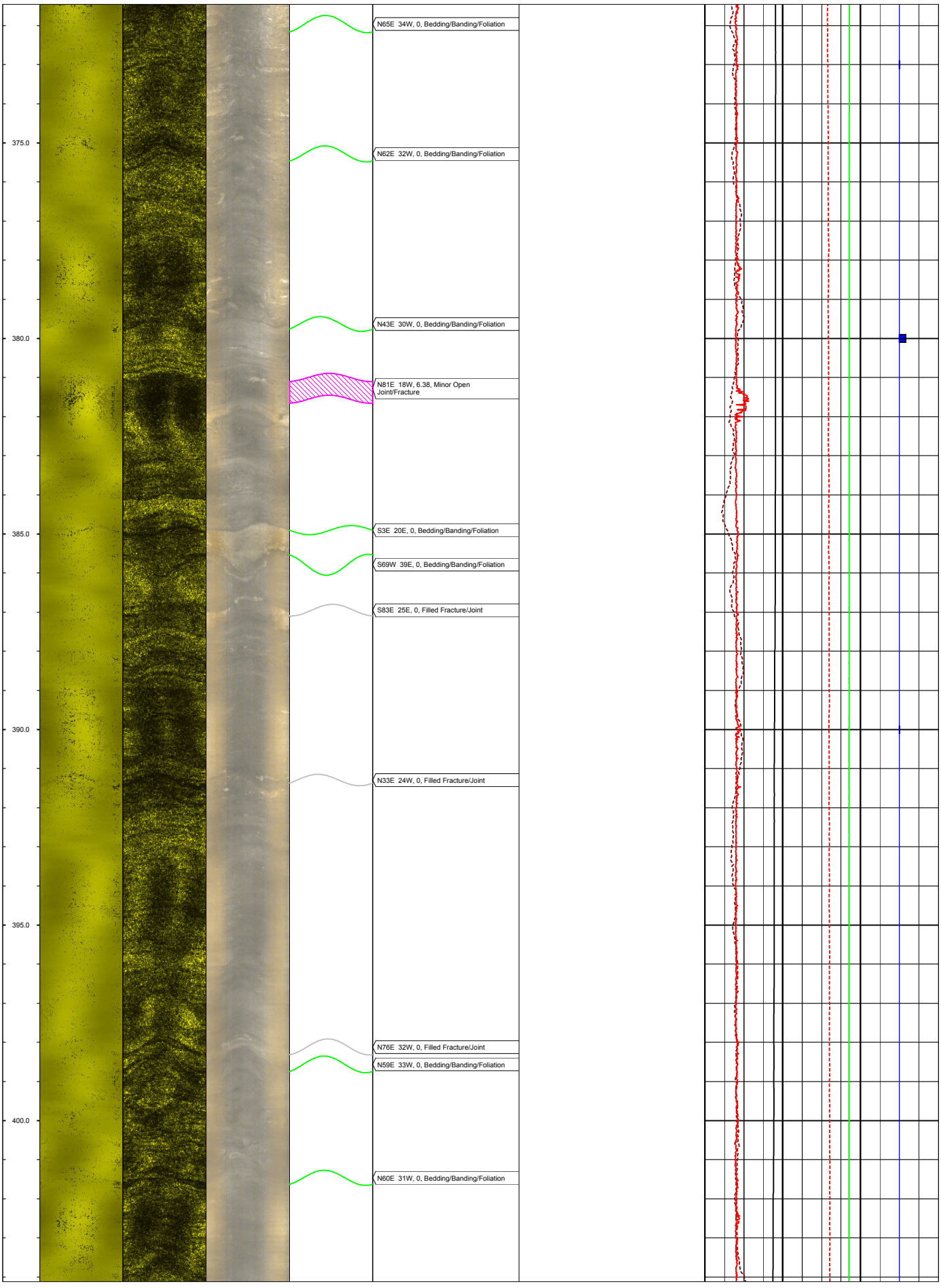
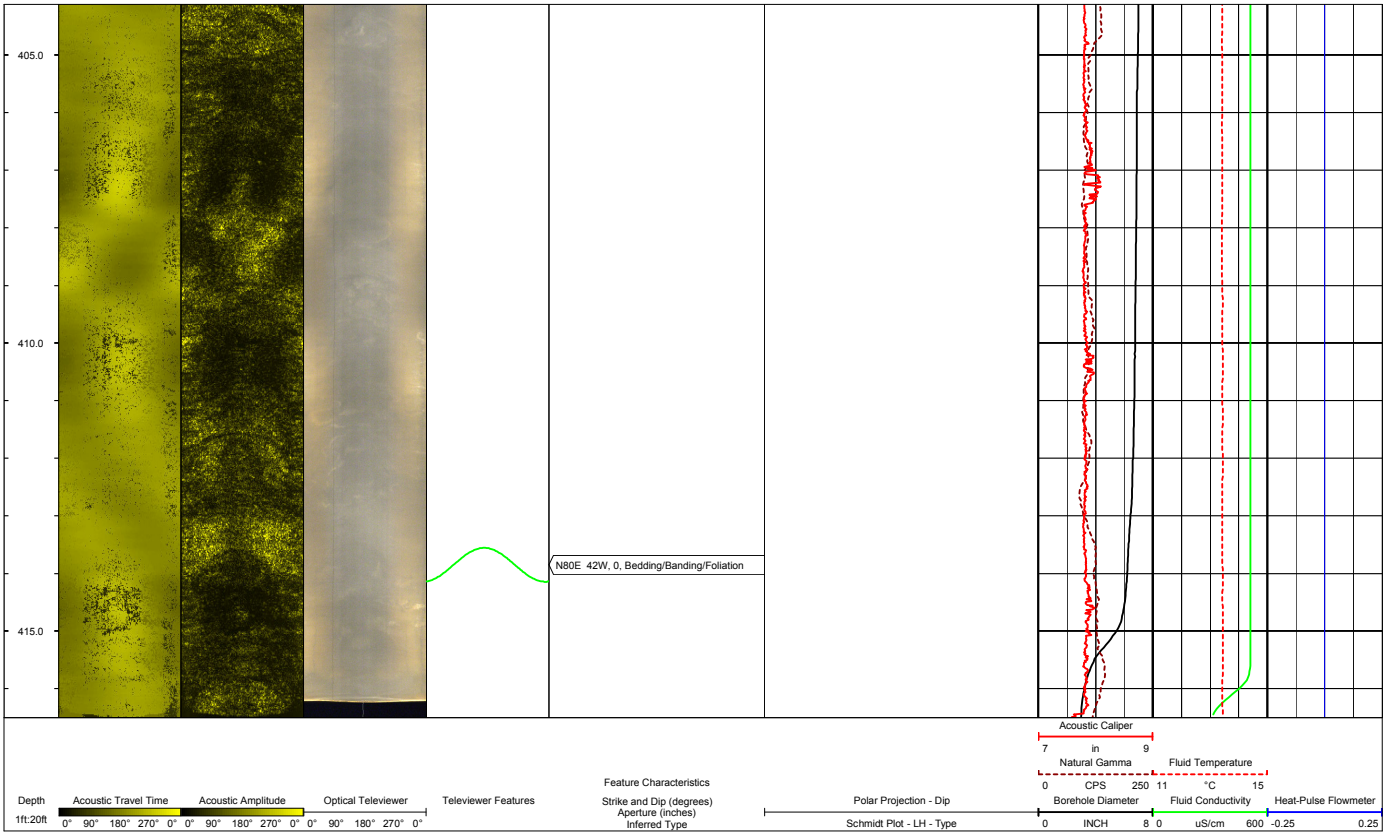
S52E 31E, 0, Bedding/Banding/Foliation
N42E 72W, 0, Bedding/Banding/Foliation
310.0
N61E 7W, 0, Bedding/Banding/Foliation
N35E 38W, 0, Filled Fracture/Joint
315.0
N74E 32W, 0, Filled Fracture/Joint
N52E 17W, 0, Bedding/Banding/Foliation
S89E 27E, 0, Bedding/Banding/Foliation
320.0
N41E 29W, 0, Bedding/Banding/Foliation
N78E 26W, 7.93,
Bedding/Banding/Foliatior
325.0
N64E 40W, 0, Filled Fracture/Joint
N53E 29W, 0, Bedding/Banding/Foliation
330.0
N73E 45W, 16.78, Filled Fracture/Joint
S88E 32E, 0, Bedding/Banding/Foliation
335.0
S11E 5E, 0, Bedding/Banding/Foliation


340.0
345.0
350.0
355.0
360.0
365.0
370.0
S16W 12E, 0, Bedding/Banding/Foliation
N12W 18W, 0, Bedding/Banding/Foliation
N55E 33W, 10.66, Filled Fracture/Joint
S52W 18E, 0, Bedding/Banding/Foliation
N66E 32W, 0, Bedding/Banding/Foliation
N55E 24W, 0, Bedding/Banding/Foliation
N90E 34W, 0, Bedding/Banding/Foliation
N84E 11W, 0, Filled Fracture/Joint
N88E 27W, 0, Bedding/Banding/Foliation
N80E 22W, 0, Bedding/Banding/Foliation
N71E 31W, 0, Bedding/Banding/Foliation
N43E 37W, 0, Bedding/Banding/Foliation
S80E 35E, 0, Bedding/Banding/Foliation
N88E 19W, 0, Bedding/Banding/Foliation
N24E 48W, 0, Bedding/Banding/Foliation
N45E 41W, 0, Filled Fracture/Joint
N57E 35W, 0, Bedding/Banding/Foliation
N43E 28W, 0, Bedding/Banding/Foliation
Schmidt Plot - LH - Type
Depth: 278.04 [ft] to 416.50 [ft]
0°
75
60
45
30
15
270°
15 30 45 60 75 90°
180°
Counts Dip[deg] Azi[deg]
Mean 61 27.43 334.46
44 25.37 335.55
5 32.35 337.88
12 33.56 329.57


375.0
380.0
385.0
390.0
395.0
400.0
N65E 34W, 0, Bedding/Banding/Foliation
N62E 32W, 0, Bedding/Banding/Foliation
N43E 30W, 0, Bedding/Banding/Foliation
N81E 18W, 6.38, Minor Open Joint/Fracture
S3E 20E, 0, Bedding/Banding/Foliation
S69W 39E, 0, Bedding/Banding/Foliation
S83E 25E, 0, Filled Fracture/Joint
N33E 24W, 0, Filled Fracture/Joint
N76E 32W, 0, Filled Fracture/Joint
N59E 33W, 0, Bedding/Banding/Foliation
N60E 31W, 0, Bedding/Banding/Foliation


405.0
410.0
415.0
N80E 42W, 0, Bedding/Banding/Foliation
Acoustic Caliper
7 in 9
Natural Gamma
Fluid Temperature
0 CPS 250 11 °C 15
Depth
1ft:20ft
Acoustic Travel Time
Acoustic Amplitude
Optical Televiewer
0° 90° 180° 270° 0° 0° 90° 180° 270° 0° 0° 90° 180° 270° 0°
Televiewer Features
Feature Characteristics
Strike and Dip (degrees)
Aperture (inches)
Inferred Type
Polar Projection - Dip
Schmidt Plot - LH - Type
Borehole Diameter
0 INCH 8
Fluid Conductivity
0 uS/cm 600
Heat-Pulse Flowmeter
-0.25 0.25

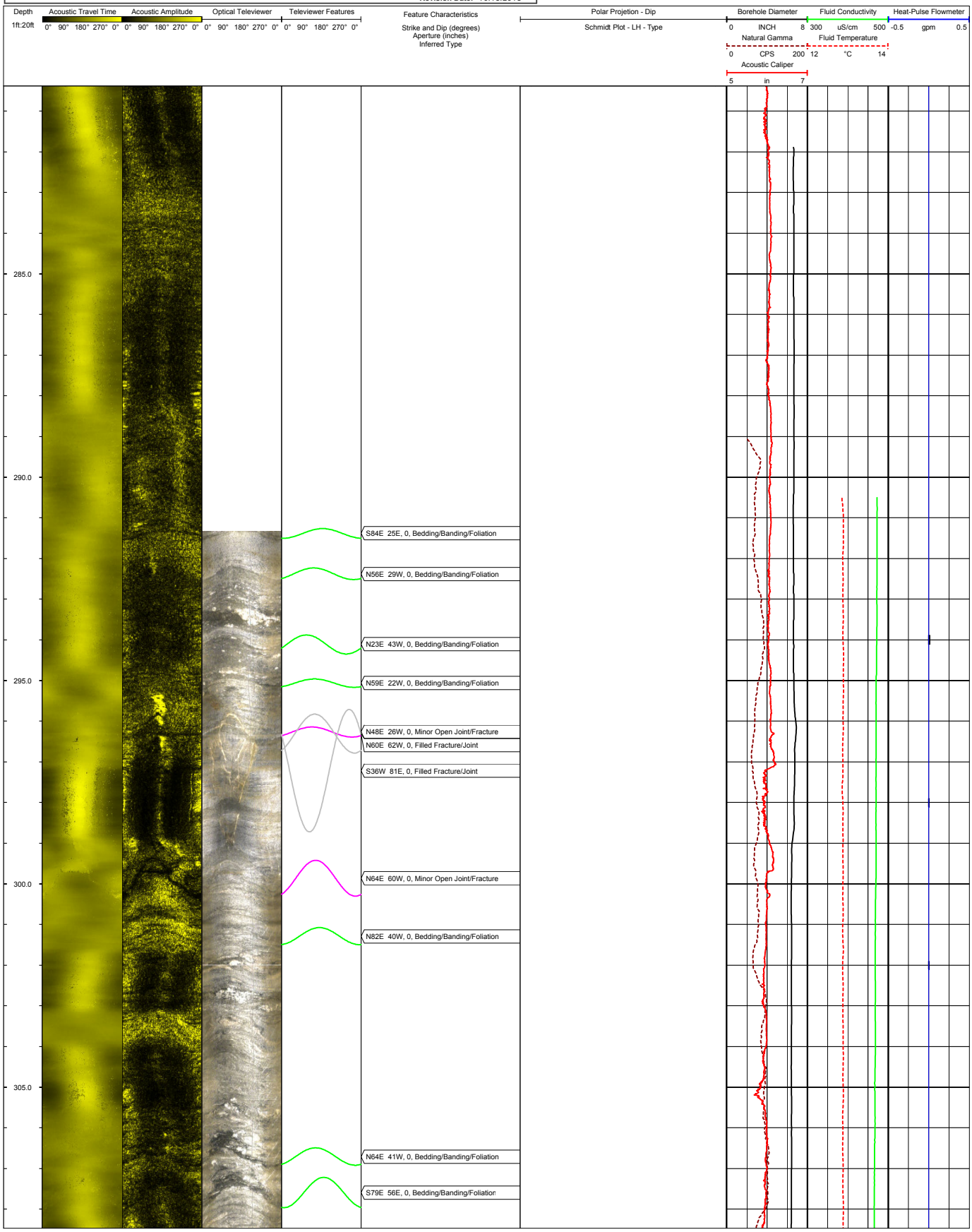
Mid-Atlantic Geosciences

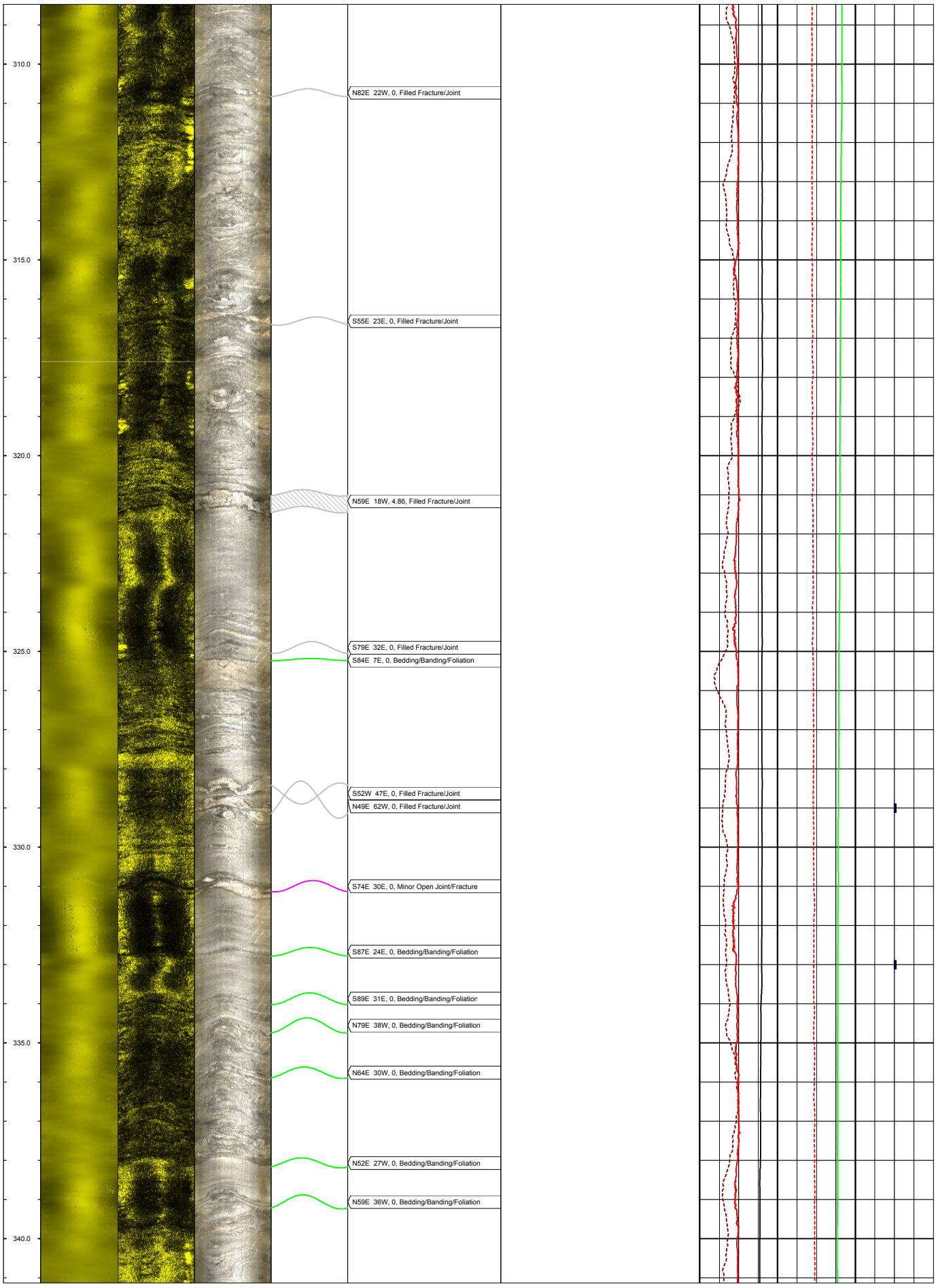
Title: *Borehole Geophysical Logging Program*

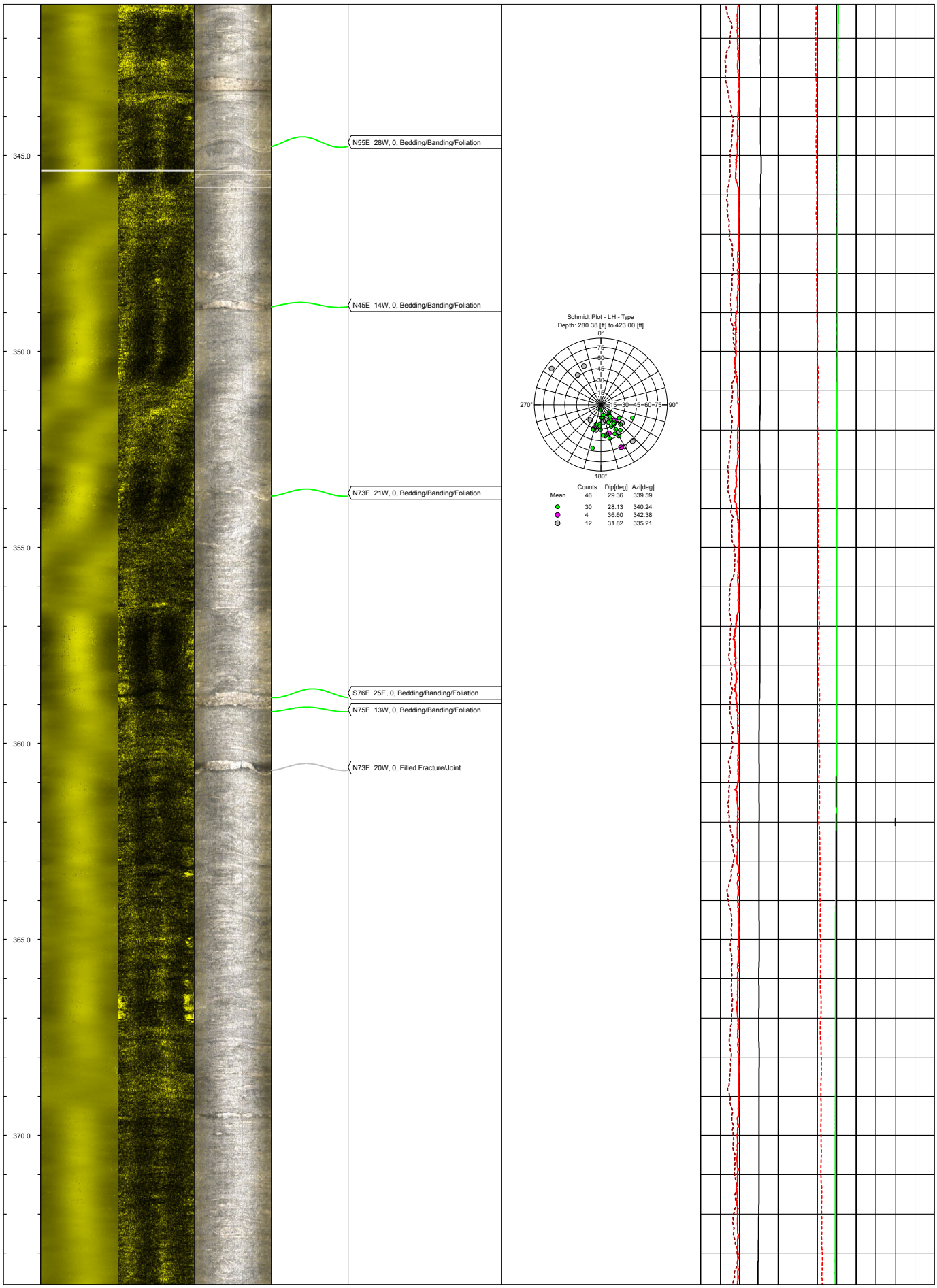
WELL ID	
PW-3501	

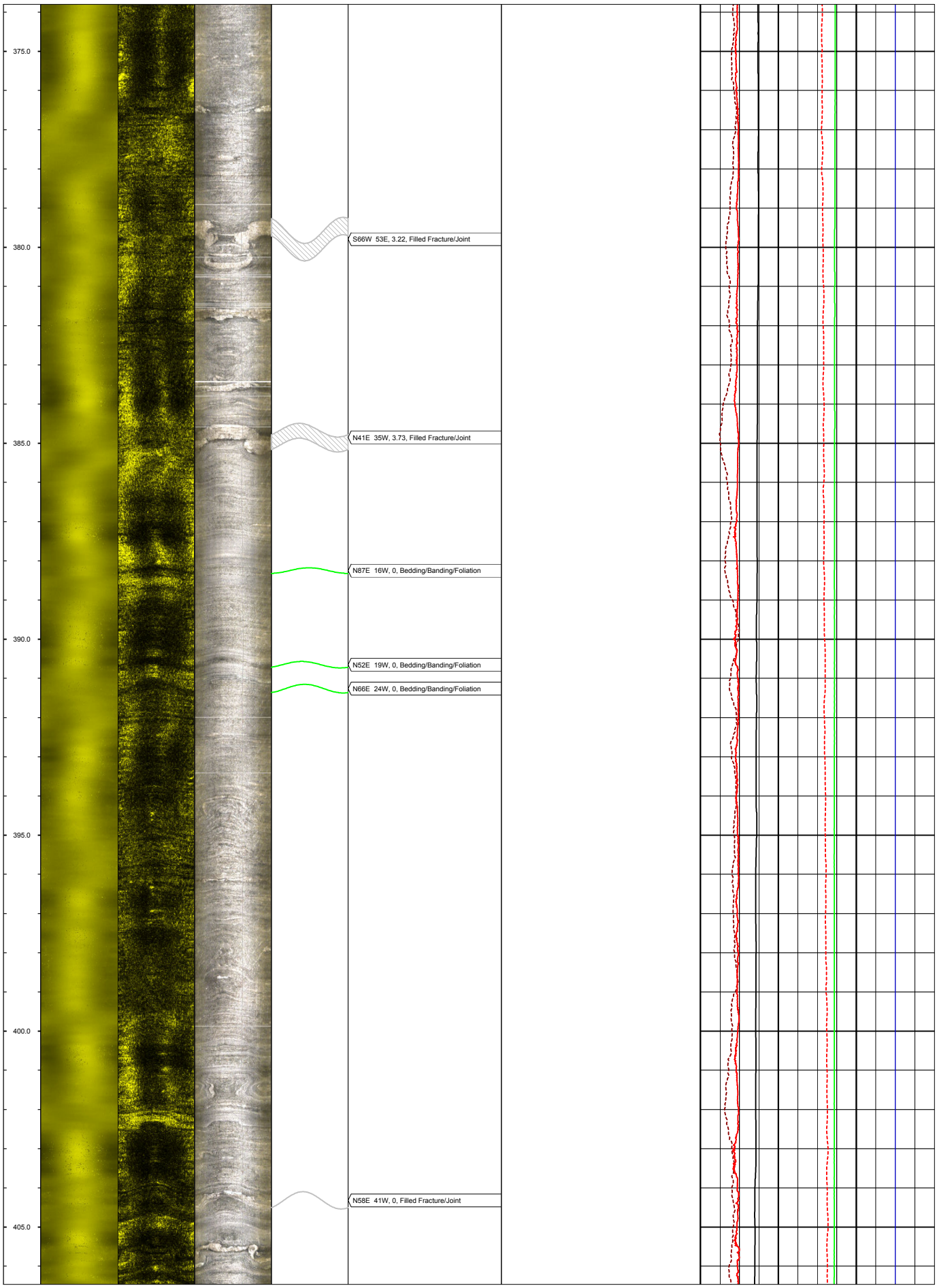
Logging Date: *09.27.2013*
Logging Datum: *Ground Surface*
BOC: *N/A* **DTW:** *44.5'* **TD:** *423'*

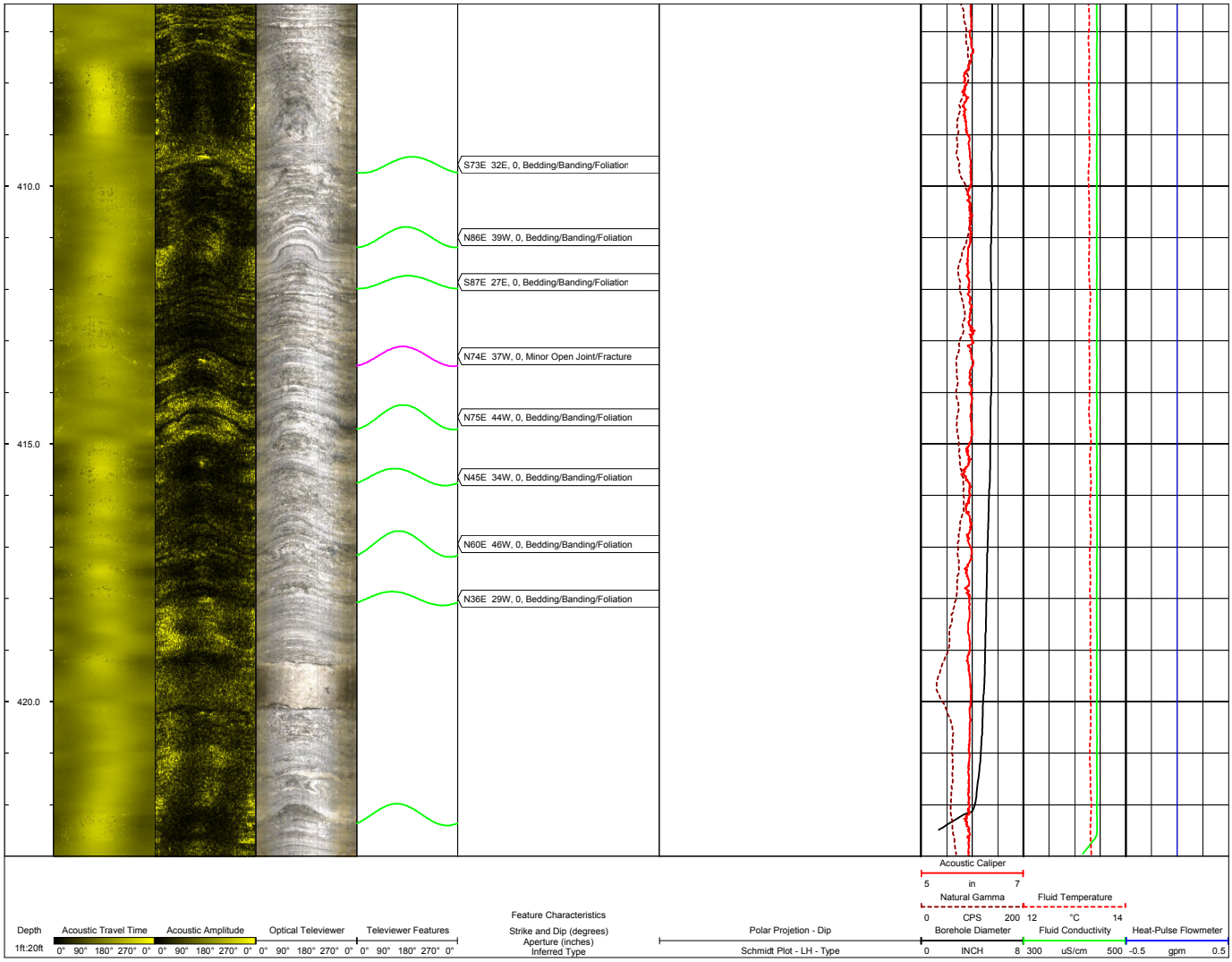
Site Name:
Location: *Phoenix, MD*
Client: *Kleinfelder*
Project No.: *081325*
Revision Date: *10.15.2013*




310.0
315.0
320.0
325.0
330.0
335.0
340.0
N82E 22W, 0, Filled Fracture/Joint
S55E 23E, 0, Filled Fracture/Joint
N59E 18W, 4.86, Filled Fracture/Joint
S79E 32E, 0, Filled Fracture/Joint
S84E 7E, 0, Bedding/Banding/Foliation
S52W 47E, 0, Filled Fracture/Joint
N49E 62W, 0, Filled Fracture/Joint
S74E 30E, 0, Minor Open Joint/Fracture
S87E 24E, 0, Bedding/Banding/Foliation
S89E 31E, 0, Bedding/Banding/Foliation
N79E 38W, 0, Bedding/Banding/Foliation
N64E 30W, 0, Bedding/Banding/Foliation
N52E 27W, 0, Bedding/Banding/Foliation
N59E 36W, 0, Bedding/Banding/Foliation


345.0
350.0
355.0
360.0
365.0
370.0
N55E 28W, 0, Bedding/Banding/Foliation
N45E 14W, 0, Bedding/Banding/Foliation
N73E 21W, 0, Bedding/Banding/Foliation
S76E 25E, 0, Bedding/Banding/Foliation
N75E 13W, 0, Bedding/Banding/Foliation
N73E 20W, 0, Filled Fracture/Joint
Schmidt Plot - LH - Type
Depth: 280.38 [ft] to 423.00 [ft]
0°
15
30
45
60
75
90°
180°
270°
Counts Dip[deg] Azi[deg]
Mean 46 29.36 339.59
30 28.13 340.24
4 36.60 342.38
12 31.82 335.21


375.0
380.0
385.0
390.0
395.0
400.0
405.0
S66W 53E, 3.22, Filled Fracture/Joint
N41E 35W, 3.73, Filled Fracture/Joint
N87E 16W, 0, Bedding/Banding/Foliation
N52E 19W, 0, Bedding/Banding/Foliation
N66E 24W, 0, Bedding/Banding/Foliation
N58E 41W, 0, Filled Fracture/Joint


410.0
415.0
420.0
S73E 32E, 0, Bedding/Banding/Foliation
N86E 39W, 0, Bedding/Banding/Foliation
S87E 27E, 0, Bedding/Banding/Foliation
N74E 37W, 0, Minor Open Joint/Fracture
N75E 44W, 0, Bedding/Banding/Foliation
N45E 34W, 0, Bedding/Banding/Foliation
N60E 46W, 0, Bedding/Banding/Foliation
N36E 29W, 0, Bedding/Banding/Foliation
Acoustic Caliper
5 in 7
Natural Gamma
Fluid Temperature
0 CPS 200 12 °C 14
Depth
1ft:20ft
Acoustic Travel Time
Acoustic Amplitude
Optical Televiewer
Televiewer Features
0° 90° 180° 270° 0° 0° 90° 180° 270° 0° 0° 90° 180° 270° 0° 0° 90° 180° 270° 0°
Feature Characteristics
Strike and Dip (degrees)
Aperture (inches)
Inferred Type
Polar Projetion - Dip
Schmidt Plot - LH - Type
Borehole Diameter
Fluid Conductivity
Heat-Pulse Flowmeter
0 INCH 8 300 uS/cm 500 -0.5 gpm 0.5

Appendix A

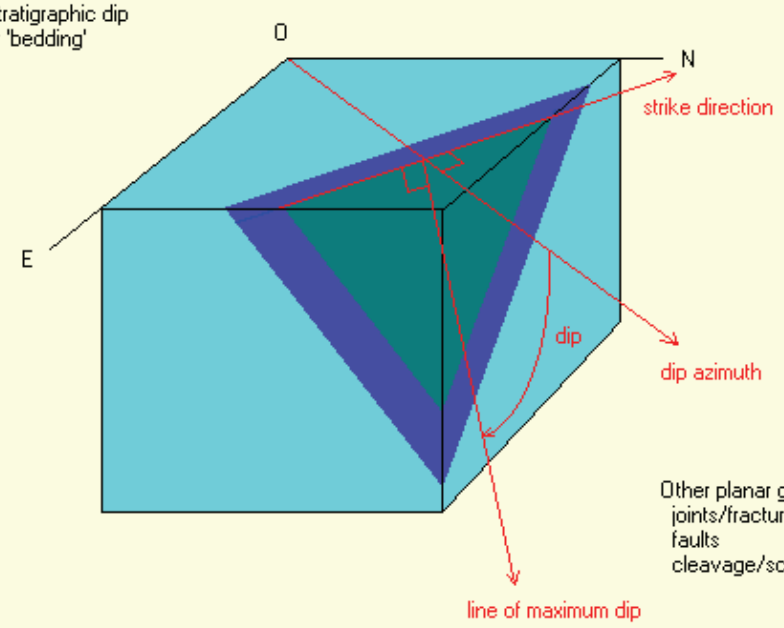
Planar Feature Orientation Parameters

Planar Feature Orientation Parameters

Dip = angle of inclination of the plane, downwards from the horizontal
Dip azimuth = azimuth of the line of maximum dip in the plane, clockwise from North
Strike direction = azimuth of a horizontal line in the plane (= dip azimuth – 90°)

e.g. dip and dip azimuth = 60° N041° or strike and dip = N311° 60°

e.g. Stratigraphic dip
or 'bedding'



Other planar geologic features include
joints/fractures/veins
faults
cleavage/schistosity

Appendix B

Planar Feature Characterization

Appendix B

Planar Feature Characterization

▲ Broken Zone/Undifferentiated

● Major Open Joint/Fracture

● Minor Open Joint/Fracture

● Partially Open Joint/Fracture

● Filled Fracture/Joint

● Bedding/Banding/Foliation

Appendix C

Planar Feature Characterization Tables

Mid-Atlantic Geosciences
Planar Feature Characterizations

Well ID:	**MW-188D**	**Client:**	**Kleinfelder**
Site Name:		**Project No.:**	**081325**
Location:	**Phoenix, MD**	**Revision Date:**	**10.12.2013**

Depth	Aperture (in.)	Dip Azimuth (deg.)	Strike (deg.)	Dip (deg.)	Feature Type
128.7	0.0	20	S70E	13E	Minor Open Joint/Fracture
129.8	0.0	327	N57E	42W	Filled Fracture/Joint
130.6	0.0	2	S88E	42E	Minor Open Joint/Fracture
134.8	0.0	337	N67E	28W	Filled Fracture/Joint
135.7	0.0	314	N44E	33W	Minor Open Joint/Fracture
137.1	5.5	345	N75E	29W	Major Open Joint/Fracture
137.7	0.0	353	N83E	27W	Partially Open Joint/Fracture
138.8	0.0	328	N58E	34W	Filled Fracture/Joint
140.0	1.0	356	N86E	30W	Minor Open Joint/Fracture
140.2	0.0	351	N81E	30W	Bedding/Banding/Foliation
141.3	2.9	333	N63E	17W	Major Open Joint/Fracture
141.8	0.0	342	N72E	27W	Bedding/Banding/Foliation
148.3	2.3	351	N81E	33W	Filled Fracture/Joint
150.8	0.0	330	N60E	43W	Filled Fracture/Joint
154.8	0.0	330	N60E	45W	Filled Fracture/Joint
157.3	0.0	339	N69E	30W	Filled Fracture/Joint
160.5	0.0	343	N73E	29W	Filled Fracture/Joint
170.9	0.0	94	S4W	84E	Filled Fracture/Joint
174.5	0.0	1	S89E	30E	Bedding/Banding/Foliation
183.7	0.0	137	S47W	50E	Filled Fracture/Joint
188.5	0.0	342	N72E	32W	Filled Fracture/Joint
189.4	0.0	334	N64E	26W	Filled Fracture/Joint
192.6	0.0	334	N64E	30W	Filled Fracture/Joint
194.3	0.0	350	N80E	43W	Filled Fracture/Joint
196.2	0.0	328	N58E	33W	Filled Fracture/Joint
200.7	2.0	339	N69E	59W	Partially Open Joint/Fracture
201.3	1.3	344	N74E	45W	Filled Fracture/Joint
202.4	0.0	332	N62E	33W	Filled Fracture/Joint

202.7	0.0	341	N71E	33W	Bedding/Banding/Foliation
203.9	0.0	342	N72E	37W	Filled Fracture/Joint
208.0	2.7	323	N53E	43W	Filled Fracture/Joint
209.0	0.0	343	N73E	40W	Minor Open Joint/Fracture
210.5	0.0	325	N55E	44W	Bedding/Banding/Foliation
211.7	0.0	331	N61E	42W	Bedding/Banding/Foliation
212.3	1.3	354	N84E	54W	Minor Open Joint/Fracture
215.1	0.0	328	N58E	47W	Bedding/Banding/Foliation
216.5	0.0	327	N57E	47W	Bedding/Banding/Foliation
219.2	0.0	331	N61E	37W	Bedding/Banding/Foliation
220.1	0.0	329	N59E	40W	Minor Open Joint/Fracture
221.1	0.0	348	N78E	38W	Minor Open Joint/Fracture
222.4	0.0	326	N56E	38W	Filled Fracture/Joint
226.8	1.6	342	N72E	50W	Minor Open Joint/Fracture
227.3	0.0	346	N76E	38W	Partially Open Joint/Fracture
228.6	0.0	334	N64E	67W	Minor Open Joint/Fracture
230.0	0.0	349	N79E	38W	Filled Fracture/Joint
231.9	22.4	351	N81E	46W	Filled Fracture/Joint
235.3	0.0	334	N64E	32W	Bedding/Banding/Foliation
236.5	0.0	334	N64E	43W	Bedding/Banding/Foliation
237.7	0.0	329	N59E	50W	Bedding/Banding/Foliation
238.8	5.0	348	N78E	46W	Major Open Joint/Fracture
244.5	0.0	319	N49E	36W	Filled Fracture/Joint
245.6	0.0	328	N58E	46W	Filled Fracture/Joint
250.8	0.0	324	N54E	35W	Filled Fracture/Joint
252.6	0.0	332	N62E	38W	Bedding/Banding/Foliation
253.7	0.0	323	N53E	41W	Bedding/Banding/Foliation
254.5	4.9	32	S58E	18E	Filled Fracture/Joint
255.6	1.9	346	N76E	27W	Filled Fracture/Joint
257.2	0.0	337	N67E	37W	Filled Fracture/Joint
263.0	0.0	312	N42E	44W	Bedding/Banding/Foliation
268.3	20.8	337	N67E	37W	Filled Fracture/Joint
273.9	0.0	301	N31E	40W	Filled Fracture/Joint
274.6	0.0	335	N65E	32W	Filled Fracture/Joint
274.7	0.0	326	N56E	36W	Filled Fracture/Joint
278.5	3.2	290	N20E	26W	Filled Fracture/Joint
279.2	0.0	328	N58E	33W	Bedding/Banding/Foliation

286.9	0.0	315	N45E	44W	Bedding/Banding/Foliation
294.2	0.0	328	N58E	47W	Bedding/Banding/Foliation
306.1	0.0	327	N57E	22W	Bedding/Banding/Foliation
306.4	0.0	320	N50E	29W	Bedding/Banding/Foliation
306.6	0.0	315	N45E	22W	Bedding/Banding/Foliation
312.9	0.0	328	N58E	34W	Filled Fracture/Joint
316.6	0.0	301	N31E	34W	Bedding/Banding/Foliation
317.6	0.0	65	S25E	11E	Filled Fracture/Joint
320.9	0.0	297	N27E	33W	Bedding/Banding/Foliation
326.4	0.0	314	N44E	38W	Filled Fracture/Joint
330.1	7.8	348	N78E	31W	Filled Fracture/Joint
339.7	10.5	112	S22W	27E	Filled Fracture/Joint
343.1	0.0	351	N81E	30W	Bedding/Banding/Foliation
343.7	0.0	354	N84E	35W	Bedding/Banding/Foliation
350.4	0.2	339	N69E	45W	Filled Fracture/Joint
357.0	0.0	330	N60E	33W	Bedding/Banding/Foliation
370.7	9.1	153	S63W	11E	Filled Fracture/Joint
375.9	5.3	309	N39E	20W	Filled Fracture/Joint
381.4	0.0	337	N67E	25W	Bedding/Banding/Foliation
385.7	0.0	329	N59E	33W	Filled Fracture/Joint
386.7	0.0	335	N65E	25W	Minor Open Joint/Fracture
389.4	3.4	288	N18E	32W	Filled Fracture/Joint
390.7	4.6	338	N68E	37W	Filled Fracture/Joint
391.5	0.0	321	N51E	14W	Bedding/Banding/Foliation
391.9	0.0	345	N75E	35W	Bedding/Banding/Foliation
392.4	0.0	312	N42E	20W	Bedding/Banding/Foliation
393.0	0.0	307	N37E	27W	Bedding/Banding/Foliation
394.0	0.0	332	N62E	40W	Bedding/Banding/Foliation
394.3	0.0	317	N47E	32W	Bedding/Banding/Foliation
394.9	0.0	311	N41E	27W	Bedding/Banding/Foliation
395.5	0.0	320	N50E	41W	Bedding/Banding/Foliation
402.4	3.1	112	S22W	46E	Filled Fracture/Joint
418.1	4.8	347	N77E	20W	Filled Fracture/Joint

Mid-Atlantic Geosciences
Planar Feature Characterizations

Well ID:	**MW-138D**	**Client:**	**Kleinfelder**
Site Name:		**Project No.:**	**081325**
Location:	**Phoenix, MD**	**Revision Date:**	**10.04.2013**

Depth	Aperture (in.)	Dip Azimuth (deg.)	Strike (deg.)	Dip (deg.)	Feature Type
64.1	0.0	206	N64W	17W	Bedding/Banding/Foliation
66.1	0.0	329	N59E	26W	Bedding/Banding/Foliation
66.7	0.0	310	N40E	32W	Bedding/Banding/Foliation
69.2	0.0	329	N59E	31W	Bedding/Banding/Foliation
72.2	0.0	317	N47E	31W	Bedding/Banding/Foliation
74.6	6.8	310	N40E	22W	Filled Fracture/Joint
81.1	1.1	347	N77E	27W	Minor Open Joint/Fracture
83.2	0.0	298	N28E	28W	Bedding/Banding/Foliation
84.4	0.0	336	N66E	32W	Filled Fracture/Joint
86.3	0.0	323	N53E	33W	Bedding/Banding/Foliation
88.1	0.0	309	N39E	31W	Filled Fracture/Joint
98.3	0.0	349	N79E	44W	Minor Open Joint/Fracture
99.6	0.0	338	N68E	39W	Bedding/Banding/Foliation
100.1	0.0	321	N51E	36W	Bedding/Banding/Foliation
100.7	0.0	329	N59E	50W	Bedding/Banding/Foliation
108.2	0.0	314	N44E	21W	Bedding/Banding/Foliation
108.9	0.0	312	N42E	24W	Bedding/Banding/Foliation
110.9	0.0	303	N33E	37W	Bedding/Banding/Foliation
112.9	0.0	319	N49E	31W	Bedding/Banding/Foliation
115.4	0.0	331	N61E	30W	Bedding/Banding/Foliation
117.3	0.0	358	N88E	30W	Bedding/Banding/Foliation
117.7	0.0	337	N67E	20W	Bedding/Banding/Foliation
118.3	0.0	318	N48E	24W	Filled Fracture/Joint
119.0	0.0	328	N58E	29W	Bedding/Banding/Foliation
119.8	0.0	341	N71E	39W	Bedding/Banding/Foliation
122.5	0.0	318	N48E	49W	Bedding/Banding/Foliation
124.4	1.8	341	N71E	36W	Minor Open Joint/Fracture
129.9	0.0	326	N56E	40W	Filled Fracture/Joint

142.1	0.0	312	N42E	38W	Bedding/Banding/Foliation
155.2	0.0	340	N70E	34W	Partially Open Joint/Fracture
156.3	0.0	320	N50E	50W	Partially Open Joint/Fracture
158.6	0.0	336	N66E	36W	Filled Fracture/Joint
159.2	0.0	327	N57E	36W	Bedding/Banding/Foliation
160.0	0.0	325	N55E	36W	Bedding/Banding/Foliation
168.2	0.0	319	N49E	34W	Bedding/Banding/Foliation
179.9	0.0	324	N54E	40W	Filled Fracture/Joint
183.6	0.0	325	N55E	39W	Bedding/Banding/Foliation
184.3	0.0	333	N63E	36W	Bedding/Banding/Foliation
194.9	0.0	293	N23E	63W	Minor Open Joint/Fracture
198.1	0.0	335	N65E	35W	Bedding/Banding/Foliation
198.7	0.0	314	N44E	42W	Bedding/Banding/Foliation
199.7	0.0	304	N34E	72W	Minor Open Joint/Fracture
199.9	0.0	339	N69E	40W	Minor Open Joint/Fracture
205.7	0.0	148	S58W	48E	Filled Fracture/Joint
211.1	0.0	339	N69E	29W	Bedding/Banding/Foliation
211.6	0.0	341	N71E	34W	Bedding/Banding/Foliation
221.1	0.0	327	N57E	59W	Minor Open Joint/Fracture
224.8	0.0	325	N55E	26W	Bedding/Banding/Foliation
228.4	0.0	320	N50E	51W	Bedding/Banding/Foliation
233.9	0.0	336	N66E	32W	Bedding/Banding/Foliation
240.4	0.0	322	N52E	40W	Filled Fracture/Joint
241.4	0.0	345	N75E	33W	Filled Fracture/Joint
248.9	0.0	319	N49E	53W	Bedding/Banding/Foliation
253.3	0.0	324	N54E	40W	Bedding/Banding/Foliation
254.5	0.0	318	N48E	46W	Bedding/Banding/Foliation
256.8	0.0	336	N66E	57W	Bedding/Banding/Foliation
262.2	0.0	356	N86E	41W	Filled Fracture/Joint
282.4	0.0	336	N66E	54W	Bedding/Banding/Foliation
292.2	3.2	348	N78E	35W	Bedding/Banding/Foliation
321.7	0.0	102	S12W	11E	Bedding/Banding/Foliation
325.6	0.0	343	N73E	27W	Bedding/Banding/Foliation
336.8	0.0	337	N67E	35W	Bedding/Banding/Foliation
350.8	0.0	356	N86E	37W	Bedding/Banding/Foliation
365.0	0.0	341	N71E	39W	Bedding/Banding/Foliation
368.1	0.0	328	N58E	56W	Bedding/Banding/Foliation

383.0	0.0	350	N80E	73W	Partially Open Joint/Fracture
387.8	0.0	339	N69E	51W	Bedding/Banding/Foliation
388.2	0.0	325	N55E	61W	Bedding/Banding/Foliation
400.9	0.0	355	N85E	26W	Bedding/Banding/Foliation

Mid-Atlantic Geosciences
Planar Feature Characterizations

Well ID:	**MW-27B**	**Client:**	**Kleinfelder**
Site Name:		**Project No.:**	**081325**
Location:	**Phoenix, MD**	**Revision Date:**	**10.15.2013**

Depth	Aperture (in.)	Dip Azimuth (deg.)	Strike (deg.)	Dip (deg.)	Feature Type
63.1	2.7	26	S64E	16E	Minor Open Joint/Fracture
64.3	0.0	335	N65E	46W	Bedding/Banding/Foliation
66.3	0.0	339	N69E	33W	Bedding/Banding/Foliation
68.0	5.3	312	N42E	42W	Minor Open Joint/Fracture
68.8	0.0	339	N69E	40W	Filled Fracture/Joint
71.0	0.0	327	N57E	49W	Filled Fracture/Joint
72.5	0.0	336	N66E	51W	Filled Fracture/Joint
76.0	0.0	338	N68E	46W	Bedding/Banding/Foliation
77.0	0.0	321	N51E	43W	Filled Fracture/Joint
77.9	0.0	313	N43E	59W	Bedding/Banding/Foliation
87.3	0.0	318	N48E	39W	Filled Fracture/Joint
87.7	0.0	315	N45E	41W	Filled Fracture/Joint
88.7	10.7	326	N56E	37W	Filled Fracture/Joint
89.7	0.0	330	N60E	35W	Filled Fracture/Joint
92.8	0.0	325	N55E	52W	Filled Fracture/Joint
96.9	0.0	315	N45E	57W	Filled Fracture/Joint
97.7	0.0	330	N60E	35W	Bedding/Banding/Foliation
98.4	0.0	307	N37E	45W	Filled Fracture/Joint
102.5	0.0	358	N88E	39W	Bedding/Banding/Foliation
104.1	0.0	319	N49E	44W	Minor Open Joint/Fracture
105.7	0.0	329	N59E	48W	Bedding/Banding/Foliation
107.0	0.0	332	N62E	44W	Bedding/Banding/Foliation
107.7	0.0	331	N61E	49W	Filled Fracture/Joint
108.8	5.0	312	N42E	26W	Minor Open Joint/Fracture
109.6	3.1	338	N68E	47W	Minor Open Joint/Fracture
110.6	0.0	328	N58E	41W	Bedding/Banding/Foliation
113.4	0.0	13	S77E	23E	Bedding/Banding/Foliation
116.3	0.0	358	N88E	40W	Bedding/Banding/Foliation

117.3	0.0	333	N63E	48W	Bedding/Banding/Foliation
119.2	2.4	345	N75E	39W	Filled Fracture/Joint
120.2	0.0	315	N45E	40W	Bedding/Banding/Foliation
121.3	0.0	302	N32E	42W	Bedding/Banding/Foliation
122.5	0.0	309	N39E	53W	Filled Fracture/Joint
124.2	0.0	328	N58E	38W	Filled Fracture/Joint

Mid-Atlantic Geosciences
Planar Feature Characterizations

Well ID:	**MW-171C**	**Client:**	**Kleinfelder**
Site Name:		**Project No.:**	**081325**
Location:	**Phoenix, MD**	**Revision Date:**	**10.12.2013**

Depth	Aperture (in.)	Dip Azimuth (deg.)	Strike (deg.)	Dip (deg.)	Feature Type
240.7	0.0	5	S85E	28E	Filled Fracture/Joint
250.2	0.0	353	N83E	34W	Filled Fracture/Joint
259.7	0.0	348	N78E	24W	Bedding/Banding/Foliation
261.6	16.4	19	S71E	32E	Filled Fracture/Joint
263.3	3.9	8	S82E	36E	Filled Fracture/Joint
266.5	0.0	344	N74E	35W	Bedding/Banding/Foliation
269.2	0.0	330	N60E	40W	Bedding/Banding/Foliation
271.1	2.4	358	N88E	40W	Filled Fracture/Joint
272.0	2.7	358	N88E	36W	Filled Fracture/Joint
273.0	0.0	354	N84E	33W	Bedding/Banding/Foliation
274.1	0.0	350	N80E	33W	Bedding/Banding/Foliation
276.0	0.0	59	S31E	24E	Filled Fracture/Joint
279.3	0.0	4	S86E	26E	Filled Fracture/Joint
279.9	0.0	353	N83E	31W	Bedding/Banding/Foliation
281.8	0.0	350	N80E	42W	Bedding/Banding/Foliation
283.8	0.0	330	N60E	36W	Bedding/Banding/Foliation
284.2	0.0	331	N61E	36W	Bedding/Banding/Foliation
285.2	0.0	348	N78E	29W	Bedding/Banding/Foliation
286.7	0.0	22	S68E	26E	Bedding/Banding/Foliation
287.8	0.0	13	S77E	28E	Partially Open Joint/Fracture
289.4	0.0	336	N66E	41W	Bedding/Banding/Foliation
292.6	0.0	334	N64E	48W	Filled Fracture/Joint
294.8	0.0	322	N52E	56W	Bedding/Banding/Foliation
295.2	0.0	333	N63E	43W	Bedding/Banding/Foliation
295.8	2.0	321	N51E	37W	Filled Fracture/Joint
296.2	0.0	332	N62E	31W	Bedding/Banding/Foliation
297.2	0.0	337	N67E	34W	Bedding/Banding/Foliation
297.8	0.0	342	N72E	40W	Bedding/Banding/Foliation

301.4	4.8	7	S83E	30E	Minor Open Joint/Fracture
304.7	0.0	317	N47E	35W	Bedding/Banding/Foliation
306.3	0.0	331	N61E	47W	Bedding/Banding/Foliation
307.4	0.0	23	S67E	30E	Bedding/Banding/Foliation
313.4	0.0	3	S87E	47E	Bedding/Banding/Foliation
316.2	0.0	344	N74E	46W	Bedding/Banding/Foliation
317.5	0.0	331	N61E	41W	Bedding/Banding/Foliation
320.5	0.0	334	N64E	46W	Bedding/Banding/Foliation
323.4	0.0	345	N75E	47W	Bedding/Banding/Foliation
328.1	0.0	338	N68E	41W	Bedding/Banding/Foliation
328.8	0.0	335	N65E	25W	Bedding/Banding/Foliation
329.5	2.7	349	N79E	33W	Partially Open Joint/Fracture
333.8	0.0	324	N54E	45W	Bedding/Banding/Foliation
334.5	0.0	331	N61E	36W	Bedding/Banding/Foliation
337.6	0.0	75	S15E	13E	Filled Fracture/Joint
348.5	0.0	344	N74E	50W	Bedding/Banding/Foliation
353.4	0.0	358	N88E	40W	Filled Fracture/Joint
355.0	0.0	342	N72E	35W	Bedding/Banding/Foliation
359.4	0.0	352	N82E	36W	Bedding/Banding/Foliation
365.9	3.1	314	N44E	64W	Filled Fracture/Joint
370.2	0.0	15	S75E	43E	Bedding/Banding/Foliation
373.4	0.0	12	S78E	41E	Filled Fracture/Joint
377.2	0.0	353	N83E	50W	Filled Fracture/Joint
379.8	0.0	353	N83E	49W	Bedding/Banding/Foliation
380.9	0.0	355	N85E	48W	Bedding/Banding/Foliation
384.3	0.0	356	N86E	23W	Bedding/Banding/Foliation
385.4	0.0	26	S64E	46E	Bedding/Banding/Foliation
387.9	0.0	6	S84E	37E	Bedding/Banding/Foliation
388.3	0.0	347	N77E	52W	Bedding/Banding/Foliation
395.8	0.0	313	N43E	36W	Filled Fracture/Joint
400.2	0.0	1	S89E	42E	Filled Fracture/Joint
403.2	0.0	28	S62E	16E	Bedding/Banding/Foliation

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Planar Feature Characterizations

Well ID:	**MW-135C**	**Client:**	**Kleinfelder**
Site Name:		**Project No.:**	**081325**
Location:	**Phoenix, MD**	**Revision Date:**	**10.15.2013**

Depth	Aperture (in.)	Dip Azimuth (deg.)	Strike (deg.)	Dip (deg.)	Feature Type
283.4	0.0	352	N82E	63W	Filled Fracture/Joint
285.0	0.0	346	N76E	58W	Filled Fracture/Joint
287.4	4.1	2	S88E	43E	Filled Fracture/Joint
289.8	0.0	345	N75E	72W	Filled Fracture/Joint
291.5	0.0	348	N78E	75W	Filled Fracture/Joint
292.3	0.0	340	N70E	69W	Filled Fracture/Joint
292.7	0.0	54	S36E	7E	Minor Open Joint/Fracture
293.7	3.9	346	N76E	65W	Filled Fracture/Joint
294.7	3.5	78	S12E	16E	Filled Fracture/Joint
296.7	0.0	357	N87E	46W	Filled Fracture/Joint
306.2	0.0	352	N82E	73W	Bedding/Banding/Foliation
307.5	0.0	348	N78E	72W	Filled Fracture/Joint
311.6	7.0	337	N67E	51W	Filled Fracture/Joint
314.3	0.0	339	N69E	71W	Bedding/Banding/Foliation
317.6	0.0	332	N62E	52W	Bedding/Banding/Foliation
318.2	0.0	349	N79E	63W	Bedding/Banding/Foliation
318.9	0.0	330	N60E	44W	Filled Fracture/Joint
319.4	0.0	341	N71E	63W	Filled Fracture/Joint
320.3	0.0	5	S85E	39E	Filled Fracture/Joint
320.8	0.0	356	N86E	53W	Filled Fracture/Joint
325.0	0.0	7	S83E	78E	Filled Fracture/Joint
327.8	0.0	344	N74E	39W	Bedding/Banding/Foliation
329.8	3.6	338	N68E	65W	Filled Fracture/Joint
331.7	13.9	355	N85E	39W	Filled Fracture/Joint
336.7	0.0	344	N74E	47W	Filled Fracture/Joint
340.1	6.7	350	N80E	55W	Filled Fracture/Joint
341.9	0.0	348	N78E	49W	Filled Fracture/Joint
342.5	4.2	304	N34E	63W	Filled Fracture/Joint

344.1	0.0	4	S86E	49E	Bedding/Banding/Foliation
344.7	0.0	7	S83E	48E	Filled Fracture/Joint
349.6	4.6	352	N82E	67W	Filled Fracture/Joint
357.0	0.0	355	N85E	74W	Bedding/Banding/Foliation
358.1	0.0	347	N77E	69W	Bedding/Banding/Foliation
361.3	0.0	5	S85E	72E	Bedding/Banding/Foliation
362.2	0.0	357	N87E	57W	Bedding/Banding/Foliation
370.8	0.0	337	N67E	60W	Bedding/Banding/Foliation
371.3	0.0	352	N82E	59W	Bedding/Banding/Foliation
374.4	0.0	288	N18E	65W	Bedding/Banding/Foliation
377.0	0.0	346	N76E	61W	Bedding/Banding/Foliation
377.9	0.0	358	N88E	68W	Partially Open Joint/Fracture
379.5	7.5	351	N81E	57W	Filled Fracture/Joint
382.2	0.0	1	S89E	72E	Bedding/Banding/Foliation
384.0	0.0	4	S86E	85E	Bedding/Banding/Foliation
386.0	0.0	344	N74E	77W	Filled Fracture/Joint
388.4	0.0	352	N82E	53W	Bedding/Banding/Foliation

Mid-Atlantic Geosciences
Planar Feature Characterizations

Well ID:	**MW-36C**	**Client:**	**Kleinfelder**
Site Name:		**Project No.:**	**081325**
Location:	**Phoenix, MD**	**Revision Date:**	**10.15.2013**

Depth	Aperture (in.)	Dip Azimuth (deg.)	Strike (deg.)	Dip (deg.)	Feature Type
279.6	0.0	334	N64E	30W	Bedding/Banding/Foliation
281.7	0.0	326	N56E	29W	Bedding/Banding/Foliation
283.0	0.0	341	N71E	22W	Bedding/Banding/Foliation
283.7	0.0	359	N89E	39W	Minor Open Joint/Fracture
284.0	0.0	349	N79E	39W	Minor Open Joint/Fracture
284.8	0.0	344	N74E	37W	Bedding/Banding/Foliation
286.8	0.0	290	N20E	13W	Minor Open Joint/Fracture
287.4	0.0	317	N47E	71W	Minor Open Joint/Fracture
288.6	0.0	321	N51E	34W	Bedding/Banding/Foliation
289.5	0.0	325	N55E	40W	Bedding/Banding/Foliation
290.6	0.0	333	N63E	35W	Bedding/Banding/Foliation
291.3	0.0	316	N46E	47W	Bedding/Banding/Foliation
297.8	0.0	81	S9E	14E	Bedding/Banding/Foliation
301.2	0.0	335	N65E	30W	Bedding/Banding/Foliation
303.5	0.0	334	N64E	39W	Bedding/Banding/Foliation
304.1	0.0	124	S34W	72E	Filled Fracture/Joint
306.2	2.5	323	N53E	48W	Filled Fracture/Joint
306.5	0.0	38	S52E	31E	Bedding/Banding/Foliation
307.7	0.0	312	N42E	72W	Bedding/Banding/Foliation
311.0	0.0	331	N61E	7W	Bedding/Banding/Foliation
313.9	0.0	305	N35E	38W	Filled Fracture/Joint
315.5	0.0	344	N74E	32W	Filled Fracture/Joint
315.9	0.0	322	N52E	17W	Bedding/Banding/Foliation
316.1	0.0	1	S89E	27E	Bedding/Banding/Foliation
322.2	0.0	311	N41E	29W	Bedding/Banding/Foliation
323.3	7.9	348	N78E	26W	Bedding/Banding/Foliation
327.4	0.0	334	N64E	40W	Filled Fracture/Joint
328.9	0.0	323	N53E	29W	Bedding/Banding/Foliation

330.8	16.8	343	N73E	45W	Filled Fracture/Joint
333.3	0.0	2	S88E	32E	Bedding/Banding/Foliation
338.2	0.0	79	S11E	5E	Bedding/Banding/Foliation
342.5	0.0	106	S16W	12E	Bedding/Banding/Foliation
343.7	0.0	258	N12W	18W	Bedding/Banding/Foliation
344.0	10.7	325	N55E	33W	Filled Fracture/Joint
344.5	0.0	142	S52W	18E	Bedding/Banding/Foliation
344.7	0.0	336	N66E	32W	Bedding/Banding/Foliation
349.4	0.0	325	N55E	24W	Bedding/Banding/Foliation
350.3	0.0	360	N90E	34W	Bedding/Banding/Foliation
351.7	0.0	354	N84E	11W	Filled Fracture/Joint
354.7	0.0	358	N88E	27W	Bedding/Banding/Foliation
355.2	0.0	350	N80E	22W	Bedding/Banding/Foliation
358.6	0.0	341	N71E	31W	Bedding/Banding/Foliation
363.0	0.0	313	N43E	37W	Bedding/Banding/Foliation
363.5	0.0	10	S80E	35E	Bedding/Banding/Foliation
364.0	0.0	358	N88E	19W	Bedding/Banding/Foliation
365.6	0.0	294	N24E	48W	Bedding/Banding/Foliation
366.0	0.0	315	N45E	41W	Filled Fracture/Joint
370.0	0.0	327	N57E	35W	Bedding/Banding/Foliation
370.9	0.0	313	N43E	28W	Bedding/Banding/Foliation
372.0	0.0	335	N65E	34W	Bedding/Banding/Foliation
375.3	0.0	332	N62E	32W	Bedding/Banding/Foliation
379.6	0.0	313	N43E	30W	Bedding/Banding/Foliation
381.3	6.4	351	N81E	18W	Minor Open Joint/Fracture
384.9	0.0	87	S3E	20E	Bedding/Banding/Foliation
385.8	0.0	159	S69W	39E	Bedding/Banding/Foliation
387.0	0.0	7	S83E	25E	Filled Fracture/Joint
391.3	0.0	303	N33E	24W	Filled Fracture/Joint
398.1	0.0	346	N76E	32W	Filled Fracture/Joint
398.6	0.0	329	N59E	33W	Bedding/Banding/Foliation
401.5	0.0	330	N60E	31W	Bedding/Banding/Foliation
413.9	0.0	350	N80E	42W	Bedding/Banding/Foliation

Mid-Atlantic Geosciences
Planar Feature Characterizations

Well ID:	**PW-3501**	**Client:**	**Kleinfelder**
Site Name:		**Project No.:**	**081325**
Location:	**Phoenix, MD**	**Revision Date:**	**10.15.2013**

Depth	Aperture (in.)	Dip Azimuth (deg.)	Strike (deg.)	Dip (deg.)	Feature Type
291.4	0.0	6	S84E	25E	Bedding/Banding/Foliation
292.4	0.0	326	N56E	29W	Bedding/Banding/Foliation
294.1	0.0	293	N23E	43W	Bedding/Banding/Foliation
295.1	0.0	329	N59E	22W	Bedding/Banding/Foliation
296.3	0.0	318	N48E	26W	Minor Open Joint/Fracture
296.3	0.0	330	N60E	62W	Filled Fracture/Joint
297.2	0.0	126	S36W	81E	Filled Fracture/Joint
299.9	0.0	334	N64E	60W	Minor Open Joint/Fracture
301.3	0.0	352	N82E	40W	Bedding/Banding/Foliation
306.7	0.0	334	N64E	41W	Bedding/Banding/Foliation
307.6	0.0	11	S79E	56E	Bedding/Banding/Foliation
310.7	0.0	352	N82E	22W	Filled Fracture/Joint
316.6	0.0	35	S55E	23E	Filled Fracture/Joint
321.2	4.9	329	N59E	18W	Filled Fracture/Joint
324.9	0.0	11	S79E	32E	Filled Fracture/Joint
325.2	0.0	6	S84E	7E	Bedding/Banding/Foliation
328.6	0.0	142	S52W	47E	Filled Fracture/Joint
328.8	0.0	319	N49E	62W	Filled Fracture/Joint
331.0	0.0	16	S74E	30E	Minor Open Joint/Fracture
332.7	0.0	3	S87E	24E	Bedding/Banding/Foliation
333.9	0.0	1	S89E	31E	Bedding/Banding/Foliation
334.6	0.0	349	N79E	38W	Bedding/Banding/Foliation
335.8	0.0	334	N64E	30W	Bedding/Banding/Foliation
338.1	0.0	322	N52E	27W	Bedding/Banding/Foliation
339.1	0.0	329	N59E	36W	Bedding/Banding/Foliation
344.7	0.0	325	N55E	28W	Bedding/Banding/Foliation
348.8	0.0	315	N45E	14W	Bedding/Banding/Foliation
353.6	0.0	343	N73E	21W	Bedding/Banding/Foliation

358.7	0.0	14	S76E	25E	Bedding/Banding/Foliation
359.1	0.0	345	N75E	13W	Bedding/Banding/Foliation
360.6	0.0	343	N73E	20W	Filled Fracture/Joint
379.8	3.2	156	S66W	53E	Filled Fracture/Joint
384.9	3.7	311	N41E	35W	Filled Fracture/Joint
388.3	0.0	357	N87E	16W	Bedding/Banding/Foliation
390.7	0.0	322	N52E	19W	Bedding/Banding/Foliation
391.3	0.0	336	N66E	24W	Bedding/Banding/Foliation
404.3	0.0	328	N58E	41W	Filled Fracture/Joint
409.6	0.0	17	S73E	32E	Bedding/Banding/Foliation
411.0	0.0	356	N86E	39W	Bedding/Banding/Foliation
411.9	0.0	3	S87E	27E	Bedding/Banding/Foliation
413.3	0.0	344	N74E	37W	Minor Open Joint/Fracture
414.5	0.0	345	N75E	44W	Bedding/Banding/Foliation
415.6	0.0	315	N45E	34W	Bedding/Banding/Foliation
416.9	0.0	330	N60E	46W	Bedding/Banding/Foliation
418.0	0.0	306	N36E	29W	Bedding/Banding/Foliation

Appendix C

Borehole Verticality Figures

Mid-Atlantic Geosciences

Title: *Borehole Deviation (Bulls Eye Plot)*

WELL ID	
MW-188D	**Logging Date:** *09.26.2013*
	Logging Datum: *Ground Surface*
	BOC: *125'* **DTW:** *58.9'* **TD:** *432'*

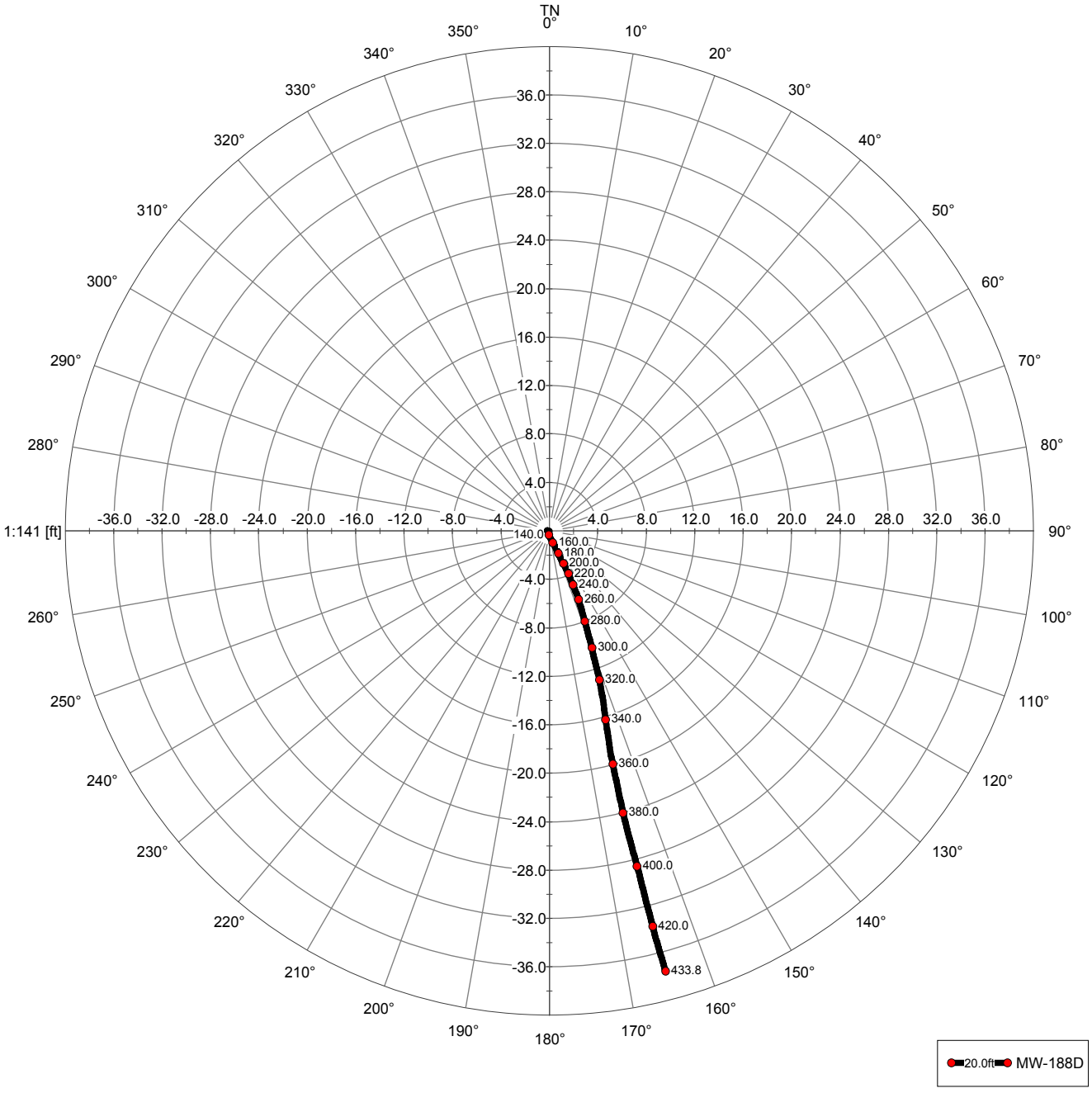
Site Name:

Location: *Phoenix, Md*

Client: *Kleinfelder*

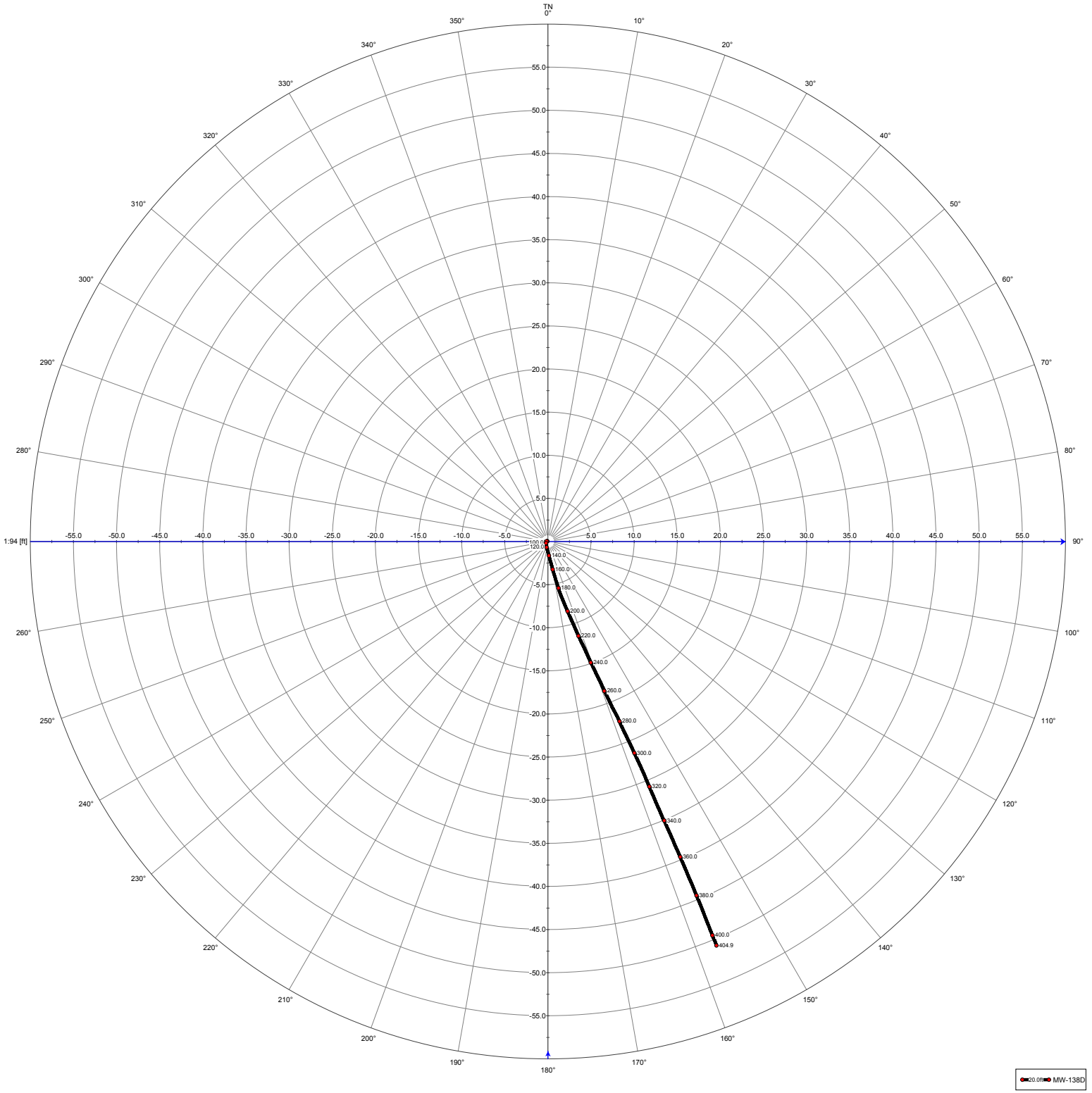
Project No.: *081325*

Revision Date: *10.12.2013*



Mid-Atlantic Geosciences	WELL ID	Logging Date: 09.06.2013
Title: *Borehole Deviation (Bulls Eye Plot)*	*MW-138D*	Logging Datum: *Top of Casing*
		BOC: *60.5'* DTW: *48.5'* TD: *401.5'*

Site Name:
Location: *Phoenix, MD*
Client: *Kleinfelder*
Project No.: *081325*
Revision Date: *10.04.2013*



Mid-Atlantic Geosciences

Title: *Borehole Deviation (Bulls Eye Plot)*

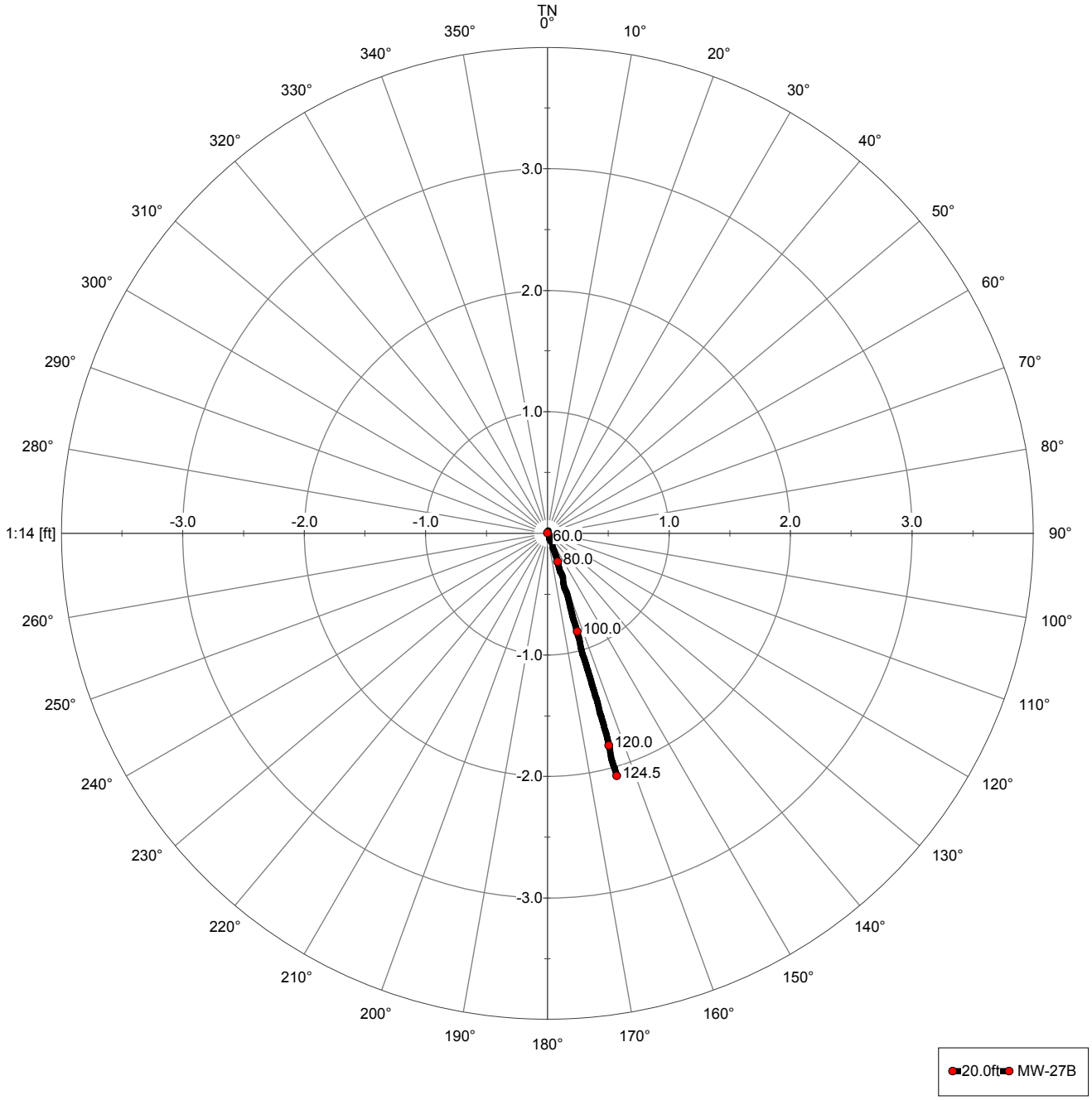
WELL ID *MW-27B*

Logging Date: *10.03.2013*
Logging Datum: *Ground Surface*
BOC: *58.5'* **DTW:** *46'* **TD:** *124.2'*

Site Name:
Location: *Phoenix, MD*

Client: *Kleinfelder*
Project No.: *081325*

Revision Date: *10.15.2013*



Mid-Atlantic Geosciences

Title: *Borehole Deviation (Bulls Eye Plot)*

WELL ID	
MW-171C	**Logging Date:** *10.02.2013*
	Logging Datum: *Ground Surface*
	BOC: *122'* **DTW:** *N/A* **TD:** *410'*

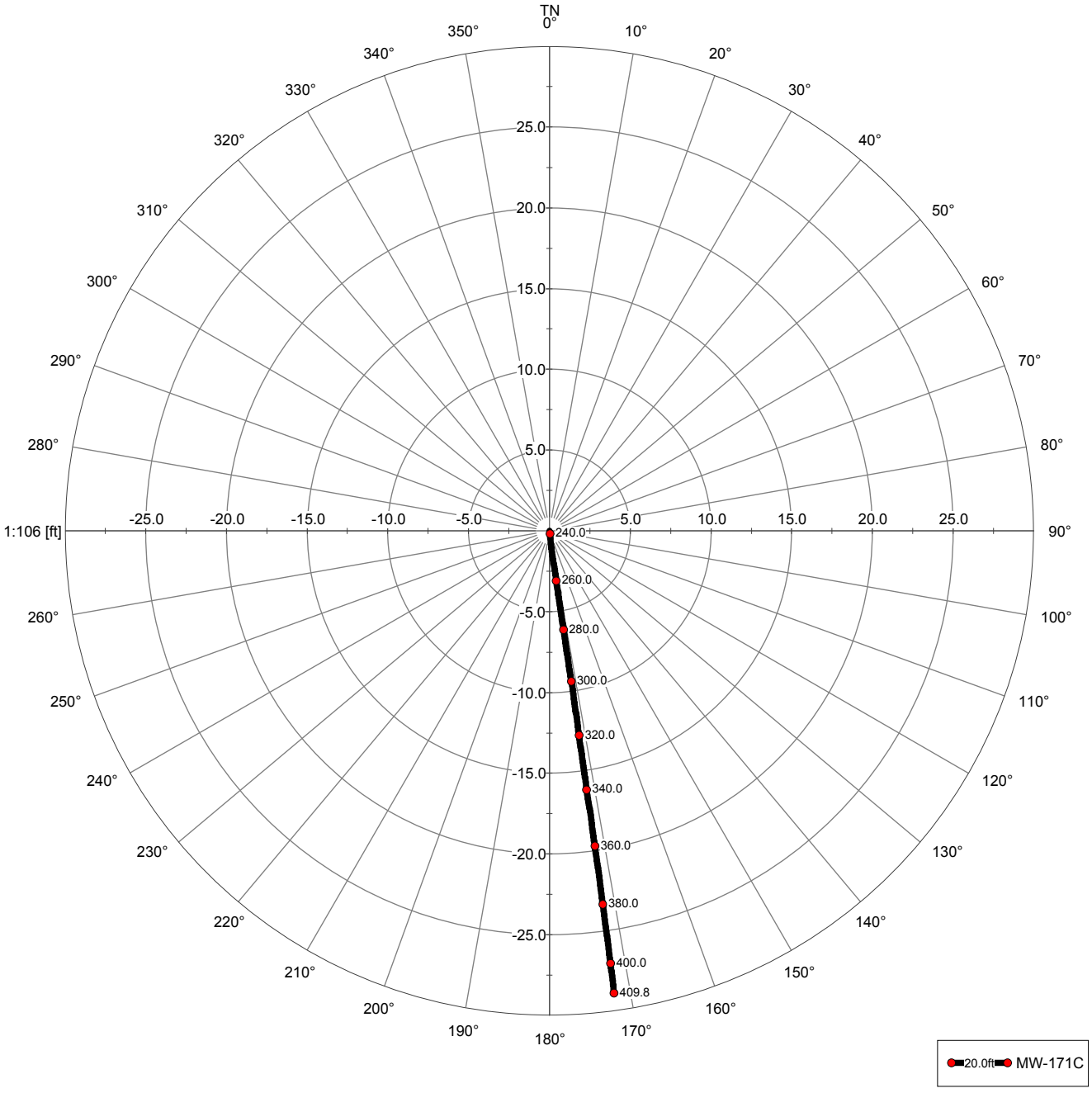
Site Name:

Location: *Phoenix, MD*

Client: *Kleinfelder*

Project No.: *081325*

Revision Date: *10.12.2013*



Mid-Atlantic Geosciences

Title: *Borehole Deviation*

WELL ID	
MW-135C	**Logging Date:** *09.30.2013*
	Logging Datum: *Ground Surface*
	BOC: *N/A* **DTW:** *N/A* **TD:** *394.2'*

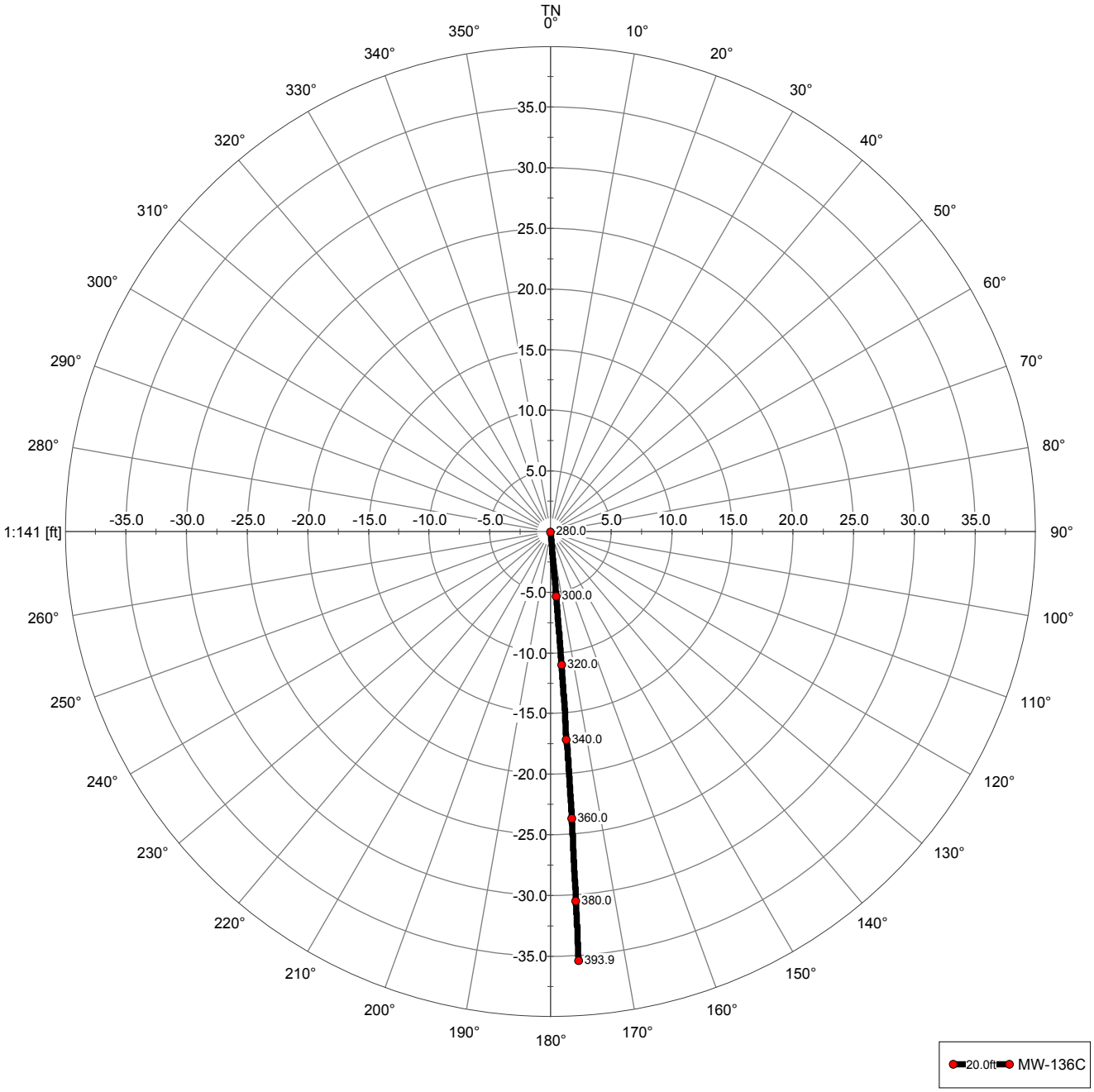
Site Name:

Location: *Phoenix, MD*

Client: *Kleinfelder*

Project No.: *081325*

Revision Date: *10.15.2013*



Mid-Atlantic Geosciences

Title: *Borehole Deviation (Bulls Eye Plot)*

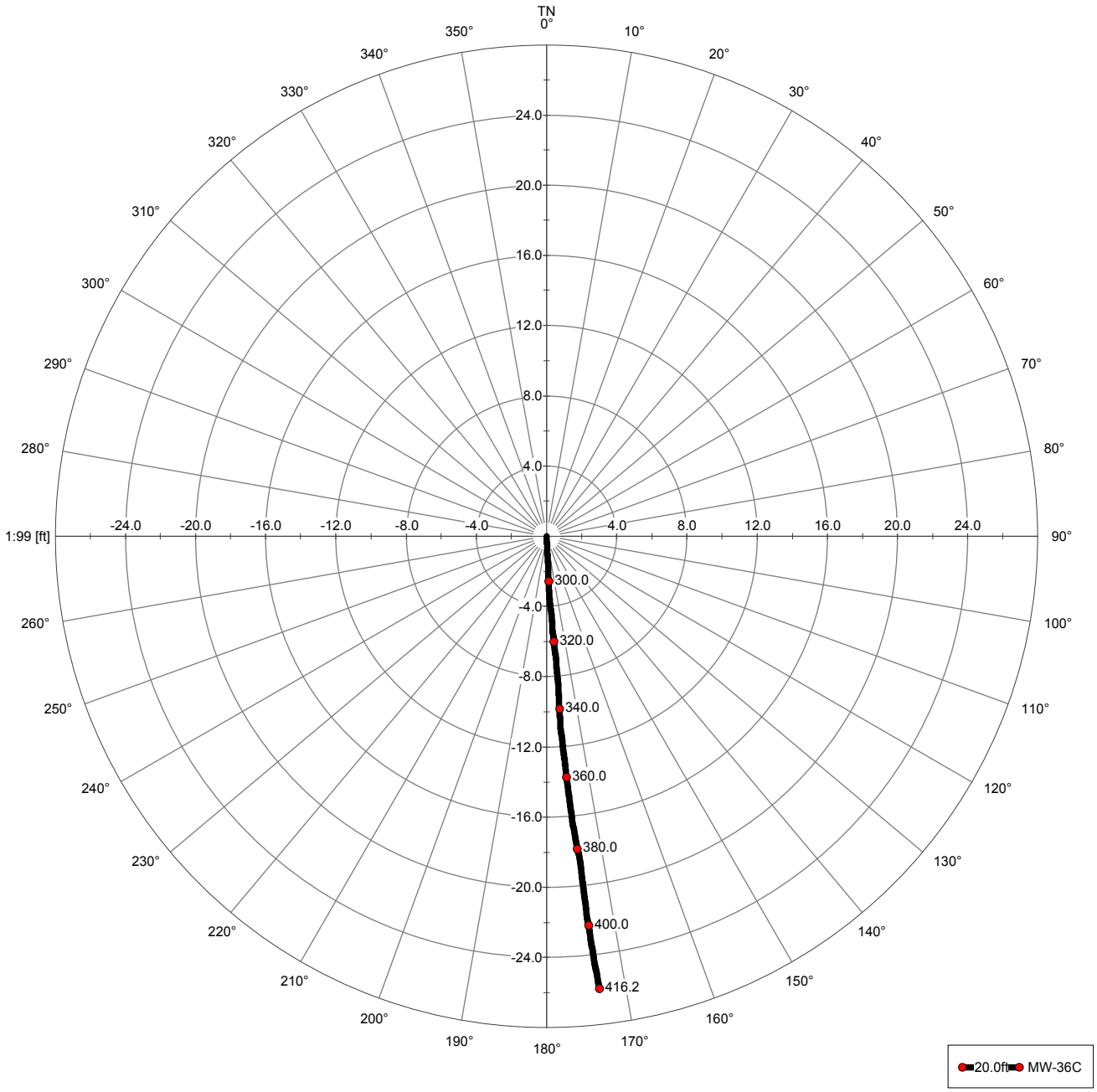
WELL ID *MW-36C*

Logging Date: *10.01..2013*
Logging Datum: *Ground Surface*
BOC: *N/A* **DTW:** *50.4'* **TD:** *416.5'*

Site Name:
Location: *Phoenix, MD*

Client: *Kleinfelder*
Project No.: *081325*

Revision Date: *10.15.2013*



Mid-Atlantic Geosciences

Title: *Borehole Deviation (Bulls Eye Plot)*

WELL ID	
PW-3501	**Logging Date:** *09.27.2013*
	Logging Datum: *Ground Surfae*
	BOC: *N/A* **DTW:** *44.5'* **TD:** *423'*

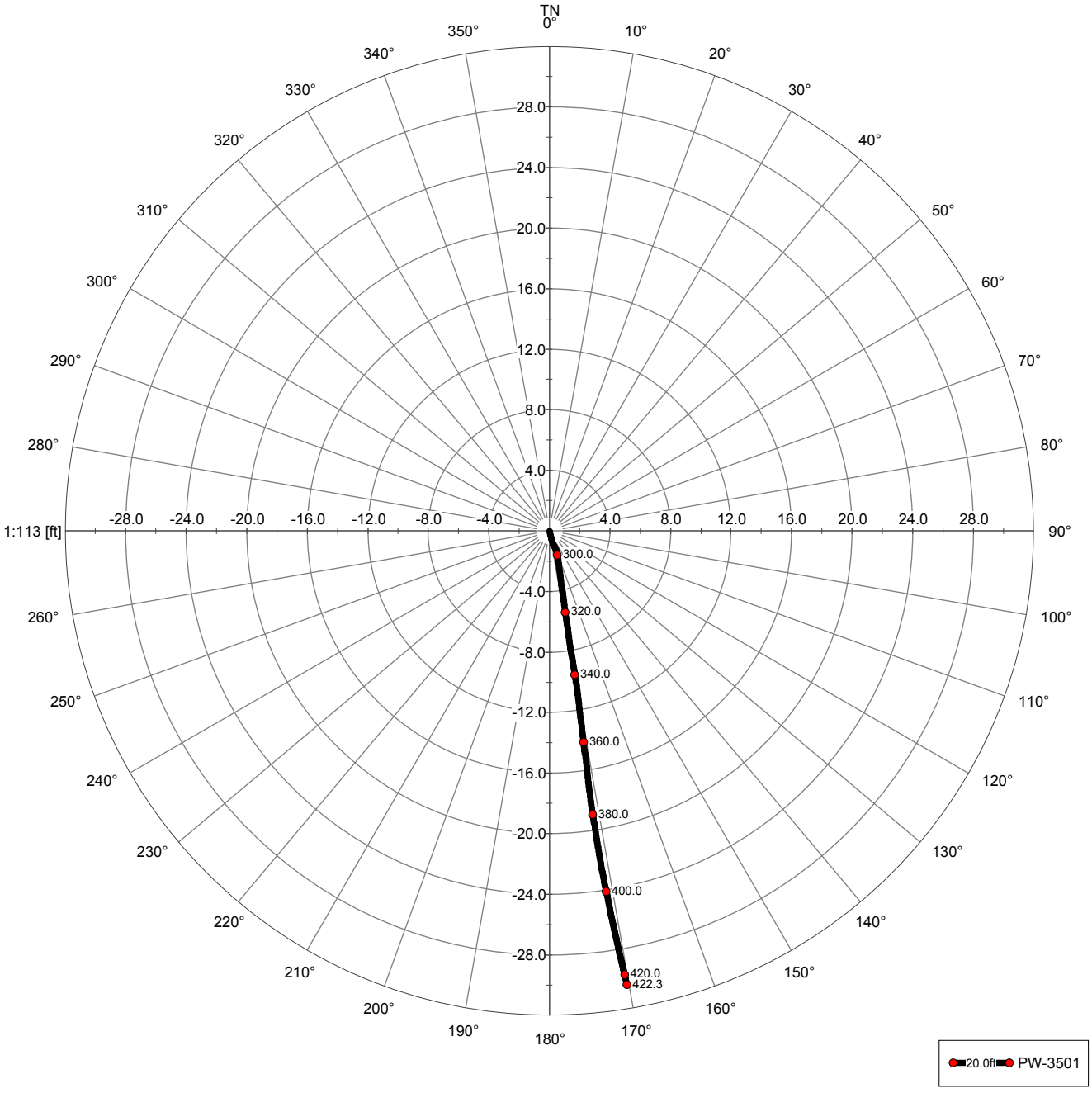
Site Name:

Location: *Phoenix, MD*

Client: *Kleinfelder*

Project No.: *081325*

Revision Date: *10.15.2013*



Final Report
Borehole Geophysical Logging Program
Two Wells
Phoenix, MD
MAG Reference Number 081325b

Prepared For: Kleinfelder
Prepared By: Mid-Atlantic Geosciences
December 18, 2013

1051 Columbia Avenue ● Lancaster, PA 17603 ● 717.396.8922 ● Fax 717.396.8746 ● email@enviroscan.com ● www.enviroscan.com

December 18, 2013

Ms. Stacey Schiding
Kleinfelder
1340 Charwood Road
Suite 201
Hanover, MD 21076

RE: Borehole Geophysical Logging Program
Two Wells
Phoenix, MD
MAG Reference Number 081325b

Dear Mr. Schiding:

Pursuant to our proposal dated October 16, 2013, Mid-Atlantic Geosciences (MAG – the borehole logging division of Enviroscan, Inc.) completed the above-referenced survey on October 31 through November 5, 2013. The objective of the survey was to locate and characterize fractures and potential water-bearing zones intersecting the wells. To accomplish these objectives, MAG conducted Optical Televiewer, Acoustic Televiewer, Borehole Verticality, 3-Arm Caliper, Fluid Temperature, Fluid Conductivity, Natural Gamma, and Heat Pulse Flowmeter logging in the wells.

Logging Equipment

Mid-Atlantic Geosciences conducts borehole geophysics, televiewer, and video logging using a Robertson Geologging, Ltd. Micrologger II and/or a Mount Sopris Matrix. These units record digital data for on-site log playback, reproduction, and field interpretation, as well as post-processing and report presentation. The systems are driven by field PCs running software supplied by the manufacturer for data acquisition, log replay, probe control, probe calibration, and logging environment compensation. Video data (if collected) are recorded in real time to the hard drive of a DVD player/recorder, and can be burned in the field to a DVD that is left with the client's on-site representative.

All of the logging instruments are permanently mounted in a dedicated Ford F350 or Dodge RAM2500 enclosed-bed truck, each with a self-contained power supply, and support and decontamination equipment. The downhole probes or sondes are connected to either a Robertson Geologging Smartwinch with approximately 600 feet of 0.375-inch coaxial cable, or a Robertson 2000m winch with approximately 3000 feet of 0.25-inch coaxial cable – depending on the depth of the wells logged.

Decontamination Procedure

Prior to Mid-Atlantic departure to a site, the winch cable and sondes scheduled for use are decontaminated to ensure the quality of sampling by preventing cross-contamination. The procedure described below was implemented both before and after logging.

The equipment used for decontamination is listed below.

- Distilled water
- Liquinox detergent 1:100 solution (mixed with distilled water)
- Stiff-bristle brush
- Manual pump spray bottle
- Heavy duty paper towels
- 5-gallon bucket with lid

Procedure

1. A decontamination area is designated and set-up.
2. Proper personal protective equipment in donned (i.e. nitrile gloves, safety glasses).
3. Sondes are removed from their containers and placed in the decontamination area.
4. Mixed detergent solution is applied to each sonde with a manual pump spray bottle.
5. Sondes are manually wiped down with a paper towel or scrubbed with a stiff bristle brush, depending on the amount of mud or dirt on the sonde.
6. Sondes are rinsed with distilled water and dried with a paper towel.
7. Discarded water is captured in a 5-gallon bucket and sealed for proper disposal and not allowed to infiltrate the soil.
8. If a sonde is still visibly contaminated, the process is repeated as necessary.
9. Decontamination of the winch cable is performed during the first deployment of a sonde down a borehole and on the last retrieval of a sonde for each borehole.
10. Mixed detergent solution is sprayed on paper towels and the cable is wiped down on its initial deployment down a borehole.
11. Paper towels are monitored for cleanliness and replaced as necessary.
12. Cable decontamination process is repeated on the final recovery of a sonde for each borehole.

Logging Parameters and Methodology

Geophysical well logging in general involves lowering sondes in a borehole and recording parameters that are related to the properties of the adjacent soil or rock, the fluids in the borehole or formation, and/or construction details of the well. There are many tools and techniques that have been developed to provide specific information in different environments and constructions of drilled holes. The data collected can define the nature and extent of geologic formations and formation fluids, and can be used to provide correlation between holes.

The sondes used for this survey are described below. Note that before any of these tools are put into service for a particular job, MAG personnel test them for proper function and recalibrate as necessary. This is essential to the proper acquisition of downhole data and the ability to relate the data from one borehole to another.

Optical Televiewer

The borehole optical televiewer (OPTV) or Optical Borehole Imager (OBI) provides a high-resolution digital optical scan of the interior of a borehole using visible wavelength light. From the accurately-scaled, continuous image it is possible to identify the depth and character of features such as fractures, bedding planes, veins, solution openings, etc. In particular, it is possible to calculate the strike, dip, and aperture of planar features. The OPTV operates by using a high-resolution color downhole camera which views a reflection of the borehole walls in a hyperbolic correction mirror. At successive depth increments of 0.5 mm, rings of pixels corresponding to circular scans of the borehole wall are acquired from the probe and stacked into a continuous image. The image is rectangular – representing the interior of a cylinder that has been sliced open and rolled-out flat. The image is oriented to north based on data from three magnetometers and accelerometers in the sonde. Note that the use of magnetometers for orientation leads to image distortion in steel-cased holes, and within several feet of the base of steel casing in open holes. All OPTV sondes require an open borehole, or one filled with a clear fluid.

Planar features intersecting a cylindrical borehole appear sinusoidal on the flattened cylindrical image. The azimuth of the peak/trough of the sinusoid, and the amplitude of the sinusoid can be measured and used to calculate the strike and dip (see Appendix A) of such features. Based on their visual character, planar features on the optical televiewer (and HRAT – see below) logs have been categorized on the log sheets as various types of geologic interface (fractures, bedding planes, foliation, etc.). Once sinusoids were fit to the structures they were classified (Appendix B) and then corrected for borehole tilt. Data were subsequently corrected for declination using NOAA's "Estimated Value of Magnetic Declination" online calculator for each well location.

Tables listing the depth, aperture, strike, dip and type of feature are included in this report, for each well, as Appendix C. Feature apertures are listed in tenths of an inch. An aperture of zero for an open fracture simply means that while it appears to be a continuous open feature, the opening is smaller than the line thickness on the log (~0.019 inches).

Note also that it has been the experience of MAG that the aperture of a feature is not always a strong indicator of its water-producing potential. Thin, discrete features sometimes produce as much or more water than wide, open fractures or fracture zones.

Acoustic Televiewer

The high-resolution acoustic televiewer (HRAT) provides a scan or image of the interior of the borehole that is created not by reflected visible wavelength light, but by reflected ultrasound. Since ultrasonic pulses are used, it is possible to record both the amplitude and travel time of each pulse, and construct two separate images. The amplitude log is analogous to a visual scan, while the travel time data are affected primarily by the local diameter of the borehole (i.e. the larger the bore, the later the arrival of the reflected pulse), and therefore can supplement or replace a caliper log. The main advantage of the HRAT probe is that it can be used in larger boreholes than optical tools, and in holes with turbid or particle-loaded fluids that would be opaque to optical methods.

The HRAT operates by using a fixed acoustic transducer and a rotating acoustic mirror capable of focusing on the borehole wall at any distance from the probe diameter upwards. The acoustic transducer is focused based on the borehole diameter and impedance-matched to the borehole fluid to provide optimum image resolution and reflected amplitude. Mirror rotation speed (i.e. circumferential resolution), sampling rate (i.e. depth resolution), signal gain (i.e. amplitude image contrast), and recording time gate (i.e. travel time image contrast) are all variable and under operator control to provide the best image possible under borehole-specific conditions.

HRAT logs are presented as accurately-scaled and accurately-oriented cylindrical images that are sliced open and laid flat. Therefore, planar dipping features appear as sinusoids from which the strike and dip of the feature can be calculated (see Appendix A). Selected and representative televiewer features are listed in Appendix C and on the log sheet. Based on their visual character, planar features have been categorized as various types of geologic interface (fractures, bedding planes, foliation, etc.). Feature apertures are listed in tenths of an inch. An aperture of zero for an open fracture simply means that while it appears to be a continuous open feature, the opening is smaller than the line thickness on the log (~0.019 inches).

Borehole Verticality

Borehole Verticality or (Borehole Deviation) is the measurement of a borehole's departure from the vertical measured in degrees. The HRAT and OPTV sondes employ a combination of precision magnetometers and accelerometers to measure the tools orientation with respect to the earth's magnetic and gravitational fields. Through mathematical analysis in WellCad v.4.4 the tool trajectory can be plotted in 3-D space. The tool verticality feature will function in a dry or fluid-filled hole but will not function in the presence of casing unless the casing is non-ferrous metal or plastic. The results of this survey are included in this report as a bulls-eye view in Appendix D.

Three-Arm Caliper

Caliper measurements represent the average diameter of the borehole or well at a given depth. The caliper tool collects and transmits the data from three spring-loaded arms as the tool is lifted upwards through the borehole. The caliper tool is used to locate solution openings or fractures (where the borehole is typically enlarged due either to the presence of natural openings, or to plucking of broken rock by the drill bit), and to determine the length of casing intervals (as evident from small changes in casing diameter, or the small enlargements at threaded junctions, or narrowing due to the bead at welded junctions).

Caliper logs are collected by calibrating the downhole tool with a measuring template, lowering the tool to the base of the well, remotely opening the arms, and then logging the open borehole and casing diameter in an upward direction. Caliper logs are acquired with a logging speed of no more than 12 feet per minute.

Fluid Temperature

Fluid temperature logs provide the temperature of the air or fluid in a borehole as a function of depth. Temperature logs can indicate where water is entering or leaving a borehole – and thereby disturbing the normal geothermal gradient. Deviations, offsets, or changes in the slope of the temperature log can be used to locate zones of water movement within the borehole. Temperature logs must be run in wells that have been allowed to fully equilibrate to the local geothermal gradient following any prior drilling, construction, pumping or sampling. During a temperature survey, data accuracy is ensured by maintaining a downward logging speed of approximately 10 feet per minute (fpm). This provides an adequate time buffer to allow sensors to respond to minor temperature changes.

Fluid Conductivity

Fluid conductivity logs provide a continuous measurement of the electrical conductivity of the borehole fluid – i.e. zero in air or hydrocarbons, greater than zero in water. In water, electrical conductivity is mostly a function of electrolytic content. Water with very low dissolved solid concentrations will yield low fluid conductivity, while water containing a high level of dissolved solids will be proportionally more conductive. Fluid conductivity logs often deflect where water-producing features are transmitting water into or out of the well (since the well water may have a differing electrolytic chemistry than the formation water). The fluid conductivity log is usually collected simultaneously with the temperature log – since for both, data from a fully equilibrated water column is required.

Natural Gamma

Gamma logs are one of the most widely used geophysical logs in groundwater applications. They are used primarily to identify changes in lithology – specifically the relative amounts of clay in various sedimentary units.

A gamma log provides a record of the total natural gamma radiation detected within a given energy range. In water-bearing rocks and sediments that are not contaminated by artificial radioisotopes, the most significant naturally-occurring, gamma-emitting radioisotopes are potassium-40 and the daughter products of the uranium and thorium decay series. If gamma-emitting artificial radioisotopes have been introduced by humans into the groundwater system, they will also produce part of the radiation measured.

The amplitude of gamma-log deflections is affected by any borehole condition that alters the density of the material through which gamma photons must pass or the length of the travel path. The bedding of a gamma-emitting formation must be thick to obtain a quantitative value since the detector will be affected by the radiation from the formation as the tool approaches and passes the bed. Although increases in borehole diameter or the presence of steel casing will decrease the recorded gamma count, it is possible to collect usable information in both cased and open portions of the borehole using the gamma sonde. The presence of potassium-rich (and therefore gamma-emitting) bentonite clay commonly used in well construction will generally produce high gamma count peaks on a natural gamma log. MAG has natural gamma detectors on many sondes, and comparison of the multiple gamma logs collected for any given well logging program are used to ensure that the depths of differing logs are not erroneously shifted. Therefore, the gamma log presented for any well may have been collected simultaneously with any of the other logs from the same well.

Heat Pulse Flowmeter

Unlike all other logs that are continuous records of some parameter versus depth, heat pulse flowmeter (HPFM) logs are made with the sonde stationary in the borehole at discrete depth intervals or at stations selected to suit a particular study. In the sonde, large capacitors are charged from the surface power supply and can be discharged rapidly on command through a high resistance wire grid (like the heating elements on an electric stove). The discharge creates an infinitesimally thin disc of heated water. By conduction alone, the heat in this disc disperses slowly due to the poor heat conduction of water. In addition, the slight change in density of the heated water will cause it to rise very slowly (i.e. by convection). However, in the presence of vertical flow, the heated disc of water will move up or down with the flow velocity. In the sonde, thermistors are set at fixed equal distances above and below the heating grid, and sense the passage of the heated disc. Prior to firing the heating element, the two thermistor outputs are equalized so it is possible to interpret any subsequent differential output as a relative change in temperatures between thermistors. The temperature differential data is sent to the surface where the flow rate (in fpm) can be calculated based on the known positions of the thermistors. If the borehole diameter is known, the flow in fpm can be converted to gallons per minute (gpm). Note that by convention, negative flow values represent downward flow.

The main limitation of the heat pulse flowmeter is that it can only accurately measure the vertical component of flow in a borehole. Any horizontal flow cannot be quantified due to the location of the thermistors relative to the heat grid. This factor must be taken into consideration when interpreting heat pulse flowmeter data. Unfortunately, there is no reliable tool for measuring horizontal flow in a borehole. In addition, please note that even in the presence of water-bearing features, vertical flow will only occur in a static well if it intersects two or more features with differing hydraulic heads. For example, a well might intersect just a single, highly productive zone, but since there is no other zone with a different head, the only static flow in the well would be horizontal (across the well - if at all). Therefore, lack of vertical flow under static conditions does not necessarily imply an absence of hydrogeologically important features.

The heat pulse flowmeter is typically operated after the borehole has stabilized from the effects of any prior logging runs in the borehole. In addition, after moving the sonde itself, the hole is allowed to equilibrate before taking any measurements. At each station, multiple measurements are usually recorded to ensure repeatability. The borehole is also allowed to equilibrate between successive measurements at a given station to ensure that the measured flow is due to natural flow conditions, and not conduction or convection from previous measurements. The heat pulse flowmeter is typically run under static conditions and may not quantify flow in some water-producing zones where there is only horizontal flow and/or no head difference between adjacent features. However, in some cases, these zones may be identified by recording heat pulse flowmeter data under stressed or pumping conditions which induce artificial head differences.

Logging Results

The wells were logged on October 31 through November 5, 2013. The logging results for the wells are presented on the enclosed digital logs and tables, and briefly summarized below.

Note that since analysis of borehole geophysical logs can be quite subjective, and the level of detail is dependent upon the specific goals of the geologist, the analysis by MAG below covers the major features of each log, as well as some possibly minor features to serve as examples or guides for further interpretation by geologists familiar with the site, local geology, and/or project goals. In general, logs may display deviations (i.e. "spikes" where the parameter deviates from, and then returns to, "background" level), offsets (changes in background level), or slope changes. Any of these could be considered significant in certain situations, or when compared to correlating features at the same depth on other logs. If there are any questions about the features discussed (or not discussed) below, please do not hesitate to contact MAG.

MW-48D

Noted Features

- The total depth (TD) of the well was logged at approximately 400 feet below top of casing (TOC).
- The depth to water (DTW) was measured at 35 feet below TOC at the time of the survey.
- The diameter of the casing at the surface was measured to be six inches, and the bottom of the casing (BOC) was located at approximately 53.9 feet below TOC.
- The caliper (borehole diameter) log reveals minor borehole enlargements located at 210, 225.5, and 284.5 feet below TOC.
- The fluid temperature log shows no significant deviations, offsets, or changes in slope.
- The fluid conductivity log shows no significant deviations, offsets, or changes in slope.
- Planar features were recognizable on the televiewer logs. The depth, strike, dip, aperture, and feature type are listed on the log, as well as on the accompanying table in Appendix C.
- The natural gamma logs show generally smooth variations that are probably related primarily to the clay content of the formation.
- The bottom of the well is offset from the wellhead by about 57 feet in the direction S4^{o}W, with the deviation increasing with depth (Appendix D).

- Based on the absence of caliper anomalies and televiewer features recognized in the field, 18 stations or depths were selected for heat pulse flowmeter measurements at approximately 20-foot intervals. The recorded flows (based on an averaging of three to seven individual measurements per station) are listed below, with positive being upward. There was no vertical flow detected in the well.

Depth (feet)	Vertical Flow (GPM)
60	0
80	0
100	0
120	0
140	0
160	0
180	0
200	0
210	0
220	0
240	0
260	0
280	0
300	0
320	0
340	0
365	0
380	0

MW-131C

Noted Features

- The total depth (TD) of the well was logged at approximately 356.5 feet below top of casing (TOC).
- The depth to water (DTW) was measured at 9.48 feet below TOC at the time of the survey.
- The caliper (borehole diameter) log reveals no significant borehole enlargements associated with fractures.
- The fluid temperature log shows no significant deviations, offsets, or changes in slope.
- The fluid conductivity log shows no significant deviations, offsets, or changes in slope.
- Planar features were recognizable on the televiewer logs. The depth, strike, dip, aperture, and feature type are listed on the log, as well as on the accompanying table in Appendix C.
- The natural gamma logs show generally smooth variations that are probably related primarily to the clay content of the formation.
- The bottom of the well is offset from the wellhead by about 35 feet in the direction S1^{o}W, with the deviation increasing with depth.
- Based on the absence of caliper anomalies and televiewer features recognized in the field, six stations or depths were selected for heat pulse flowmeter measurements at 10- to 20-foot intervals. The recorded flows (based on an averaging of three to seven individual measurements per station) are listed below, with positive being upward. There was no vertical flow detected in the well.

Depth (feet)	Vertical Flow (GPM)
280	0
290	0
310	0
330	0
340	0
350	0

Limitations

In making verbal or written interpretation of logs, MAG personnel give the client the benefit of their best professional judgment. However, since all interpretations are based on inference from electrical, magnetic, or other indirect measurements, MAG does not, and cannot, guarantee the accuracy or the correctness of any such interpretations. MAG shall not be liable for any loss, damages, or expenses resulting from reliance on such interpretations. MAG does not warrant the accuracy of log data transmitted by any electronic process and will not be responsible for intentional interpretation of log data by others. MAG makes no warranties – neither explicit nor implied. Under no circumstances shall MAG, its parent company Enviroscan, Inc., or their personnel be liable for consequential damages.

We appreciate this opportunity to have worked with you again. If you have any questions, please do not hesitate to contact me.

Sincerely,
Mid-Atlantic Geosciences

Christopher Lash
Geophysics Project Manager

Technical Review By:
Mid-Atlantic Geosciences

Felicia Kegel Bechtel, M.Sc., P.G.
President

enc.: MW-48D – Geophysical, Televiewer, and Flow Logs
MW-131C – Geophysical, Televiewer, and Flow Logs
Appendix A: Planar Feature Orientation Parameters
Appendix B: Planar Feature Characterization
Appendix C: Planar Feature Characterizations Tables
Appendix D: Borehole Verticality/Deviation Plots

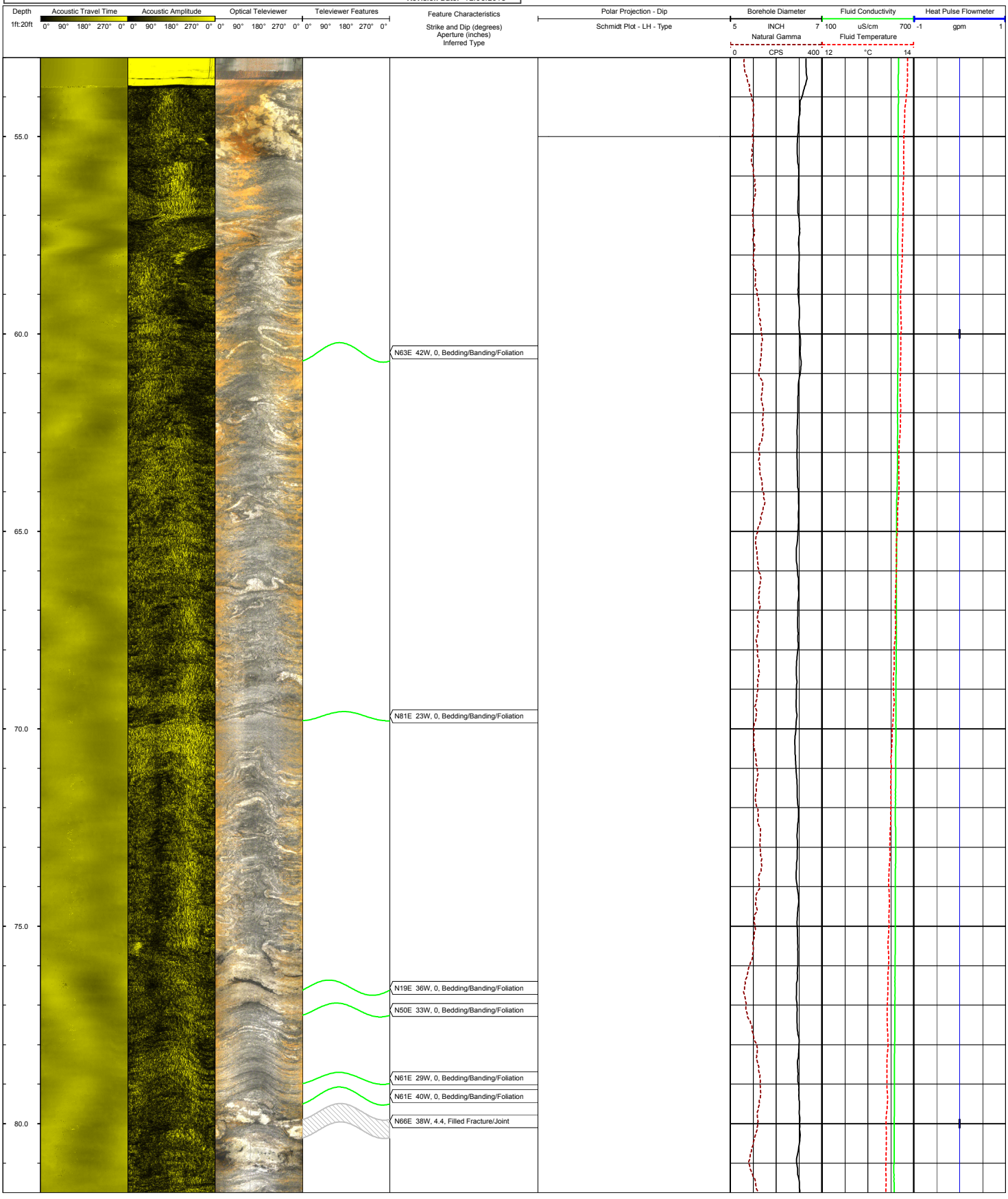
Mid-Atlantic Geosciences

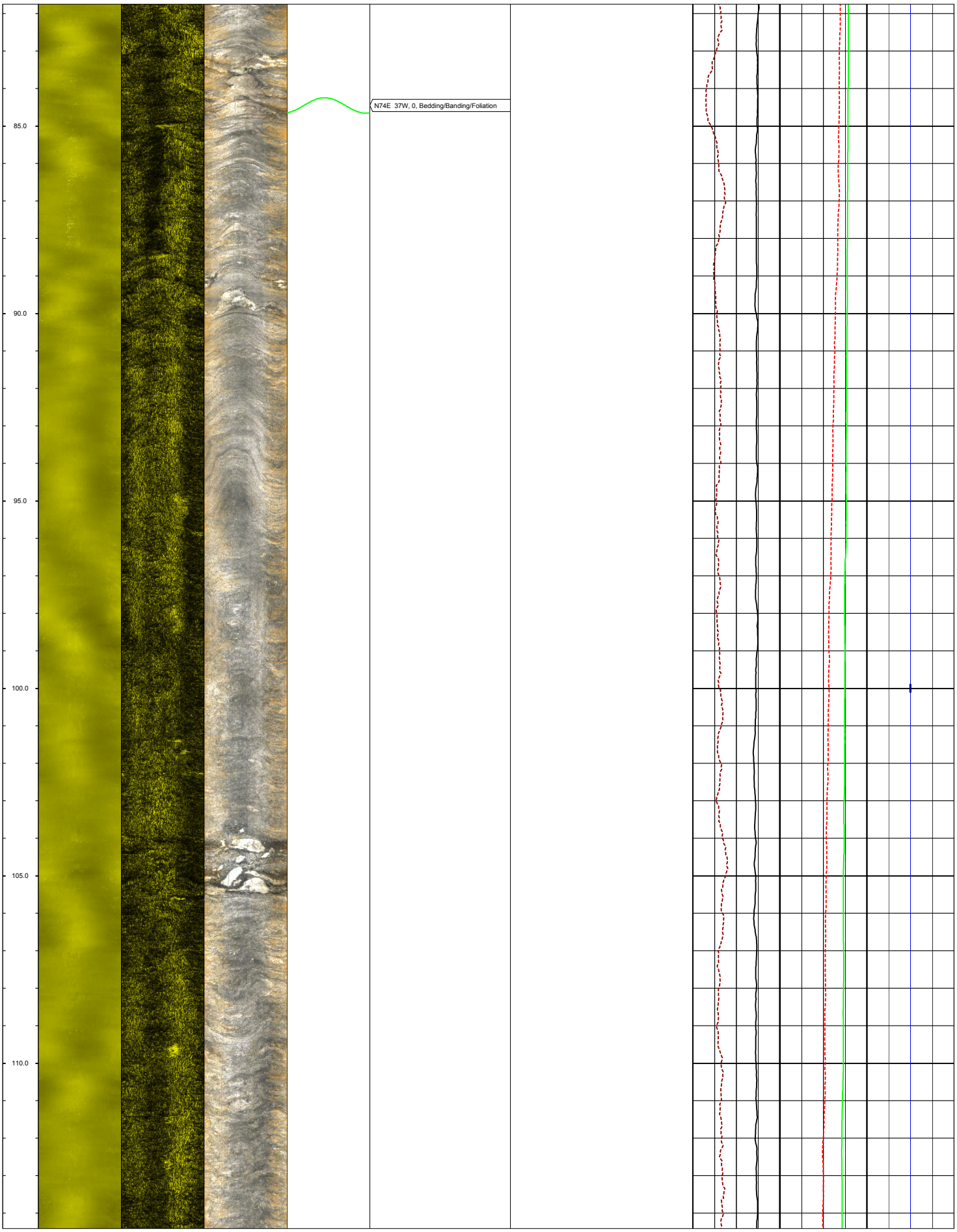
Title: *Borehole Geophysical Logging Program*

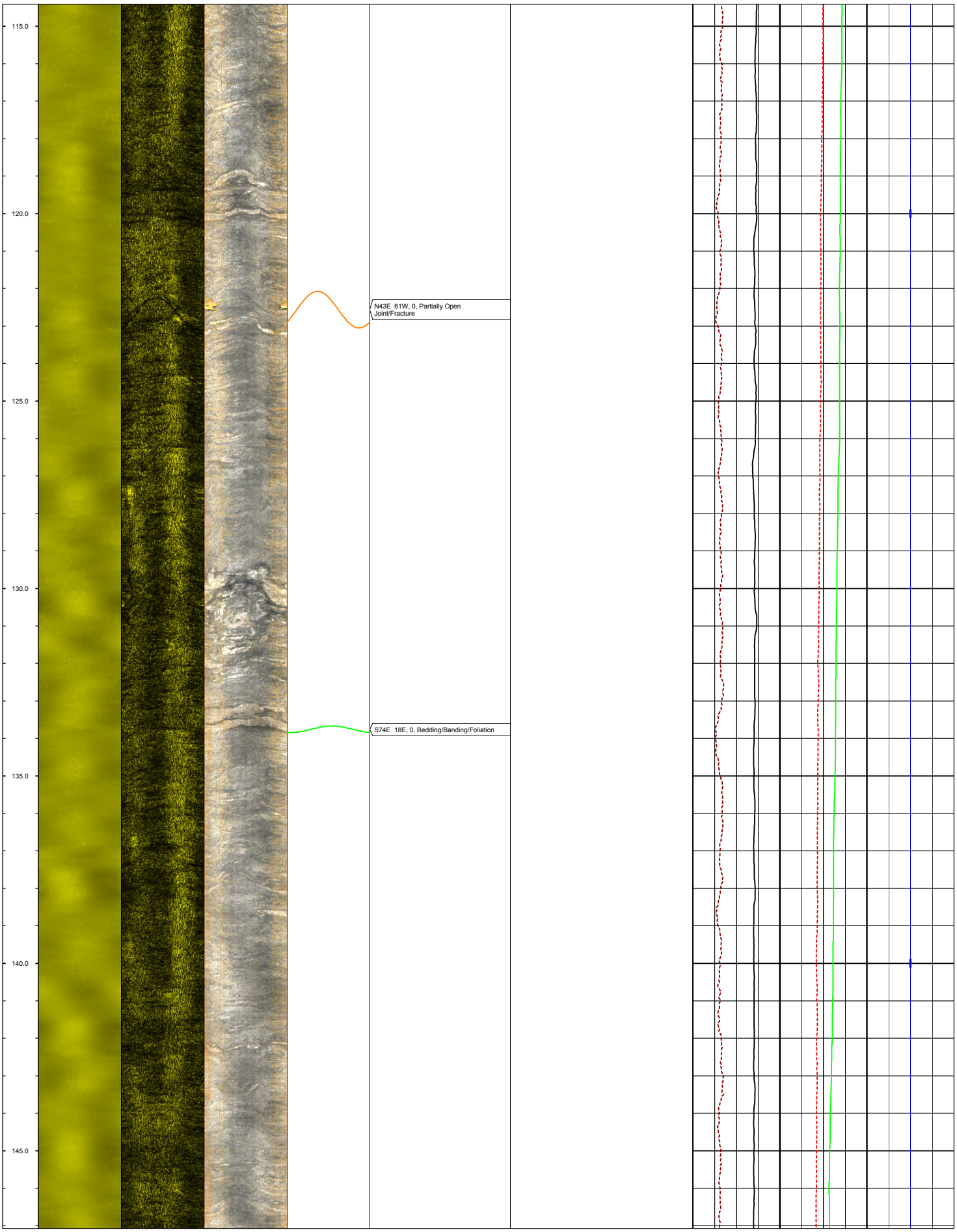
WELL ID *MW-48D*

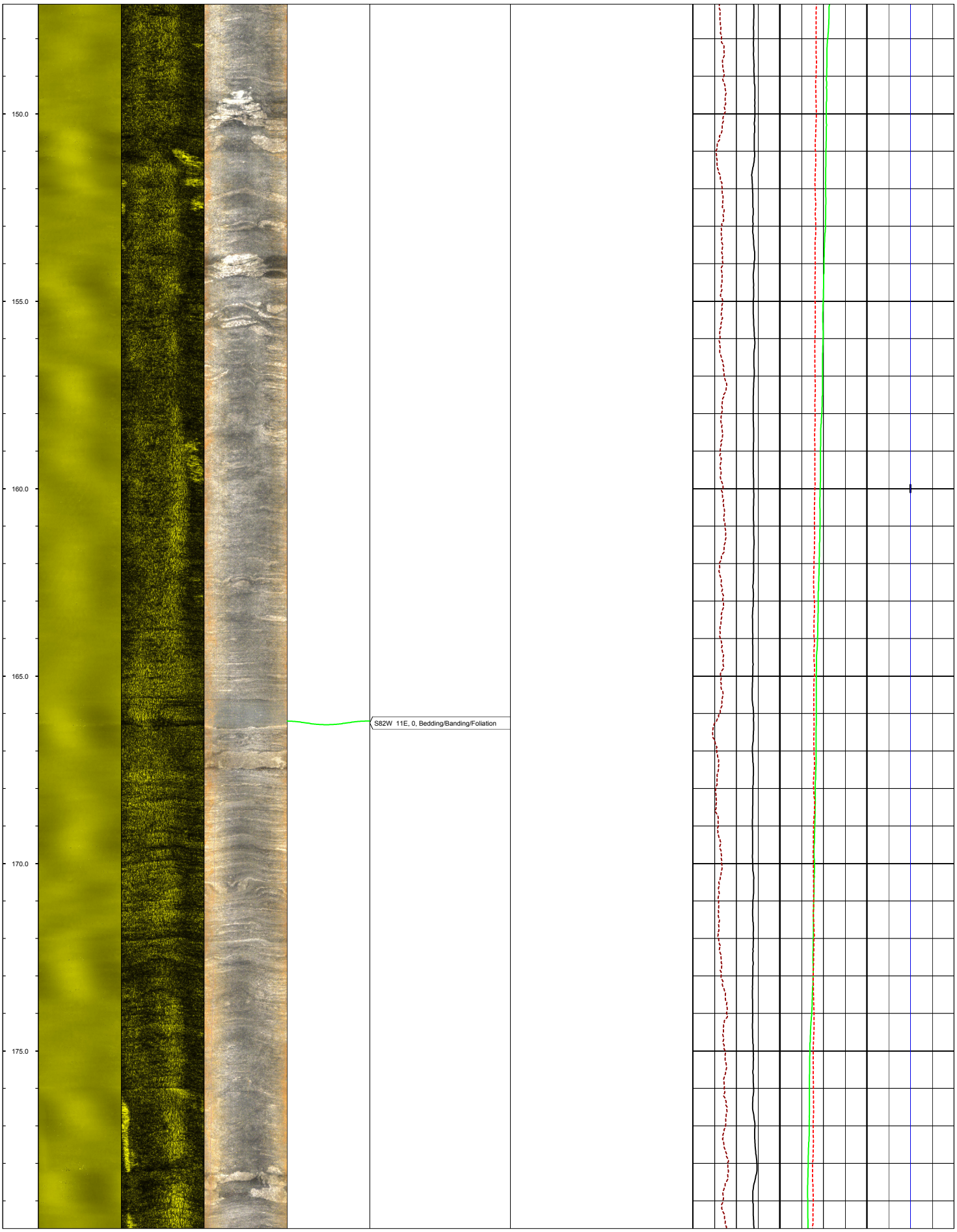
Logging Date: *11.05.2013*
Logging Datum: *Top of Casing*
BOC: *53.9'* **DTW:** *35'* **TD:** *400'*

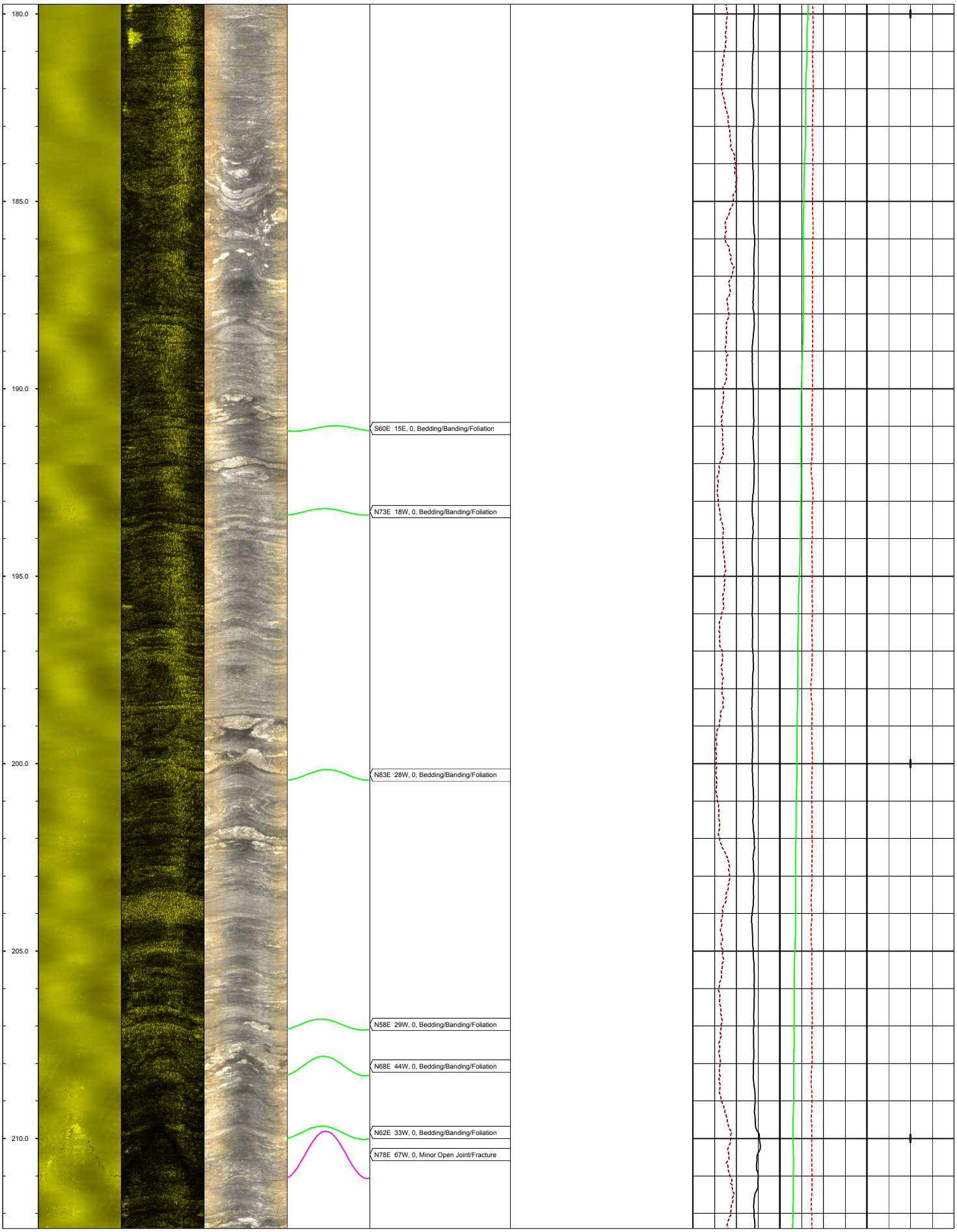
Site Name:
Location: *Phoenix, MD*
Client: *Kleinfelder*
Project No.: *081325b*
Revision Date: *12.06.2013*

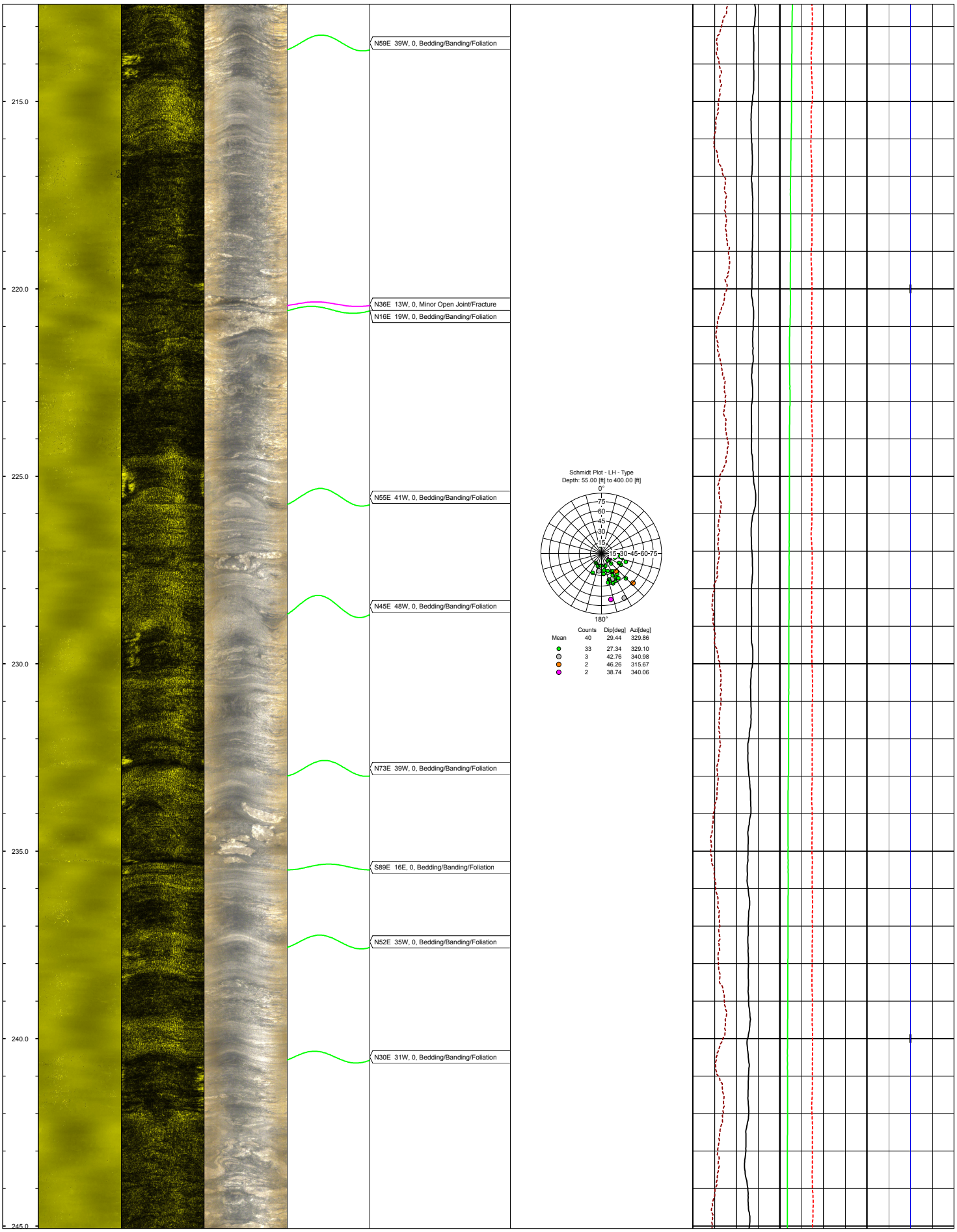


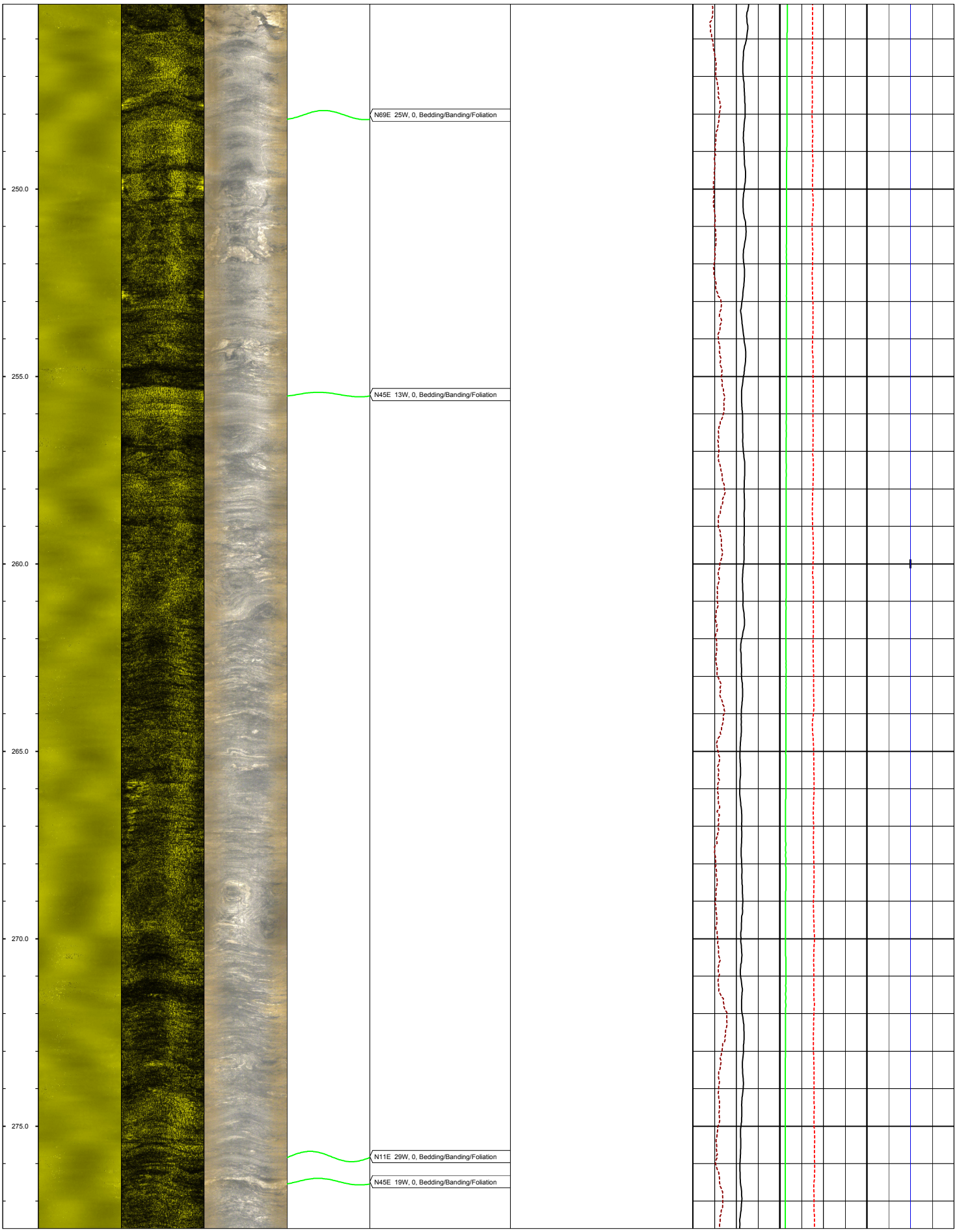

N74E 37W, 0, Bedding/Banding/Foliation
85.0
90.0
95.0
100.0
105.0
110.0

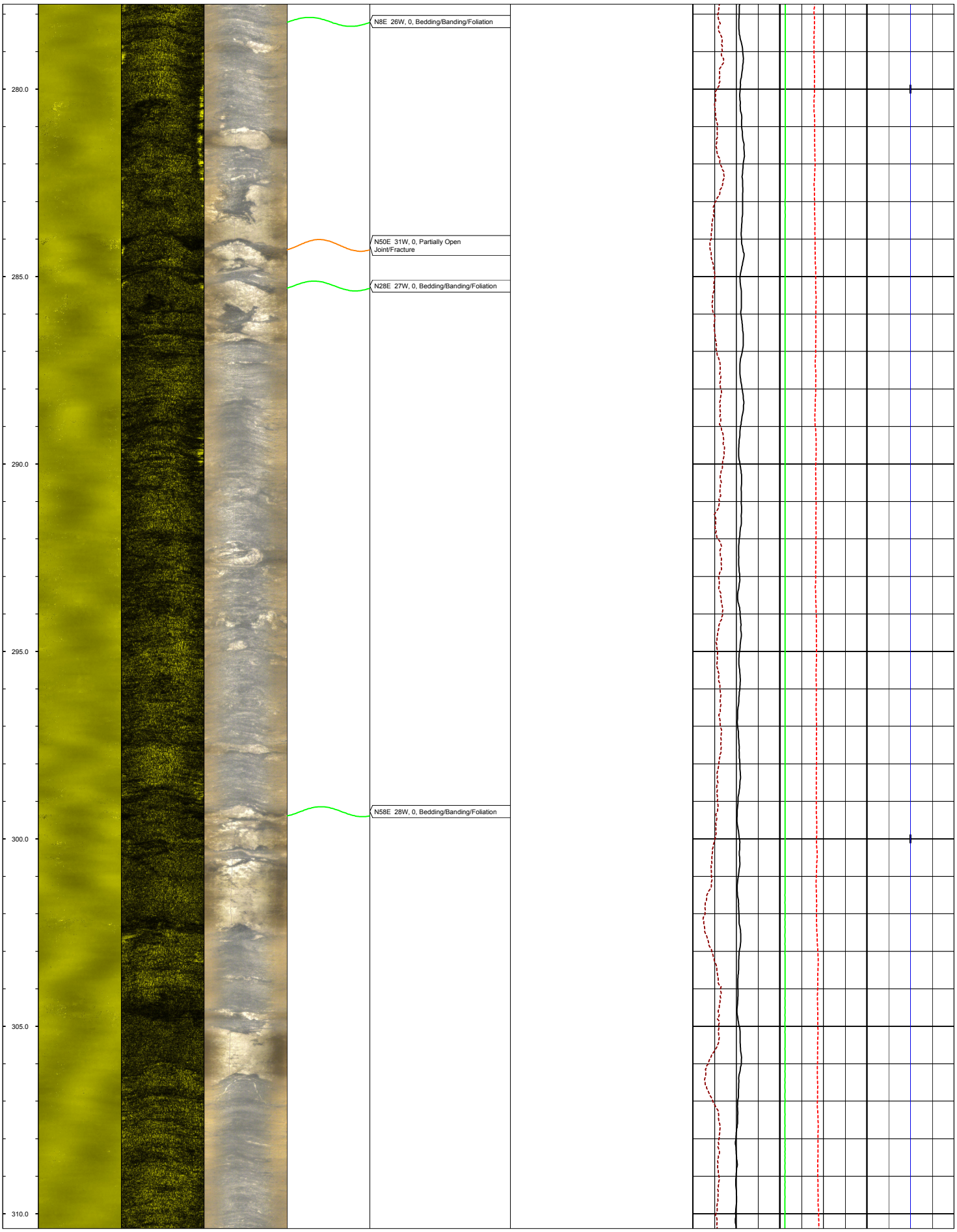

115.0
120.0
125.0
130.0
135.0
140.0
145.0
N43E 61W, 0, Partially Open Joint/Fracture
S74E 18E, 0, Bedding/Banding/Foliation

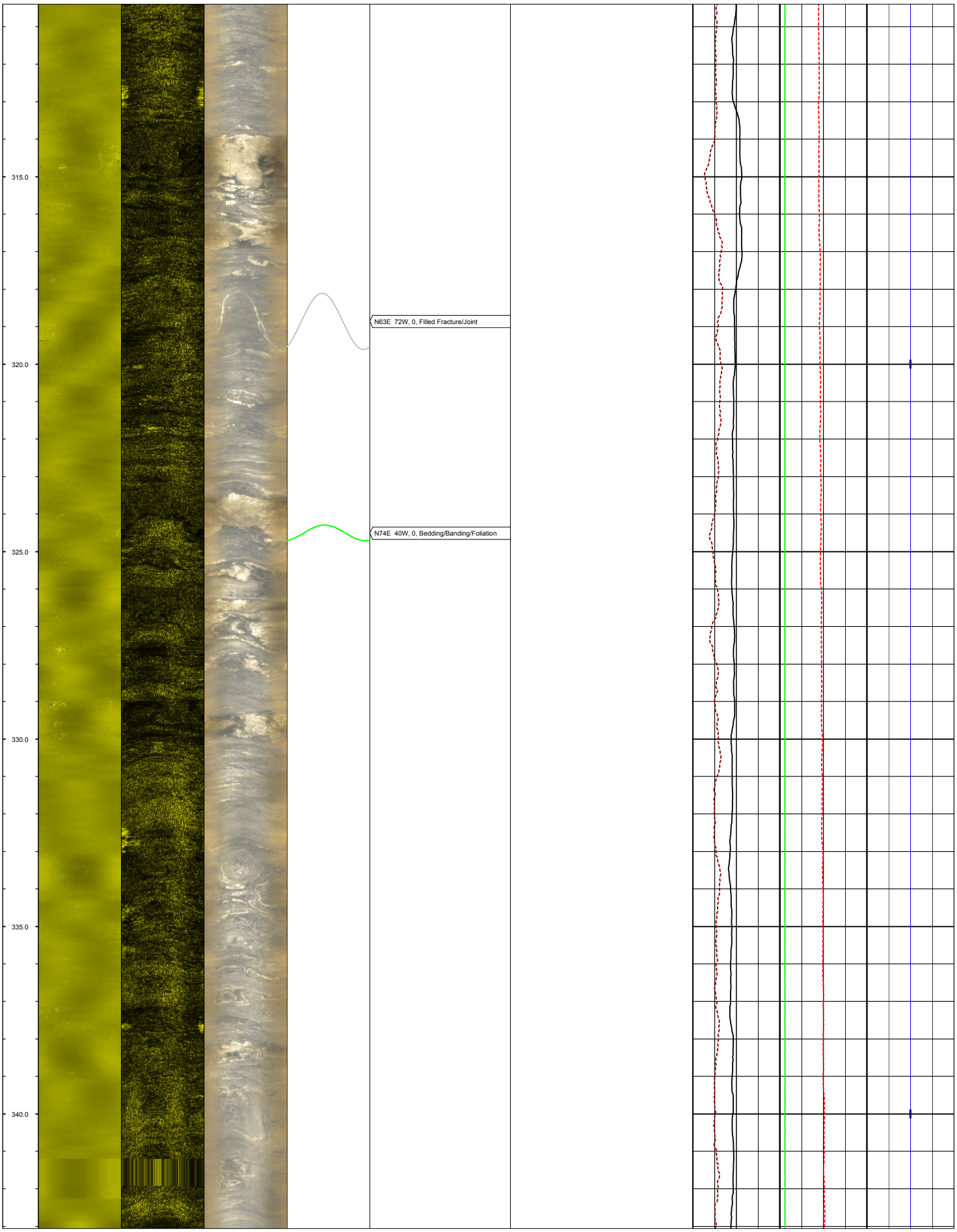

150.0
155.0
160.0
165.0
170.0
175.0
S82W 11E, 0, Bedding/Banding/Foliation

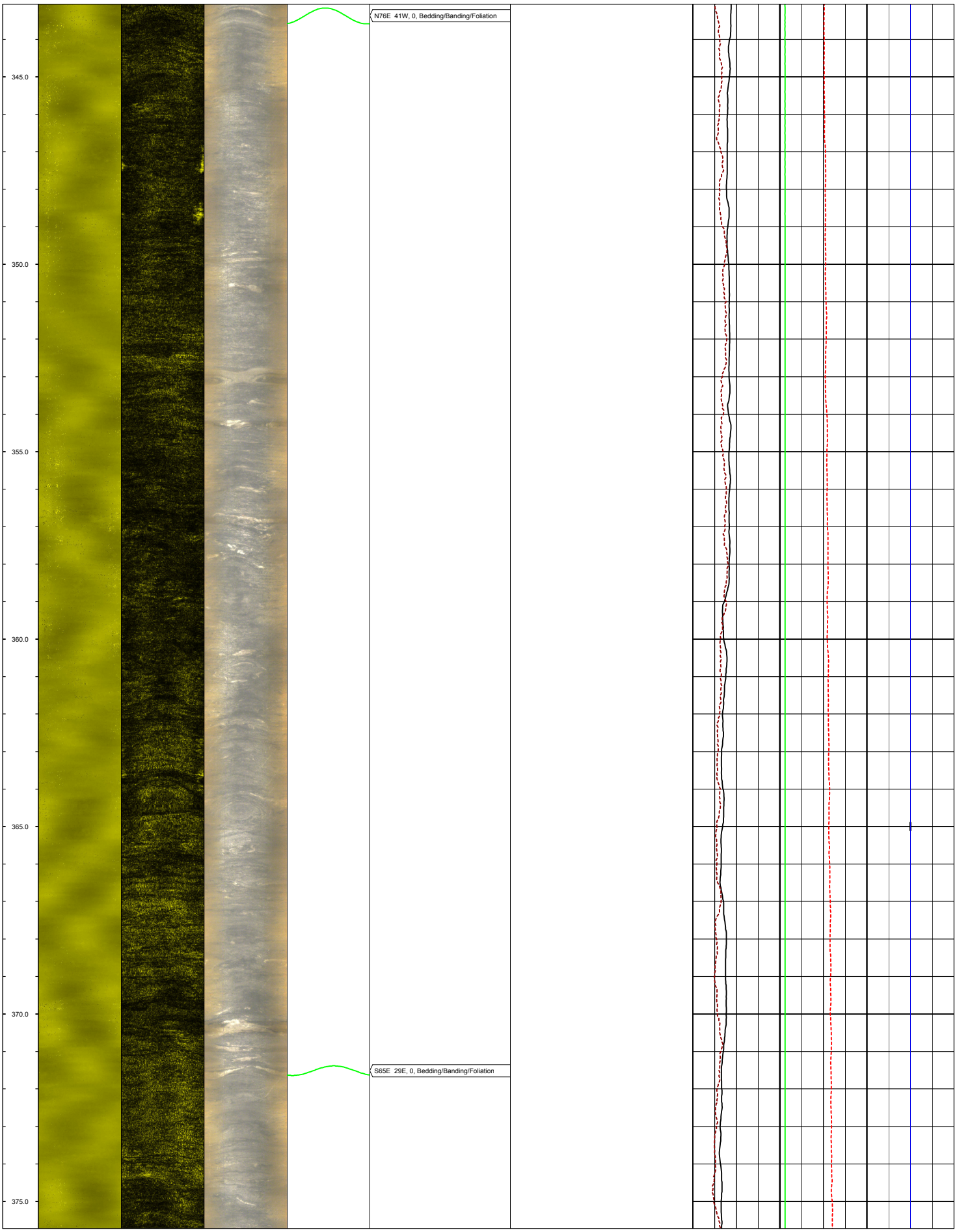

180.0
185.0
190.0
195.0
200.0
205.0
210.0
S60E 15E, 0, Bedding/Banding/Foliation
N73E 18W, 0, Bedding/Banding/Foliation
N83E 28W, 0, Bedding/Banding/Foliation
N58E 29W, 0, Bedding/Banding/Foliation
N68E 44W, 0, Bedding/Banding/Foliation
N62E 33W, 0, Bedding/Banding/Foliation
N78E 67W, 0, Minor Open Joint/Fracture

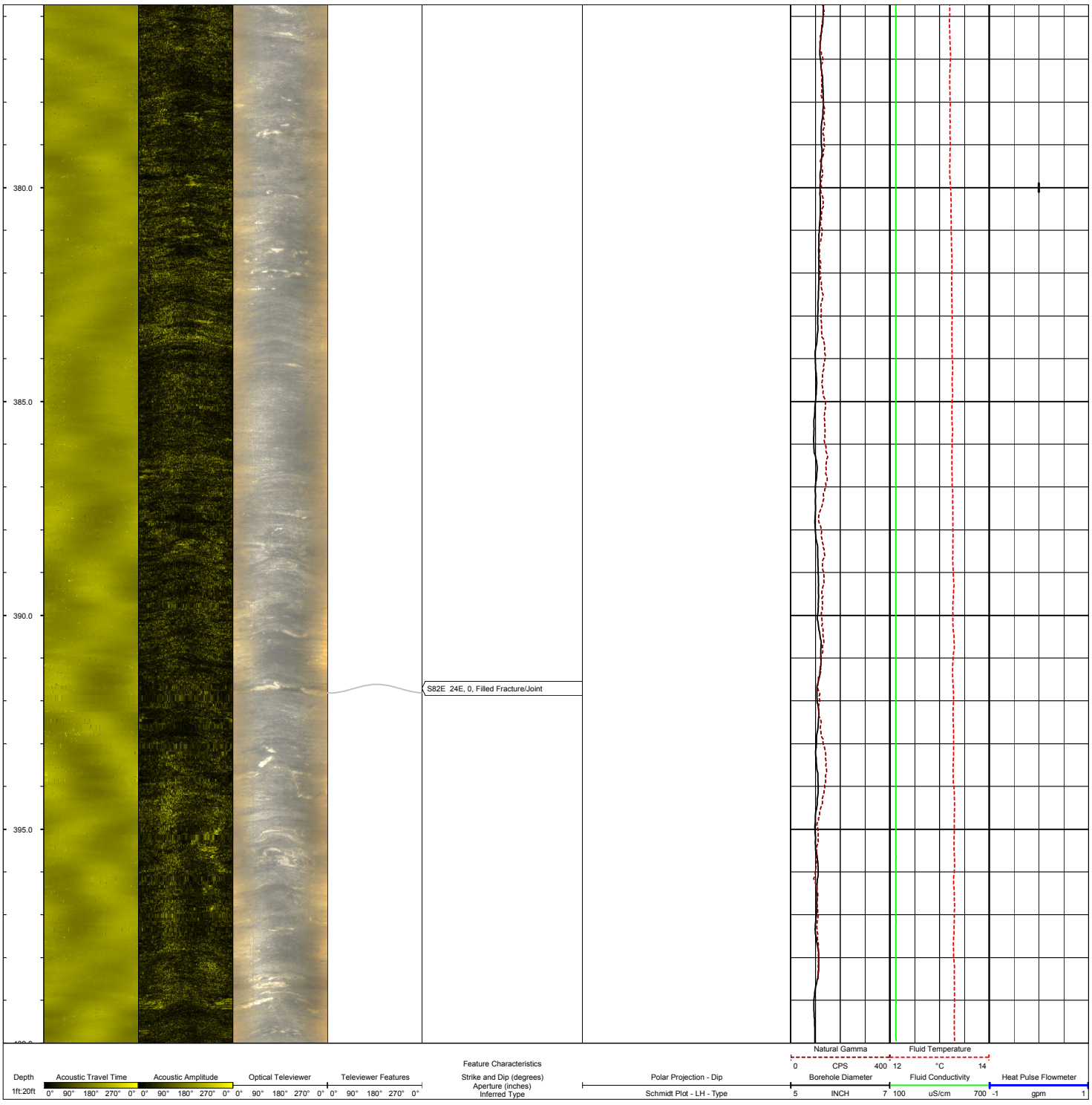

215.0
220.0
225.0
230.0
235.0
240.0
245.0
N59E 39W, 0, Bedding/Banding/Foliation
N36E 13W, 0, Minor Open Joint/Fracture
N16E 19W, 0, Bedding/Banding/Foliation
N55E 41W, 0, Bedding/Banding/Foliation
N45E 48W, 0, Bedding/Banding/Foliation
N73E 39W, 0, Bedding/Banding/Foliation
S89E 16E, 0, Bedding/Banding/Foliation
N52E 35W, 0, Bedding/Banding/Foliation
N30E 31W, 0, Bedding/Banding/Foliation
Schmidt Plot - LH - Type
Depth: 55.00 [ft] to 400.00 [ft]
0°
75
60
45
30
15
15-30-45-60-75
180°
Counts Dip[deg] Azi[deg]
Mean 40 29.44 329.86
33 27.34 329.10
3 42.76 340.98
2 46.26 315.67
2 38.74 340.06


250.0
255.0
260.0
265.0
270.0
275.0
N69E 25W, 0, Bedding/Banding/Foliation
N45E 13W, 0, Bedding/Banding/Foliation
N11E 29W, 0, Bedding/Banding/Foliation
N45E 19W, 0, Bedding/Banding/Foliation


N8E 26W, 0, Bedding/Banding/Foliation
N50E 31W, 0, Partially Open Joint/Fracture
N28E 27W, 0, Bedding/Banding/Foliation
N58E 28W, 0, Bedding/Banding/Foliation
280.0
285.0
290.0
295.0
300.0
305.0
310.0


315.0
320.0
325.0
330.0
335.0
340.0
N63E 72W, 0, Filled Fracture/Joint
N74E 40W, 0, Bedding/Banding/Foliation


N76E 41W, 0, Bedding/Banding/Foliation
345.0
350.0
355.0
360.0
365.0
370.0
S65E 29E, 0, Bedding/Banding/Foliation
375.0


380.0
385.0
390.0
395.0
S82E 24E, 0, Filled Fracture/Joint
Natural Gamma
Fluid Temperature
0
CPS
400
12
°C
14
Depth
1ft:20ft
Acoustic Travel Time
Acoustic Amplitude
Optical Televiewer
Televiewer Features
0° 90° 180° 270° 0° 0° 90° 180° 270° 0° 0° 90° 180° 270° 0° 0° 90° 180° 270° 0°
Feature Characteristics
Strike and Dip (degrees)
Aperture (inches)
Inferred Type
Polar Projection - Dip
Schmidt Plot - LH - Type
Borehole Diameter
5
INCH
7
Fluid Conductivity
100
uS/cm
700
Heat Pulse Flowmeter
-1
gpm
1

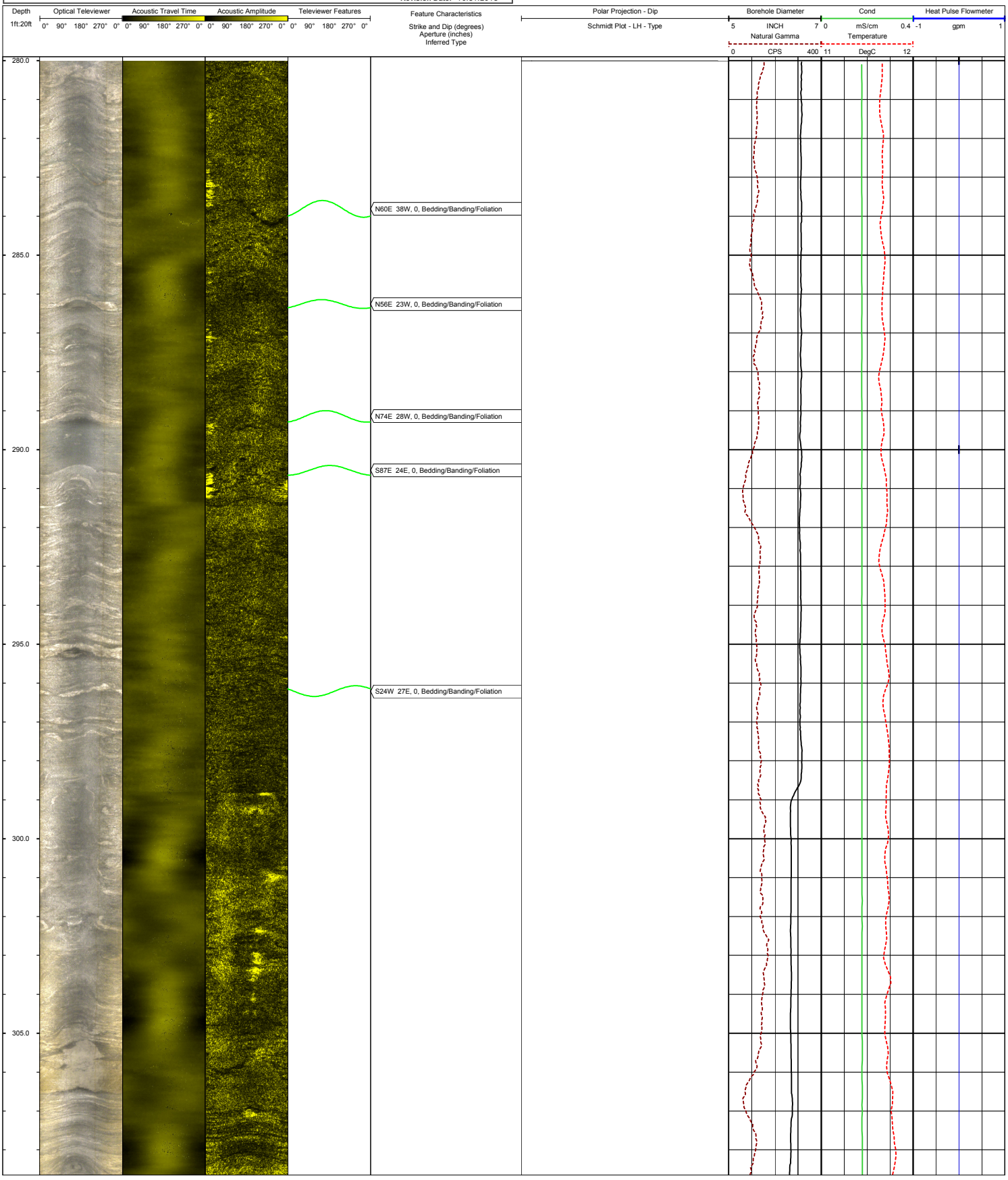
Mid-Atlantic Geosciences

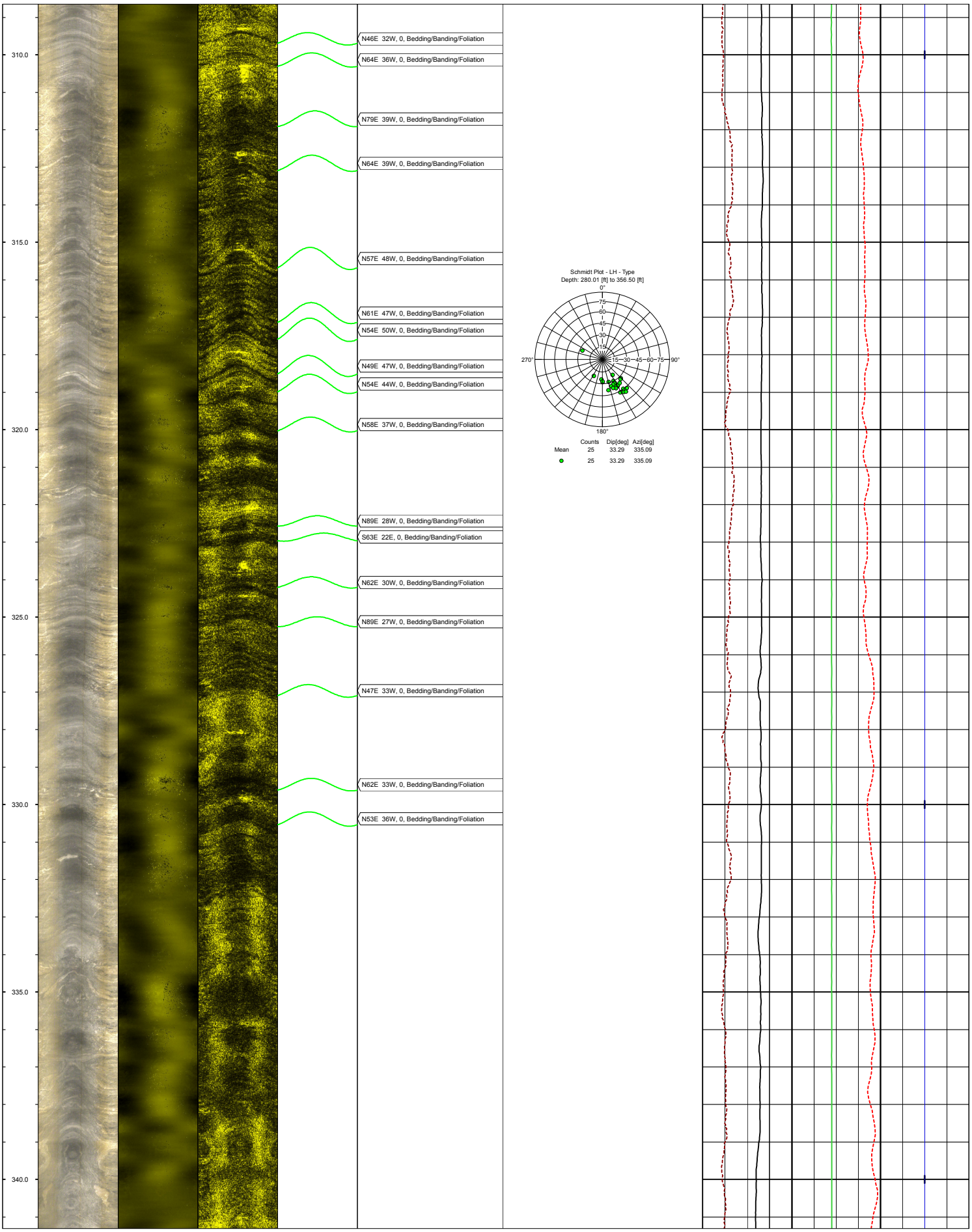
Title: *Borehole Geophysical Logging Program*

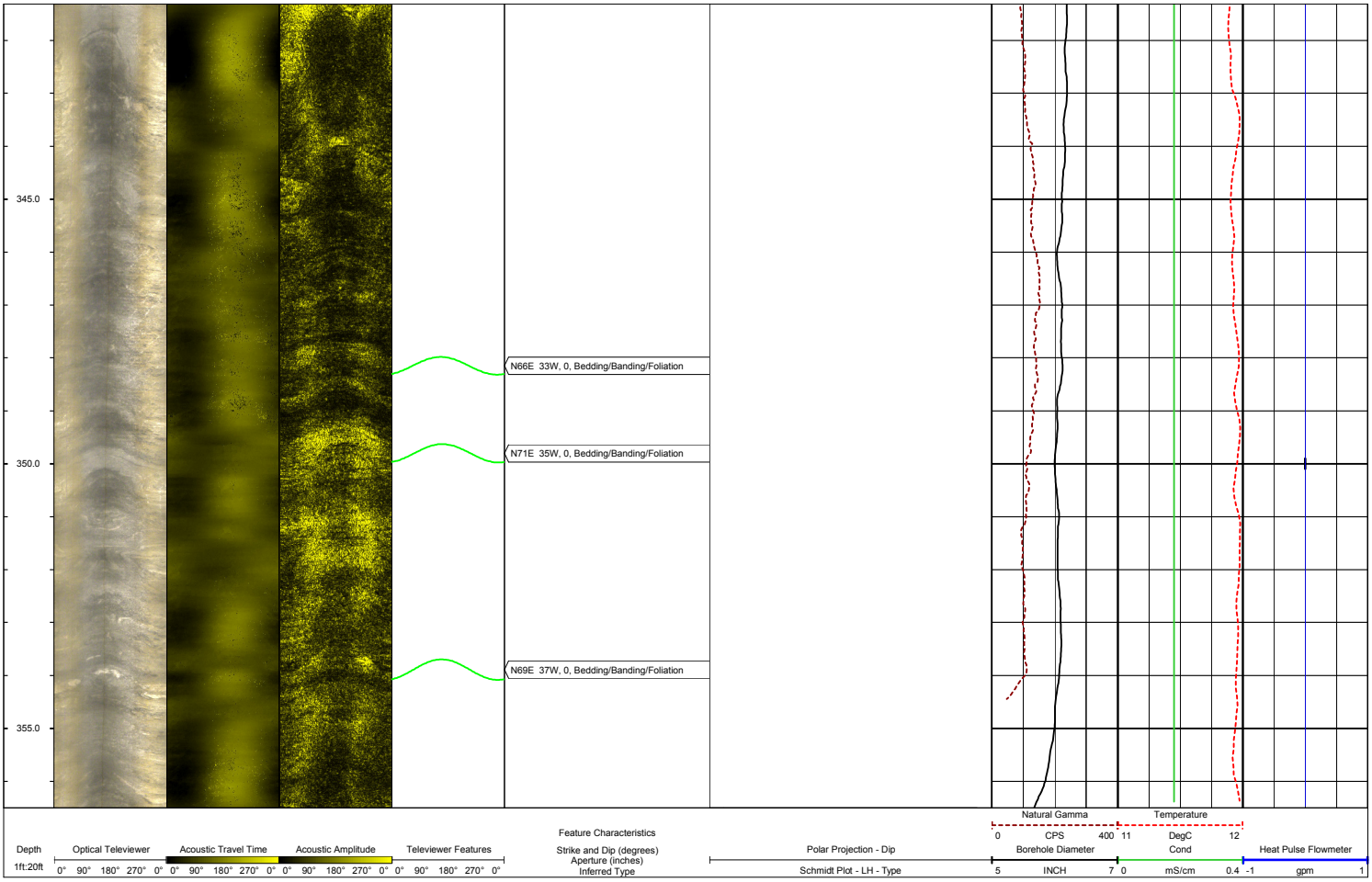
WELL ID *MW-131C*

Logging Date: *10.31.2013*
Logging Datum: *Top of Casing*
BOC: *N/A* **DTW:** *9.48'* **TD:** *356.5'*

Site Name:
Location: *Phoenix, MD*
Client: *Kleinfelder*
Project No.: *081325*
Revision Date: *10.31.2013*




310.0
315.0
320.0
325.0
330.0
335.0
340.0
N46E 32W, 0, Bedding/Banding/Foliation
N64E 36W, 0, Bedding/Banding/Foliation
N79E 39W, 0, Bedding/Banding/Foliation
N64E 39W, 0, Bedding/Banding/Foliation
N57E 48W, 0, Bedding/Banding/Foliation
N61E 47W, 0, Bedding/Banding/Foliation
N54E 50W, 0, Bedding/Banding/Foliation
N49E 47W, 0, Bedding/Banding/Foliation
N54E 44W, 0, Bedding/Banding/Foliation
N58E 37W, 0, Bedding/Banding/Foliation
N89E 28W, 0, Bedding/Banding/Foliation
S63E 22E, 0, Bedding/Banding/Foliation
N62E 30W, 0, Bedding/Banding/Foliation
N89E 27W, 0, Bedding/Banding/Foliation
N47E 33W, 0, Bedding/Banding/Foliation
N62E 33W, 0, Bedding/Banding/Foliation
N53E 36W, 0, Bedding/Banding/Foliation
Schmidt Plot - LH - Type
Depth: 280.01 [ft] to 356.50 [ft]
0°
75
60
45
30
15
270°
15
30
45
60
75
90°
180°
Counts Dip[deg] Azi[deg]
Mean 25 33.29 335.09
25 33.29 335.09


345.0
350.0
355.0
N66E 33W, 0, Bedding/Banding/Foliation
N71E 35W, 0, Bedding/Banding/Foliation
N69E 37W, 0, Bedding/Banding/Foliation
Natural Gamma
Temperature
0 CPS 400 11 DegC 12
Depth
1ft:20ft
Optical Televiewer
Acoustic Travel Time
Acoustic Amplitude
Televiewer Features
0° 90° 180° 270° 0° 0° 90° 180° 270° 0° 0° 90° 180° 270° 0° 0° 90° 180° 270° 0°
Feature Characteristics
Strike and Dip (degrees)
Aperture (inches)
Inferred Type
Polar Projection - Dip
Schmidt Plot - LH - Type
Borehole Diameter
5 INCH 7
Cond
0 mS/cm 0.4
Heat Pulse Flowmeter
-1 gpm 1

Appendix A

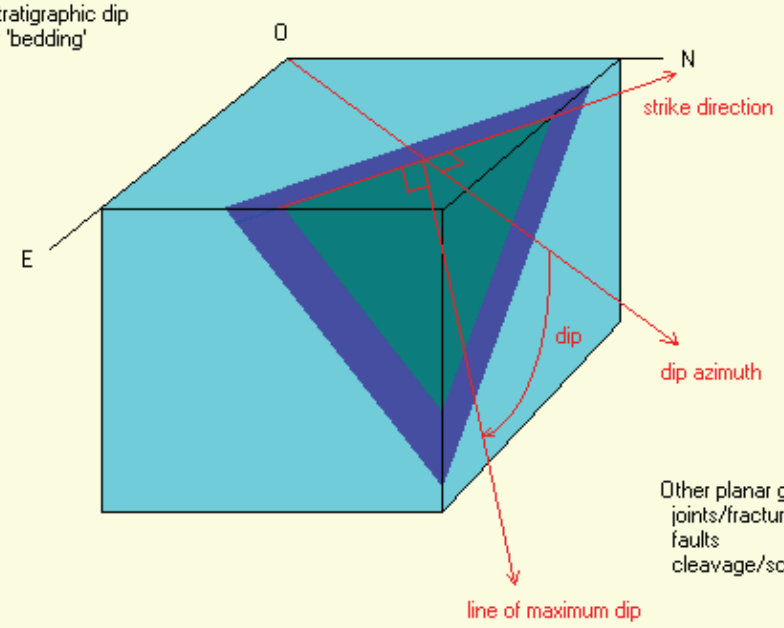
Planar Feature Orientation Parameters

Planar Feature Orientation Parameters

Dip = angle of inclination of the plane, downwards from the horizontal
Dip azimuth = azimuth of the line of maximum dip in the plane, clockwise from North
Strike direction = azimuth of a horizontal line in the plane (= dip azimuth – 90°)

e.g. dip and dip azimuth = 60° N041° or strike and dip = N311° 60°

e.g. Stratigraphic dip
or 'bedding'



Other planar geologic features include
joints/fractures/veins
faults
cleavage/schistosity

Appendix B

Planar Feature Characterization

Planar Feature Characterizations

▲ Broken Zone/Undifferentiated

● Major Open Joint/Fracture

● Minor Open Joint/Fracture

● Partially Open Joint/Fracture

● Filled Fracture/Joint

● Bedding/Banding/Foliation

Appendix C

Planar Feature Characterizations Table

Mid-Atlantic Geosciences
Planar Feature Characterizations

Well ID:	**MW-48D**	**Client:**	**Kleinfelder**
Site Name:		**Project No.:**	**081325**
Location:	**Phoenix, MD**	**Revision Date:**	**12.06.2013**

Depth	Aperture (in.)	Dip Azimuth (deg.)	Strike (deg.)	Dip (deg.)	Feature Type
60.5	0.0	333	N63E	42W	Bedding/Banding/Foliation
69.7	0.0	351	N81E	23W	Bedding/Banding/Foliation
76.6	0.0	289	N19E	36W	Bedding/Banding/Foliation
77.1	0.0	320	N50E	33W	Bedding/Banding/Foliation
78.9	0.0	331	N61E	29W	Bedding/Banding/Foliation
79.3	0.0	331	N61E	40W	Bedding/Banding/Foliation
79.9	4.4	336	N66E	38W	Filled Fracture/Joint
84.5	0.0	344	N74E	37W	Bedding/Banding/Foliation
122.6	0.0	313	N43E	61W	Partially Open Joint/Fracture
133.8	0.0	16	S74E	18E	Bedding/Banding/Foliation
166.3	0.0	172	S82W	11E	Bedding/Banding/Foliation
191.1	0.0	30	S60E	15E	Bedding/Banding/Foliation
193.3	0.0	343	N73E	18W	Bedding/Banding/Foliation
200.3	0.0	353	N83E	28W	Bedding/Banding/Foliation
207.0	0.0	328	N58E	29W	Bedding/Banding/Foliation
208.1	0.0	338	N68E	44W	Bedding/Banding/Foliation
209.8	0.0	332	N62E	33W	Bedding/Banding/Foliation
210.4	0.0	348	N78E	67W	Minor Open Joint/Fracture
213.4	0.0	329	N59E	39W	Bedding/Banding/Foliation
220.4	0.0	306	N36E	13W	Minor Open Joint/Fracture
220.6	0.0	286	N16E	19W	Bedding/Banding/Foliation
225.6	0.0	325	N55E	41W	Bedding/Banding/Foliation
228.5	0.0	315	N45E	48W	Bedding/Banding/Foliation
232.8	0.0	343	N73E	39W	Bedding/Banding/Foliation
235.4	0.0	1	S89E	16E	Bedding/Banding/Foliation
237.4	0.0	322	N52E	35W	Bedding/Banding/Foliation
240.5	0.0	300	N30E	31W	Bedding/Banding/Foliation
248.0	0.0	339	N69E	25W	Bedding/Banding/Foliation

255.5	0.0	315	N45E	13W	Bedding/Banding/Foliation
275.8	0.0	281	N11E	29W	Bedding/Banding/Foliation
276.5	0.0	315	N45E	19W	Bedding/Banding/Foliation
278.2	0.0	278	N8E	26W	Bedding/Banding/Foliation
284.2	0.0	320	N50E	31W	Partially Open Joint/Fracture
285.3	0.0	298	N28E	27W	Bedding/Banding/Foliation
299.3	0.0	328	N58E	28W	Bedding/Banding/Foliation
318.9	0.0	333	N63E	72W	Filled Fracture/Joint
324.5	0.0	344	N74E	40W	Bedding/Banding/Foliation
343.4	0.0	346	N76E	41W	Bedding/Banding/Foliation
371.5	0.0	25	S65E	29E	Bedding/Banding/Foliation
391.7	0.0	8	S82E	24E	Filled Fracture/Joint

Mid-Atlantic Geosciences
Planar Feature Characterizations

Well ID:	**MW-131C**	**Client:**	**Kleinfelder**
Site Name:		**Project No.:**	**081325**
Location:	**Phoenix, MD**	**Revision Date:**	**12.06.2013**

Depth	Aperture (in.)	Dip Azimuth (deg.)	Strike (deg.)	Dip (deg.)	Feature Type
283.8	0.0	330	N60E	38W	Bedding/Banding/Foliation
286.3	0.0	326	N56E	23W	Bedding/Banding/Foliation
289.1	0.0	344	N74E	28W	Bedding/Banding/Foliation
290.5	0.0	3	S87E	24E	Bedding/Banding/Foliation
296.2	0.0	114	S24W	27E	Bedding/Banding/Foliation
309.6	0.0	316	N46E	32W	Bedding/Banding/Foliation
310.1	0.0	334	N64E	36W	Bedding/Banding/Foliation
311.7	0.0	349	N79E	39W	Bedding/Banding/Foliation
312.9	0.0	334	N64E	39W	Bedding/Banding/Foliation
315.4	0.0	327	N57E	48W	Bedding/Banding/Foliation
316.9	0.0	331	N61E	47W	Bedding/Banding/Foliation
317.3	0.0	324	N54E	50W	Bedding/Banding/Foliation
318.3	0.0	319	N49E	47W	Bedding/Banding/Foliation
318.8	0.0	324	N54E	44W	Bedding/Banding/Foliation
319.9	0.0	328	N58E	37W	Bedding/Banding/Foliation
322.4	0.0	359	N89E	28W	Bedding/Banding/Foliation
322.9	0.0	27	S63E	22E	Bedding/Banding/Foliation
324.1	0.0	332	N62E	30W	Bedding/Banding/Foliation
325.1	0.0	359	N89E	27W	Bedding/Banding/Foliation
327.0	0.0	317	N47E	33W	Bedding/Banding/Foliation
329.5	0.0	332	N62E	33W	Bedding/Banding/Foliation
330.4	0.0	323	N53E	36W	Bedding/Banding/Foliation
348.2	0.0	336	N66E	33W	Bedding/Banding/Foliation
349.8	0.0	341	N71E	35W	Bedding/Banding/Foliation
353.9	0.0	339	N69E	37W	Bedding/Banding/Foliation

Appendix D

Deviation Plots

Mid-Atlantic Geosciences

a division of ENVIROSCAN, INC.

Title: *Borehole Deviation (Bulls Eye Plot)*

WELL ID	Logging Date:	Logging Datum:	BOC:	DTW:	TD:
MW-48D	*11.05.2013*	*Top of Casing*	*53.9'*	*35'*	*400'*

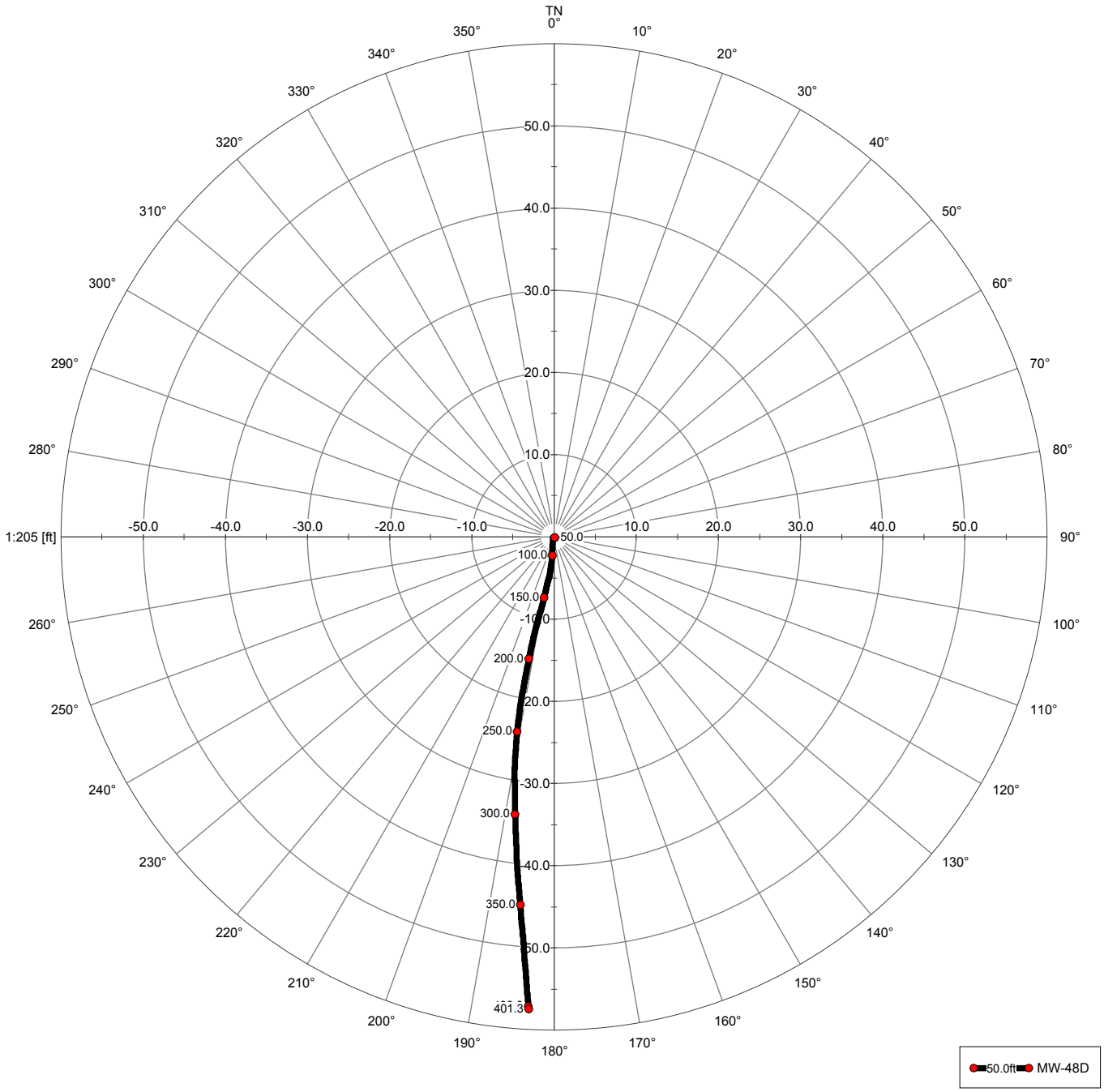
Site Name:

Location: *Phoenix, MD*

Client: *Kleinfelder*

Project No.: *081325b*

Revision Date: *12.06.2013*



Mid-Atlantic Geosciences

Title: ***Borehole Deviation (Bulls Eye Plot)***

WELL ID			
MW-131C	**Logging Date:** *10.31.2013*		
	Logging Datum: *Top of Casing*		
	BOC: *N/A*	**DTW:** *9.48'*	**TD:** *356.5'*

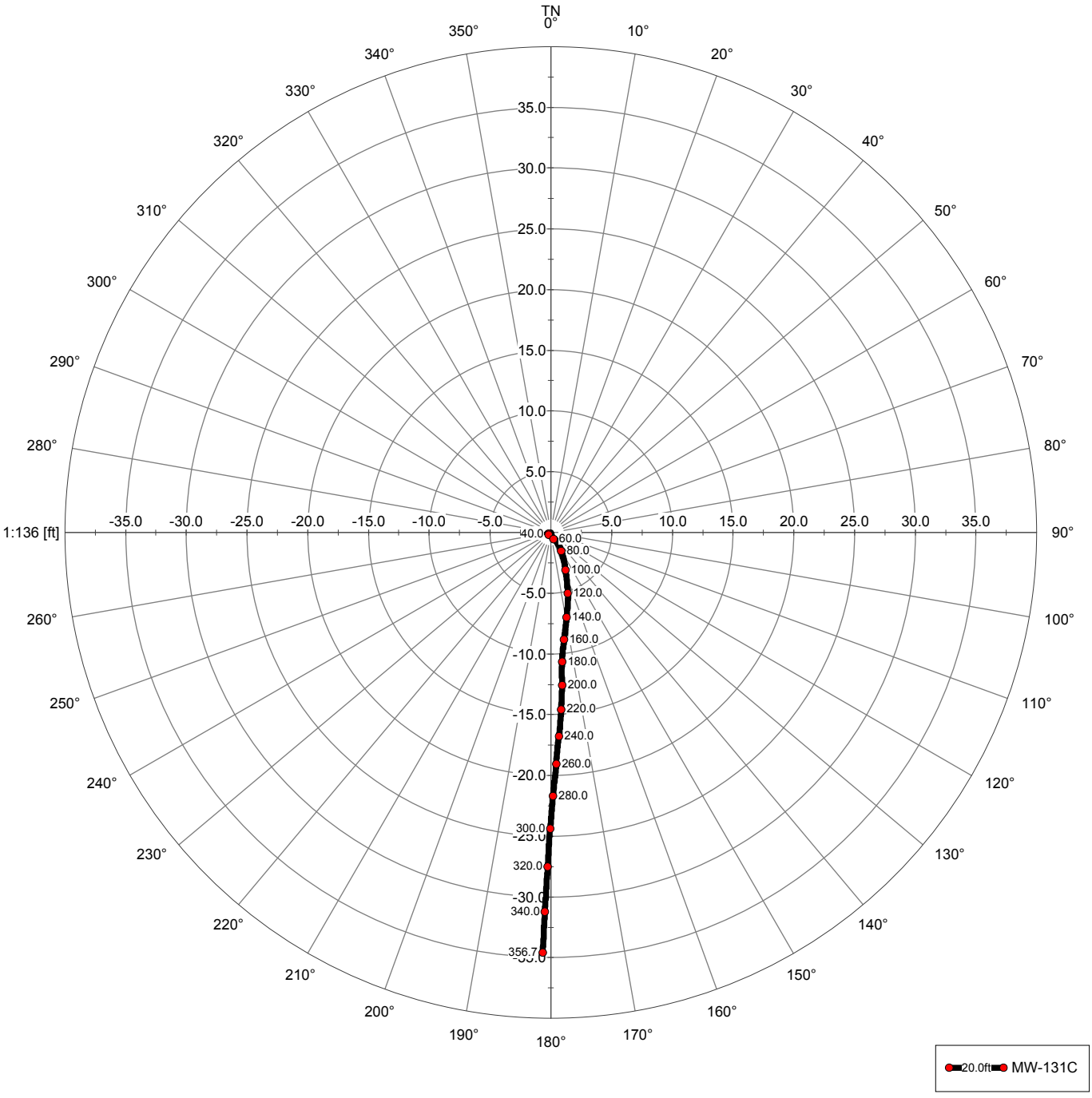
Site Name:

Location: *Phoenix, MD*

Client: *Kleinfelder*

Project No.: *081325*

Revision Date: *10.31.2013*



APPENDIX D

C 1 | 2069 (MDE USE ONLY)

1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

STATE OF MARYLAND
WELL COMPLETION REPORT

FILL IN THIS FORM COMPLETELY
PLEASE TYPE

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

COUNTY NUMBER

ST/CO USE ONLY
DATE Received MM DD YY
8 13

DATE WELL COMPLETED MM DD YY: 7 12 13 (15 20)

Depth of Well: 22 125 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL": BA - 10 - 0275 (28 29 30 31 32 33 34 35 36 37)

OWNER Exxon Mobil Corp

WELL SITE ADDRESS 14258 (last name) Jarrettsville Pike (first name) TOWN Phoenix

SUBDIVISION SECTION LOT

KR130060 WELL LOG
Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET FROM	FEET TO	check if water bearing
OVB	0	8	
Weath schist	8	37	
schist	37	60	
schist	60	125	

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED: yes [Y] no [N]

CIRCLE APPROPRIATE LETTER
- A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED
- E ELECTRIC LOG OBTAINED
- P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO.: MWD552
Kevin Pluright
DRILLERS SIGNATURE
(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO.: ___ D ___

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box): yes [Y] (44) no [N] (44)

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT [CM] (45 46) BENTONITE CLAY [BC] (45 46)

NO. OF BAGS 20 NO. OF POUNDS 1980

GALLONS OF WATER 120

DEPTH OF GROUT SEAL (to nearest foot)

from 1 (48 TOP 52) ft. to 60 (54 BOTTOM 58) ft.

(enter 0 if from surface)

CASING RECORD

casing types insert appropriate code below

[ST] STEEL [CO] CONCRETE [PL] PLASTIC [OT] OTHER

MAIN CASING TYPE	Nominal diameter top (main) casing (nearest inch)!	Total depth of main casing (nearest foot)
ST (60 61)	6 (63 64)	60 (66 70)

OTHER CASING (if used)

EACH CASING	diameter inch	depth (feet) from	depth (feet) to

SCREEN RECORD

screen type or open hole — insert appropriate code below

[ST] STEEL [BR] BRASS BRONZE [HO] OPEN HOLE [PL] PLASTIC [OT] OTHER

C 2 (1 2)

DEPTH (nearest ft.)

EACH SCREEN		from	to
1	HO (8 9)	60 (11 15)	125 (17 21)
2	(23 24)	(26 30)	(32 36)
3	(38 39)	(41 45)	(47 51)

SLOT SIZE 1 ___ 2 ___ 3 ___

DIAMETER OF SCREEN ___ (56 60) (NEAREST INCH)

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 (68)

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)

T (70) (E.R.O.S.) (72) W Q

TELESCOPE CASING | LOG INDICATOR | (74 75 76) OTHER DATA

C 3 (1 2)

PUMPING TEST N/A

HOURS PUMPED (nearest hour) ___ (8 9)

PUMPING RATE (gal. per min.) ___ (11 15)

METHOD USED TO MEASURE PUMPING RATE ___

WATER LEVEL (distance from land surface)

BEFORE PUMPING ___ ft. (17 20)

WHEN PUMPING ___ ft. (22 25)

TYPE OF PUMP USED (for test)

[A] air (27) [P] piston (27) [T] turbine (27)

[C] centrifugal (27) [R] rotary (27) [O] other (describe below) (27)

[J] jet (27) [S] submersible (27)

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES NO

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. ___ (29) N/A

CAPACITY: GALLONS PER MINUTE (to nearest gallon) ___ (31 35)

PUMP HORSE POWER ___ (37 41)

PUMP COLUMN LENGTH (nearest ft.) ___ (43 47)

CASING HEIGHT (circle appropriate box and enter casing height)

[+] above (49) / [−] below (49) LAND SURFACE

___ (nearest foot) (50 51)

LATITUDE 39.518405
LONGITUDE 76.559612
(DEFAULT COORD. WGS 84)
NOTES:

IN COLS. 3-6 ON ALL CARDS)

ST/CO USE ONLY
DATE Received MM DD YY 8 13

DATE WELL COMPLETED MM DD YY 8 18 13 (15 20)

Depth of Well 22 424 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" BA-95-3570 (28 29 30 31 32 33 34 35 36 37)

OWNER Hayes (last name) Christian & Ella (first name)

WELL SITE ADDRESS 14307 Jarrettsville TOWN Phoenix

SUBDIVISION _____ SECTION _____ LOT _____

WELL LOG

KR13060 Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET FROM	FEET TO	check if water bearing
Deepen Existing well from 300' to 424'			
Schist	300	424	

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED yes Y no N

CIRCLE APPROPRIATE LETTER

- A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED
- E ELECTRIC LOG OBTAINED
- P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. MW D552

Kevin P Weigle
DRILLERS SIGNATURE
(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. __ __ D __ __ __

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) yes Y 44 no N 44

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT CM 45 46 BENTONITE CLAY BC 45 46

NO. OF BAGS _____ NO. OF POUNDS _____

GALLONS OF WATER _____

DEPTH OF GROUT SEAL (to nearest foot)

from _____ ft. (48 TOP 52) to _____ ft. (54 BOTTOM 58)

(enter 0 if from surface)

CASING RECORD

casing types insert appropriate code below

ST STEEL, CO CONCRETE, PL PLASTIC, OT OTHER

MAIN CASING TYPE	Nominal diameter top (main) casing (nearest inch)	Total depth of main casing (nearest foot)
ST (60 61)	10 (63 64)	(66 70)

OTHER CASING (if used)

EACH CASING	diameter inch	depth (feet) from	to

SCREEN RECORD

screen type or open hole insert appropriate code below

ST STEEL, BR BRASS BRONZE, HO OPEN HOLE, PL PLASTIC, OT OTHER

C 2 (1 2)

DEPTH (nearest ft.)

EACH SCREEN			
1	HO (8 9)	(11 15)	424 (17 21)
2	(23 24)	(26 30)	(32 36)
3	(38 39)	(41 45)	(47 51)

SLOT SIZE 1 _____ 2 _____ 3 _____

DIAMETER OF SCREEN _____ (NEAREST INCH) (56 60)

	from	to
GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68		

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)

T (E.R.O.S.) W Q

70 TELESCOPE CASING 72 LOG INDICATOR 74 75 76 OTHER DATA

C 3 (1 2)

PUMPING TEST N/A

HOURS PUMPED (nearest hour) _____ (8 9)

PUMPING RATE (gal. per min.) _____ (11 15)

METHOD USED TO MEASURE PUMPING RATE _____

WATER LEVEL (distance from land surface)

BEFORE PUMPING _____ ft. (17 20)

WHEN PUMPING _____ ft. (22 25)

TYPE OF PUMP USED (for test)

A air, P piston, T turbine, C centrifugal, R rotary, O other (describ below), J jet, S submersible (27)

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES NO

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. N/A (29)

CAPACITY: GALLONS PER MINUTE (to nearest gallon) _____ (31 3)

PUMP HORSE POWER _____ (37 4)

PUMP COLUMN LENGTH (nearest ft.) _____ (43 4)

CASING HEIGHT (circle appropriate box and enter casing height)

+ above, − below (49) LAND SURFACE _____ (nearest foot) (50 51)

LATITUDE 39.518712
LONGITUDE 76.558398
(DEFAULT COORD. WGS 84)
NOTES:

MDE/WMA/PER.071

ORIGINAL

1 2 3 6
(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

FILL IN THIS FORM COMPLETELY
PLEASE TYPE

COUNTY NUMBER

ST/CO USE ONLY
DATE Received
MM DD YY
8 13

DATE WELL COMPLETED
MM DD YY
10 2 13
15 20

Depth of Well
22 403 26
(TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL"
BA - 10 - 0360
28 29 30 31 32 33 34 35 36 37

OWNER Baltimore City
WELL SITE ADDRESS Hampshire Glen Ct (Cul-De-Sac) TOWN Phoenix
(last name / first name)
SUBDIVISION SECTION LOT

WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET FROM	FEET TO	check if water bearing
OVB	0	7	
weathered schist	7	31	
schist	31	403	

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED yes Y no N

CIRCLE APPROPRIATE LETTER
- A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED
- E ELECTRIC LOG OBTAINED
- P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. MWD552
Kevin P Weigle
DRILLERS SIGNATURE
(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. __ __ D __ __ __

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) yes Y no N (44)

TYPE OF GROUTING MATERIAL (Circle one)
CEMENT CM BENTONITE CLAY BC (45 46)

NO. OF BAGS 18 NO. OF POUNDS 1692 (45 46)

GALLONS OF WATER 108

DEPTH OF GROUT SEAL (to nearest foot)
from 1 (48) ft. TOP (52) to 55 (54) ft. BOTTOM (58)
(enter 0 if from surface)

CASING RECORD

casing types insert appropriate code below

ST STEEL | CO CONCRETE | PL PLASTIC | OT OTHER

MAIN CASING TYPE	Nominal diameter top (main) casing (nearest inch)!	Total depth of main casing (nearest foot)
ST (60 61)	6 (63 64)	55 (66 70)

OTHER CASING (if used)

EACH CASING	diameter inch	depth (feet) from	depth (feet) to

SCREEN RECORD

screen type or open hole — insert appropriate code below

ST STEEL | BR BRASS BRONZE | HO OPEN HOLE | PL PLASTIC | OT OTHER

C 2 (1 2)

DEPTH (nearest ft.)

EACH SCREEN		from	to
1	HO (8 9)	55 (11 15)	403 (17 21)
2	(23 24)	(26 30)	(32 36)
3	(38 39)	(41 45)	(47 51)

SLOT SIZE 1 ____ 2 ____ 3 ____

DIAMETER OF SCREEN ____ (NEAREST INCH) (56 60)

GRAVEL PACK from ____ to ____

IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 (68)

MDE USE ONLY
(NOT TO BE FILLED IN BY DRILLER)
T (E.R.O.S.) W Q

70 ____ TELESCOPE CASING
72 ____ LOG INDICATOR
74 75 76 ____ OTHER DATA

C 3 (1 2)

PUMPING TEST

HOURS PUMPED (nearest hour) N/A (8 9)

PUMPING RATE (gal. per min.) ____ (11 15)

METHOD USED TO MEASURE PUMPING RATE ____

WATER LEVEL (distance from land surface)

BEFORE PUMPING ____ ft. (17 20)

WHEN PUMPING ____ ft. (22 25)

TYPE OF PUMP USED (for test)
- A air (27)
- P piston (27)
- T turbine (27)
- C centrifugal (27)
- R rotary (27)
- O other (describe below) (27)
- J jet (27)
- S submersible (27)

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES NO

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. N/A (29)

CAPACITY: GALLONS PER MINUTE (to nearest gallon) ____ (31 35)

PUMP HORSE POWER ____ (37 41)

PUMP COLUMN LENGTH (nearest ft.) ____ (43 47)

CASING HEIGHT (circle appropriate box and enter casing height)
+ above (49) / – below (49) LAND SURFACE
____ (nearest foot) (50 51)

LATITUDE 39.518987
LONGITUDE 76.556177
(DEFAULT COORD. WGS 84)
NOTES:

MDE/WMA/PER.071

ORIGINAL

1 2 3 6
(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

WELL COMPLETION REPORT

FILL IN THIS FORM COMPLETELY
PLEASE TYPE

COUNTY NUMBER

ST/CO USE ONLY
DATE Received MM DD YY
8 13

DATE WELL COMPLETED
MM DD YY
10 8 13
15 20

Depth of Well
22 359 26
(TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL"
BA - 95 - 2076
28 29 30 31 32 33 34 35 36 37

OWNER Exxon Mobil Corp
last name first name

WELL SITE ADDRESS Southside Ave TOWN Phoenix

SUBDIVISION SECTION LOT

WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET FROM	FEET TO	check if water bearing
Deepened Existing well from 300' to 359'			
Blue Schist	300	359	

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED yes Y / no N

CIRCLE APPROPRIATE LETTER

A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED
E ELECTRIC LOG OBTAINED
P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO.: MD 552

Kevin P Weigle
DRILLERS SIGNATURE
(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO.: __ __ D __ __ __

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) yes Y / no N (44 44)

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT C M (45 46) BENTONITE CLAY B C (45 46)

NO. OF BAGS _____ NO. OF POUNDS _____

GALLONS OF WATER _____

DEPTH OF GROUT SEAL (to nearest foot)

from _____ (48 TOP 52) ft. to _____ (54 BOTTOM 58) ft.

(enter 0 if from surface)

CASING RECORD

casing types insert appropriate code below

S T STEEL | C O CONCRETE | P L PLASTIC | O T OTHER

MAIN CASING TYPE	Nominal diameter top (main) casing (nearest inch)!	Total depth of main casing (nearest foot)
ST (60 61)	6 (63 64)	60 (66 70)

OTHER CASING (if used)

EACH CASING	diameter inch	depth (feet) from	depth (feet) to

SCREEN RECORD

screen type or open hole insert appropriate code below

S T STEEL | B R BRASS BRONZE | H O OPEN HOLE | P L PLASTIC | O T OTHER

C 2 (1 2)

DEPTH (nearest ft.)

EACH SCREEN		from	to
1	HO (8 9)	(11 15)	(17 21)
2	(23 24)	(26 30)	(32 36)
3	(38 39)	(41 45)	(47 51)

SLOT SIZE 1 _____ 2 _____ 3 _____

DIAMETER OF SCREEN _____ (56 60) (NEAREST INCH)

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 (68)

MDE USE ONLY
(NOT TO BE FILLED IN BY DRILLER)

T (E.R.O.S.) W Q

70 ___ TELESCOPE CASING
72 ___ LOG INDICATOR
74 75 76 OTHER DATA

C 3 (1 2)

PUMPING TEST N/A

HOURS PUMPED (nearest hour) _____ (8 9)

PUMPING RATE (gal. per min.) _____ (11 15)

METHOD USED TO MEASURE PUMPING RATE _____

WATER LEVEL (distance from land surface)

BEFORE PUMPING _____ (17 20) ft.

WHEN PUMPING _____ (22 25) ft.

TYPE OF PUMP USED (for test)

A air (27) | P piston (27) | T turbine (27)
C centrifugal (27) | R rotary (27) | O other (describe below) (27)
J jet (27) | S submersible (27)

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES NO

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. N/A (29)

CAPACITY: GALLONS PER MINUTE (to nearest gallon) _____ (31 35)

PUMP HORSE POWER _____ (37 41)

PUMP COLUMN LENGTH (nearest ft.) _____ (43 47)

CASING HEIGHT (circle appropriate box and enter casing height)

+ above (49) / – below (49) LAND SURFACE

_____ (nearest foot) (50 51)

LATITUDE 39.520005
LONGITUDE 76.552824
(DEFAULT COORD. WGS 84)
NOTES:

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

FILL IN THIS FORM COMPLETELY PLEASE TYPE

COUNTY NUMBER

ST/CO USE ONLY
DATE Received MM DD YY

DATE WELL COMPLETED MM 7 DD 29 YY 13

Depth of Well 397 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" BA - 95 - 3208

OWNER Exxon Mobil Corp (last name / first name)

WELL SITE ADDRESS 14335 Jarrettsville Pike TOWN Phoenix

SUBDIVISION ____ SECTION ____ LOT ____

KR13060 **WELL LOG**
Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET FROM	FEET TO	check if water bearing
Deepened existing well from 300' to 397'			
Schist	300	397	

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED: yes [Y] no [N]

CIRCLE APPROPRIATE LETTER
- A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED
- E ELECTRIC LOG OBTAINED
- P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO.: MWD552
Kevin Pluleigh
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO.: __ __ D __ __ __

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

GROUTING RECORD
WELL HAS BEEN GROUTED (Circle Appropriate Box) yes [Y] no [N]
TYPE OF GROUTING MATERIAL (Circle one)
CEMENT [C M] BENTONITE CLAY [B C]
NO. OF BAGS ____ NO. OF POUNDS ____
GALLONS OF WATER ____
DEPTH OF GROUT SEAL (to nearest foot)
from ____ ft. to ____ ft.
(enter 0 if from surface)

CASING RECORD
casing types insert appropriate code below
[S T] STEEL [C O] CONCRETE [P L] PLASTIC [O T] OTHER

MAIN CASING TYPE	Nominal diameter top (main) casing (nearest inch)!	Total depth of main casing (nearest foot)
ST	6	

EACH CASING — OTHER CASING (if used)

	diameter inch	depth (feet) from	depth (feet) to

SCREEN RECORD
screen type or open hole — insert appropriate code below
[S T] STEEL [B R] BRASS BRONZE [H O] OPEN HOLE [P L] PLASTIC [O T] OTHER

C 2 — DEPTH (nearest ft.)

EACH SCREEN

		from	to
1	HO		397
2			
3			

SLOT SIZE 1 ____ 2 ____ 3 ____

DIAMETER OF SCREEN ____ (NEAREST INCH)

	from	to
GRAVEL PACK		
IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68		

MDE USE ONLY
(NOT TO BE FILLED IN BY DRILLER)
T (E.R.O.S.) W Q

TELESCOPE CASING ____ LOG INDICATOR ____ OTHER DATA ____

C 3

PUMPING TEST N/A

HOURS PUMPED (nearest hour) ____

PUMPING RATE (gal. per min.) ____

METHOD USED TO MEASURE PUMPING RATE ____

WATER LEVEL (distance from land surface)

BEFORE PUMPING ____ ft.

WHEN PUMPING ____ ft.

TYPE OF PUMP USED (for test)
- [A] air
- [P] piston
- [T] turbine
- [C] centrifugal
- [R] rotary
- [O] other (describe below)
- [J] jet
- [S] submersible

PUMP INSTALLED
DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES NO

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. N/A

CAPACITY: GALLONS PER MINUTE (to nearest gallon) ____

PUMP HORSE POWER ____

PUMP COLUMN LENGTH (nearest ft.) ____

CASING HEIGHT (circle appropriate box and enter casing height)
[+] above LAND SURFACE
[−] below
(nearest foot)

LATITUDE 39.520221
LONGITUDE 76.556709
(DEFAULT COORD. WGS 84)
NOTES:

MDE/WMA/PER.071

ORIGINAL

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

PLEASE TYPE

NUMBER

ST/CO USE ONLY
DATE Received MM DD YY 8 13

DATE WELL COMPLETED MM 8 DD 8 YY 13 (15 20)

Depth of Well 22 404 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" BA-10-0365 (28 29 30 31 32 33 34 35 36 37)

OWNER Cory (last name) Kevin & Ann S (first name)

WELL SITE ADDRESS 3506 Hampshire Glen Ct TOWN Phoenix

SUBDIVISION SECTION LOT

KR13060 WELL LOG
Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET FROM	FEET TO	check if water bearing
Clay	0	35	
weath schist	35	36	✓
Clay	36	44	
weath schist	44	46	
Clay	46	49	
weath schist	49	55	
Schist	55	60	

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED yes Y no N

CIRCLE APPROPRIATE LETTER
- A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED
- E ELECTRIC LOG OBTAINED
- P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. MWD552

Kevin Pulleigh
DRILLERS SIGNATURE
(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. __ __ D __ __ __

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) yes Y no N (44)

TYPE OF GROUTING MATERIAL (Circle one)
CEMENT CM (45 46) BENTONITE CLAY BC (45 46)

NO. OF BAGS 16 NO. OF POUNDS 1504

GALLONS OF WATER 96

DEPTH OF GROUT SEAL (to nearest foot)
from 1 (48 TOP 52) ft. to 60 (54 BOTTOM 58) ft.
(enter 0 if from surface)

CASING RECORD

casing types insert appropriate code below

ST STEEL CO CONCRETE PL PLASTIC OT OTHER

MAIN CASING TYPE	Nominal diameter top (main) casing (nearest inch)!	Total depth of main casing (nearest foot)
ST (60 61)	6 (63 64)	60 (66 70)

OTHER CASING (if used)

EACH CASING	diameter inch	depth (feet) from	to

SCREEN RECORD

screen type or open hole insert appropriate code below

ST STEEL BR BRASS BRONZE HO OPEN HOLE PL PLASTIC OT OTHER

C 2 (1 2) DEPTH (nearest ft.)

EACH SCREEN			
1	HO (8 9)	60 (11 15)	404 (17 21)
2	(23 24)	(26 30)	(32 36)
3	(38 39)	(41 45)	(47 51)

SLOT SIZE 1 ____ 2 ____ 3 ____

DIAMETER OF SCREEN ____ (56 60) (NEAREST INCH)

	from	to
GRAVEL PACK		

IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 (68)

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)

T (E.R.O.S.) W Q

70 TELESCOPE CASING 72 LOG INDICATOR 74 75 76 OTHER DATA

C 3 (1 2)

PUMPING TEST N/A

HOURS PUMPED (nearest hour) ____ (8 9)

PUMPING RATE (gal. per min.) ____ (11 15)

METHOD USED TO MEASURE PUMPING RATE ____

WATER LEVEL (distance from land surface)

BEFORE PUMPING ____ (17 20) ft.

WHEN PUMPING ____ (22 25) ft.

TYPE OF PUMP USED (for test)

A air (27) P piston (27) T turbine (27)
C centrifugal (27) R rotary (27) O other (describ below) (27)
J jet (27) S submersible (27)

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES NO

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. N/A (29)

CAPACITY: GALLONS PER MINUTE (to nearest gallon) ____ (31 3)

PUMP HORSE POWER ____ (37 4)

PUMP COLUMN LENGTH (nearest ft.) ____ (43 4)

CASING HEIGHT (circle appropriate box and enter casing height)
+ above (49) LAND SURFACE
− below (49) ____ (50 51) (neare foot)

LATITUDE 39.519462
LONGITUDE 76.556893
(DEFAULT COORD. WGS 84)
NOTES:

ORIGINAL

MDE/WMA/PER.071

1 2 3 6
(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

FILL IN THIS FORM COMPLETELY
PLEASE TYPE

COUNTY NUMBER

ST/CO USE ONLY
DATE Received MM DD YY
8 13

DATE WELL COMPLETED MM 7 DD 24 YY 13
15 20

Depth of Well 22 415 26
(TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL"
BA - 95 - 3407
28 29 30 31 32 33 34 35 36 37

OWNER Exxon Mobil Corp
WELL SITE ADDRESS 3501 Hampshire Glen Ct (last name / first name) TOWN Phoenix
SUBDIVISION SECTION LOT

KR13060 **WELL LOG**
Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET FROM	FEET TO	check if water bearing
Deepened Existing well from 250 to 415'			
Schist	250	415	

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED yes Y no N

CIRCLE APPROPRIATE LETTER
- A — A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED
- E — ELECTRIC LOG OBTAINED
- P — TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. MWD552
Kevin Pfleiger
DRILLERS SIGNATURE
(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. ___ D ___

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

GROUTING RECORD
WELL HAS BEEN GROUTED (Circle Appropriate Box) yes Y 44 no N 44
TYPE OF GROUTING MATERIAL (Circle one)
CEMENT CM 45 46 BENTONITE CLAY BC 45 46
NO. OF BAGS ____ NO. OF POUNDS ____
GALLONS OF WATER ____
DEPTH OF GROUT SEAL (to nearest foot)
from ____ ft. (48 TOP 52) to ____ ft. (54 BOTTOM 58)
(enter 0 if from surface)

CASING RECORD
casing types insert appropriate code below
ST STEEL CO CONCRETE PL PLASTIC OT OTHER

MAIN CASING TYPE	Nominal diameter top (main) casing (nearest inch)!	Total depth of main casing (nearest foot)
ST (60 61)	10 (63 64)	(66 70)

OTHER CASING (if used)

EACH CASING	diameter inch	depth (feet) from	depth (feet) to

SCREEN RECORD
screen type or open hole insert appropriate code below
ST STEEL BR BRASS BRONZE PL PLASTIC HO OPEN HOLE OT OTHER

C 2 (1 2)

DEPTH (nearest ft.)

EACH SCREEN			
1	HO (8 9)	125 (11 15)	415 (17 21)
2	(23 24)	(26 30)	(32 36)
3	(38 39)	(41 45)	(47 51)

SLOT SIZE 1 ____ 2 ____ 3 ____
DIAMETER OF SCREEN ____ (NEAREST INCH) (56 60)

	from	to
GRAVEL PACK		
IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68		(68)

MDE USE ONLY
(NOT TO BE FILLED IN BY DRILLER)
T (E.R.O.S.) W Q
70 ____ 72 ____ (74 75 76)
TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3 (1 2)

PUMPING TEST N/A

HOURS PUMPED (nearest hour) ____ (8 9)
PUMPING RATE (gal. per min.) ____ (11 15)
METHOD USED TO MEASURE PUMPING RATE ____
WATER LEVEL (distance from land surface)
BEFORE PUMPING ____ ft. (17 20)
WHEN PUMPING ____ ft. (22 25)

TYPE OF PUMP USED (for test)
A air (27) P piston (27) T turbine (27)
C centrifugal (27) R rotary (27) O other (describe below) (27)
J jet (27) S submersible (27)

PUMP INSTALLED
DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES NO
IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.
TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. ____ (29)
CAPACITY: GALLONS PER MINUTE (to nearest gallon) N/A (31 35)
PUMP HORSE POWER ____ (37 41)
PUMP COLUMN LENGTH (nearest ft.) ____ (43 47)
CASING HEIGHT (circle appropriate box and enter casing height)
+ above (49) / – below (49) LAND SURFACE (nearest foot) ____ (50 51)

LATITUDE 39.519070
LONGITUDE 76.557463
(DEFAULT COORD. WGS 84)
NOTES:

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS) | PLEASE TYPE | NUMBER

ST/CO USE ONLY
DATE Received MM DD YY: 8 13

DATE WELL COMPLETED: MM 9 DD 5 YY 13 (15–20)

Depth of Well: 22 436 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL": BA - 10 - 0358 (28–37)

OWNER: Jarrettsville Pike LLC

WELL SITE ADDRESS: 14311 (last name) Jarrettsville (first name) Pike TOWN: Phoenix

SUBDIVISION: SECTION: LOT:

KR13060 WELL LOG
Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET FROM	FEET TO	check if water bearing
OVB	0	16	
Blue Schist	16	38	
soft/Brown	38	48	
Blue Schist	48	125	

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED: yes [Y] no [N]

CIRCLE APPROPRIATE LETTER
- A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED
- E ELECTRIC LOG OBTAINED
- P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO.: MWD552

DRILLERS SIGNATURE: Kevin Pluegge
(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO.: __ __ D __ __ __

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

GROUTING RECORD
WELL HAS BEEN GROUTED (Circle Appropriate Box): yes [Y] (44) no [N] (44)
TYPE OF GROUTING MATERIAL (Circle one)
CEMENT [C M] (45 46) BENTONITE CLAY [B C] (45 46)
NO. OF BAGS 40 NO. OF POUNDS 3760
GALLONS OF WATER 240
DEPTH OF GROUT SEAL (to nearest foot)
from 1 (48 TOP 52) ft. to 125 (54 BOTTOM 58) ft.
(enter 0 if from surface)

CASING RECORD
casing types insert appropriate code below: [S T] STEEL [C O] CONCRETE [P L] PLASTIC [O T] OTHER

MAIN CASING TYPE	Nominal diameter top (main) casing (nearest inch)!	Total depth of main casing (nearest foot)
ST (60 61)	6 (63 64)	125 (66 70)

OTHER CASING (if used)

EACH CASING	diameter inch	depth (feet) from	to

SCREEN RECORD
screen type or open hole insert appropriate code below: [S T] STEEL [B R] BRASS BRONZE [H O] OPEN HOLE [P L] PLASTIC [O T] OTHER

C 2 (1 2)

DEPTH (nearest ft.)

EACH SCREEN			
1	HO (8 9)	125 (11–15)	436 (17–21)
2	(23 24)	(26–30)	(32–36)
3	(38 39)	(41–45)	(47–51)

SLOT SIZE 1 ____ 2 ____ 3 ____

DIAMETER OF SCREEN ____ (56 60) (NEAREST INCH)

	from	to
GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68		

(68)

MDE USE ONLY
(NOT TO BE FILLED IN BY DRILLER)
T (E.R.O.S.) W Q

70 TELESCOPE CASING ____ 72 LOG INDICATOR ____ 74 75 76 OTHER DATA ____

C 3 (1 2)

PUMPING TEST: N/A

HOURS PUMPED (nearest hour) ____ (8 9)

PUMPING RATE (gal. per min.) ____ (11–15)

METHOD USED TO MEASURE PUMPING RATE ____

WATER LEVEL (distance from land surface)

BEFORE PUMPING ____ (17 20) ft.

WHEN PUMPING ____ (22 25) ft.

TYPE OF PUMP USED (for test)
- [A] air (27)
- [P] piston (27)
- [T] turbine (27)
- [C] centrifugal (27)
- [R] rotary (27)
- [O] other (describe below) (27)
- [J] jet (27)
- [S] submersible (27)

PUMP INSTALLED
DRILLER INSTALLED PUMP (CIRCLE) (YES or NO): YES NO

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. N/A (29)

CAPACITY: GALLONS PER MINUTE (to nearest gallon) ____ (31–35)

PUMP HORSE POWER ____ (37–41)

PUMP COLUMN LENGTH (nearest ft.) ____ (43–47)

CASING HEIGHT (circle appropriate box and enter casing height)
- [+] above (49) LAND SURFACE
- [–] below (49)

____ (50 51) (nearest foot)

LATITUDE 39.519230
LONGITUDE 76.558875
(DEFAULT COORD. WGS 84)
NOTES:

MDE/WMA/PER.071

ORIGINAL

WELL COMPLETION REPORT

FILL IN THIS FORM COMPLETELY
PLEASE TYPE

1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

COUNTY NUMBER

ST/CO USE ONLY
DATE Received MM DD YY (8–13)

DATE WELL COMPLETED MM 7 DD 18 YY 13 (15–20)

Depth of Well 22 425 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" BA - 81 - 7044 (28–37)

OWNER Exxon Mobil Corp

WELL SITE ADDRESS 3501 (last name) Hampshire Glen Ct (first name) TOWN Phoenix

SUBDIVISION ____ SECTION ____ LOT ____

KR13060 WELL LOG
Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET FROM	FEET TO	check if water bearing
Deepened Existing well from 300' to 425'			
Schist	300	425	

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED yes [Y] no [N]

CIRCLE APPROPRIATE LETTER
- A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED
- E ELECTRIC LOG OBTAINED
- P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO.: MWD 552

Kevin Pilewski
DRILLERS SIGNATURE
(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO.: ___ D ___

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) yes [Y] (44) no [N] (44)

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT [C M] (45 46) BENTONITE CLAY [B C] (45 46)

NO. OF BAGS ____ NO. OF POUNDS ____

GALLONS OF WATER ____

DEPTH OF GROUT SEAL (to nearest foot)

from ____ (48 TOP 52) ft. to ____ (54 BOTTOM 58) ft.

(enter 0 if from surface)

CASING RECORD

casing types insert appropriate code below

[S T] STEEL [C O] CONCRETE [P L] PLASTIC [O T] OTHER

MAIN CASING TYPE	Nominal diameter top (main) casing (nearest inch)!	Total depth of main casing (nearest foot)
ST (60 61)	6 (63 64)	(66 70)

OTHER CASING (if used)

EACH CASING	diameter inch	depth (feet) from	depth (feet) to

SCREEN RECORD

screen type or open hole insert appropriate code below

[S T] STEEL [B R] BRASS [H O] OPEN HOLE [P L] PLASTIC [O T] OTHER

C 2 DEPTH (nearest ft.)

EACH SCREEN		from	to
1	HO (8 9)	27 (11–15)	425 (17–21)
2	(23 24)	(26–30)	(32–36)
3	(38 39)	(41–45)	(47–51)

SLOT SIZE 1 ____ 2 ____ 3 ____

DIAMETER OF SCREEN ____ (56 60) (NEAREST INCH)

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 ____ (68)

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)

T (70) (E.R.O.S.) (72) W Q (74 75 76)

TELESCOPE CASING | LOG INDICATOR | OTHER DATA

C 3

PUMPING TEST N/A

HOURS PUMPED (nearest hour) ____ (8 9)

PUMPING RATE (gal. per min.) ____ (11–15)

METHOD USED TO MEASURE PUMPING RATE ____

WATER LEVEL (distance from land surface)

BEFORE PUMPING ____ (17 20) ft.

WHEN PUMPING ____ (22 25) ft.

TYPE OF PUMP USED (for test)

[A] air (27) [P] piston (27) [T] turbine (27)
[C] centrifugal (27) [R] rotary (27) [O] other (describe below) (27)
[J] jet (27) [S] submersible (27)

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES NO

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. N/A (29)

CAPACITY: GALLONS PER MINUTE (to nearest gallon) ____ (31–35)

PUMP HORSE POWER ____ (37–41)

PUMP COLUMN LENGTH (nearest ft.) ____ (43–47)

CASING HEIGHT (circle appropriate box and enter casing height)

[+] above (49) / [–] below (49) LAND SURFACE (50 51) (nearest) foot

LATITUDE 39.519371
LONGITUDE 76.559041
(DEFAULT COORD. WGS 84)
NOTES: