



June 24, 2016

Mr. Jacob Evans
Noble Energy, Inc.
1600 Broadway, Suite 2211
Denver, Colorado 80202

**Groundwater Monitoring Report and No Further Action Recommendation
State M36-3, M36-5, 6-36, 7-36, and 8-36
Production Tank Release
40.444259 / -104.845056
SW¼ NW¼ SEC.36 T6N R67W 6PM
CR 23 & CR 64 3/4, S 1 2/10, NE 5/10 INTO
Weld County, Colorado
Remediation # 8495**

Dear Mr. Evans,

Eagle Environmental Consulting, Inc. (EAGLE) is pleased to present this Groundwater Monitoring Report and No Further Action Recommendation for the State M36-3, M36-5, 6-36, 7-36, and 8-36 tank battery (Site).

1.0 SITE BACKGROUND

Based on records on file with the Colorado Oil and Gas Conservation Commission (COGCC), the State M36-3, M36-5, 6-36, 7-36, and 8-36 Tank Battery is located at latitude: 40.444259 and longitude: -104.845056 in Weld County, Colorado. The Cache la Poudre River is located approximately 400 feet east of the Site. A topographic site location map is presented as Figure 1. An aerial site location map is presented as Figure 2.

From June 20, 2014 through June 30, 2014, assessment and remedial activities were performed at the Site. Site activities included soil boring assessment and source excavation activities. Boring logs are included in Attachment A and a site map with soil boring locations is presented as Figure 3. A site map with tank battery excavation extents and soil sample locations is presented as Figure 4. Soil analytical results are summarized in Table 1.

On October 8, 2014 and October 9, 2014, a total of fourteen (14) soil borings (MW-01 through MW-14) were advanced around the tank battery and area of previous surface staining northeast of the tank battery. Following advancement activities, each soil boring was completed as a 1-inch, groundwater monitoring well to define the extents of dissolved petroleum hydrocarbon impacts beneath the site. Soil boring advancement/monitoring well installation activities were completed by EAGLE using a 7822DT Series Geoprobe track rig. A site map with monitoring well locations and monitoring well soil analytical results is presented as Figure 5.

From January 16, 2015 through January 20, 2015, EAGLE supervised excavation activities to remove petroleum hydrocarbon impacted soils within the unintentional surface release area, east of the State M36-3, M36-5, 6-36, 7-36, and 8-36 tank battery. The final limits of the State M36-3, M36-5, 6-36, 7-36, and 8-36 excavation extended approximately 240 feet north to south, and approximately 55 feet east to

west. The excavation was advanced to a total depth of approximately 3.75 feet bgs. Approximately 1,340 cubic yards of soil was removed during excavation activities. Prior to backfill activities, 100 pounds of granular activated carbon (GAC) and 100 pounds of gypsum were applied to the base of the excavation. The excavation area was then backfilled with pea gravel and structural fill. A site map with the lower excavation extents and sample locations is presented as Figure 6. Soil analytical results are summarized in Table 1.

On January 16, 2015, EAGLE completed confirmation soil sampling activities at the site for soil samples collected during previous field assessment activities. Utilizing a hand auger, soil samples SS-49 through SS-54 were advanced to total depths ranging from 2 inches to 4 inches bgs. For each soil boring, soil samples were collected adjacent to, and at the same depth of previously collected soil samples (SS-12, SS-13, SS-14, SS-17, SS-20, and SS-21). EAGLE returned to the Site on February 19, 2015 to collect a confirmation soil sample adjacent to MW-14. Utilizing a hand auger, EAGLE advanced soil boring SS-55 adjacent to monitoring well MW-14, to a total depth of approximately 2.5' bgs. Boring logs are included in Attachment A.

On March 18, 2015, four additional soil borings (MW-15 through MW-18) were advanced around the lower excavation extents and the area of previous surface staining northeast of the tank battery. Following advancement activities, each soil boring was completed as a 1-inch, groundwater monitoring well to define the extents of dissolved petroleum hydrocarbon impacts beneath the site. Soil boring advancement/monitoring well installation activities were completed by EAGLE using a 7822DT Series Geoprobe track rig. EAGLE observed monitoring wells MW-05 and MW-15 destroyed on June 24, 2015, and returned July 27, 2015 to advance replacement wells MW-05R and MW-15R and install monitoring well MW-19 and MW-20. Boring logs/well completion diagrams are included in Attachment A. Soil analytical results are summarized in Table 1. A site map with monitoring well locations and monitoring well soil analytical results is presented in Figure 5.

1.1 Site Hydrogeology

The soil lithology observed beneath the release location consists of sandy silt/silty sand from the ground surface to approximately 5 feet below ground surface (bgs), underlain by poorly graded sand from 5 to approximately 13.5 feet bgs, underlain by weathered claystone from 13.5 feet bgs to approximately 15 feet bgs. Lithology observed beneath the surface stained area adjacent to the tank battery consists of interbedded sand and clay from the ground surface to approximately 10 feet bgs. Depth to groundwater was observed during groundwater sampling activities ranging from approximately 2.5 to 8.5 feet bgs. A detailed description of the subsurface lithology beneath the site is presented within the boring logs included in Attachment A. A geologic cross section is presented as Figure 7.

2.0 GROUNDWATER SAMPLING ACTIVITIES

2.1 Groundwater Sampling Procedures

EAGLE developed newly installed monitoring wells the day of the installation. Prior to groundwater sample collection, initial depth to groundwater was recorded to air in groundwater flow elevation and direction calculations/determinations.

Prior to sample collection, each monitoring well, MW-01 through MW-04, MW-06, MW-15R, MW-19, and MW-20 were purged a minimum of six well volumes using disposable PVC bailers. Following recharge, groundwater samples were collected from each monitoring well in 40 milliliter (mL) amber vials. The groundwater samples were submitted for laboratory analysis of BTEX following EPA Method 8260C. The samples were transported in an iced cooler under standard chain-of-custody procedures to

Origins Laboratory, Inc. located in Denver, Colorado, and were received within Quality Assurance/Quality Control (QA/QC) parameters.

2.2 Summary of Groundwater Sampling Activities

Quarterly groundwater sampling activities began on the site in March 2015. Following quarterly sampling activities in September 2015, Noble received approval from COGCC to remove monitoring wells MW-07 through MW-14, and MW-16 through MW-18 from the quarterly sampling plans. Groundwater analytical results from the monitoring wells had been observed below COGCC Table 910-1 regulatory limits for BTEX since installation. Beginning 4th quarter 2015, EAGLE collected groundwater samples from MW-01 through MW-06, MW-15R, MW-19, and MW-20.

2.3 2nd Quarter 2016 Groundwater Monitoring Activities

On June 13, 2016, EAGLE completed quarterly groundwater sampling activities at the site. Groundwater samples were collected from monitoring wells MW-01 through MW-04, MW-06, MW-15R, MW-19, and MW-20. Monitoring well MW-05R was observed inaccessible due to the high water table at the time of sampling. Prior to groundwater sample collection, depth to groundwater data was collected utilizing a decontaminated interface probe capable of measuring the depth to groundwater or light non aqueous phase liquid (LNAPL) to an accuracy of 0.01 feet.

Relative groundwater elevation within each monitoring well ranged from 97.30 feet (MW-01) to 97.88 feet (MW-20). The groundwater flow direction beneath the site during the June 2016 groundwater sampling event was predominantly to the southeast with an average hydraulic gradient of 0.005 feet per foot across the site (measured from MW-20 to MW-01). Groundwater elevations across the site increased an average of 4.81 feet compared to March 2016 groundwater elevations.

2.4 2nd Quarter 2016 Groundwater Analytical Results

Groundwater samples collected from MW-01 through MW-04, MW-06, MW-15R, MW-19 and MW-20 did not contain concentrations of BTEX exceeding applicable COGCC Table 910-1 regulatory limits or laboratory reporting limits. Dissolved BTEX concentrations have not been observed above COGCC Table 910-1 regulatory limits in any monitoring well at the site since June 2015.

Groundwater analytical results for the June 13, 2016 groundwater sampling event are presented in Figure 8 and summarized in Table 2. Groundwater elevation data is summarized in Table 3, and groundwater elevations and flow direction is included in Figure 9. Laboratory analytical results are included in Attachment B.

3.0 CONCLUSIONS

Based on the information presented in this Report, EAGLE concludes the following:

- From June 20, 2014 through June 30, 2014, soil boring assessment activities and source excavation activities were performed at the Site.
- On October 8, 2014 and October 9, 2014, a total of fourteen (14) soil borings (MW-01 through MW-14) were advanced around the tank battery and area of previous surface staining northeast of the tank battery.

- From January 16, 2015 through January 20, 2015, EAGLE supervised excavation activities to remove petroleum hydrocarbon impacted soils within the unintentional surface release area, east of the State M36-3, M36-5, 6-36, 7-36, and 8-36 tank battery.
- On March 18, 2015, four additional soil borings (MW-15 through MW-18) were advanced around the lower excavation extents and the area of previous surface staining northeast of the tank battery. Quarterly groundwater monitoring for natural attenuation began in March 2015. Monitoring wells MW-19 and MW-20 were installed during replacement well activities in July 2015.
- Groundwater samples collected from monitoring wells MW-07 through MW-14, and MW-16 through MW-18 did not contain concentrations of BTEX exceeding applicable COGCC Table 910-1 regulatory limits and/or laboratory report limits for four (4) consecutive quarters (4th quarter 2014 through 3rd quarter 2015).
- Per COGCC, monitoring wells MW-07 through MW-14 and MW-16 through MW-18 were removed from the quarterly sampling schedule following 3rd quarter 2015 groundwater monitoring activities.
- Groundwater samples collected from monitoring wells MW-01 through MW-04, MW-05R, MW-06, MW-15R, MW-19 and MW-20 did not contain concentrations of BTEX exceeding applicable COGCC Table 910-1 regulatory limits and/or laboratory report limits for four (4) consecutive quarters (3rd quarter 2015 through 2nd quarter 2016).
- Based on soil data collected at the site, soil impacts above COGCC Table 910-1 regulatory limits do not remain at the site.

4.0 RECOMMENDATIONS

Based on the information presented in this Report, EAGLE recommends the following:

- No further action appears warranted for the State M36-3, M36-5, 6-36, 7-36, and 8-36 production tank release at this time.

EAGLE sincerely appreciates the opportunity to provide our services. If you have any questions or require further information, please contact us at (303) 433-0479.

Sincerely,

EAGLE ENVIRONMENTAL CONSULTING, INC.



Robin Lockwood
Project Scientist



Martin Eckert III
Principal/Senior Scientist

TABLES

Table 1a: Soil Analytical Results Summary

Table 1b: Soil Analytical Results Summary - Polycyclic Aromatic Hydrocarbons

Table 2: Groundwater Analytical Results Summary

Table 3: Groundwater Elevation Summary

TABLE 1a
SOIL ANALYTICAL RESULTS SUMMARY
STATE M36-3, M36-5, 6-36, 7-36, AND 8-36
PRODUCTION TANK RELEASE
40.444259/-104.845056
SW¼ NW¼ SEC. 36, T6N, R67W, 6 PM
WELD COUNTY, COLORADO
REMEDATION # 8495

Sample Location (Latitude / Longitude)	Date	Approximate Depth (inches)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	pH	Specific Conductance (mmhos/cm)	Sodium Adsorption Ratio
COGCC Table 910-1 Regulatory Limits (mg/kg)			0.17	85	100	175	23	500		6.0-9.0	4	1200000
SS-01 @ surface (40.445981562 / -104.842166414)	06/20/14	surface	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
SS-02 @ surface (40.445855905 / -104.84258165)	06/20/14	surface	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
SS-03 @ surface (40.445685039 / -104.843011606)	06/20/14	surface	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
SS-04 @ surface (40.445510657 / -104.843363798)	06/20/14	surface	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
SS-05 @ surface (40.445378447 / -104.843494015)	06/20/14	surface	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
SS-06 @ 1-2" (40.444033585 / -104.845026678)	06/21/14	1.0-2.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	1500	7.90	0.229	1.35
SS-07 @ 3-4" (40.444033585 / -104.845026678)	06/21/14	3.0-4.0	<0.05	<0.05	<0.05	<0.05	<0.2	33.7	414	7.69	0.230	1.35
SS-08 @ 1-2" (40.444194133 / -104.844911559)	06/21/14	1.0-2.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	28300	7.53	0.232	1.42
SS-09 @ 3-4" (40.444194133 / -104.844911559)	06/21/14	3.0-4.0	<0.002	<0.002	<0.002	<0.002	<0.008	4.4	3240	7.46	0.283	0.837
SS-10 @ 1-2" (40.444381772 / -104.844747628)	06/21/14	1.0-2.0	<0.002	<0.002	<0.002	<0.002	<0.008	3.6	20500	8.36	0.0434	0.678
SS-11 @ 3-4" (40.444381772 / -104.844747628)	06/21/14	3.0-4.0	<0.05	<0.05	0.09	1.2	0.7	240	41700	8.18	0.0562	1.07
SS-12 @ 1-2" (40.44458152 / -104.84470946)	06/21/14	1.0-2.0	<0.002	<0.002	<0.002	<0.002	<0.008	13.6	3300	7.73	0.284	1.87
SS-13 @ 3-4" (40.44458152 / -104.84470946)	06/21/14	3.0-4.0	<0.002	<0.002	<0.002	<0.002	<0.008	1.5	829	7.76	0.191	1.44
SS-14 @ 1-2" (40.444679006 / -104.844377002)	06/21/14	1.0-2.0	<0.002	<0.002	<0.002	<0.002	<0.008	0.5	1880	8.48	0.0761	0.787
SS-15 @ 3-4" (40.444679006 / -104.844377002)	06/21/14	3.0-4.0	<0.1	0.2	<0.1	<0.1	<0.4	20.0	179	7.69	0.0643	0.84
SS-16 @ 1-2" (40.444877225 / -104.844225377)	06/21/14	1.0-2.0	<0.1	<0.1	<0.1	<0.1	<0.4	<10.0	392	7.80	0.134	1.24
SS-17 @ 3-4" (40.444877225 / -104.844225377)	06/21/14	3.0-4.0	<0.002	<0.002	0.002	0.01	<0.008	0.3	643	7.54	0.168	1.09
SS-18 @ 1-2" (40.444872764 / -104.843980778)	06/21/14	1.0-2.0	<0.05	<0.05	<0.05	<0.05	<0.2	17.1	293	8.09	0.0806	0.768

TABLE 1a
SOIL ANALYTICAL RESULTS SUMMARY
STATE M36-3, M36-5, 6-36, 7-36, AND 8-36
PRODUCTION TANK RELEASE
40.444259/-104.845056
SW¼ NW¼ SEC. 36, T6N, R67W, 6 PM
WELD COUNTY, COLORADO
REMEDIATION # 8495

Sample Location (Latitude / Longitude)	Date	Approximate Depth (inches)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	pH	Specific Conductance (mmhos/cm)	Sodium Adsorption Ratio
COGCC Table 910-1 Regulatory Limits (mg/kg)			0.17	85	100	175	23	500		6.0-9.0	4	1200000
SS-19 @ 3-4" (40.444872764 / -104.843980778)	06/21/14	3.0-4.0	<0.05	<0.05	<0.05	<0.05	<0.2	<5.0	89.0	7.90	0.127	0.829
SS-20 @ 1-2" (40.444844744 / -104.843751845)	06/21/14	1.0-2.0	<0.002	0.002	<0.002	<0.002	<0.008	<0.2	518	7.33	0.131	0.588
SS-21 @ 3-4" (40.444844744 / -104.843751845)	06/21/14	3.0-4.0	<0.002	0.003	<0.002	<0.002	<0.008	0.2	685	7.48	0.163	0.491
SS-22 @ 6-12" (40.444194133 / -104.844911559)	06/25/14	6.0-12.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	66.4	NA	NA	NA
SS-23 @ 6-12" (40.444381772 / -104.844747628)	06/25/14	6.0-12.0	<0.05	<0.05	<0.05	0.3	0.3	92.0	982	NA	NA	NA
SS-24 @ 12-18" (40.44458152 / -104.84470946)	06/25/14	12.0-18.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
SS-25 @ 6-12" (40.444877225 / -104.844225377)	06/25/14	6.0-12.0	0.003	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
SS-26 @ 30-36" (40.444844744 / -104.843751845)	06/25/14	30.0-36.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
SS-27 @ 4-8" (40.443969064 / -104.845038769)	06/26/14	4.0-8.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
SS-28 @ 22-26" (40.444048624 / -104.845071473)	06/26/14	22.0-26.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
SS-29 @ 16-20" (40.444024316 / -104.844993703)	06/26/14	16.0-20.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
SS-30 @ 22-26" (40.44423293 / -104.844970576)	06/26/14	22.0-26.0	0.8	4.3	1.1	8.0	<0.8	191	78.0	NA	NA	NA
SS-31 @ 4-8" (40.444159548 / -104.844851054)	06/26/14	4.0-8.0	<0.002	<0.002	<0.002	0.005	<0.008	0.2	<50.0	NA	NA	NA
SS-32 @ 4-8" (40.444401989 / -104.844780656)	06/26/14	4.0-8.0	<0.002	0.002	<0.002	0.007	<0.008	<0.2	<50.0	NA	NA	NA
SS-33 @ 4-8" (40.444344011 / -104.844668852)	06/26/14	4.0-8.0	<0.002	<0.002	<0.002	0.005	<0.008	<0.2	<50.0	NA	NA	NA
SS-34 @ 12-16" (40.444609565 / -104.844739569)	06/27/14	12.0-16.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
SS-35 @ 4-8" (40.444527337 / -104.844575814)	06/27/14	4.0-8.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
SS-36 @ 8-12" (40.444761834 / -104.844498553)	06/27/14	8.0-12.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA

TABLE 1a
SOIL ANALYTICAL RESULTS SUMMARY
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PRODUCTION TANK RELEASE
40.444259/-104.845056
SW¼ NW¼ SEC. 36, T6N, R67W, 6 PM
WELD COUNTY, COLORADO
REMEDIATION # 8495

Sample Location (Latitude / Longitude)	Date	Approximate Depth (inches)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	pH	Specific Conductance (mmhos/cm)	Sodium Adsorption Ratio
COGCC Table 910-1 Regulatory Limits (mg/kg)			0.17	85	100	175	23	500		6.0-9.0	4	1200000
SS-37 @ 4-8" (40.444662913 / -104.844327325)	06/27/14	4.0-8.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
SS-38 @ 4-8" (40.444873363 / -104.844334236)	06/27/14	4.0-8.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
SS-39 @ 4-8" (40.444815128 / -104.844179929)	06/27/14	4.0-8.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
SS-40 @ 4-8" (40.444992512 / -104.844184169)	06/27/14	4.0-8.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
SS-41 @ 4-8" (40.444958298 / -104.843786868)	06/27/14	4.0-8.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
SS-42 @ 4-8" (40.444778035 / -104.843763308)	06/27/14	4.0-8.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
SS-43 @ 4-8" (40.44488832 / -104.843703757)	06/27/14	4.0-8.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
SS-44 @ 4-8" (40.444624838 / -104.843855268)	06/27/14	4.0-8.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
SS-45 @ 4-8" (40.444495488 / -104.843933899)	06/27/14	4.0-8.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
SS-46 @ 4-8" (40.444300036 / -104.844105806)	06/27/14	4.0-8.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
SS-47 @ 30-36" (40.445050479 / -104.844150918)	06/30/14	30.0-36.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
SS-48 @ 18-24" (40.44501361 / -104.844059742)	06/30/14	18.0-24.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
SS-49 @ 1-2" (40.444596039 / -104.844632314)	01/16/15	1.0-2.0	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA
SS-50 @ 3-4" (40.444596039 / -104.844632314)	01/16/15	3.0-4.0	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA
SS-51 @ 1-2" (40.444655569 / -104.844370437)	01/16/15	1.0-2.0	<0.002	<0.002	<0.002	0.003	<0.007	<0.200	<50.0	NA	NA	NA
SS-52 @ 3-4" (40.444866732 / -104.84419184)	01/16/15	3.0-4.0	<0.002	0.002	<0.002	0.008	<0.007	<0.200	<50.0	NA	NA	NA
SS-53 @ 1-2" (40.444843189 / -104.843750025)	01/16/15	1.0-2.0	<0.002	0.002	0.003	0.024	<0.007	0.386	70.0	NA	NA	NA
SS-54 @ 3-4" (40.444843189 / -104.843750025)	01/16/15	3.0-4.0	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA

TABLE 1a
SOIL ANALYTICAL RESULTS SUMMARY
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SW¼ NW¼ SEC. 36, T6N, R67W, 6 PM
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Sample Location (Latitude / Longitude)	Date	Approximate Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	pH	Specific Conductance (mmhos/cm)	Sodium Adsorption Ratio
COGCC Table 910-1 Regulatory Limits (mg/kg)			0.17	85	100	175	23	500		6.0-9.0	4	1200000
TBSS-01 @ 3.5' (40.444345803 / -104.845189974)	06/24/14	3.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
TBSS-04 @ 3.5' (40.444380503 / -104.845153519)	06/24/14	3.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	8.37	0.106	0.448
TBSS-05 @ 3.0' (40.444358534 / -104.845074397)	06/24/14	3	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
TBSS-18 @ 3.0' (40.444302821 / -104.845218221)	06/25/14	3	<0.002	<0.002	<0.002	0.009	<0.008	<0.2	<50.0	NA	NA	NA
TBSS-19 @ 3.0' (40.444258109 / -104.845235796)	06/25/14	3	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
TBSS-21 @ 3.0' (40.444267 / -104.845234)	06/25/14	3	<0.002	<0.002	<0.002	0.04	<0.008	0.6	<50.0	NA	NA	NA
TBSS-29 @ 3.5' (40.444338437 / -104.844969236)	06/27/14	3.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
TBSS-30 @ 3.5' (40.44430919 / -104.844960128)	06/27/14	3.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
TBSS-31 @ 3.5' (40.444246927 / -104.844977048)	06/27/14	3.5	0.05	0.06	0.007	0.04	<0.008	0.6	<50.0	NA	NA	NA
TBSS-35 @ 3.5' (40.444392228 / -104.845022434)	06/30/14	3.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
TBSS-39 @ 3.0' (40.44417126 / -104.845176684)	06/30/14	3	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
TBSS-40 @ 3.5' (40.444149399 / -104.845087619)	06/30/14	3.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.2	<50.0	NA	NA	NA
TBSS-41 @ 3.0' (40.444174994 / -104.845018487)	06/30/14	3	0.06	0.005	0.02	0.1	<0.008	2.3	<50.0	NA	NA	NA

TABLE 1a
SOIL ANALYTICAL RESULTS SUMMARY
STATE M36-3, M36-5, 6-36, 7-36, AND 8-36
PRODUCTION TANK RELEASE
40.444259/-104.845056
SW¼ NW¼ SEC. 36, T6N, R67W, 6 PM
WELD COUNTY, COLORADO
REMEDATION # 8495

Sample Location (Latitude / Longitude)	Date	Approximate Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	pH	Specific Conductance (mmhos/cm)	Sodium Adsorption Ratio
COGCC Table 910-1 Regulatory Limits (mg/kg)			0.17	85	100	175	23	500		6.0-9.0	4	1200000
MW-01 @ 5-7.5' (40.4442984192 / -104.845097276)	10/08/14	5-7.5	<0.05	<0.05	<0.05	<0.05	<0.20	8.70	<50.0	NA	NA	NA
MW-02 @ 2.5-5' (40.4443738812 / -104.845307671)	10/08/14	2.5-5	<0.002	<0.002	<0.002	<0.002	<0.008	0.20	<50.0	NA	NA	NA
MW-03 @ 5-7.5' (40.4445555982 / -104.845110257)	10/08/14	5-7.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
MW-04 @ 5-7.5' (40.4442042132 / -104.845320992)	10/08/14	5-7.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
MW-05 @ 2.5-5' (40.4440557552 / -104.845269544)	10/08/14	2.5-5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
MW-06 @ 5-7.5' (40.4446472222 / -104.844883852)	10/08/14	5-7.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
MW-07 @ 2.5-5' (40.4448577152 / -104.844490124)	10/08/14	2.5-5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
MW-08 @ 0-2.5' (40.4446005042 / -104.844397129)	10/08/14	0-2.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
MW-09 @ 5-7.5' (40.4450361712 / -104.844249498)	10/09/14	5-7.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
MW-10 @ 0-2.5' (40.4449045162 / -104.844167041)	10/09/14	0-2.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
MW-11 @ 2.5-5' (40.4449911952 / -104.843986073)	10/09/14	2.5-5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
MW-12 @ 0-2.5' (40.4448427762 / -104.843944947)	10/09/14	0-2.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	433	NA	NA	NA
MW-13 @ 0-2.5' (40.4449321532 / -104.843770355)	10/09/14	0-2.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
MW-14 @ 0-2.5' (40.4447805932 / -104.843778042)	10/09/14	0-2.5	<0.002	<0.002	<0.002	<0.002	<0.008	0.27	581	NA	NA	NA
SS-55 @ 0-2.5' (40.4447805940 / -104.843777968)	02/19/15	0-2.5	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	72.6	NA	NA	NA
MW-15 @ 2.5-5' (40.444233392 / -104.844971393)	03/18/15	2.5-5	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA
MW-16 @ 0-2.5' (40.4440443272 / -104.845069258)	03/18/15	0-2.5	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA
MW-17 @ 0-2.5' (40.4441232392 / -104.844816831)	03/18/15	0-2.5	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA
MW-18 @ 0-2.5' (40.4443902552 / -104.844642734)	03/18/15	0-2.5	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	62.7	NA	NA	NA

TABLE 1a
SOIL ANALYTICAL RESULTS SUMMARY
STATE M36-3, M36-5, 6-36, 7-36, AND 8-36
PRODUCTION TANK RELEASE
40.444259/-104.845056
SW¼ NW¼ SEC. 36, T6N, R67W, 6 PM
WELD COUNTY, COLORADO
REMEDATION # 8495

Sample Location (Latitude / Longitude)	Date	Approximate Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	pH	Specific Conductance (mmhos/cm)	Sodium Adsorption Ratio
COGCC Table 910-1 Regulatory Limits (mg/kg)			0.17	85	100	175	23	500		6.0-9.0	4	1200000
MW-19 @ 0-2.5' (40.444680924 / -104.845090232)	07/27/15	0-2.5	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA
MW-20 @ 2.5-5' (40.444573423 / -104.845301232)	07/27/15	2.5-5	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA
EXC-04 @ 1' (40.444570689 / -104.844611586)	01/16/15	1	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA
EXC-05 @ 1.5' (40.444560132 / -104.844703534)	01/16/15	1.5	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA
EXC-06 @ 1.5' (40.444498122 / -104.844593553)	01/16/15	1.5	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA
EXC-07 @ 2' (40.444474845 / -104.844683918)	01/16/15	2	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA
EXC-12 @ 2.5' (40.44440038 / -104.844736868)	01/19/15	2.5	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA
EXC-13 @ 1' (40.444582971 / -104.84448744)	01/19/15	1	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA
EXC-14 @ 2.5' (40.44433311 / -104.844834281)	01/19/15	2.5	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	87.2	NA	NA	NA
EXC-15 @ 2.5' (40.444309277 / -104.844778451)	01/19/15	2.5	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA
EXC-19 @ 2.5' (40.444256376 / -104.844861373)	01/19/15	2.5	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	53.5	NA	NA	NA
EXC-20 @ 2.5' (40.444215484 / -104.844920063)	01/19/15	2.5	<0.002	<0.002	0.006	0.002	0.116	13.2	768	NA	NA	NA
EXC-21 @ 2.75' (40.444239754 / -104.844966341)	01/19/15	2.75	<0.050	<0.050	0.270	1.32	<0.175	324	479	NA	NA	NA
EXC-24 @ 2' (40.444270624 / -104.844926888)	01/20/15	2	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA

TABLE 1a
SOIL ANALYTICAL RESULTS SUMMARY
STATE M36-3, M36-5, 6-36, 7-36, AND 8-36
PRODUCTION TANK RELEASE
40.444259/-104.845056
SW¼ NW¼ SEC. 36, T6N, R67W, 6 PM
WELD COUNTY, COLORADO
REMEDIATION # 8495

Sample Location (Latitude / Longitude)	Date	Approximate Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	pH	Specific Conductance (mmhos/cm)	Sodium Adsorption Ratio
COGCC Table 910-1 Regulatory Limits (mg/kg)			0.17	85	100	175	23	500		6.0-9.0	4	1200000
EXC-27 @ 2' (40.444088008 / -104.844983055)	01/20/15	2	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA
EXC-30 @ 1.5' (40.444048783 / -104.845023824)	01/20/15	1.5	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA

COGCC = Colorado Oil and Gas Conservation Commission
mg/kg = milligrams per kilogram
mmhos/cm = millimhos per centimeter

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics
TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics
NA = Not Analyzed

Note: Values presented with a less than symbol (<) indicate concentrations were not observed at or above the laboratory reporting limit.
Values presented in bold typeface exceed their respective COGCC - Regulatory Limits (Table 910-1).

TABLE 1b
 SOIL ANALYTICAL RESULTS SUMMARY - POLYAROMATIC HYDROCARBONS
 STATE M36-3, M36-5, 6-36, 7-36, AND 8-36
 PRODUCTION TANK RELEASE
 40.444259/-104.845056
 SW¼ NW¼ SEC. 36, T6N, R67W, 6 PM
 WELD COUNTY, COLORADO
 REMEDIATION # 8495

Sample Location	Date	Approximate Depth (inches)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(A) anthracene (mg/kg)	Benzo(A) pyrene (mg/kg)	Benzo(B) fluoranthene (mg/kg)	Benzo(k) fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(A,H)a nthalene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(1,2,3,C,D) pyrene (mg/kg)	Pyrene (mg/kg)
COGCC Table 910-1 Regulatory Limit (mg/kg)			1,000	1,000	0.22	0.022	0.22	2.2	22	0.022	1,000	1,000	0.22	1,000
SS-11	06/21/14	3.0-4.0	<0.00833	<0.00833	<0.00833	0.169	<0.00833	<0.00833	0.795	<0.00833	<0.00833	3.55	<0.00833	<0.00833
		Approximate Depth (feet)												
TBSS-21	06/25/14	3.0	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023

COGCC = Colorado Oil and Gas Conservation Commission

mg/kg = milligrams per kilogram

Note: Values presented with a less than symbol (<) indicate concentrations were not observed at or above the laboratory reporting limit.

Values presented in bold typeface exceed their respective COGCC Regulatory Limit (Table 910-1).

TABLE 2
GROUNDWATER ANALYTICAL RESULTS SUMMARY
STATE M36-3, M36-5, 6-36, 7-36, AND 8-36
PRODUCTION TANK RELEASE
40.444259/-104.845056
SW¼ NW¼ SEC. 36, T6N, R67W, 6 PM
WELD COUNTY, COLORADO
REMEDIATION # 8495

Sample Location (Latitude/Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Table 910-1 Regulatory Limits (µg/L)		5	560	700	1400
GW-01 (40.444307 / -104.845131)	06/24/14	2470	1380	892	5890
Surface Pond (40.444856 / -104.843792)	06/24/14	<1.0	<1.0	<1.0	<1.0
SS-22-GW (40.444194133 / -104.844911559)	06/25/14	25.2	20.4	<4.0	<4.0
SS-23-GW (40.444381772 / -104.844747628)	06/25/14	11.1	<4.0	<4.0	<4.0
SS-24-GW (40.44458152 / -104.84470946)	06/25/14	<1.0	<1.0	<1.0	<1.0
SS-25-GW (40.444877225 / -104.844225377)	06/25/14	<1.0	<1.0	<1.0	<1.0
SS-26-GW (40.444844744 / -104.843751845)	06/25/14	<1.0	<1.0	<1.0	<1.0
SS-27-GW (40.443969064 / -104.845038769)	06/26/14	<1.0	<1.0	<1.0	<1.0
SS-28-GW (40.444048624 / -104.845071473)	06/26/14	<1.0	<1.0	<1.0	<1.0
SS-29-GW (40.444024316 / -104.844993703)	06/26/14	<1.0	<1.0	<1.0	<1.0
SS-31-GW (40.444159548 / -104.844851054)	06/26/14	<1.0	<1.0	<1.0	<1.0
SS-32-GW (40.444401989 / -104.844780656)	06/26/14	29.1	2.8	<1.0	4.6
SS-33-GW (40.444344011 / -104.844668852)	06/26/14	<1.0	<1.0	<1.0	<1.0
SS-34-GW (40.444609565 / -104.844739569)	06/27/14	1.6	<1.0	<1.0	<1.0
SS-35-GW (40.444527337 / -104.844575814)	06/27/14	<1.0	<1.0	<1.0	<1.0
SS-36-GW (40.444761834 / -104.844498553)	06/27/14	<1.0	<1.0	<1.0	<1.0
SS-37-GW (40.444662913 / -104.844327325)	06/27/14	<1.0	<1.0	<1.0	<1.0
SS-38-GW (40.444873363 / -104.844334236)	06/27/14	<1.0	<1.0	<1.0	<1.0
SS-39-GW (40.444815128 / -104.844179929)	06/27/14	3.5	<1.0	<1.0	<1.0
SS-40-GW (40.444992512 / -104.844184169)	06/27/14	7.8	<1.0	<1.0	<1.0

TABLE 2
GROUNDWATER ANALYTICAL RESULTS SUMMARY
STATE M36-3, M36-5, 6-36, 7-36, AND 8-36
PRODUCTION TANK RELEASE
40.444259/-104.845056
SW¼ NW¼ SEC. 36, T6N, R67W, 6 PM
WELD COUNTY, COLORADO
REMEDIATION # 8495

Sample Location (Latitude/Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Table 910-1 Regulatory Limits (µg/L)		5	560	700	1400
SS-41-GW (40.444958298 / -104.843786868)	06/27/14	<1.0	<1.0	<1.0	<1.0
SS-42-GW (40.444778035 / -104.843763308)	06/27/14	<4.0	<4.0	<4.0	<4.0
SS-43-GW (40.44488832 / -104.843703757)	06/27/14	<1.0	<1.0	<1.0	<1.0
SS-44-GW (40.444624838 / -104.843855268)	06/27/14	<1.0	<1.0	<1.0	<1.0
SS-45-GW (40.444495488 / -104.843933899)	06/27/14	<1.0	<1.0	<1.0	<1.0
SS-46-GW (40.444300036 / -104.844105806)	06/27/14	<1.0	<1.0	<1.0	<1.0
SS-47-GW (40.445050479 / -104.844150918)	06/30/14	<1.0	<1.0	<1.0	<1.0
SS-48-GW (40.44501361 / -104.844059742)	06/30/14	<1.0	<1.0	<1.0	<1.0
TBSB-01-GW (40.444470809 / -104.845024968)	06/30/14	68.1	<1.0	1.8	15.0
TBSB-02-GW (40.444347698 / -104.845291808)	06/30/14	<1.0	<1.0	<1.0	<1.0
TBSB-03-GW (40.444167498 / -104.845295342)	06/30/14	<1.0	<1.0	<1.0	<1.0

TABLE 2
GROUNDWATER ANALYTICAL RESULTS SUMMARY
STATE M36-3, M36-5, 6-36, 7-36, AND 8-36
PRODUCTION TANK RELEASE
40.444259/-104.845056
SW¼ NW¼ SEC. 36, T6N, R67W, 6 PM
WELD COUNTY, COLORADO
REMEDATION # 8495

Sample Location (Latitude/Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Table 910-1 Regulatory Limits (µg/L)		5	560	700	1400
MW-01 (40.4442984192 / -104.845097276)	10/09/14	17.7	<1.0	<1.0	4.4
	03/19/15	1.7	<1.0	<1.0	<1.0
	06/25/15	24.1	<1.0	3.0	<1.0
	09/15/15	<1.0	<1.0	<1.0	<1.0
	12/18/15	1.9	<1.0	<1.0	6.5
	03/10/16	<1.0	<1.0	1.0	1.3
	06/13/16	<1.00	<1.00	<1.00	<1.00
MW-02 (40.4443738812 / -104.845307671)	10/09/14	<1.0	<1.0	<1.0	<1.0
	03/19/15	<1.0	<1.0	<1.0	<1.0
	06/25/15	<1.0	<1.0	<1.0	<1.0
	09/15/15	<1.0	<1.0	<1.0	<1.0
	12/18/15	<1.0	<1.0	<1.0	<1.0
	03/10/16	<1.0	<1.0	<1.0	<1.0
	06/13/16	<1.00	<1.00	<1.00	<1.00
MW-03 (40.4445555982 / -104.845110257)	10/09/14	<1.0	<1.0	<1.0	<1.0
	03/19/15	11.9	<1.0	<1.0	<1.0
	04/01/15	12.9	<1.0	<1.0	<1.0
	06/25/15	17.8	<1.0	<1.0	<1.0
	09/15/15	<1.0	<1.0	<1.0	<1.0
	12/18/15	<1.0	<1.0	<1.0	<1.0
	03/10/16	<1.0	<1.0	<1.0	<1.0
	06/13/16	<1.00	<1.00	<1.00	<1.00
MW-04 (40.4442042132 / -104.845320992)	10/09/14	<1.0	<1.0	<1.0	<1.0
	03/19/15	<1.0	<1.0	<1.0	<1.0
	06/25/15	<1.0	<1.0	<1.0	<1.0
	09/15/15	<1.0	<1.0	<1.0	<1.0
	12/18/15	<1.0	<1.0	<1.0	<1.0
	03/10/16	<1.0	<1.0	<1.0	<1.0
	06/13/16	<1.00	<1.00	<1.00	<1.00
MW-05 (40.4440557552 / -104.845269544)	10/09/14	<1.0	<1.0	<1.0	<1.0
	03/19/15	<1.0	<1.0	<1.0	<1.0
	06/25/15	<1.0	<1.0	<1.0	<1.0
	07/28/15	DESTROYED			

TABLE 2
GROUNDWATER ANALYTICAL RESULTS SUMMARY
STATE M36-3, M36-5, 6-36, 7-36, AND 8-36
PRODUCTION TANK RELEASE
40.444259/-104.845056
SW¼ NW¼ SEC. 36, T6N, R67W, 6 PM
WELD COUNTY, COLORADO
REMEDATION # 8495

Sample Location (Latitude/Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Table 910-1 Regulatory Limits (µg/L)		5	560	700	1400
MW-05R (40.4440557550 / -104.845269540)	07/28/15	NS	NS	NS	NS
	09/15/15	<1.0	<1.0	<1.0	<1.0
	12/18/15	<1.0	<1.0	<1.0	<1.0
	03/10/16	<1.0	<1.0	<1.0	<1.0
	06/13/16	INA			
MW-06 (40.4446472222 / -104.844883852)	10/09/14	<1.0	<1.0	<1.0	<1.0
	03/19/15	<1.0	<1.0	<1.0	<1.0
	06/24/15	<1.0	<1.0	<1.0	<1.0
	09/15/15	<1.0	<1.0	<1.0	<1.0
	12/18/15	<1.0	<1.0	<1.0	<1.0
	03/10/16	<1.0	<1.0	<1.0	<1.0
	06/13/16	<1.00	<1.00	<1.00	<1.00
MW-07 (40.4448577152 / -104.844490124)	10/09/14	<1.0	<1.0	<1.0	<1.0
	03/19/15	<1.0	<1.0	<1.0	<1.0
	06/24/15	<1.0	<1.0	<1.0	<1.0
	09/15/15	<1.0	<1.0	<1.0	<1.0
	12/18/15	NOP			
	03/10/16	NOP			
	06/13/16	NOP			
MW-08 (40.4446005042 / -104.844397129)	10/10/14	<1.0	<1.0	<1.0	<1.0
	03/19/15	<1.0	<1.0	<1.0	<1.0
	06/25/15	<1.0	<1.0	<1.0	<1.0
	09/15/15	<1.0	<1.0	<1.0	<1.0
	12/18/15	NOP			
	03/10/16	NOP			
	06/13/16	NOP			
MW-09 (40.4450361712 / -104.844249498)	10/09/14	<1.0	<1.0	<1.0	<1.0
	03/19/15	<1.0	<1.0	<1.0	<1.0
	06/24/15	<1.0	<1.0	<1.0	<1.0
	09/15/15	<1.0	<1.0	<1.0	<1.0
	12/18/15	NOP			
	03/10/16	NOP			
	06/13/16	NOP			

TABLE 2
GROUNDWATER ANALYTICAL RESULTS SUMMARY
STATE M36-3, M36-5, 6-36, 7-36, AND 8-36
PRODUCTION TANK RELEASE
40.444259/-104.845056
SW¼ NW¼ SEC. 36, T6N, R67W, 6 PM
WELD COUNTY, COLORADO
REMEDATION # 8495

Sample Location (Latitude/Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Table 910-1 Regulatory Limits (µg/L)		5	560	700	1400
MW-10 (40.4449045162 / -104.844167041)	10/10/14	<1.0	<1.0	<1.0	<1.0
	03/19/15	<1.0	<1.0	<1.0	<1.0
	06/24/15	<1.0	<1.0	<1.0	<1.0
	09/15/15	<1.0	<1.0	<1.0	<1.0
	12/18/15	NOP			
	03/10/16	NOP			
	06/13/16	NOP			
MW-11 (40.4449911952 / -104.843986073)	10/10/14	<1.0	<1.0	<1.0	<1.0
	03/19/15	<1.0	<1.0	<1.0	<1.0
	06/24/15	<1.0	<1.0	<1.0	<1.0
	09/15/15	<1.0	<1.0	<1.0	<1.0
	12/18/15	NOP			
	03/10/16	NOP			
	06/13/16	NOP			
MW-12 (40.4448427762 / -104.843944947)	10/10/14	<1.0	<1.0	<1.0	<1.0
	03/19/15	<1.0	<1.0	<1.0	<1.0
	06/24/15	<1.0	<1.0	<1.0	<1.0
	09/15/15	<1.0	<1.0	<1.0	<1.0
	12/18/15	NOP			
	03/10/16	NOP			
	06/13/16	NOP			
MW-13 (40.4449321532 / -104.843770355)	10/10/14	<1.0	<1.0	<1.0	<1.0
	03/19/15	<1.0	<1.0	<1.0	<1.0
	06/24/15	<1.0	<1.0	<1.0	<1.0
	09/15/15	<1.0	<1.0	<1.0	<1.0
	12/18/15	NOP			
	03/10/16	NOP			
	06/13/16	NOP			
MW-14 (40.4447805932 / -104.843778042)	10/10/14	<1.0	<1.0	<1.0	<1.0
	03/19/15	<1.0	<1.0	<1.0	<1.0
	06/24/15	<1.0	<1.0	<1.0	<1.0
	09/15/15	<1.0	<1.0	<1.0	<1.0
	12/18/15	NOP			
	03/10/16	NOP			
	06/13/16	NOP			

TABLE 2
GROUNDWATER ANALYTICAL RESULTS SUMMARY
STATE M36-3, M36-5, 6-36, 7-36, AND 8-36
PRODUCTION TANK RELEASE
40.444259/-104.845056
SW¼ NW¼ SEC. 36, T6N, R67W, 6 PM
WELD COUNTY, COLORADO
REMEDATION # 8495

Sample Location (Latitude/Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Table 910-1 Regulatory Limits (µg/L)		5	560	700	1400
MW-15 (40.444233392 / -104.844971393)	03/19/15	<1.0	<1.0	<1.0	<1.0
	06/24/15	DESTROYED			
MW-15R (40.444233394 / -104.844971392)	07/28/15	NS	NS	NS	NS
	09/15/15	<1.0	<1.0	<1.0	<1.0
	12/18/15	<1.0	<1.0	<1.0	<1.0
	03/10/16	<1.0	<1.0	<1.0	<1.0
	06/13/16	<1.00	<1.00	<1.00	<1.00
MW-16 (40.4440443272 / -104.845069258)	03/19/15	<1.0	<1.0	<1.0	<1.0
	06/25/15	<1.0	<1.0	<1.0	<1.0
	09/15/15	<1.0	<1.0	<1.0	<1.0
	12/18/15	NOP			
	03/10/16	NOP			
	06/13/16	NOP			
MW-17 (40.4441232392 / -104.844816831)	03/19/15	<1.0	<1.0	<1.0	<1.0
	06/25/15	<1.0	<1.0	<1.0	<1.0
	09/15/15	<1.0	<1.0	<1.0	<1.0
	12/18/15	NOP			
	03/10/16	NOP			
	06/13/16	NOP			
MW-18 (40.4443902552 / -104.844642734)	03/19/15	<1.0	<1.0	<1.0	<1.0
	06/25/15	<1.0	<1.0	<1.0	<1.0
	09/15/15	<1.0	<1.0	<1.0	<1.0
	12/18/15	NOP			
	03/10/16	NOP			
	06/13/16	NOP			
MW-19 (40.444680924 / -104.84509023)	07/28/15	<1.0	<1.0	<1.0	<1.0
	09/15/15	<1.0	2	<1.0	<1.0
	12/18/15	<1.0	<1.0	<1.0	<1.0
	03/10/16	<1.0	<1.0	<1.0	<1.0
	06/13/16	<1.00	<1.00	<1.00	<1.00
MW-20 (40.44458423 / -104.84530123)	07/28/15	<1.0	<1.0	<1.0	<1.0
	09/15/15	<1.0	<1.0	<1.0	<1.0
	12/18/15	<1.0	<1.0	<1.0	<1.0
	03/10/16	<1.0	<1.0	<1.0	<1.0
	06/13/16	<1.00	<1.00	<1.00	<1.00
COGCC = Colorado Oil and Gas Conservation Commission µg/L - micrograms per liter NS = Not Sampled Note: Values presented with a less than symbol (<) indicate concentrations were not observed at or above the laboratory reporting limit. Values presented in bold typeface exceed their respective COGCC - Regulatory Limits (Table 910-1).					

TABLE 3
GROUNDWATER ELEVATION AND PARAMETERS SUMMARY
STATE M36-3, M36-5, 6-36, 7-36, AND 8-36
PRODUCTION TANK RELEASE
40.444259/-104.845056
SW¼ NW¼ SEC. 36, T6N, R67W, 6 PM
WELD COUNTY, COLORADO
REMEDATION # 8495

Sample Location (Latitude/Longitude)	Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Dissolved Oxygen (mg/L)	Temperature (°C)	pH	Specific Conductivity (µS/cm)	Oxidation Reduction Potential (mV)
MW-01 (40.4442984192 / -104.845097276)	10/09/14	98.56	7.53	91.03	NM	NM	NM	NM	NM
	03/19/15		5.93	92.63	0.93	8.39	7.15	2395	-181.0
	06/25/15		3.22	95.34	1.66	18.72	7.25	1691	14.7
	09/15/15		6.22	92.34	NM	NM	NM	NM	NM
	12/18/15		5.70	92.86	NM	NM	NM	NM	NM
	03/10/16		6.40	92.16	NM	NM	NM	NM	NM
	06/13/16		1.26	97.30	NM	NM	NM	NM	NM
MW-02 (40.4443738812 / -104.845307671)	10/09/14	102.11	9.00	93.11	NM	NM	NM	NM	NM
	03/19/15		8.69	93.42	0.65	8.91	6.96	2326	144.6
	06/25/15		5.55	96.56	2.11	17.76	7.20	2426	102.3
	09/15/15		8.93	93.18	NM	NM	NM	NM	NM
	12/18/15		8.45	93.66	NM	NM	NM	NM	NM
	03/10/16		8.95	93.16	NM	NM	NM	NM	NM
	06/13/16		4.14	97.97	NM	NM	NM	NM	NM
MW-03 (40.4445555982 / -104.845110257)	10/09/14	99.43	8.36	91.07	NM	NM	NM	NM	NM
	03/19/15		5.91	93.52	0.86	9.69	6.97	2119	58.4
	06/25/15		3.71	95.72	0.99	15.69	7.16	2217	-6.6
	09/15/15		6.21	93.22	NM	NM	NM	NM	NM
	12/18/15		5.86	93.57	NM	NM	NM	NM	NM
	03/10/16		6.18	93.25	NM	NM	NM	NM	NM
	06/13/16		1.63	97.80	NM	NM	NM	NM	NM
MW-04 (40.4442042132 / -104.845320992)	10/09/14	98.03	7.83	90.20	NM	NM	NM	NM	NM
	03/19/15		5.21	92.82	0.60	9.75	7.02	2338	160.3
	06/25/15		2.53	95.50	2.81	17.31	7.14	1845	125.4
	09/15/15		5.53	92.50	NM	NM	NM	NM	NM
	12/18/15		5.01	93.02	NM	NM	NM	NM	NM
	03/10/16		5.69	92.34	NM	NM	NM	NM	NM
	06/13/16		0.46	97.57	NM	NM	NM	NM	NM



TABLE 3
GROUNDWATER ELEVATION AND PARAMETERS SUMMARY
STATE M36-3, M36-5, 6-36, 7-36, AND 8-36
PRODUCTION TANK RELEASE
40.444259/-104.845056
SW¼ NW¼ SEC. 36, T6N, R67W, 6 PM
WELD COUNTY, COLORADO
REMEDATION # 8495

Sample Location (Latitude/Longitude)	Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Dissolved Oxygen (mg/L)	Temperature (°C)	pH	Specific Conductivity (µS/cm)	Oxidation Reduction Potential (mV)
MW-05 (40.4440557552 / -104.845269544)	10/09/14	97.38	6.33	91.05	NM	NM	NM	NM	NM
	03/19/15		4.68	92.70	0.73	9.28	7.06	2380	166.7
	06/25/15		2.06	95.32	1.86	18.08	7.26	1503	130.8
	07/27/15	DES	DES	DES	DES	DES	DES	DES	DES
MW-05R (40.4440557550 / -104.845269540)	07/28/15	98.06	NM	NM	NM	NM	NM	NM	NM
	09/15/15		5.07	92.99	NM	NM	NM	NM	NM
	12/18/15		4.54	93.52	NM	NM	NM	NM	NM
	03/10/16		5.25	92.81	NM	NM	NM	NM	NM
	06/13/16	INA							
MW-06 (40.4446472222 / -104.844883852)	10/09/14	100.00	8.06	91.94	NM	NM	NM	NM	NM
	03/19/15		6.50	93.50	0.97	9.88	7.06	2404	174.7
	06/24/15		3.12	96.88	1.94	17.84	7.24	2411	103.6
	09/15/15		6.73	93.27	NM	NM	NM	NM	NM
	12/18/15		5.29	94.71	NM	NM	NM	NM	NM
	03/10/16		6.86	93.14	NM	NM	NM	NM	NM
	06/13/16		2.19	97.81	NM	NM	NM	NM	NM
MW-07 (40.4448577152 / -104.844490124)	10/09/14	97.63	7.85	89.78	NM	NM	NM	NM	NM
	03/19/15		7.18	90.45	0.87	8.70	7.07	2642	175.4
	06/24/15		3.93	93.70	3.23	19.04	7.10	2556	115.3
	09/15/15		7.40	90.23	NM	NM	NM	NM	NM
	12/18/15	NOP							
	03/10/16	NOP							
	06/13/16	NOP							



TABLE 3
GROUNDWATER ELEVATION AND PARAMETERS SUMMARY
STATE M36-3, M36-5, 6-36, 7-36, AND 8-36
PRODUCTION TANK RELEASE
40.444259/-104.845056
SW¼ NW¼ SEC. 36, T6N, R67W, 6 PM
WELD COUNTY, COLORADO
REMEDATION # 8495

Sample Location (Latitude/Longitude)	Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Dissolved Oxygen (mg/L)	Temperature (°C)	pH	Specific Conductivity (µS/cm)	Oxidation Reduction Potential (mV)
MW-08 (40.4446005042 / -104.844397129)	10/10/14	100.28	7.56	92.72	NM	NM	NM	NM	NM
	03/19/15		7.14	93.14	0.84	8.45	6.84	2665	184.3
	06/25/15		4.78	95.50	3.57	16.98	6.98	4394	224.7
	09/15/15		7.38	92.90	NM	NM	NM	NM	NM
	12/18/15	NOP							
	03/10/16	NOP							
	06/13/16	NOP							
MW-09 (40.4450361712 / -104.844249498)	10/09/14	95.94	7.32	88.62	NM	NM	NM	NM	NM
	03/19/15		6.61	89.33	0.98	10.78	6.96	2762	183.4
	06/24/15		4.10	91.84	2.96	16.91	7.21	2911	112.3
	09/15/15		6.76	89.18	NM	NM	NM	NM	NM
	12/18/15	NOP							
	03/10/16	NOP							
	06/13/16	NOP							
MW-10 (40.4449045162 / -104.844167041)	10/10/14	100.72	8.20	92.52	NM	NM	NM	NM	NM
	03/19/15		7.83	92.89	1.70	7.70	6.79	2964	176.5
	06/24/15		5.13	95.59	1.60	18.42	7.16	2619	110.5
	09/15/15		8.01	92.71	NM	NM	NM	NM	NM
	12/18/15	NOP							
	03/10/16	NOP							
	06/13/16	NOP							
MW-11 (40.4449911952 / -104.843986073)	10/10/14	101.64	9.37	92.27	NM	NM	NM	NM	NM
	03/19/15		9.01	92.63	2.91	7.70	6.93	2085	163.0
	06/24/15		6.59	95.05	1.77	16.47	7.08	3116	169.1
	09/15/15		9.18	92.46	NM	NM	NM	NM	NM
	12/18/15	NOP							
	03/10/16	NOP							
	06/13/16	NOP							



TABLE 3
GROUNDWATER ELEVATION AND PARAMETERS SUMMARY
STATE M36-3, M36-5, 6-36, 7-36, AND 8-36
PRODUCTION TANK RELEASE
40.444259/-104.845056
SW¼ NW¼ SEC. 36, T6N, R67W, 6 PM
WELD COUNTY, COLORADO
REMEDATION # 8495

Sample Location (Latitude/Longitude)	Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Dissolved Oxygen (mg/L)	Temperature (°C)	pH	Specific Conductivity (µS/cm)	Oxidation Reduction Potential (mV)
MW-12 (40.4448427762 / -104.843944947)	10/10/14	100.31	7.75	92.56	NM	NM	NM	NM	NM
	03/19/15		7.40	92.91	2.74	7.18	6.62	4684	84.6
	06/24/15		4.88	95.43	2.11	15.81	7.15	2818	67.4
	09/15/15		7.58	92.73	NM	NM	NM	NM	NM
	12/18/15	NOP							
	03/10/16	NOP							
	06/13/16	NOP							
MW-13 (40.4449321532 / -104.843770355)	10/10/14	100.40	8.05	92.35	NM	NM	NM	NM	NM
	03/19/15		7.78	92.62	2.86	7.35	6.89	2193	231.6
	06/24/15		5.61	94.79	1.82	14.99	7.25	3389	44.3
	09/15/15		7.85	92.55	NM	NM	NM	NM	NM
	12/18/15	NOP							
	03/10/16	NOP							
	06/13/16	NOP							
MW-14 (40.4447805932 / -104.843778042)	10/10/14	99.91	7.01	92.90	NM	NM	NM	NM	NM
	03/19/15		6.66	93.25	2.53	7.59	6.81	2985	222.7
	06/24/15		4.35	95.56	3.12	16.26	7.19	2429	109.9
	09/15/15		6.79	93.12	NM	NM	NM	NM	NM
	12/18/15	NOP							
	03/10/16	NOP							
	06/13/16	NOP							
MW-15 (40.444233392 / -104.844971393)	03/19/15	101.84	8.59	93.25	1.28	8.85	7.07	2376	92.3
	06/24/15	DES	DES	DES	DES	DES	DES	DES	DES
MW-15R (40.444233394 / -104.844971392)	07/28/15	102.08	NM	NM	NM	NM	NM	NM	NM
	09/15/15		9.14	92.94	NM	NM	NM	NM	NM
	12/18/15		8.65	93.43	NM	NM	NM	NM	NM
	03/10/16		9.31	92.77	NM	NM	NM	NM	NM
	06/13/16		4.18	97.90	NM	NM	NM	NM	NM

TABLE 3
GROUNDWATER ELEVATION AND PARAMETERS SUMMARY
STATE M36-3, M36-5, 6-36, 7-36, AND 8-36
PRODUCTION TANK RELEASE
40.444259/-104.845056
SW¼ NW¼ SEC. 36, T6N, R67W, 6 PM
WELD COUNTY, COLORADO
REMEDIATION # 8495

Sample Location (Latitude/Longitude)	Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Dissolved Oxygen (mg/L)	Temperature (°C)	pH	Specific Conductivity (µS/cm)	Oxidation Reduction Potential (mV)
MW-16 (40.4440443272 / -104.845069258)	03/19/15	102.38	9.09	93.29	0.54	9.17	7.01	2254	24.0
	06/25/15		6.48	95.90	2.36	16.08	7.13	1726	146.4
	09/15/15		9.41	92.97	NM	NM	NM	NM	NM
	12/18/15	NOP							
	03/10/16	NOP							
	06/13/16	NOP							
MW-17 (40.4441232392 / -104.844816831)	03/19/15	102.15	8.90	93.25	2.17	8.79	7.10	2460	53.5
	06/25/15		6.31	95.84	2.34	15.35	7.31	2060	190.4
	09/15/15		9.20	92.95	NM	NM	NM	NM	NM
	12/18/15	NOP							
	03/10/16	NOP							
	06/13/16	NOP							
MW-18 (40.4443902552 / -104.844642734)	03/19/15	101.52	8.38	93.14	0.75	9.10	7.02	2389	105.0
	06/25/15		5.93	95.59	2.56	16.63	7.26	2242	198.9
	09/15/15		8.62	92.90	NM	NM	NM	NM	NM
	12/18/15	NOP							
	03/10/16	NOP							
	06/13/16	NOP							



TABLE 3
GROUNDWATER ELEVATION AND PARAMETERS SUMMARY
STATE M36-3, M36-5, 6-36, 7-36, AND 8-36
PRODUCTION TANK RELEASE
40.444259/-104.845056
SW¼ NW¼ SEC. 36, T6N, R67W, 6 PM
WELD COUNTY, COLORADO
REMEDIATION # 8495

Sample Location (Latitude/Longitude)	Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Dissolved Oxygen (mg/L)	Temperature (°C)	pH	Specific Conductivity (µS/cm)	Oxidation Reduction Potential (mV)
MW-19 (40.444680924 / -104.84509023)	07/28/15	99.68	5.92	93.76	0.73	16.20	7.51	2458	-168.0
	09/15/15		6.42	93.26	NM	NM	NM	NM	NM
	12/18/15		5.42	94.26	NM	NM	NM	NM	NM
	03/10/16		6.39	93.29	NM	NM	NM	NM	NM
	06/13/16		1.94	97.74	NM	NM	NM	NM	NM
MW-20 (40.44458423 / -104.84530123)	07/28/15	99.65	5.80	93.85	2.83	17.15	7.18	2503	-37.9
	09/15/15		6.33	93.32	NM	NM	NM	NM	NM
	12/18/15		5.98	93.67	NM	NM	NM	NM	NM
	03/10/16		6.28	93.37	NM	NM	NM	NM	NM
	06/13/16		1.77	97.88	NM	NM	NM	NM	NM

NOTES:

NM - Not Measured

INA - Inaccessible

NOP - Not on Monitoring Plan

°F = degrees Fahrenheit

mg/L = milligrams per liter

µS/cm = microsiemens per centimeter

mV = millivolts



FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Field Assessment Soil Analytical Map

Figure 4: Excavation Soil Analytical Map

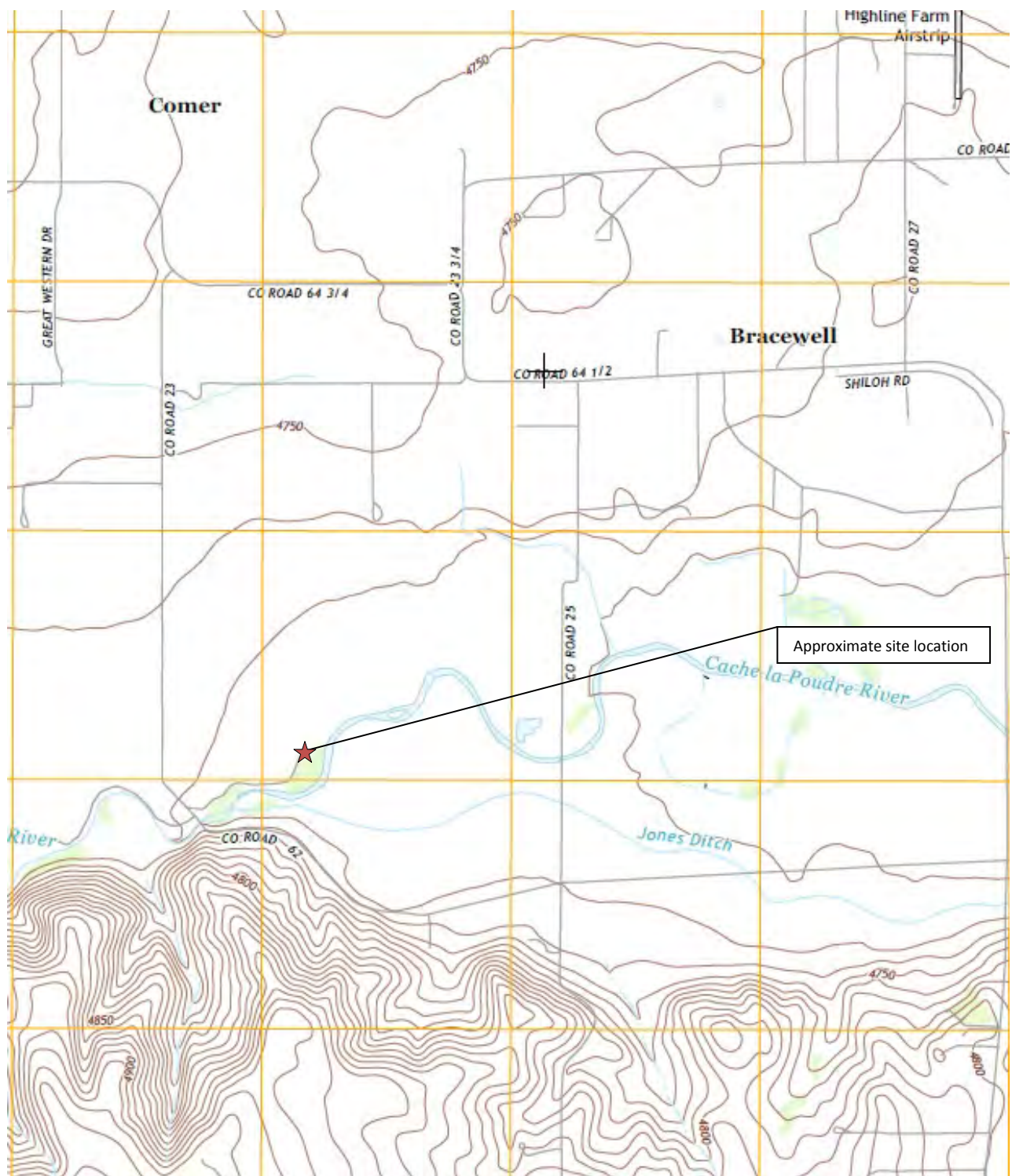
Figure 5: Monitoring Well Soil Analytical Map

Figure 6: Lower Excavation Soil Sample Location Map

Figure 7: Geologic Cross Section A-A'

Figure 8: Groundwater Elevation Map (06/13/16)

Figure 9: Groundwater Sample Location Map (06/13/16)



Topographic Site Location Map
 State M36-3, M36-5, 6-36, 7-36, and 8-36
 Production Tank Release
 40.444259/-104.845056
 SW¼ NW¼ SEC.36 T6N R67W 6PM
 Weld County, Colorado
 Remediation # 8495



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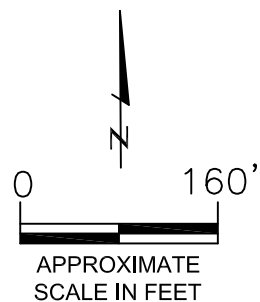
Source: USGS 7.5 Minute Topographic
 Map, Bracewell, CO Quadrangle 2013

Figure 1



LEGEND

COORDINATES OF INFRASTRUCTURE AND RELEASE LOCATION:
 RELEASE LOCATION (40.444259/-104.845056)
 TANK BATTERY (40.444274/-104.845117)



AERIAL SITE LOCATION MAP
 STATE M36-3, M36-5, 6-36, 7-36, and 8-36
 PRODUCTION TANK RELEASE
 40.444259 / -104.845056
 SW1/4 NW1/4 SEC.36 T6N R67W 6PM
 WELD COUNTY, COLORADO
 REMEDIATION # 8495

DATE: 07/08/14

FIG. NO.

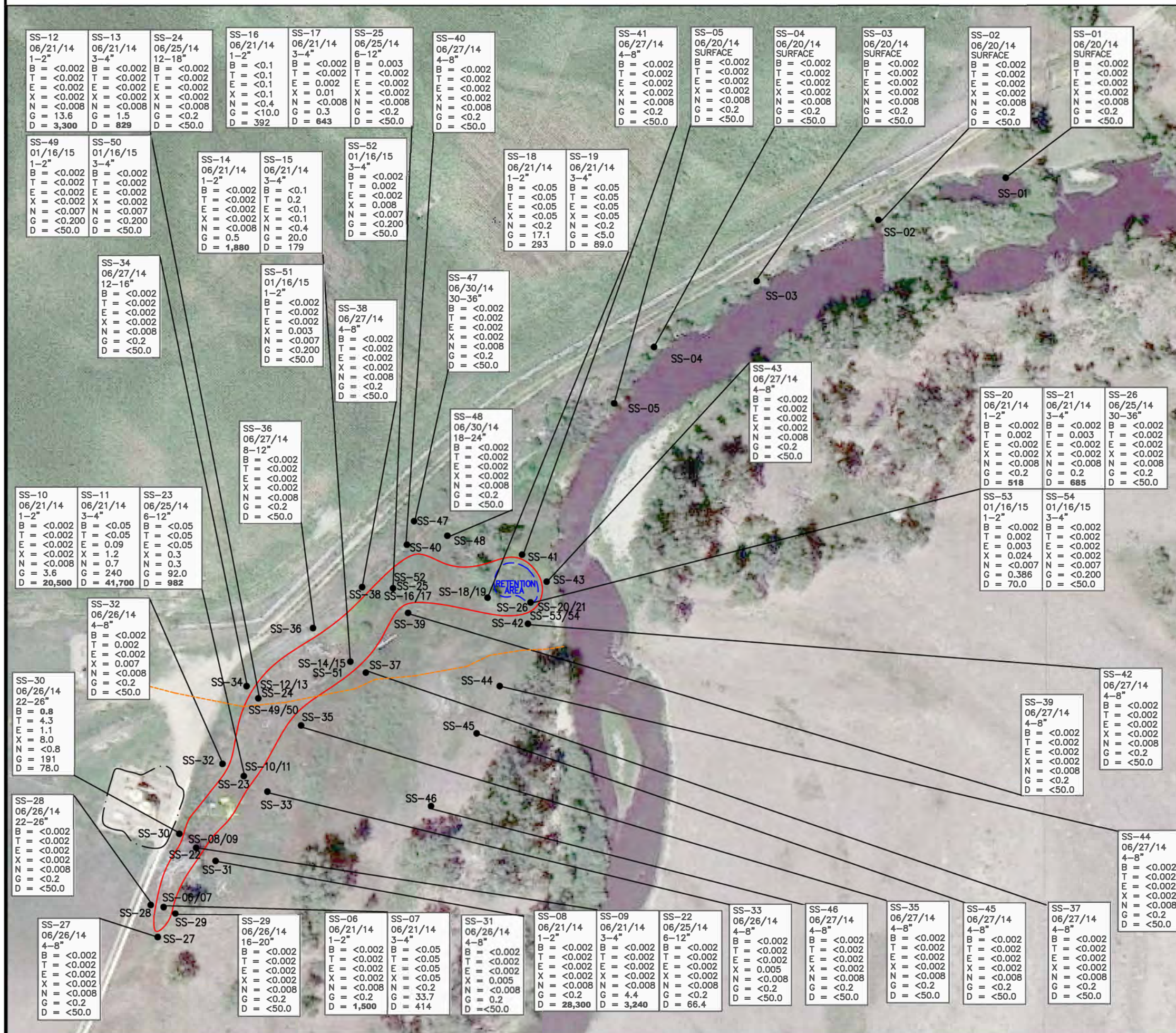
2

DRAWN BY:

mce



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 Ph: 303-433-0479 • F: 303-325-5449



- LEGEND**
- APPROXIMATE EXTENTS OF STATE M36-3, M36-5, 6-36 7-36, AND 8-36 TANK BATTERY EXCAVATION
 - APPROXIMATE EXTENT OF SURFACE STAINING
 - APPROXIMATE LOCATION OF DCP MIDSTREAM UNDERGROUND UTILITY
 - APPROXIMATE SOIL SAMPLE LOCATION

PARAMETERS

SAMPLE LOCATION
DATE
DEPTH (INCHES)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
N = NAPHTHALENE (mg/kg)
G = TPH - GRO (mg/kg)
D = TPH - DRO (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

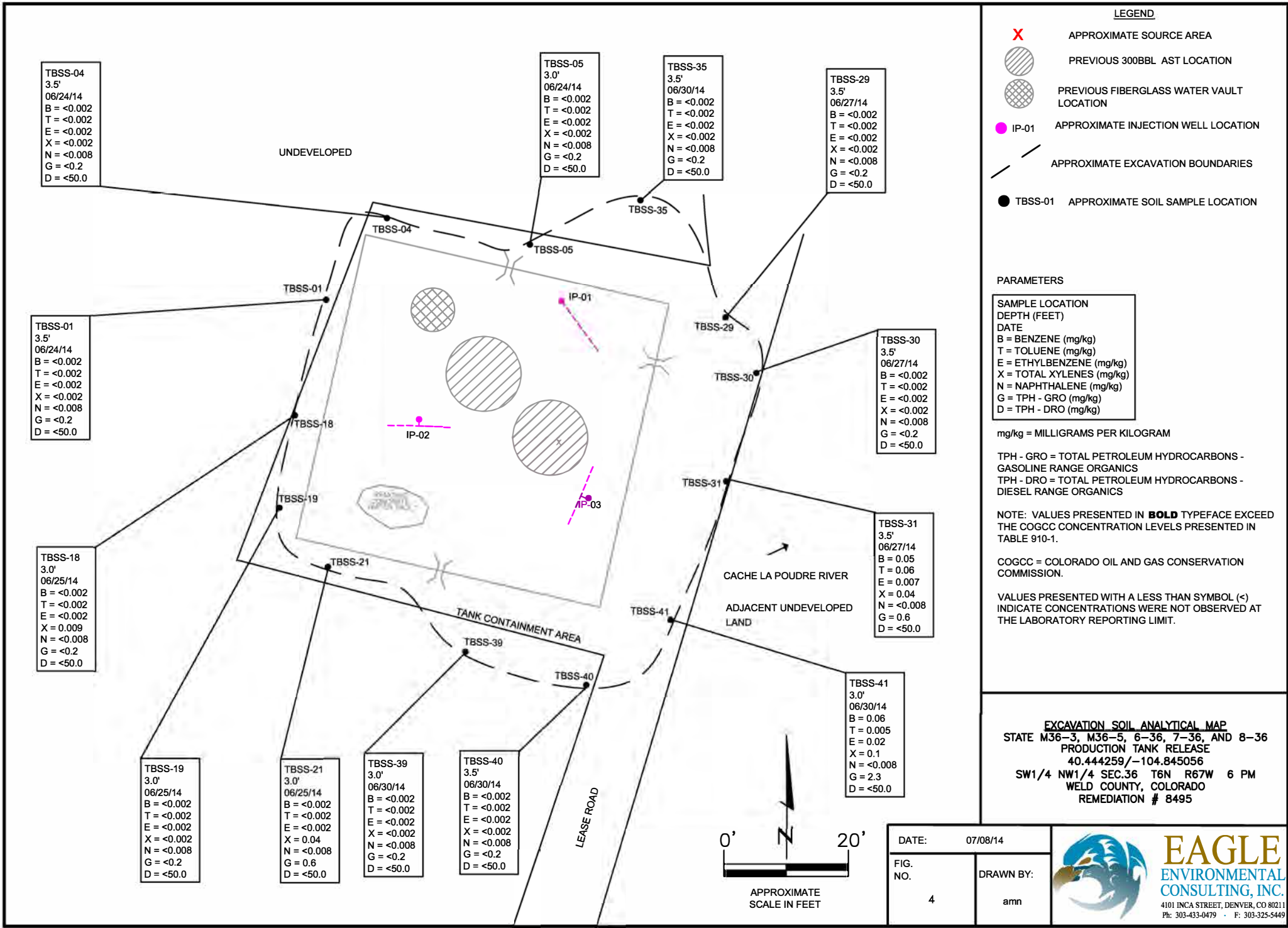
TPH - GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS
TPH - DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS

NOTE: VALUES PRESENTED IN BOLD TYPEFACE EXCEED THE COGCC CONCENTRATION LEVELS PRESENTED IN TABLE 910-1.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION.

VALUES PRESENTED WITH A LESS THAN SYMBOL (<) INDICATE CONCENTRATIONS WERE NOT OBSERVED AT OR ABOVE THE LABORATORY REPORTING LIMIT.

FIELD ASSESSMENT SOIL SAMPLE LOCATION MAP
STATE M36-3, M36-5, 6-36, 7-36, AND 8-36
PRODUCTION TANK RELEASE
40.444259/-104.845056
SW1/4 NW1/4 SEC.36 T6N R67W 6 PM
WELD COUNTY, COLORADO
REMEDATION # 8495



TBSS-04
3.5'
06/24/14
B = <0.002
T = <0.002
E = <0.002
X = <0.002
N = <0.008
G = <0.2
D = <50.0

TBSS-05
3.0'
06/24/14
B = <0.002
T = <0.002
E = <0.002
X = <0.002
N = <0.008
G = <0.2
D = <50.0

TBSS-35
3.5'
06/30/14
B = <0.002
T = <0.002
E = <0.002
X = <0.002
N = <0.008
G = <0.2
D = <50.0

TBSS-29
3.5'
06/27/14
B = <0.002
T = <0.002
E = <0.002
X = <0.002
N = <0.008
G = <0.2
D = <50.0

TBSS-01
3.5'
06/24/14
B = <0.002
T = <0.002
E = <0.002
X = <0.002
N = <0.008
G = <0.2
D = <50.0

TBSS-30
3.5'
06/27/14
B = <0.002
T = <0.002
E = <0.002
X = <0.002
N = <0.008
G = <0.2
D = <50.0

TBSS-18
3.0'
06/25/14
B = <0.002
T = <0.002
E = <0.002
X = 0.009
N = <0.008
G = <0.2
D = <50.0

TBSS-31
3.5'
06/27/14
B = 0.05
T = 0.06
E = 0.007
X = 0.04
N = <0.008
G = 0.6
D = <50.0

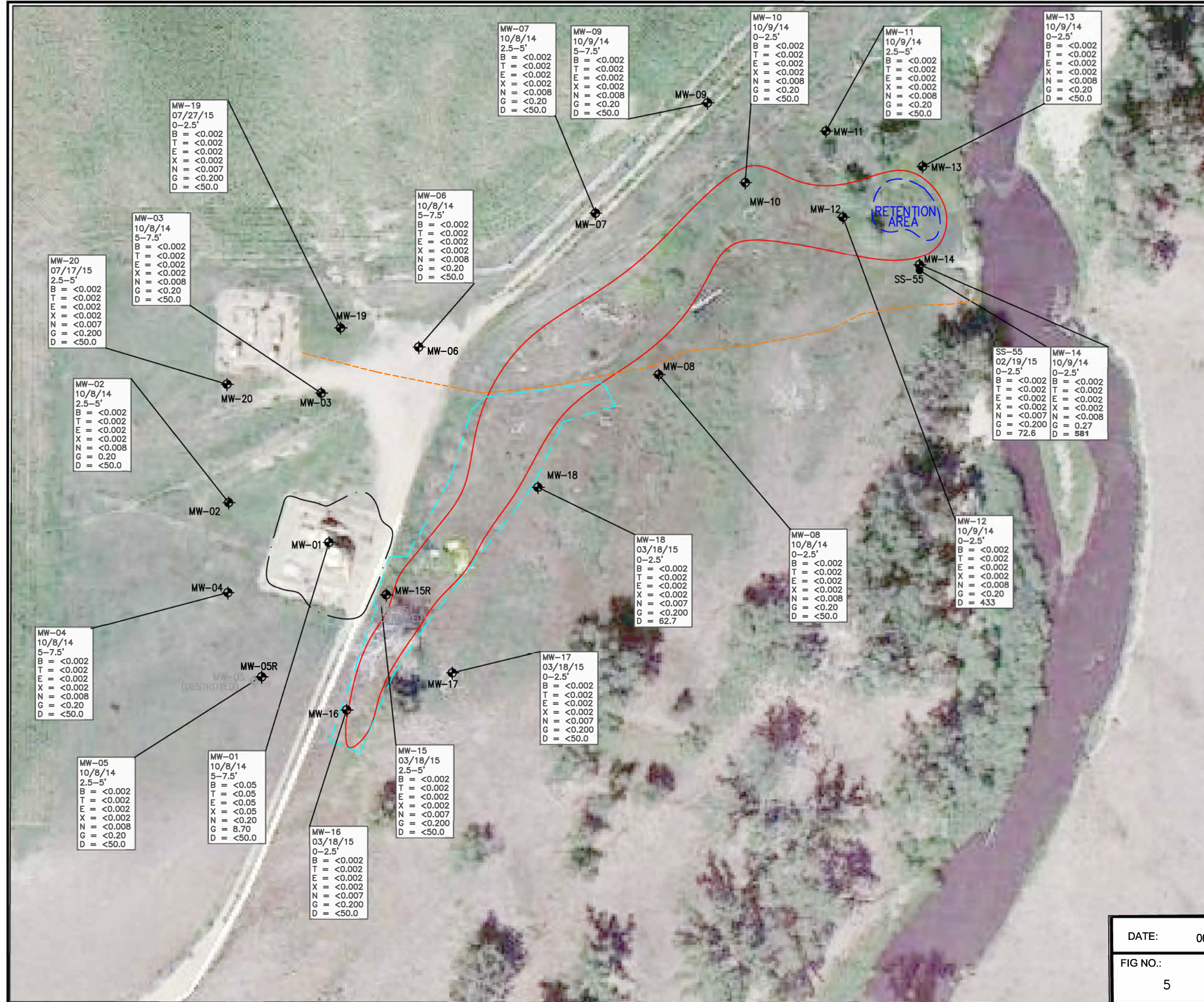
TBSS-19
3.0'
06/25/14
B = <0.002
T = <0.002
E = <0.002
X = <0.002
N = <0.008
G = <0.2
D = <50.0

TBSS-21
3.0'
06/25/14
B = <0.002
T = <0.002
E = <0.002
X = 0.04
N = <0.008
G = 0.6
D = <50.0

TBSS-39
3.0'
06/30/14
B = <0.002
T = <0.002
E = <0.002
X = <0.002
N = <0.008
G = <0.2
D = <50.0

TBSS-40
3.5'
06/30/14
B = <0.002
T = <0.002
E = <0.002
X = <0.002
N = <0.008
G = <0.2
D = <50.0

TBSS-41
3.0'
06/30/14
B = 0.06
T = 0.005
E = 0.02
X = 0.1
N = <0.008
G = 2.3
D = <50.0



LEGEND

- APPROXIMATE EXTENTS OF STATE M36-3, M36-5, 6-36 7-36, AND 8-36 TANK BATTERY EXCAVATION
- APPROXIMATE EXTENT OF SURFACE STAINING
- APPROXIMATE LOCATION OF ABANDONED DCP MIDSTREAM UNDERGROUND UTILITY
- APPROXIMATE LOWER EXCAVATION EXTENTS
- APPROXIMATE MONITORING WELL LOCATIONS
- APPROXIMATE SOIL BORING LOCATION

PARAMETERS

SAMPLE LOCATION
DATE
DEPTH (INCHES)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
N = NAPHTHALENE (mg/kg)
G = TPH - GRO (mg/kg)
D = TPH - DRO (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

TPH - GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS
TPH - DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS

NOTE: VALUES PRESENTED IN **BOLD** TYPEFACE EXCEED THE COGCC CONCENTRATION LEVELS PRESENTED IN TABLE 910-1.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION.

VALUES PRESENTED WITH A LESS THAN SYMBOL (<) INDICATE CONCENTRATIONS WERE NOT OBSERVED AT OR ABOVE THE LABORATORY REPORTING LIMIT.

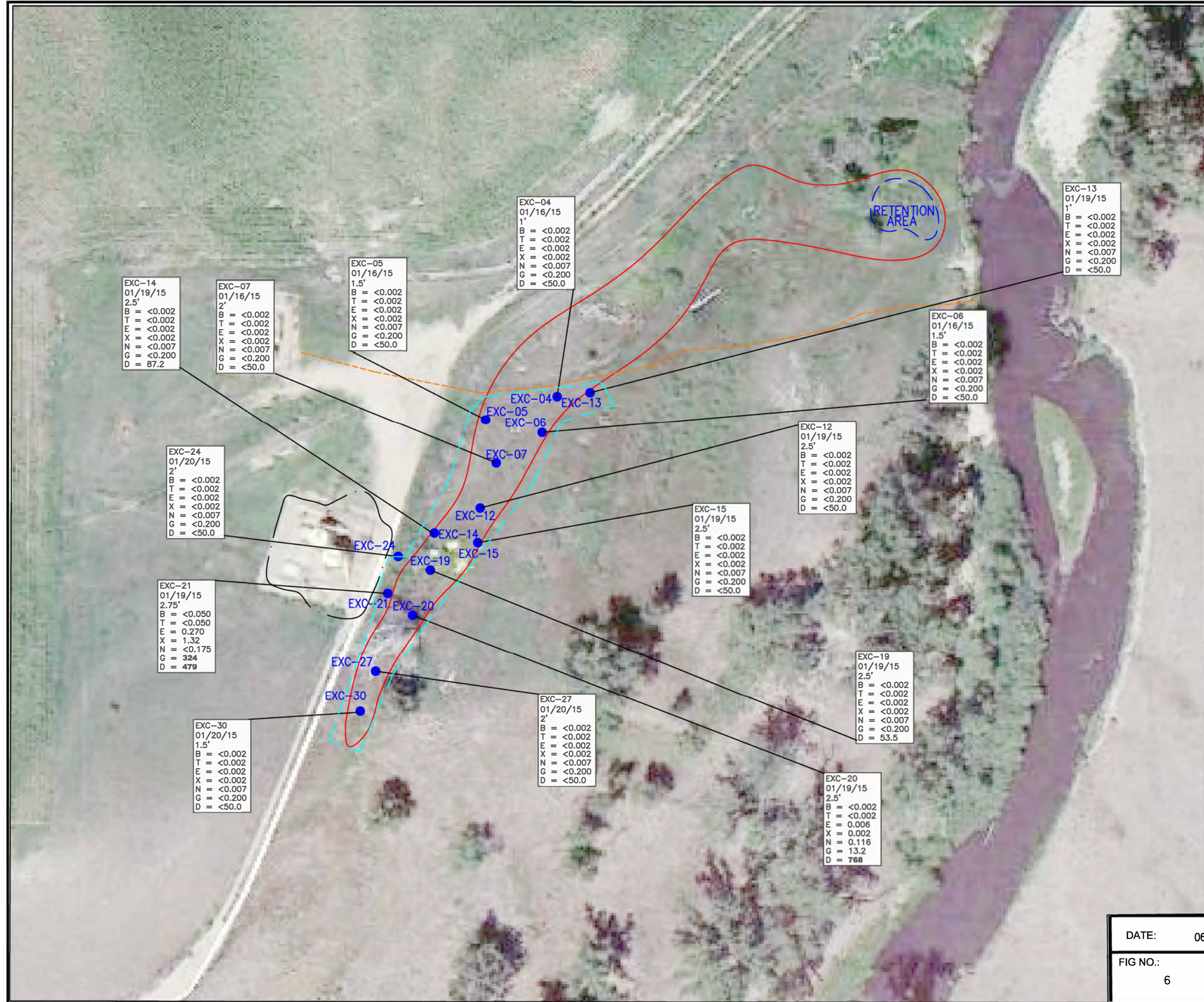
SOIL SAMPLE SS-55 WAS COLLECTED AS A CONFIRMATION SOIL SAMPLE FOR THE TPH-DRO EXCEEDANCE IN MONITORING WELL MW-14.

APPROXIMATE SCALE IN FEET

MONITORING WELL SOIL SAMPLE ANALYTICAL MAP
STATE M36-3, M36-5, 6-36, 7-36, AND 8-36
PRODUCTION TANK RELEASE
40.444259/-104.845056
SW1/4 NW1/4 SEC.36 T6N R67W 6 PM
WELD COUNTY, COLORADO
REMEDATION # 8495

DATE:	06/15/16
FIG NO.:	5
DRAWN BY:	amn

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LEGEND

- APPROXIMATE EXTENTS OF STATE M36-3, M36-5, 6-36 7-36, AND 8-36 TANK BATTERY EXCAVATION
- APPROXIMATE EXTENT OF SURFACE STAINING
- APPROXIMATE LOCATION OF ABANDONED DCP MIDSTREAM UNDERGROUND UTILITY
- APPROXIMATE LOWER EXCAVATION EXTENTS
- EXC-01 APPROXIMATE SOIL SAMPLE LOCATION SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION
DATE
DEPTH (FEET)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
N = NAPHTHALENE (mg/kg)
G = TPH - GRO (mg/kg)
D = TPH - DRO (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

TPH - GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS
TPH - DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS

PID - PHOTOIONIZATION DETECTOR

NOTE: VALUES PRESENTED IN **BOLD** TYPEFACE EXCEED THE COGCC CONCENTRATION LEVELS PRESENTED IN TABLE 910-1.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION.


VALUES PRESENTED WITH A LESS THAN SYMBOL (<) INDICATE CONCENTRATIONS WERE NOT OBSERVED AT OR ABOVE THE LABORATORY REPORTING LIMIT.

0 60'

APPROXIMATE SCALE IN FEET

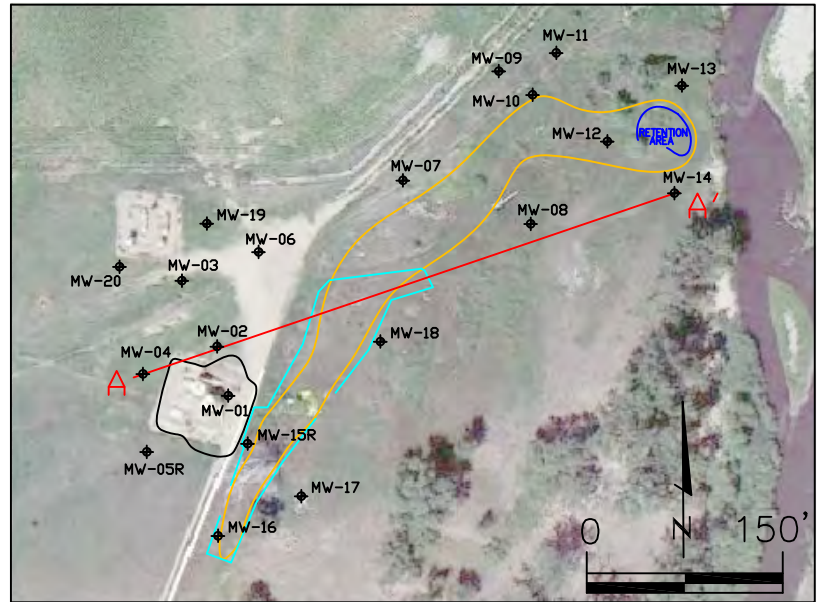
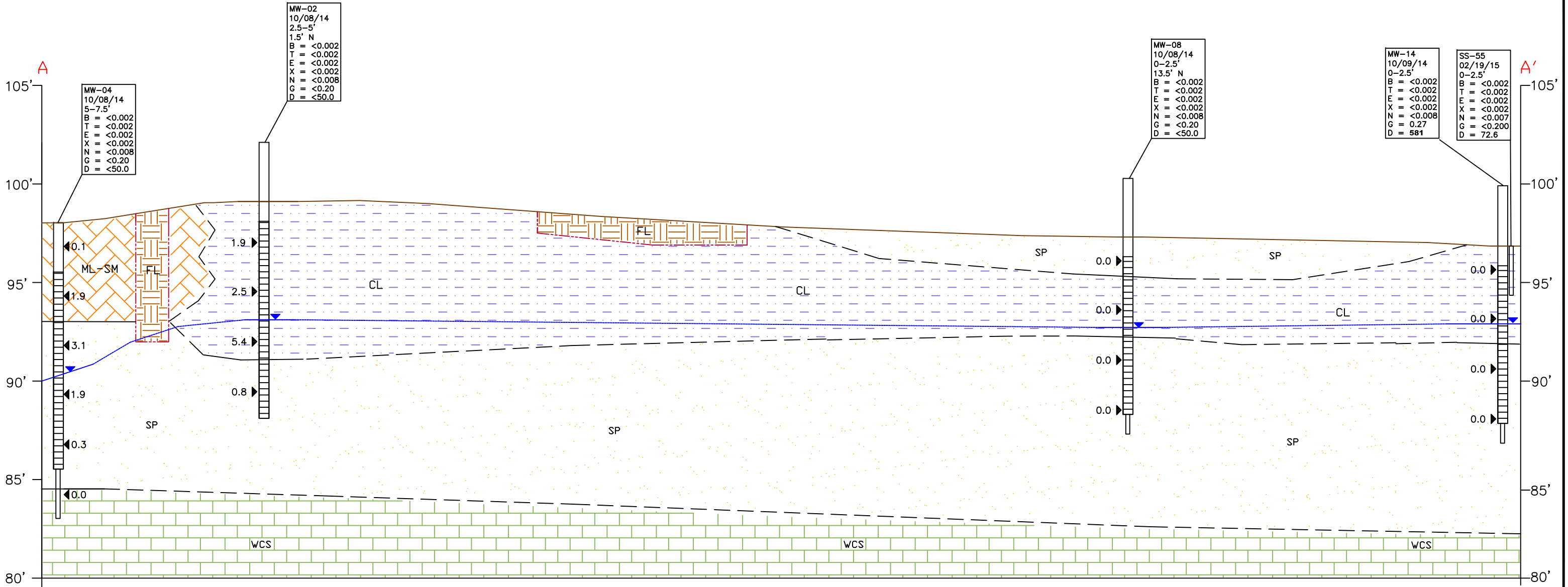
LOWER EXCAVATION SOIL ANALYTICAL MAP
STATE M36-3, M36-5, 6-36, 7-36, AND 8-36
PRODUCTION TANK RELEASE
40.444259/-104.845056
SW1/4 NW1/4 SEC.36 T6N R67W 6 PM
WELD COUNTY, COLORADO
REMEDATION # 8495

DATE:	06/15/16
FIG NO.:	6
DRAWN BY:	amn



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GEOLOGIC CROSS-SECTION A-A'



LEGEND

- FL FILL
- ML-SM SANDY SILT/SILTY SAND
- CL CLAY (WITH SANDY/SILTY LENSES)
- SP SAND
- WCS WEATHERED CLAYSTONE

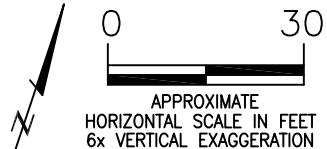
- GROUND SURFACE
- EXCAVATION BOUNDARIES
- OBSERVED CONTACT
- INFERRED CONTACT
- OBSERVED GROUNDWATER (10/09/14 & 10/10/14)
- LINE OF CROSS SECTION

PARAMETERS

SAMPLE LOCATION
DATE
DEPTH (FEET)
OFFSET FROM A-A' (FEET-DIRECTION)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
G = TPH-GRO (mg/kg)
D = TPH-DRO (mg/kg)
N = NAPHTHALENE (mg/kg)

- PVC RISER/STICK UP
- PID (ppm-v)
- SLOTTED SCREEN
- VERTICAL DEFINITION
- ppm-v = PARTS PER MILLION BY VOLUME

mg/kg = MILLIGRAMS PER KILOGRAM
TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS
TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS
NOTE: VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE THE LABORATORY REPORTING LIMIT
VALUES PRESENTED IN BOLD TYPEFACE EXCEED THEIR RESPECTIVE COGCC TABLE 910-1 REGULATORY LIMIT.
COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION



GEOLOGIC CROSS SECTION (A-A')
STATE M36-3, M36-5, 6-36, 7-36 & 8-36
PRODUCTION TANK RELEASE
40.444259 / -104.845056
SW1/4 NW1/4 SEC.36 T6N R67W 6PM
WELD COUNTY, COLORADO
REMEDATION # 8495





LEGEND

- APPROXIMATE EXTENTS OF STATE M36-3, M36-5, 6-36, 7-36, AND 8-36 TANK BATTERY EXCAVATION
- APPROXIMATE LOCATION OF ABANDONED DCP MIDSTREAM UNDERGROUND UTILITY
- APPROXIMATE LOWER EXCAVATION EXTENTS
- APPROXIMATE MONITORING WELL LOCATIONS

(NOP) - NOT ON SAMPLING PLAN
(INA) - INACCESSIBLE

PARAMETERS

SAMPLE LOCATION	DATE
B = BENZENE (µg/L)	
T = TOLUENE (µg/L)	
E = ETHYLBENZENE (µg/L)	
X = TOTAL XYLENES (µg/L)	

µg/L = MICROGRAMS PER LITER

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION.

VALUES PRESENTED WITH A LESS THAN SYMBOL (<) INDICATE CONCENTRATIONS WERE NOT OBSERVED AT OR ABOVE THE LABORATORY REPORTING LIMIT.

MONITORING WELL MW-15 WAS OBSERVED DESTROYED DURING THE JUNE 2015 GROUNDWATER SAMPLING EVENT. MW-05 WAS OBSERVED DESTROYED DURING THE JULY MONITORING WELL INSTALL EVENT. MW-05 AND MW-15 WERE REPLACED 7/27/15.

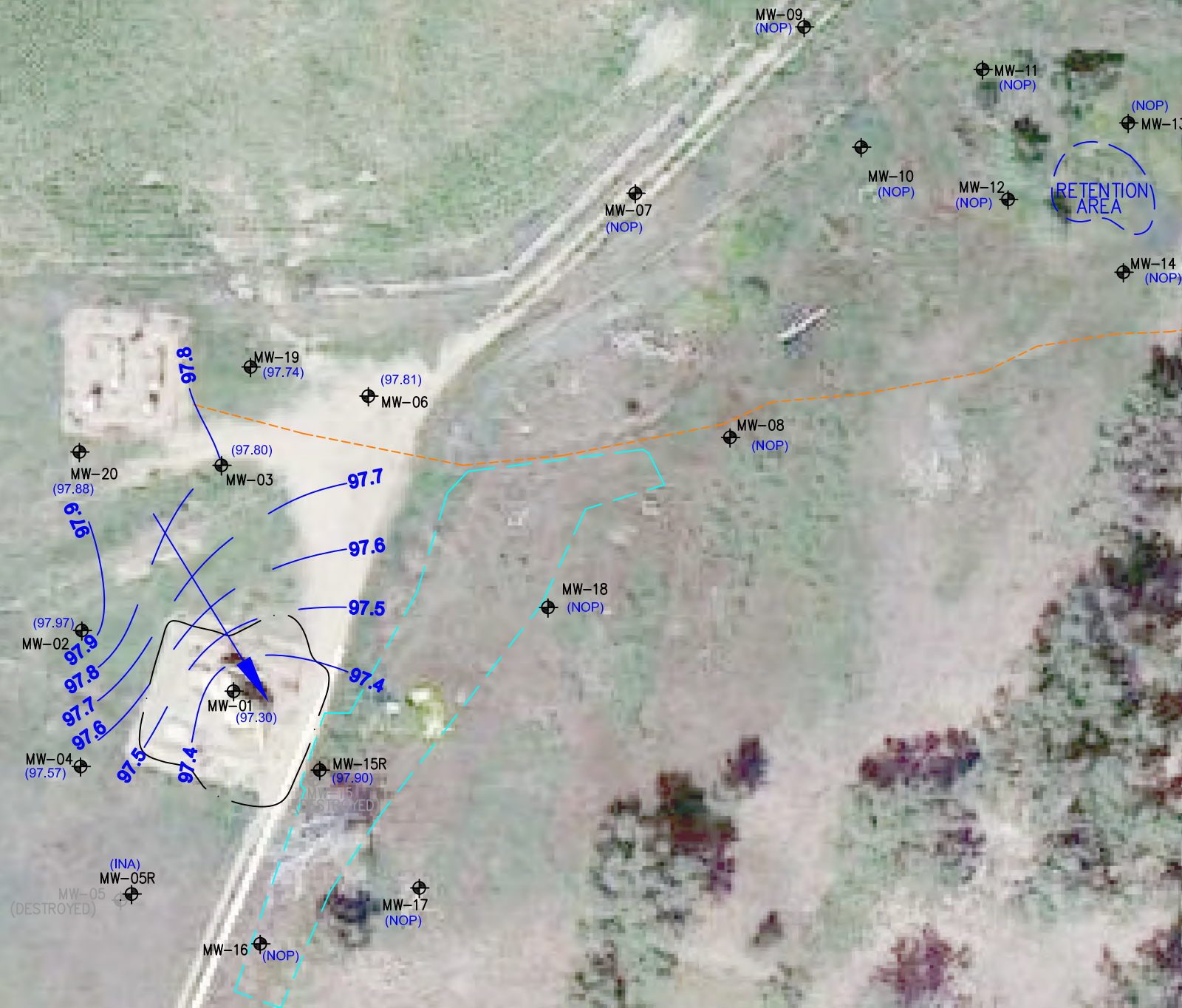
NOTE: TANK BATTERY LAYOUT HAS BEEN MODIFIED SINCE AERIAL WAS TAKEN. AERIAL NOT UP TO DATE WITH CURRENT TANK BATTERY LAYOUT.

0 60'
APPROXIMATE SCALE IN FEET

GROUNDWATER SAMPLE LOCATION MAP
(06/13/16)
STATE M36-3, M36-5, 6-36, 7-36, AND 8-36
PRODUCTION TANK RELEASE
40.444259/-104.845056
SW1/4 NW1/4 SEC.36 T6N R67W 6 PM
WELD COUNTY, COLORADO
REMEDATION # 8495

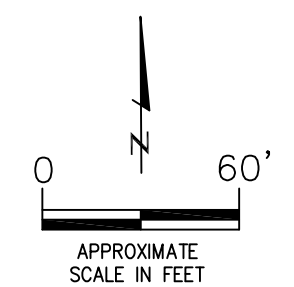
DATE:	06/22/16
FIG NO.:	8
DRAWN BY:	amn

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- LEGEND
- APPROXIMATE EXTENTS OF STATE M36-3, M36-5, 6-36 7-36, AND 8-36 TANK BATTERY EXCAVATION
 - APPROXIMATE LOCATION OF ABANDONED DCP MIDSTREAM UNDERGROUND UTILITY
 - APPROXIMATE LOWER EXCAVATION EXTENTS
 - APPROXIMATE MONITORING WELL LOCATIONS
 - (NOP) - NOT ON SAMPLING PLAN
 - (INA) - INACCESSIBLE
 - (98.25) GROUNDWATER ELEVATION (FT.)
 - INFERRED GROUNDWATER ELEVATION CONTOUR (FT.)
 - APPROXIMATE GROUNDWATER FLOW DIRECTION
- FT. = FEET

NOTE:
GROUNDWATER ELEVATION DATA COLLECTED 06/13/16. DATA COLLECTED FROM MONITORING WELL MW-15R WAS NOT USED DURING CONSTRUCTION OF INFERRED GROUNDWATER ELEVATION CONTOURS



GROUNDWATER ELEVATION MAP
(06/13/16)
STATE M36-3, M36-5, 6-36, 7-36, AND 8-36
PRODUCTION TANK RELEASE
40.444259/-104.845056
SW1/4 NW1/4 SEC.36 T6N R67W 6 PM
WELD COUNTY, COLORADO
REMEDIATION # 8495

DATE:	06/22/16
FIG NO.:	9
DRAWN BY:	amn



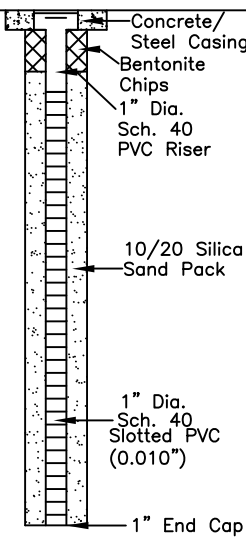
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ATTACHMENT A

Boring Logs/Monitoring Well Completion Diagrams

Boring Log/Well Completion Diagram: MW-01

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-5') FILL - sand and gravel, brown, fine to coarse grained, poorly sorted with ~10% fine gravel, dry to moist, N/O, N/S.	FL	GP	1	60	0.0	N/A			H2O @~7.5'
						2.1				
5	@5-7.5' some black staining, slight to strong odor.	GP	2	80	80	244.8	N/A			
						139.2				
10	(7.5-15') clayey SAND - brown and black, loose, fine to coarse grained, well sorted with ~5% clay, moist to wet, strong odor, black HC staining.	SC SP	GP	3	90	7.3	N/A			
	@ 10' - N/O, N/S					2.6				
15	BoB @ 15'									
20										
25										
30										

FL - FILL
HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

START/COMPLETION DATE: 10/08/2014

SAND PACK INTERVAL (FEET): 1.5-12

PROJECT: STATE M36-3, M36-5, 6-36, 7-36, 8-36

BENTONITE/GROUT INTERVAL (FEET): 0.5-1.5

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 2-12.5

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 15

WELL DEPTH (FEET): 12.5

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 0935/1015

SAMPLE COLLECTION DEPTH (FEET)/TIME: 5-7.5/0955

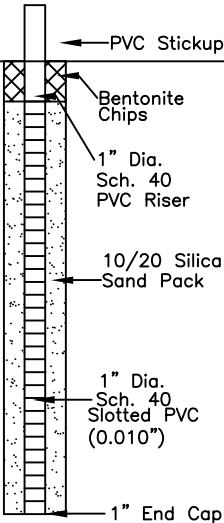


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Boring Log/Well Completion Diagram: MW-02

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-5') sandy silty CLAY - dark brown, soft, well sorted with ~10% silt, trace silt, dry to moist, N/O, N/S.	CL	GP	1	100	1.9	N/A			H2O @~5.5-6'
5	(5-9') CLAY - gray, very soft, mod. plasticity, wet, slight odor and staining.					2.5				
10	(9-11') SAND - brown and tan, fine to medium grained, dense, well sorted, wet, N/O, N/S.	SP	GP	2	100	5.4	N/A			
	BoB @ 11'					0.8				
15										
20										
25										
30										

FL - FILL
HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

START/COMPLETION DATE: 10/08/2014

SAND PACK INTERVAL (FEET): 1-11

PROJECT: STATE M36-3, M36-5, 6-36, 7-36, 8-36

BENTONITE/GROUT INTERVAL (FEET): 0.5-1

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 1-11

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 11

WELL DEPTH (FEET): 11

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1200/1240

SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5-5/1212

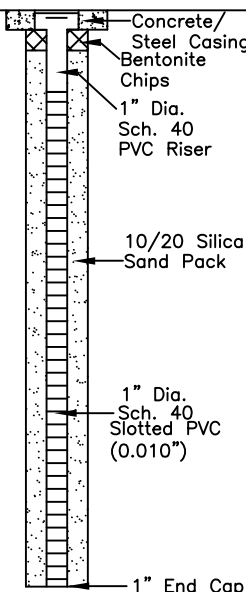


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Boring Log/Well Completion Diagram: MW-03

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-5') silty CLAY - brown, soft, low plasticity, well-sorted w/~10% silt, moist N/O, N/S.	CL	GP	1	100	0.1	N/A			H2O @~9'
						0.1				
5	(5-9') CLAY - brown and gray, soft, mod. plasticity, N/O, weathered staining, moist - wet.	CL	GP	2	100	1.8	N/A	5		
						1.4				
10	(9-14') SAND - black and brown, fine grained, well-sorted, N/O, weathered staining, wet	SP	GP	3	100	1.2	N/A	10		
						1.0				
15	BoB @ 14'							15		
20								20		
25								25		
30								30		

FL - FILL
HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground
surface

START/COMPLETION DATE: 10/08/2014

SAND PACK INTERVAL (FEET): 1-14

PROJECT: STATE M36-3, M36-5, 6-36, 7-36, 8-36

BENTONITE/GROUT INTERVAL (FEET): 0-1

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 2-14

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 15

WELL DEPTH (FEET): 14

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1445/1515

SAMPLE COLLECTION DEPTH (FEET)/TIME: 5-7.5/1562

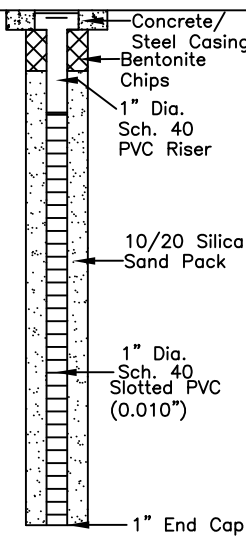


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Boring Log/Well Completion Diagram: MW-04

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-2') sandy SILT - dark brown, ~10% fine sand.	ML				0.1	N/A		 <p>Concrete/ Steel Casing Bentonite Chips 1" Dia. Sch. 40 PVC Riser 10/20 Silica Sand Pack 1" Dia. Sch. 40 Slotted PVC (0.010") 1" End Cap</p>	H2O @~7.5'
	(2-5') silty SAND - dark brown, loose, fine to medium grained, well sorted with ~20% silt, moist, N/O, N/S.	SM	GP	1	100	1.9				
5	(5-13.5') SAND - brown and tan, loose, fine to medium grained, well sorted, moist to wet, N/O, N/S	SP	GP	2	100	3.1	N/A	5		
						1.9				
10			GP	3	100	0.3	N/A	10		
						0.0				
15	(13.5-15') weathered CLAYSTONE - brownish gray, N/O, N/S.	WCS						15		
	BoB @ 15'									
20								20		
25								25		
30										

FL - FILL
HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground
surface

START/COMPLETION DATE: 10/08/2014

SAND PACK INTERVAL (FEET): 1.5-12.5

PROJECT: STATE M36-3, M36-5, 6-36, 7-36, 8-36

BENTONITE/GROUT INTERVAL (FEET): 0.5-1.5

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 2.5-12.5

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 15

WELL DEPTH (FEET): 12.5

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1105/1150

SAMPLE COLLECTION DEPTH (FEET)/TIME: 5-7.5/1115

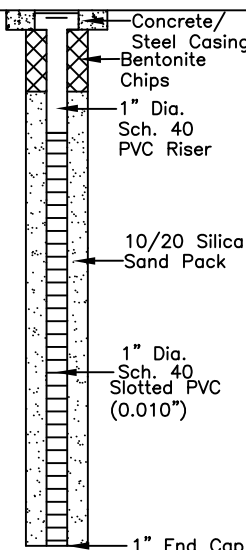


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Boring Log/Well Completion Diagram: MW-05

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-6') sandy SILT - dark brown, loose, well sorted with ~10% fine to medium grained sand, dry to moist, N/O, N/S.	ML	GP	1	100	0.3	N/A	0		H2O @~8.0'
5	(6-8.5') SAND - brown and tan, fine to coarse grained, loose, moist, N/O, N/S.					1.5		5		
10	(8.5-14') SAND - brown and tan, loose, fine to coarse grained, well sorted, wet, N/O, N/S.	SP	GP	2	100	0.7	N/A	10		
15	(14-15') weathered CLAYSTONE - with sand, brown, N/O, N/S.					0.9		15		
20	BoB @ 15'	WCS	GP	3	100	0.2	N/A	20		
25						0.4		25		
30								30		

FL - FILL
HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground
surface

START/COMPLETION DATE: 10/08/2014

SAND PACK INTERVAL (FEET): 2-13

PROJECT: STATE M36-3, M36-5, 6-36, 7-36, 8-36

BENTONITE/GROUT INTERVAL (FEET): 0.5-2

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 3-13

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 15

WELL DEPTH (FEET): 13

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1030/1100

SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5-5/1040

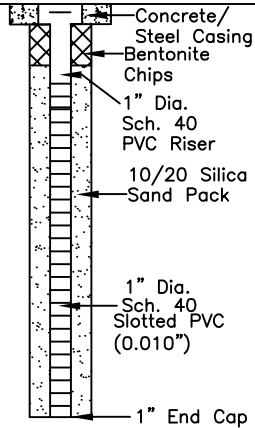


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Boring Log/Well Completion Diagram: MW-05R

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-6') sandy clayey SILT - dark brown to brown, dry-moist, loose, low to moderate plasticity, poorly graded, with trace sand, 20% clay, N/O N/S	ML	GP	1	70	0.4	N/A		 <p>Concrete/ Steel Casing Bentonite Chips 1" Dia. Sch. 40 PVC Riser 10/20 Silica Sand Pack 1" Dia. Sch. 40 Slotted PVC (0.010") 1" End Cap</p>	H2O @~7'
						0.2				
5	(6-10') SAND - brown + tan, moist-wet, loose, fine to coarse grained, rounded, poorly graded, N/O N/S	SP	GP	2	80	0.2	N/A	5		
						0.0				
10	BoB @ 10'							10		
15								15		
20								20		
25								25		
30										HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface

START/COMPLETION DATE: 07/27/2015

SAND PACK INTERVAL (FEET): 1-10

PROJECT: STATE M36-3, M36-5, 6-36, 7-36, 8-36

BENTONITE/GROUT INTERVAL (FEET): 0-1

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 2-10

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 10

WELL DEPTH (FEET): 10

PID INSTRUMENT: MiniRAE 3000 - PID #6

TIME STARTED/COMPLETED: 1205/1250

SAMPLE COLLECTION DEPTH (FEET)/TIME: 0-2.5/1215

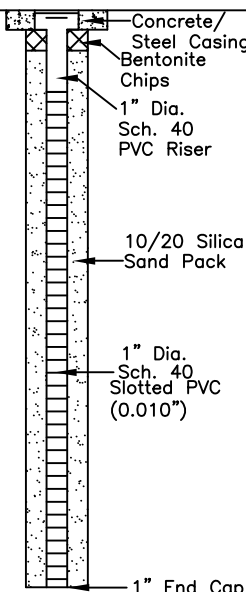


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Boring Log/Well Completion Diagram: MW-06

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-5') silty sandy CLAY - dark brown to brown, soft, low plasticity, well-sorted w/~25% fine to medium grained sand and ~5% silt, dry to moist, N/O, N/S.	CL	GP	1	75	1.3	N/A		 <p>Concrete/ Steel Casing Bentonite Chips 1" Dia. Sch. 40 PVC Riser 10/20 Silica Sand Pack 1" Dia. Sch. 40 Slotted PVC (0.010") 1" End Cap</p>	H2O @~9.0'
						1.0				
5	(5-15') SAND - brown and tan, loose, fine-medium grained, well-sorted, moist to wet, N/O, N/S.	SP	GP	2	100	1.7	N/A	5		
						1.9				
10			GP	3	80	1.4	N/A	10		
						0.8				
15	BoB @ 15'							15	<p>FL - FILL HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface</p>	
20								20		
25								25		
30										

START/COMPLETION DATE: 10/08/2014

SAND PACK INTERVAL (FEET): 1-14

PROJECT: STATE M36-3, M36-5, 6-36, 7-36, 8-36

BENTONITE/GROUT INTERVAL (FEET): 0.5-1

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 2-14

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 15

WELL DEPTH (FEET): 14

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1410/1440

SAMPLE COLLECTION DEPTH (FEET)/TIME: 5-7.5/1420

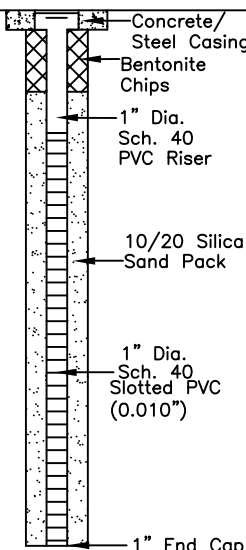


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Boring Log/Well Completion Diagram: MW-07

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DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-7.5') sandy silty CLAY - dark brown to brown, mod. stiff, low plasticity, well-sorted w/~20% fine to medium grained sand and ~10% silt, dry to moist, N/O, N/S.	CL	GP	1	80	1.7	N/A			H2O @ ~8.0'
						1.9				
5		GP	2	80	80	1.6	N/A	5		
						1.2				
10	(7.5-15') gravelly SAND - brown and tan, fine to coarse grained, loose to mod. dense, well-sorted with trace gravels, moist to wet, N/O, N/S.	SP	GP	3	80	0.4	N/A	10		
						0.0				
15	BoB @ 15'							15		
20								20		
25								25		
30								30		

FL - FILL
HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

START/COMPLETION DATE: 10/08/2014

SAND PACK INTERVAL (FEET): 2-13

PROJECT: STATE M36-3, M36-5, 6-36, 7-36, 8-36

BENTONITE/GROUT INTERVAL (FEET): 0-2

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 3-13

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 15

WELL DEPTH (FEET): 13

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1335/1405

SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5-5/1350

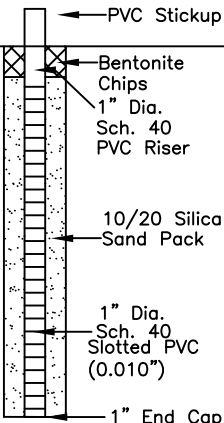


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Boring Log/Well Completion Diagram: MW-08

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DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-2.5') SAND - brown and tan, loose, fine to medium grained, well sorted, moist, N/O, N/S.	SP	GP	1	85	0.0	N/A			H2O @~3.0'
2.5	(2.5-5') CLAY - blackish brown, mod plasticity, soft, well sorted, slight odor, organic black staining, wet.	CL				0.0				
5	(5-10') SAND - brown and tan, fine to coarse grained, well sorted, wet, N/O, N/S.	SP	GP	2	75	0.0	N/A			
10	BoB @ 10'					0.0				
15										
20										
25										
30										

HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

START/COMPLETION DATE: 10/09/2014

SAND PACK INTERVAL (FEET): 0.75-9

PROJECT: STATE M36-3, M36-5, 6-36, 7-36, 8-36

BENTONITE/GROUT INTERVAL (FEET): 0-0.75

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 1-9

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 10

WELL DEPTH (FEET): 9

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1220/1247

SAMPLE COLLECTION DEPTH (FEET)/TIME: 0-2.5/1233

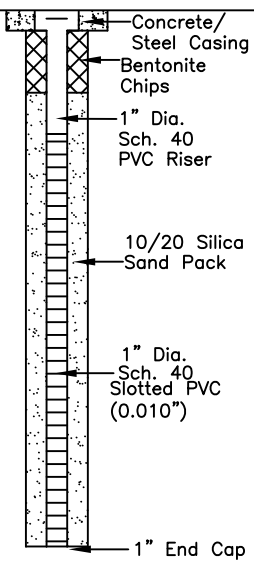


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Boring Log/Well Completion Diagram: MW-09

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-7') sandy silty CLAY - brown, soft, low plasticity, well-sorted w/~ 15% fine to medium grained sand and ~10% silt, dry to moist, N/O, N/S.	CL	GP	1	75	2.1	N/A			H2O @~8.0'
						2.3				
5		SC	GP	2	100	2.6	N/A			
	(7-10') clayey SAND - brown, fine to medium grained, loose, well-sorted w/~25% clay, moist to wet, N/O, N/S.					1.3				
10	(10-15') SAND - brown and tan, fine to medium grained, loose to mod. dense, well sorted, wet, N/O, N/S.	SP	GP	3	80	0.7	N/A			
						0.5				
15	BoB @ 15'									
20										
25										
30										

HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground
surface

START/COMPLETION DATE: 10/08/2014

SAND PACK INTERVAL (FEET): 2-13

PROJECT: STATE M36-3, M36-5, 6-36, 7-36, 8-36

BENTONITE/GROUT INTERVAL (FEET): 0-2

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 3-13

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 15

WELL DEPTH (FEET): 13

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1305/1331

SAMPLE COLLECTION DEPTH (FEET)/TIME: 5-7.5/1315

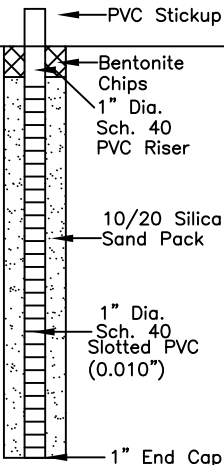


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Boring Log/Well Completion Diagram: MW-10

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-4.5') sandy silty CLAY - brown, soft, low to mod. plasticity, well-sorted w/~10% fine grained sand and ~5% silt, dry to moist, N/O, N/S.	CL	GP	1	100	0.0	N/A			H2O @~4-4.5'
5	(4.5-10') SAND - brown, loose, fine to coarse grained, well sorted w/ trace gravel, wet, N/O, N/S.	SP	GP	2	90	0.0	N/A	5		
10	BoB @ 10'					0.0		10		
15								15		
20								20		
25								25		
30								30		

HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground
surface

START/COMPLETION DATE: 10/09/2014

SAND PACK INTERVAL (FEET): 0.75-10

PROJECT: STATE M36-3, M36-5, 6-36, 7-36, 8-36

BENTONITE/GROUT INTERVAL (FEET): 0-0.75

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 1-10

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 10

WELL DEPTH (FEET): 10

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 0955/1012

SAMPLE COLLECTION DEPTH (FEET)/TIME: 0-2.5/1005

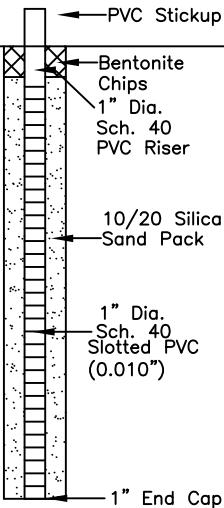


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Boring Log/Well Completion Diagram: MW-11

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-8') sandy silty CLAY - brown, soft, low to mod plasticity, well sorted with ~10% silt, trace sand, dry to wet, N/O, N/S.	CL	GP	1	90	0.0	N/A	0		H2O @~5.0'
5						0.2		5		
10	(8-10') SAND - brown, loose, fine to coarse grained, well sorted, wet, N/O, N/S.	SP	GP	2	100	0.0	N/A	10		
						0.0				
	BoB @ 11'									
15								15		
20								20		
25								25		
30								30		

HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground
surface

START/COMPLETION DATE: 10/09/2014

SAND PACK INTERVAL (FEET): 0.75-11

PROJECT: STATE M36-3, M36-5, 6-36, 7-36, 8-36

BENTONITE/GROUT INTERVAL (FEET): 0-0.75

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 1-11

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 11

WELL DEPTH (FEET): 11

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 0932/0950

SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5-5/0944

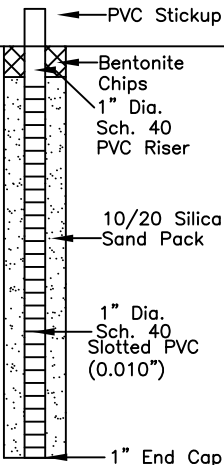


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Boring Log/Well Completion Diagram: MW-12

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DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-4.5') sandy silty CLAY - brown, soft, low to mod plasticity, well-sorted w/ ~15% silt and 10% fine grained sand, dry to moist, N/O, N/S.	CL	GP	1	100	0.0	N/A			H2O @~4.5'
5	(4.5-10') SAND - brown, loose, fine to coarse grained, well sorted w/ trace gravel, wet, N/O, N/S.	SP	GP	2	90	0.0	N/A	5		
10	BoB @ 10'					0.0		10		
15								15		
20								20		
25								25		
30								30		

HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground
surface

START/COMPLETION DATE: 10/09/2014

SAND PACK INTERVAL (FEET): 0.75-10

PROJECT: STATE M36-3, M36-5, 6-36, 7-36, 8-36

BENTONITE/GROUT INTERVAL (FEET): 0-0.75

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 1-10

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 10

WELL DEPTH (FEET): 10

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1020/1040

SAMPLE COLLECTION DEPTH (FEET)/TIME: 0-2.5/1030

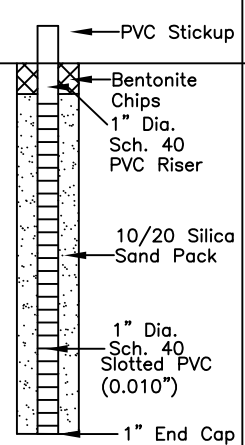


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Boring Log/Well Completion Diagram: MW-13

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-3') sandy silty CLAY - dark brown to brown, soft, low to mod. plasticity, well-sorted w/~20% silt and ~10% fine grained sand, moist to wet, N/O, N/S.	CL	GP	1	100	0.0	N/A		 <p>Diagram labels: PVC Stickup, Bentonite Chips, 1" Dia. Sch. 40 PVC Riser, 10/20 Silica Sand Pack, 1" Dia. Sch. 40 Slotted PVC (0.010"), 1" End Cap</p>	H2O @~3.5'
5	(3-9') CLAY - brownish gray, high plasticity, soft, strong odor and gray staining @5'.					0.0				
10	(9-10') SAND -brown, fine grained, loose, well-sorted wet, N/O, N/S.	SP	GP	2	100	0.5	N/A			
10	BoB @ 10'					0.2				
15										
20										
25										
30										

HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

START/COMPLETION DATE: 10/09/2014

SAND PACK INTERVAL (FEET): 0.75-9

PROJECT: STATE M36-3, M36-5, 6-36, 7-36, 8-36

BENTONITE/GROUT INTERVAL (FEET): 0-0.75

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 1-9

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 10

WELL DEPTH (FEET): 9

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1047/1110

SAMPLE COLLECTION DEPTH (FEET)/TIME: 0-2.5/1100



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Diagram illustrating the components of a PVC Stickup assembly:

- PVC Stickup
- Bentonite Chips
- 1" Dia. Sch. 40 PVC Riser
- 10/20 Silica Sand Pack
- 1" Dia. Slotted PVC (0.010")
- 1" End Cap

HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground
surface

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Boring Log/Well Completion Diagram: SS-55

PAGE 1 OF 1

DEPTH (FEET)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FEET)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	silty CLAY - soft, high plasticity, medium to dark brown ~10-15% silt, N/O, N/S, very moist	CL	HA	1	100	162.2	N/A			
0.5		CL	HA	2	100	23.9	N/A			
1.0	silty clayey SAND lense - med to dark brown, coarse grained with ~10% clay, 20% silt, few gravels, poorly sorted, N/O, N/S.	SP	HA	3	100	23.5	N/A			
1.5	CLAY - 5% silt, very soft, medium to dark brown, high plasticity, moderately moist, N/O, N/S.	CL	HA	4	100	27.3	N/A			
2.0		CL	HA	5	100	64.8	N/A			
2.5	BoB @ 2.5'									
										0-2.5' sample, PID = 111.6 HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface

START/COMPLETION DATE: 02/19/15

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-3, M 36-5, 6-36, 7-36, 8-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: R. LOCKWOOD

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (Feet): 2.5

WELL DEPTH (FEET): NA

PID INSTRUMENT: MiniRAE 3000 (PID #7)

TIME STARTED/COMPLETED: 1010-1030

SAMPLE COLLECTION DEPTH (FEET)/TIME: 0-2.5'/1035

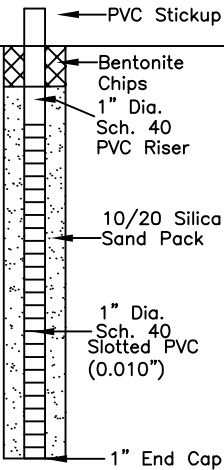


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Boring Log/Well Completion Diagram: MW-15

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-6.5') sandy clayey SILT - dark brown, moist to wet, soft, low plasticity, moderately graded with little clay and trace fine-grained sand, N/O, N/S.	ML	GP	1	70	1.3	N/A			H2O @~4.5-5'
						1.5				
5	(6.5-10') gravelly SAND - brown and tan, wet, loose, subrounded to rounded, fine to coarse grained, poorly graded with little to trace gravel, N/O, N/S.	SP	GP	2	20	2.6	N/A			
						2.0				
10	BoB @ 10'									
15										
20										
25										
30										

HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground
surface

START/COMPLETION DATE: 03/18/2015

SAND PACK INTERVAL (FEET): 1-10

PROJECT: STATE M36-3, M36-5, 6-36, 7-36, 8-36

BENTONITE/GROUT INTERVAL (FEET): 0-1

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 2-10

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 10

WELL DEPTH (FEET): 10

PID INSTRUMENT: MiniRAE 3000 - PID #6

TIME STARTED/COMPLETED: 905/920

SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5-5/917

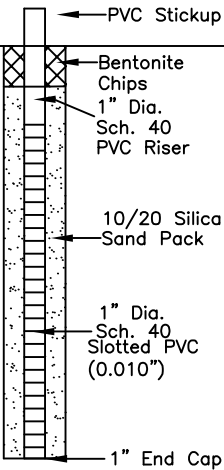


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Boring Log/Well Completion Diagram: MW-15R

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DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-2') sandy GRAVEL - brown to dark brown, dry-moist, loose, rounded, fine to coarse grained, with 40% sand, N/O N/S	SP	GP	1	80	6.9	N/A			H2O @~7.5'
2.5	(2-5') silty SAND - brown to dark brown, moist, rounded, fine to medium grained, with 20% silt N/O N/S	SM				2.0				
5	(5-9') CLAY - brown and gray, soft, moderate plasticity, moist-wet, weathered stains, N/O	CL	GP	2	80	5.9	N/A	5		
9	(9-10') SAND - brown, wet, loose, fine to medium grained, poorly graded, N/O N/S	SP				4.7				
10	BoB @ 10'							10		
15								15		
20								20		
25								25		
30								30		

HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

START/COMPLETION DATE: 07/27/2015

SAND PACK INTERVAL (FEET): 1-10

PROJECT: STATE M36-3, M36-5, 6-36, 7-36, 8-36

BENTONITE/GROUT INTERVAL (FEET): 0-1

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 2-10

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 10

WELL DEPTH (FEET): 10

PID INSTRUMENT: MiniRAE 3000 - PID #6

TIME STARTED/COMPLETED: 1005/1030

SAMPLE COLLECTION DEPTH (FEET)/TIME: 0-2.5/1020

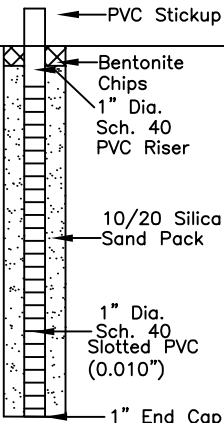
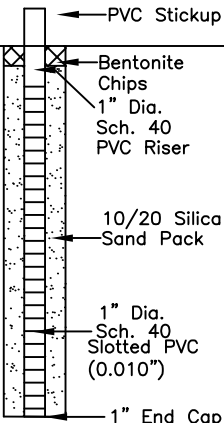


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Boring Log/Well Completion Diagram: MW-16

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-4.5') clayey SILT - dark brown, moist to wet, soft, low to moderate plasticity, moderately graded with little to trace clay, N/O, N/S	ML	GP	1	75	1.1	N/A			H2O @ ~3.5'
						1.6				
5	(4.5-6') SAND - brown and tan, wet, loose, sub-rounded to rounded, fine to medium grained, poorly graded, N/O, N/S	SP	GP	2	50	2.7	N/A	5		
	(6-10') gravelly SAND - brown and tan, wet, loose, sub-rounded, fine to coarse grained, poorly graded with little fine-coarse grained gravel, N/O, N/S.					2.3				
10	BoB @ 10'							10		HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
30										

START/COMPLETION DATE: 03/18/2015

SAND PACK INTERVAL (FEET): 0.5-10

PROJECT: STATE M36-3, M36-5, 6-36, 7-36, 8-36

BENTONITE/GROUT INTERVAL (FEET): 0-0.5

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 1-9

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 10

WELL DEPTH (FEET): 9

PID INSTRUMENT: MiniRAE 3000 - PID #6

TIME STARTED/COMPLETED: 845/900

SAMPLE COLLECTION DEPTH (FEET)/TIME: 0-2.5/850

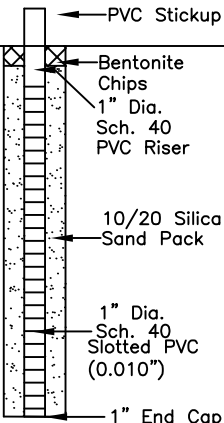


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Boring Log/Well Completion Diagram: MW-17

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-4') clayey sandy SILT - dark brown, moist to wet, soft, low to moderate plasticity, poorly graded with few fine grained sand and trace clay, N/O, N/S	ML	GP	1	80	2.4	N/A			H2O @~2.75'
						1.1				
5	(4-10') gravelly SAND - brown and tan, wet, loose, sub-rounded, fine to coarse grained, poorly graded with trace fine-coarse grained gravel, N/O, N/S.	SP	GP	2	50	1.7	N/A	5		
						1.3				
10	BoB @ 10'							10		
15								15		
20								20		
25								25		
30										

HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

START/COMPLETION DATE: 03/18/2015

SAND PACK INTERVAL (FEET): 0.5-10

PROJECT: STATE M36-3, M36-5, 6-36, 7-36, 8-36

BENTONITE/GROUT INTERVAL (FEET): 0-0.5

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 1-9

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 10

WELL DEPTH (FEET): 9

PID INSTRUMENT: MiniRAE 3000 - PID #6

TIME STARTED/COMPLETED: 925/940

SAMPLE COLLECTION DEPTH (FEET)/TIME: 0-2.5/930

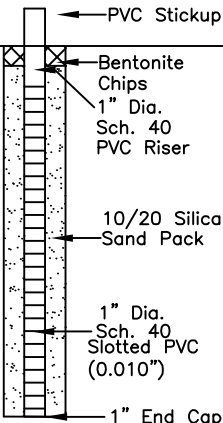


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Boring Log/Well Completion Diagram: MW-18

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DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-3') clayey sandy SILT - dark brown, moist to wet, soft, low to moderate plasticity, moderately graded with few fine grained sand and trace clay, N/O, N/S	ML	GP	1	75	2.9	N/A			H2O @~2.5'
5	(3-10') gravelly SAND - brown and tan, wet, loose, sub-rounded, fine to coarse grained, poorly graded with trace fine-coarse grained gravel, N/O, N/S.					1.7		5		
		SP	GP	2	40	2.0	N/A			
						0.8				
10	BoB @ 10'							10		
15								15		
20								20		
25								25		
30										HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface

START/COMPLETION DATE: 03/18/2015

SAND PACK INTERVAL (FEET): 0.5-10

PROJECT: STATE M36-3, M36-5, 6-36, 7-36, 8-36

BENTONITE/GROUT INTERVAL (FEET): 0-0.5

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 1-9

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 10

WELL DEPTH (FEET): 9

PID INSTRUMENT: MiniRAE 3000 - PID #6

TIME STARTED/COMPLETED: 945/1002

SAMPLE COLLECTION DEPTH (FEET)/TIME: 0-2.5/951

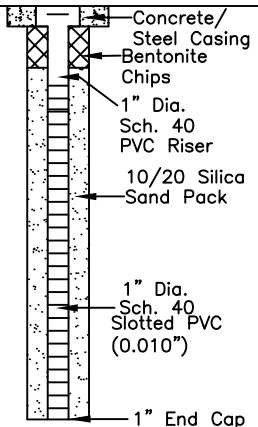


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Boring Log/Well Completion Diagram: MW-19

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-1') silty, gravelly, SAND - dark brown, dry, loose, rounded, fine to coarse grained, poorly graded, with 20% gravel, 10% silt, N/O N/S	SP	GP	1	90	0.5	N/A			H2O @~6'
	(1-8') silty CLAY/CLAY - brown to dark brown, soft, moderate plasticity, moist-wet, weathered gray/black HC stains, N/O (trace silty 5-8')	GP				0.0				
5		CL			0.4	N/A	5			
	(8-10') gravelly SAND - gray and black, wet, loose, fine to coarse grained, poorly graded, with 10% gravel N/O, with HC staining	GP	2	80	0.1		10			
10	BoB @ 10'	SP					10			
15							15			
20							20			
25							25			
30										

HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

START/COMPLETION DATE: 07/27/2015

SAND PACK INTERVAL (FEET): 1-10

PROJECT: STATE M36-3, M36-5, 6-36, 7-36, 8-36

BENTONITE/GROUT INTERVAL (FEET): 0-1

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 2-10

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 10

WELL DEPTH (FEET): 10

PID INSTRUMENT: MiniRAE 3000 - PID #6

TIME STARTED/COMPLETED: 1040/1110

SAMPLE COLLECTION DEPTH (FEET)/TIME: 0-2.5/1055



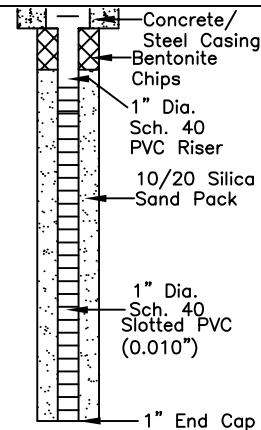
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Boring Log/Well Completion Diagram: MW-20

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-1') silty, gravelly, SAND - dark brown, dry, loose, rounded, fine to coarse grained, poorly graded, with 20% gravel, 10% silt, N/O N/S	SP	GP	1	80	0.0	N/A			H2O @~6'
5	(1-6') silty CLAY/CLAY - brown to dark brown, soft, moderate plasticity, moist-wet, poorly graded, with 15% silt, N/O N/S	CL				0.0				
6	(6-10') gravelly SAND - brown + tan, wet, loose, fine to coarse grained, rounded, poorly graded, with 25% gravel N/O N/S	SP	GP	2	80	0.0	N/A			
10	BoB @ 10'					0.0				
15										
20										
25										
30										



HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

START/COMPLETION DATE: 07/27/2015

SAND PACK INTERVAL (FEET): 1-10

PROJECT: STATE M36-3, M36-5, 6-36, 7-36, 8-36

BENTONITE/GROUT INTERVAL (FEET): 0-1

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 2-10

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 10

WELL DEPTH (FEET): 10

PID INSTRUMENT: MiniRAE 3000 - PID #6

TIME STARTED/COMPLETED: 1125/1200

SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5-5/1137



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Boring Log/Well Completion Diagram: SS-22

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DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-30" sandy silty CLAY - dark brown, soft, low plasticity, mod sorted with 5% fine grained sand, 15-20% silt, strong odor, sheen	CL								
	@6-14"moist									
	6-12" strong HC odor		HA	1	100	0.2	N/A	12		
12	@14" wet w/ LPH.		HA	2	100	3.6	N/A			
	@12-18" strong HC odor, staining.									
	@18-24" strong HC odor, staining.		HA	3	100	0.3	N/A	24		
24	@24-30" Slight HC odor.		HA	4	100	2.7	N/A			
	30-48" silty clayey SAND - gray, fine to coarse grained sand, poorly sorted with 10% silt, 10-15% clay, wet	SC	HA	5	100	1.3	N/A	36		
36	@36-48" slight HC odor		HA	6	100	1.1	N/A			
	@42" light brown		HA	7	100	1.9	N/A	48		
48	BoB @ 48"									
60								60		

SS collected @ 0943
GW Collected @ 1156
Water: yellow-LPH,
strong odor, clear.

HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground
surface

START/COMPLETION DATE: 06/25/2014

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: H. PHILLIPS

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (INCHES): 48

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 2000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (INCHES)/TIME: 6-12/0943



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Boring Log/Well Completion Diagram: SS-23

PAGE 1 OF 1

DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-12" sandy silty CLAY - dark brown, soft, med plasticity, poorly sorted with 5% medium grained sand, 15% silt, moist.	CL								
	6-18" strong HC odor, N/S.		HA	1	100	56.6	N/A			
12	@12" wet 12-30" organics-plant material, moist, wet.	PT	HA	2	100	1.3	N/A	12		
	@ 14" strong odor.									
	@18-24".		HA	3	100	3.6	N/A			
24	@24-30" Slight odor.		HA	4	100	3.0	N/A	24		
	30-36" sandy silty CLAY - dark brown, soft, med plasticity, poorly sorted with 5% medium grained sand, 15% silt, wet, slight HC odor, N/S.	CL	HA	5	100	4.3	N/A			
36								36		
	36-42" silty SAND - medium brown, fine to coarse grained sand, poorly sorted with 10-15% silt, wet, N/O, N/S.	SM	HA	6	100	0.9	N/A			
	BoB @ 42"									
48								48		
60								60		

DTW - 12"
SS collected @ 1113
GW Collected @ 1334
Water: clear, N/O, slight sheen.

HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

START/COMPLETION DATE: 06/25/2014

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: H. PHILLIPS

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (INCHES): 42

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 2000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (INCHES)/TIME: 6-12/1113



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Boring Log/Well Completion Diagram: SS-24

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DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-30" silty CLAY - dark brown, soft, high plasticity, mod sorted with 10% silt, mod moist, wet @20" N/O, N/S.	CL	HA	1	100	0.3	N/A	12		
12			HA	2	100	0.3	N/A			
24			HA	3	100	0.4	N/A	24		
			HA	4	100	0.5	N/A			
36	30-36" silty clayey SAND - medium to dark brown, fine to coarse grained sand, mod sorted with 5% silt, 10-15% clay, wet, N/O, N/S, @32" light brown.	SC	HA	5	100	0.3	N/A	36		
	BoB @ 36"									DTW - 21" SS collected @ 1314 GW Collected @ 1359 Water: clear, N/O. HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
48								48		
60								60		

START/COMPLETION DATE: 06/25/2014

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: H. PHILLIPS

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (INCHES): 36

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 2000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (INCHES)/TIME: 12-18/1314



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Boring Log/Well Completion Diagram: SS-25

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DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-36" sandy silty CLAY - dark brown, soft, high plasticity, well sorted with 5% fine grained sand, 10% silt, mod moist, N/S. @6-30" slight HC odor.	CL								
			HA	1	100	0.3	N/A	12		
12			HA	2	100	0.1	N/A			
	@18" moist.		HA	3	100	0.5	N/A	24		
24	@20" wet.									
	@24" decrease in sand.		HA	4	100	0.3	N/A			
	@30-36" N/O, N/S.		HA	5	100	0.1	N/A	36		
36	BoB @ 36"									DTW: 14" SS collected @ 1436 GW Collected @ 1445 Water: clear, N/O.
48								48		
	30-36" silty clayey SAND - medium to dark brown, fine to coarse grained sand, mod sorted with 5% silt, 10-15% clay, wet, N/O, N/S, @32" light brown.									HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
60								60		

START/COMPLETION DATE: 06/25/2014

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: H. PHILLIPS

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (INCHES): 36

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 2000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (INCHES)/TIME: 6-12/1436



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Boring Log/Well Completion Diagram: SS-26

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DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-48" sandy silty CLAY - medium to dark brown, soft, low plasticity, moderately sorted with 5-10% fine grained sand, 15-20% silt, mod moist.									
12	@12-24" slight odor, N/S.	CL	HA	1	100	0.2	N/A	12		
24	@24-48" N/O, N/S.		HA	2	100	0.3	N/A			
			HA	3	100	0.2	N/A	24		
	@30-48" Iron present.		HA	4	100	0.1	N/A			
			HA	5	100	0.4	N/A			
36	@36" wet.		HA	6	100	0.5	N/A	36		
	@40-48" gray.		HA	7	100	0.1	N/A			
48								48		
	BoB @ 48"									
60								60		

DTW: 44"
SS collected @ 1516
GW Collected @ 1540
Water: clear, N/O.

HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

START/COMPLETION DATE: 06/25/2014

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: H. PHILLIPS

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (INCHES): 48

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 2000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (INCHES)/TIME: 30-36/1516



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Boring Log/Well Completion Diagram: SS-27

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DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-48" sandy silty CLAY - medium brown, soft to medium stiffness, low plasticity, mod sorted with 5% fine grained sand, 15-20% silt, mod moist, N/O, N/S, some organics. @30' wet, N/O, N/S.	CL	HA	1	100	0.1	N/A			DTW: 24" SS collected @ 1017 GW Collected @ 1524 Water: clear, N/O, no sheen.
			HA	2	100	0.2	N/A			
			HA	3	100	0.1	N/A	12		
12			HA	4	100	0.0	N/A			
			HA	5	100	0.1	N/A	24		
24			HA	6	100	0.0	N/A			
			HA	7	100	0.1	N/A	36		
36			HA	8	100	0.1	N/A			
			HA	9	100	0.0	N/A	48		
48	BoB @ 48"									HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
60								60		

START/COMPLETION DATE: 06/26/2014

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: H. PHILLIPS

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (INCHES): 48

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 2000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (INCHES)/TIME: 4-8/1017



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Boring Log/Well Completion Diagram: SS-28

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DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-36" sandy silty CLAY - medium to dark brown, soft to medium stiffness, moderate plasticity, mod sorted with 5% fine grained sand, 10-15% silt, mod moist, N/O, N/S. @26" wet.	CL	HA	1	100	0.3	N/A			18" elevation change from SS-8/9
			HA	2	100	0.2	N/A			
12			HA	3	100	0.2	N/A	12		
			HA	4	100	0.1	N/A			
24			HA	5	100	0.2	N/A	24		
			HA	6	100	0.2	N/A			
36	BoB @ 36"							36		DTW: 32" SS collected @ 1047 GW Collected @ 1600 Water: clear, N/O, no sheen. HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
48								48		
60								60		

START/COMPLETION DATE: 06/26/2014

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: H. PHILLIPS

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (INCHES): 36

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 2000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (INCHES)/TIME: 22-26/1047



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Boring Log/Well Completion Diagram: SS-29

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DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-24" sandy silty CLAY - medium to dark brown, soft to medium stiffness, mod sorted with 5% fine grained sand, 10% silt, N/O, N/S.	CL	HA	1	100	0.6	N/A			12" elevation change from SS-8/9
			HA	2	100	0.2	N/A			
			HA	3	100	0.1	N/A			
			HA	4	100	0.1	N/A			
			HA	5	100	0.3	N/A			
12	24-36" silty clayey SAND - medium brown, fine to medium grained sand, moderately sorted with 15% silt, 15% clay, moist, N/O, N/S.	SC	HA	6	100	0.1	N/A			
			HA	7	100	0.2	N/A			
24										
36	BoB @ 36"									
48										
60										

DTW: 32"
SS collected @ 1102
GW Collected @ 1555
Water: clear, N/O, no sheen.

HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

START/COMPLETION DATE: 06/26/2014

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: H. PHILLIPS

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (INCHES): 36

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 2000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (INCHES)/TIME: 16-20/1102

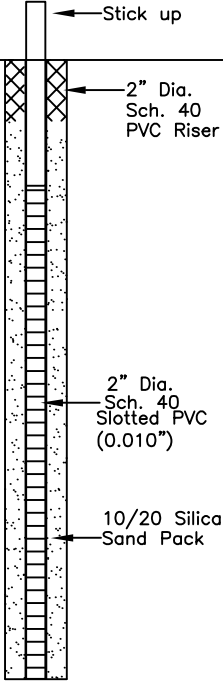


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Boring Log/Well Completion Diagram: SS-30

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DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-36" sandy silty CLAY - medium to dark brown, moderate stiffness, poorly sorted with 5% coarse grained sand, 15-20% silt, mod moist. @0-18" strong HC odor, N/S.	CL	HA	1	100	215	N/A			18" Elevation difference from SS-8/9
			HA	2	100	27.3	N/A			
			HA	3	100	1112	N/A			
	@18-26" strong HC odor, slight staining.		HA	4	100	1097	N/A	24		
24	@26" moist. @27" wet. @26-48" strong HC odor and staining.		HA	5	100	387	N/A			
			HA	6	100	997	N/A			
	36-66" silty clayey SAND - medium brown, fine to coarse grained sand, poorly sorted with 10% silt, 15% clay, wet.	SC	HA	7	100	626	N/A			
			HA	8	100	1156	N/A	48		
48	@48-66" strong HC odor, N/S.		HA	9	100	902	N/A			
			HA	10	100	448	N/A			
			HA	11	100	578	N/A			
	66-72" sandy silty CLAY - medium to dark brown, mod stiff, low plasticity, poorly sorted with 5% coarse grained sand, 15-20% silt, mod moist, slight HC odor. BoB @ 72"	CL	HA	12	100	97.9	N/A	72		DTW: 31" SS collected @1440 GW not collected Water: LPH amber, strong odor.
72										
96								96		HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
120								120		

START/COMPLETION DATE: 06/26/2014

SAND PACK INTERVAL (INCHES): 6-60"

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (INCHES): 0-6"

LOGGED BY: H. PHILLIPS

WELL SCREEN INTERVAL (INCHES): 12-60"

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): 2"

BORING DEPTH (INCHES): 72

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 2000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (FEET)/TIME: 22-26/1440



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Boring Log/Well Completion Diagram: SS-31

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DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-30" silty CLAY - dark brown to black, soft, mod plasticity, mod sorted with 10% silt, mod moist, organics present. @24" wet.	CL	HA	1	100	0.8	N/A			
			HA	2	100	0.9	N/A			
			HA	3	100	1.5	N/A	12		
12			HA	4	100	0.7	N/A			
			HA	5	100	0.5	N/A	24		
24			HA	6	100	0.3	N/A			
	30-36" silty clayey SAND - dark brown, fine to coarse grained sand, mod sorted with 5% silt, 10% clay, wet, N/O, N/S, organics present.	SC	HA	7	100	0.2	N/A	36		
36	BoB @ 36"									DTW: 24" SS collected @ 1505 GW Collected @ 1636 Water: brown, N/O, no sheen. HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
48								48		
60								60		

START/COMPLETION DATE: 06/26/2014

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: H. PHILLIPS

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (INCHES): 36

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 2000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (INCHES)/TIME: 4-8/1505



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Boring Log/Well Completion Diagram: SS-32

PAGE 1 OF 1

DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-8" gravelly silty SAND - brown, fine to coarse grained sand, poorly sorted with 5% gravel, 15-20% silt, mod moist.	SM	HA	1	100	2.1	N/A			
			HA	2	100	1.1	N/A			
12	8-18" sandy silty CLAY - dark gray, mod to stiff, low plasticity, mod sorted with 5% fine to medium grained sand, 10% silt.	CL	HA	3	100	2.1	N/A	12		
			HA	4	100	0.6	N/A			
24	18-28" silty clayey SAND - medium brown, fine to coarse grained, mod sorted with 10% silt, 15% clay, mod moist.	SC	HA	5	100	0.5	N/A	24		
	@25" wet.		HA	6	100	0.4	N/A			
36	28-36" silty CLAY - dark brown, soft, high plasticity, mod sorted with 10% silt, wet.	CL	HA	7	100	0.4	N/A	36		
	BoB @ 36"									
48								48		
60								60		

DTW: 24"
SS collected @ 1551
GW Collected @ 1637
Water: brown, N/O, no sheen.

HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

START/COMPLETION DATE: 06/26/2014

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: H. PHILLIPS

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (INCHES): 36

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 2000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (INCHES)/TIME: 4-8/1551



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Boring Log/Well Completion Diagram: SS-33

PAGE 1 OF 1

DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-18" silty CLAY - dark brown, soft, low plasticity, mod sorted with 15-20% silt, organics present, moist	CL	HA	1	100	0.1	N/A			
			HA	2	100	0.1	N/A			
			HA	3	100	0.1	N/A	12		
12			HA	4	100	0.1	N/A			
	18-36" silty clayey SAND - medium brown, fine to coarse grained sand, poorly sorted with 5% silt, 10% clay. @24" wet.	SC	HA	5	100	0.1	N/A	24		
24			HA	6	100	0.1	N/A			
			HA	7	100	0.1	N/A	36		
36	BoB @ 36"									DTW: 24" SS collected @ 1604 GW Collected @ 1650 Water: brown, N/O, no sheen. HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
48								48		
60								60		

START/COMPLETION DATE: 06/26/2014

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: H. PHILLIPS

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (INCHES): 36

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 2000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (INCHES)/TIME: 4-8/1604



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Boring Log/Well Completion Diagram: SS-34

PAGE 1 OF 1

DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-16" silty sandy CLAY - dark brown, soft, low plasticity, mod sorted with 20% silt, moist, N/O, N/S.	CL	HA	1	100	0.1	N/A			
			HA	2	100	0.1	N/A			
			HA	3	100	0.1	N/A	12		
12			HA	4	100	0.1	N/A			
	16-44" silty CLAY - dark brown, soft, low plasticity, mod sorted with 30% silt, moist, N/O, N/S.		HA	5	100	0.1	N/A			
24	@24" Wet.		HA	6	100	0.1	N/A	24		
			HA	7	100	0.1	N/A			
36			HA	8	100	0.1	N/A	36		
	44-48" silty SAND - brown fine to coarse grained sand, poorly sorted with 10% gravel, wet, N/O, N/S.	SM	HA	9	100	0.1	N/A			DTW - 24" SS collected @ 0905 GW Collected @ 1515 Water: N/O, N/S.
48	BoB @ 48"							48		
60								60		HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface

START/COMPLETION DATE: 06/27/2014

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: M. RIANDA

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (INCHES): 48

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (INCHES)/TIME: 12-16/0905



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Boring Log/Well Completion Diagram: SS-35

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DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-16" silty CLAY - dark brown, soft, low plasticity, mod sorted with 15-20% silt, moist, N/O, N/S.	CL	HA	1	100	0.3	N/A			
			HA	2	100	0.1	N/A			
			HA	3	100	0.1	N/A	12		
12			HA	4	100	0.1	N/A			
	16-34" sandy CLAY - brown, soft, low plasticity, mod sorted with 25-30% sand, moist, N/O, N/S.		HA	5	100	0.1	N/A			
24	@24" Wet.		HA	6	100	0.1	N/A	24		
			HA	7	100	0.1	N/A			
36	BoB @ 34"							36		
										DTW: 24" SS collected @ 0931 GW Collected @ 1530 Water: N/O, N/S.
48								48		
60								60		HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface

START/COMPLETION DATE: 06/27/2014

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: M. RIANDA

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (INCHES): 34

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (INCHES)/TIME: 4-8/0931



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Boring Log/Well Completion Diagram: SS-36

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DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-16" silty SAND - dark brown, fine to medium grained sand, mod stiffness, mod sorted with 20-25% silt, moist, N/O, N/S.	SM	HA	1	100	1.1	N/A			8" elevation change from SS-14/15.
			HA	2	100	0.6	N/A			
			HA	3	100	1.9	N/A			
12	@12-20" well sorted cobbles, offset boring to attempt to bypass cobbles.	SC	HA	4	100	0.4	N/A	12		
			HA	5	100	0.1	N/A			
24	16-36" silty clayey SAND - brown, fine to medium grained sand, poorly sorted with 20-25% silt and 10% clay, N/O, N/S. @20" Wet.		HA	6	100	0.1	N/A	24		
			HA	7	100	0.1	N/A			
36	BoB @ 36"							36		DTW - 20" SS collected @ 1011 GW Collected @ 1520 Water: N/O, N/S.
48								48		
60								60		

HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

START/COMPLETION DATE: 06/27/2014

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: M. RIANDA

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (INCHES): 36

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (INCHES)/TIME: 8-12/1011



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Boring Log/Well Completion Diagram: SS-37

PAGE 1 OF 1

DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-20" silty CLAY - dark brown, soft, low plasticity, mod sorted with 15-20% fine grained sand, 25-30% silt, moist, N/O, N/S. 20-44" silty CLAY - dark brown, soft, mod sorted with 10-15% silt, N/O, N/S. @22" Wet.	CL	HA	1	100	0.0	N/A			
			HA	2	100	2.1	N/A			
			HA	3	100	0.8	N/A	12		
12			HA	4	100	0.1	N/A			
			HA	5	100	0.1	N/A	24		
24			HA	6	100	0.1	N/A			
			HA	7	100	0.1	N/A	36		
36			HA	8	100	0.1	N/A			
			HA	9	100	0.1	N/A	48		
48	BoB @ 44"							60		
60										

DTW: 22"
SS collected @ 1104
GW Collected @ 1545
Water: N/O, N/S.

HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

START/COMPLETION DATE: 06/27/2014

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: M. RIANDA

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (INCHES): 44

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (INCHES)/TIME: 4-8/1104



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Boring Log/Well Completion Diagram: SS-38

PAGE 1 OF 1

DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-20" sandy silty CLAY - dark brown, soft, low plasticity, mod sorted with 25-30% fine to medium grained sand, 10% silt, moist, N/O, N/S. 20-48" sandy CLAY - brown, soft, mod plasticity, well sorted with 15-20% fine to medium grained sand, moist, N/O, N/S.	CL	HA	1	100	0.3	N/A			
			HA	2	100	0.7	N/A			
			HA	3	100	2.0	N/A			
			HA	4	100	2.2	N/A			
			HA	5	100	1.7	N/A	24		
			HA	6	100	0.1	N/A			
			HA	7	100	0.1	N/A			
			HA	8	100	0.1	N/A			
			HA	9	100	0.1	N/A	48		
48	48-60" silty SAND - brown, fine to coarse grained sand, poorly sorted with 15-20% silt, wet, N/O, N/S.	SM	HA	10	100	0.1	N/A			
			HA	11	100	0.1	N/A			
	BoB @ 60"									
72								72		DTW: 48" SS collected @1035 GW collected @1540 Water: N/O, N/S HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
96								96		
120								120		

START/COMPLETION DATE: 06/27/2014

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: H. PHILLIPS

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (INCHES): 60

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (FEET)/TIME: 4-8/1035



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Boring Log/Well Completion Diagram: SS-39

PAGE 1 OF 1

DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-16" sandy silty CLAY - dark brown, soft, low plasticity, poorly sorted with 10% fine to medium grained sand, 20-25% silt, moist, N/O, N/S. 16-36" silty CLAY - dark brown, soft, low-moderate plasticity, mod sorted with 25-30% silt, moist, N/O, N/S. @33" Wet.	CL	HA	1	100	0.3	N/A			
			HA	2	100	0.7	N/A			
			HA	3	100	1.8	N/A	12		
12			HA	4	100	0.4	N/A			
			HA	5	100	0.1	N/A	24		
24			HA	6	100	0.0	N/A			
			HA	7	100	0.0	N/A	36		
36	BoB @ 36"									DTW - ~33" SS collected @ 1123 GW Collected @ 1600 Water: N/O, N/S. HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
48										
60										

START/COMPLETION DATE: 06/27/2014

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: M. RIANDA

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (INCHES): 36

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (INCHES)/TIME: 4-8/1123



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Boring Log/Well Completion Diagram: SS-40

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DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-20" sandy silty CLAY - dark brown, soft, poorly sorted, with 10-15% fine grained sand, 15-20% silt, moist, N/O, N/S.	CL	HA	1	100	0.3	N/A			
			HA	2	100	0.7	N/A			
			HA	3	100	0.9	N/A			
12			HA	4	100	0.3	N/A	12		
			HA	5	100	0.0	N/A			
24	20-24" sandy CLAY - brown, soft, mod plasticity, well sorted with 15-20% fine to medium grained sand, moist, N/O, N/S.							24		
	@24" Wet. 24-36" Decomposed wood, wet.	Pt	HA	6	100	0.1	N/A			
			HA	7	100	0.1	N/A			
36	BoB @ 36"							36		DTW - 24" SS collected @ 1149 GW Collected @ 1600 Water: N/O, N/S. HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
48								48		
60								60		

START/COMPLETION DATE: 06/27/2014

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: M. RIANDA

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (INCHES): 36

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (INCHES)/TIME: 4-8/1149



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Boring Log/Well Completion Diagram: SS-41

PAGE 1 OF 1

DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-22" sandy silty CLAY - dark brown, soft, low plasticity, poorly sorted with 10% fine to medium grained sand, 15-20% silt, moist, N/O, N/S. 22-36" sandy CLAY - brown, soft, mod plasticity, well sorted with 15-20% fine to medium grained sand, wet, N/O, N/S.	CL	HA	1	100	12.6	N/A			
			HA	2	100	1.6	N/A			
			HA	3	100	0.3	N/A	12		
12			HA	4	100	0.1	N/A			
			HA	5	100	0.1	N/A	24		
24			HA	6	100	0.1	N/A			
			HA	7	100	0.1	N/A	36		
36	BoB @ 36"									DTW - 22" SS collected @ 1311 GW Collected @ 1540 Water: N/O, N/S. HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
48										
60										

START/COMPLETION DATE: 06/27/2014

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: M. RIANDA

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (INCHES): 36

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (INCHES)/TIME: 4-8/1311



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Boring Log/Well Completion Diagram: SS-42

PAGE 1 OF 1

DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-24" silty CLAY - dark brown, soft, low to moderate plasticity, well sorted with 15-20% silt, moist, N/O, N/S. @12" Wet.	CL	HA	1	100	102.1	N/A			
			HA	2	100	5.8	N/A			
			HA	3	100	0.0	N/A	12		
12			HA	4	100	0.0	N/A			
			HA	5	100	0.0	N/A			
24	BoB @ 24"							24		
36								36		DTW - 12" SS collected @ 1349 GW Collected @ 1545 Water: N/O, N/S.
48								48		
										HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
60								60		

START/COMPLETION DATE: 06/27/2014

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: M. RIANDA

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (INCHES): 24

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (INCHES)/TIME: 4-8/1349



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Boring Log/Well Completion Diagram: SS-43

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DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-18" sandy silty CLAY - dark brown, soft, low plasticity, mod sorted with 15% fine to medium grained sand, 20-25% silt, moist, N/O, N/S.	CL	HA	1	100	1.4	N/A			
			HA	2	100	0.9	N/A			
			HA	3	100	1.1	N/A	12		
12			HA	4	100	0.4	N/A			
24	BoB @ 18"							24		
36								36		
48								48		
60								60		

DTW - 12"
SS collected @ 1333
GW Collected @ 1545
Water: N/O, N/S.

HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

START/COMPLETION DATE: 06/27/2014

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: M. RIANDA

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (INCHES): 18

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (INCHES)/TIME: 4-8/1333



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Boring Log/Well Completion Diagram: SS-44

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DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-36" sandy silty CLAY - dark brown, soft, low plasticity, poorly sorted with 15-20% fine to medium grained sand, 20-25% silt, moist, N/O, N/S.	CL	HA	1	100	0.1	N/A			
			HA	2	100	0.1	N/A			
			HA	3	100	0.1	N/A	12		
12			HA	4	100	0.1	N/A			
			HA	5	100	0.1	N/A	24		
24			HA	6	100	0.1	N/A			
			HA	7	100	0.1	N/A	36		
36	BoB @ 36"									DTW - 24" SS collected @ 1402 GW Collected @ 1545 Water: N/O, N/S. HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
48										
60										

START/COMPLETION DATE: 06/27/2014

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: M. RIANDA

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (INCHES): 36

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (INCHES)/TIME: 4-8/1402



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Boring Log/Well Completion Diagram: SS-45

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DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-40" sandy silty CLAY - dark brown, soft, low plasticity, mod sorted with 20% fine grained sand, 15-20% silt, moist, N/O, N/S. @8" Increase in sand.		HA	1	100	0.1	N/A			
			HA	2	100	0.1	N/A			
			HA	3	100	0.1	N/A	12		
12			HA	4	100	0.1	N/A			
			HA	5	100	0.1	N/A	24		
24			HA	6	100	0.1	N/A			
			HA	7	100	0.1	N/A	36		
36			HA	8	100	0.1	N/A			
	BoB @ 40"									DTW - 24" SS collected @ 1436 GW Collected @ 1620 Water: N/O, N/S.
48								48		
60								60		HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface

START/COMPLETION DATE: 06/27/2014

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: M. RIANDA

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (INCHES): 40

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (INCHES)/TIME: 4-8/1436



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Boring Log/Well Completion Diagram: SS-46

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DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-40" sandy silty CLAY - dark brown, soft, low plasticity, mod sorted with 15-20% fine grained sand, 15-20% silt, moist, N/O, N/S. @12" Increase in sand. @ 24" Wet. BoB @ 40"		HA	1	100	0.1	N/A			
			HA	2	100	0.1	N/A			
			HA	3	100	0.1	N/A	12		
12			HA	4	100	0.1	N/A			
			HA	5	100	0.1	N/A	24		
24			HA	6	100	0.1	N/A			
			HA	7	100	0.1	N/A	36		
36			HA	8	100	0.1	N/A			
								48		DTW - 24" SS collected @ 1448 GW Collected @ 1640 Water: N/O, N/S. HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
48								60		
60										

START/COMPLETION DATE: 06/27/2014

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: M. RIANDA

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (INCHES): 40

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (INCHES)/TIME: 4-8/1448



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Boring Log/Well Completion Diagram: SS-47

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DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-24" sandy SILT - brown, loose, well sorted with 10-20% fine grained sand, dry, N/O, N/S.	SM	HA	1	100	0.8	N/A			
			HA	2	100	1.4	N/A			
			HA	3	100	0.8	N/A			
			HA	4	100	1.8	N/A	24		
24	24-54" silty CLAY - dark brown, mod soft, mod plasticity, well sorted with 20% silt, dry to moist, N/O, N/S.	CL	HA	5	100	1.6	N/A			
			HA	6	100	2.1	N/A			
			HA	7	100	1.4	N/A			
			HA	8	100	1.3	N/A	48		
48			HA	9	100	0.8	N/A			
	54-60" sandy CLAY - brown, soft, mod plasticity, well sorted with 15% fine grained sand, wet, N/O, N/S.		HA	10	100	1.2	N/A			
	BoB @ 60"									
72								72		
96								96		
120								120		

DTW: 54"
GW collected @ 1525
Cloudy, clear, N/O, no sheen.

HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

START/COMPLETION DATE: 06/30/2014

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (INCHES): 60

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (FEET)/TIME: 30-36/1515



EAGLE
ENVIRONMENTAL
CONSULTING, INC.

4101 INCA STREET, DENVER, CO 80211
Ph: 303-433-0479 • F: 303-325-5449

Boring Log/Well Completion Diagram: SS-48

PAGE 1 OF 1

DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-24" sandy SILT - brown, loose, well sorted with 20% fine grained sand, trace gravel, dry, N/O, N/S.	SM	HA	1	100	0.4	N/A			DTW: 42" GW Collected @ 1415 Cloudy, clear, N/O, no sheen.
			HA	2	100	0.1	N/A			
12			HA	3	100	1.3	N/A	12		
			HA	4	100	1.6	N/A			
24	24-42" silty CLAY - dark brown, mod soft, mod plasticity, well sorted with 25% silt, dry to moist, N/O, N/S.	CL	HA	5	100	0.7	N/A			
			HA	6	100	0.9	N/A			
36			HA	7	100	0.5	N/A	36		
	42-48" sandy CLAY - brown, soft, low plasticity, well sorted with 15-20% fine grained sand, wet, N/O, N/S.		HA	8	100	0.7	N/A			
48	BoB @ 48"							48		
60								60		

HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

START/COMPLETION DATE: 06/30/2014

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (INCHES): 48

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (INCHES)/TIME: 18-24/1605



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Boring Log/Well Completion Diagram: TBSB-01

PAGE 1 OF 1

DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-18" sandy gravelly SILT - brown to dark brown, loose, well sorted with 20% fine grained sand and gravels, dry, N/O, N/S.	SM	HA	1	100	0.4	N/A			
			HA	2	100	1.7	N/A			
			HA	3	100	1.9	N/A			
24	18-36" sandy CLAY - dark brown, semi stiff, low to mod plasticity, well sorted with 10% fine grained sand, dry to moist, N/O, N/S.	CL	HA	4	100	2.0	N/A	24		
			HA	5	100	2.7	N/A			
			HA	6	100	1.1	N/A			
48	36-52" silty SAND - brown and tan, fine to medium grained sand, well sorted with 15% silt, wet, N/O, N/S.	SM	HA	7	100	1.2	N/A			
			HA	8	100	0.8	N/A	48		
			HA	9	100	1.4	N/A			
	52-60" SAND - brown and tan, well sorted, poorly graded, fine to coarse grained sand, wet, N/O, N/S.	SP	HA	10	100	0.6	N/A			
	BoB @ 60"									
72								72		
96								96		
120								120		

DTW: 54"
Cloudy, brown, N/O, no sheen.

HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

START/COMPLETION DATE: 06/30/2014

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (INCHES): 60

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (FEET)/TIME: NA



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CONSULTING, INC.

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Boring Log/Well Completion Diagram: TBSB-02

PAGE 1 OF 1

DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-18" sandy SILT - brown to dark brown, loose, well sorted with 15-20% fine to medium grained sand, dry, N/O, N/S.	SM	HA	1	100	1.1	N/A			
			HA	2	100	1.3	N/A			
			HA	3	100	1.7	N/A			
24	18-42" sandy CLAY - dark brown, semi stiff, mod plasticity, well sorted with 20% fine grained sand, dry to moist, N/O, N/S.	CL	HA	4	100	0.3	N/A	24		
			HA	5	100	1.9	N/A			
			HA	6	100	2.1	N/A			
			HA	7	100	2.4	N/A			
48	42-54" silty SAND - brown and tan, fine to medium grained sand, well sorted with 15% silt, moist to wet, N/O, N/S.	SM	HA	8	100	1.6	N/A	48		
			HA	9	100	1.6	N/A			
	54-60" SAND - brown and tan, well sorted, poorly graded, fine to coarse grained sand, wet, N/O, N/S.	SP	HA	10	100	0.9	N/A			
	BoB @ 60"									
72								72		DTW: 48" Cloudy, brown, N/O, no sheen.
96								96		
120								120		HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface

START/COMPLETION DATE: 06/30/2014

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (INCHES): 60

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (FEET)/TIME: NA



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Boring Log/Well Completion Diagram: TBSB-03

PAGE 1 OF 1

DEPTH (INCHES)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (INCHES)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-24" sandy gravelly SILT - brown to dark brown, loose, well sorted with 15% fine to medium grained sand and gravels, dry, N/O, N/S.	SM	HA	1	100	1.9	N/A			
			HA	2	100	2.8	N/A			
			HA	3	100	0.8	N/A			
			HA	4	100	0.8	N/A	24		
24	24-42" sandy CLAY - dark brown, medium stiffness, mod plasticity, well sorted with 10% fine grained sand, dry to moist, N/O, N/S. @36" Some ferrous staining.	CL	HA	5	100	1.3	N/A			
			HA	6	100	4.4	N/A			
			HA	7	100	2.1	N/A			
48	42-54" silty SAND - brown and tan, fine to medium grained sand, well sorted with 20% silt, wet, N/O, N/S.	SM	HA	8	100	3.7	N/A	48		
			HA	9	100	1.5	N/A			
	54-60" SAND - brown and tan, well sorted, poorly graded, fine to coarse grained sand, wet, N/O, N/S. BoB @ 60"	SP	HA	10	100	1.2	N/A			
72								72		DTW: 42" Cloudy, brown, N/O, no sheen.
96								96		HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
120								120		

START/COMPLETION DATE: 06/30/2014

SAND PACK INTERVAL (FEET): NA

PROJECT: STATE M 36-5 & 7-36

BENTONITE/GROUT INTERVAL (FEET): NA

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): NA

DRILLING COMPANY/EQUIPMENT: EAGLE / HAND AUGER

WELL DIAMETER (INCHES): NA

BORING DEPTH (INCHES): 60

WELL DEPTH (INCHES): NA

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED:

SAMPLE COLLECTION DEPTH (FEET)/TIME: /1330



EAGLE
ENVIRONMENTAL
CONSULTING, INC.

4101 INCA STREET, DENVER, CO 80211
Ph: 303-433-0479 • F: 303-325-5449

ATTACHMENT B

Laboratory Analytical Reports



June 20, 2016

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

**Project Name - Noble - State M36-3, M36-5,
6-36,7-36 and 8-36**

Project Number - [none]

Attached are your analytical results for Noble - State M36-3, M36-5, 6-36,7-36 and 8-36 received by Origins Laboratory, Inc. June 13, 2016. This project is associated with Origins project number X606166-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - State M36-3, M36-5, 6-36,7-36
and 8-36

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	X606166-01	Water	June 13, 2016 15:20	06/13/2016 16:30
MW-02	X606166-02	Water	June 13, 2016 13:55	06/13/2016 16:30
MW-03	X606166-03	Water	June 13, 2016 13:10	06/13/2016 16:30
MW-04	X606166-04	Water	June 13, 2016 14:20	06/13/2016 16:30
MW-06	X606166-05	Water	June 13, 2016 12:35	06/13/2016 16:30
MW-15R	X606166-06	Water	June 13, 2016 14:50	06/13/2016 16:30
MW-19	X606166-07	Water	June 13, 2016 12:50	06/13/2016 16:30
MW-20	X606166-08	Water	June 13, 2016 13:35	06/13/2016 16:30

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - State M36-3, M36-5, 6-36, 7-36 and 8-36

www.originslaboratory.com page 1 of 1

ORIGINS LABORATORY, INC

Client: Eagle Environmental Consulting, Inc. Project Manager: Martin Eckert III
Address: 4101 Inca St Project Name: State M36-3 M36-5 6-36 7-36 8-36
Telephone Number: Denver, CO 80211 Project Number: JS
Email Address: MCE@eagle-enviro.com Samples Collected By: JS

Sample ID Description	Date Sampled	Time Sampled	Preservative				Matrix			Analysis	Sample Instructions
			Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	As Summed Container #		
MW-01	6/13/16	1520	X				X			BTEX	1
MW-02		1355									2
MW-03		1310									3
MW-04		1420									4
MW-05R											5
MW-06		1235									6
MW-15R		1450									7
MW-19		1250									8
MW-20		1335									9
											10

Relinquished By: [Signature] Date: 6/13/16 Time: 1630
Relinquished By: [Signature] Date: 6/13/16 Time: 1630

Received By: [Signature] Date: 6/13/16 Time: 1630
Received By: [Signature] Date: 6/13/16 Time: 1630

Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☒ Standard

Temp Received: 9.7 Date Results Needed: Noble Standard (R.I.L. to Lab)

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - State M36-3, M36-5, 6-36, 7-36 and 8-36

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X6006146

Client: Eagle Env.

Client Project ID: Noble - State

Checklist Completed by: Jeff Smith

Shipped Via: HD

Date/time completed: 6/14/12

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☐ Other: ☐

Cooler Number/Temperature: 1197 °C 1 °C 1 °C (Describe) °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		X		Sampled Same Day
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		X		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		X		
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager)

Date/Time Reviewed

Origins Laboratory, Inc.

Jeff Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - State M36-3, M36-5, 6-36,7-36
and 8-36

MW-01

6/13/2016 3:20:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

X606166-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6F1507	06/15/2016	06/17/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4

112 % 84-121

"

"

"

Surrogate: Toluene-d8

104 % 85-115

"

"

"

Surrogate: 4-Bromofluorobenzene

101 % 84-114

"

"

"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in
accordance with the chain of custody document. This
analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - State M36-3, M36-5, 6-36,7-36
and 8-36

MW-02

6/13/2016 1:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

X606166-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6F1507	06/15/2016	06/17/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4

106 %

84-121

"

"

"

Surrogate: Toluene-d8

98.8 %

85-115

"

"

"

Surrogate: 4-Bromofluorobenzene

106 %

84-114

"

"

"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - State M36-3, M36-5, 6-36,7-36
and 8-36

MW-03

6/13/2016 1:10:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

X606166-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6F1507	06/15/2016	06/17/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4

116 %

84-121

"

"

"

Surrogate: Toluene-d8

94.8 %

85-115

"

"

"

Surrogate: 4-Bromofluorobenzene

106 %

84-114

"

"

"

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in
accordance with the chain of custody document. This
analytical report must be reproduced in its entirety.*

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - State M36-3, M36-5, 6-36,7-36 and 8-36

MW-04

6/13/2016 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

X606166-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6F1507	06/15/2016	06/17/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4

117 %

84-121

"

"

"

Surrogate: Toluene-d8

97.4 %

85-115

"

"

"

Surrogate: 4-Bromofluorobenzene

105 %

84-114

"

"

"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - State M36-3, M36-5, 6-36,7-36
and 8-36

MW-06

6/13/2016 12:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.

X606166-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6F1507	06/15/2016	06/17/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4

121 % 84-121

"

"

"

Surrogate: Toluene-d8

104 % 85-115

"

"

"

Surrogate: 4-Bromofluorobenzene

102 % 84-114

"

"

"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - State M36-3, M36-5, 6-36,7-36 and 8-36

MW-15R

6/13/2016 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.

X606166-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6F1507	06/15/2016	06/17/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4

118 % 84-121

"

"

"

Surrogate: Toluene-d8

100 % 85-115

"

"

"

Surrogate: 4-Bromofluorobenzene

109 % 84-114

"

"

"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - State M36-3, M36-5, 6-36,7-36
and 8-36

MW-19

6/13/2016 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.

X606166-07 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6F1507	06/15/2016	06/17/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4

120 %

84-121

"

"

"

Surrogate: Toluene-d8

98.5 %

85-115

"

"

"

Surrogate: 4-Bromofluorobenzene

106 %

84-114

"

"

"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in
accordance with the chain of custody document. This
analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - State M36-3, M36-5, 6-36,7-36
and 8-36

MW-20

6/13/2016 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

X606166-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6F1507	06/15/2016	06/17/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4

113 %

84-121

"

"

"

Surrogate: Toluene-d8

95.3 %

85-115

"

"

"

Surrogate: 4-Bromofluorobenzene

107 %

84-114

"

"

"

Origins Laboratory, Inc.



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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6F1507 - EPA 5030B (Water)

Blank (B6F1507-BLK1)

Prepared: 06/15/2016 Analyzed: 06/17/2016

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5	110		84-121			
Surrogate: Toluene-d8	62		"	62.5	98.9		85-115			
Surrogate: 4-Bromofluorobenzene	67		"	62.5	108		84-114			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6F1507 - EPA 5030B (Water)

LCS (B6F1507-BS1)

Prepared: 06/15/2016 Analyzed: 06/17/2016

Benzene	46.7	1.00	ug/L	50.0		93.4	73.3-129			
Toluene	46.4	1.00	"	50.0		92.7	76.2-123			
Ethylbenzene	43.3	1.00	"	50.0		86.6	73.6-130			
m,p-Xylene	88.0	2.00	"	100		88.0	76.1-126			
o-Xylene	45.8	1.00	"	50.0		91.5	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		108	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.5	85-115			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	84-114			

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Jen Pellegrini For Noelle Doyle Mathis, President

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6F1507 - EPA 5030B (Water)

Matrix Spike (B6F1507-MS1)		Source: X606161-02			Prepared: 06/15/2016 Analyzed: 06/17/2016					
Benzene	60.6	1.00	ug/L	50.0	ND	121	74-130			
Toluene	63.3	1.00	"	50.0	ND	127	73-131			
Ethylbenzene	63.3	1.00	"	50.0	ND	127	76-132			
m,p-Xylene	129	2.00	"	100	ND	129	69-139			
o-Xylene	61.9	1.00	"	50.0	ND	124	74-131			
Surrogate: 1,2-Dichloroethane-d4	68		"	62.5		109	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.7	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	84-114			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B6F1507 - EPA 5030B (Water)										
Matrix Spike Dup (B6F1507-MSD1)		Source: X606161-02			Prepared: 06/15/2016 Analyzed: 06/17/2016					
Benzene	31.1	1.00	ug/L	50.0	ND	62.2	74-130	64.3	20	QM-07, QR-03
Toluene	33.3	1.00	"	50.0	ND	66.5	73-131	62.2	20	QM-07, QR-03
Ethylbenzene	33.7	1.00	"	50.0	ND	67.4	76-132	61.0	20	QM-07, QR-03
m,p-Xylene	67.8	2.00	"	100	ND	67.8	69-139	61.9	20	QM-07, QR-03
o-Xylene	32.8	1.00	"	50.0	ND	65.5	74-131	61.6	20	QM-07, QR-03
Surrogate: 1,2-Dichloroethane-d4	73		"	62.5		116	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.1	85-115			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		108	84-114			

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and 8-36

Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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