



March 27, 2020

Ms. Karen Olson
PDC Energy, Inc.
1775 Sherman Street Suite 3000
Denver, CO 80203

**1st Quarter 2020 Monitoring Well Installation and Groundwater Monitoring Report
Warren McMillan 2
Lat./Long. 40.293236/-104.711610
SW 1/4 SW 1/4 Sec.19 T4N R65W 6PM
Weld County, Colorado
Remediation Project #13978**

Dear Ms. Olson,

Eagle Environmental Consulting, Inc. (EAGLE) is pleased to present this 1st Quarter 2020 Monitoring Well Installation and Groundwater Monitoring Report for PDC Energy, Inc. (PDC) for the above referenced site. This report summarizes monitoring well installation/groundwater monitoring activities and analytical results for the 1st quarter 2020.

1.0 SITE BACKGROUND

The Warren McMillan 2 site is located approximately 3.5 miles east-northeast of Gilcrest within the southwest quarter of the southwest quarter of Section 19, Township 4 North, Range 65 West of the 6th Prime Meridian. The site is located at latitude: 40.293236 and longitude: -104.711610 and is surrounded by agricultural land.

The soil lithology observed beneath the site consists of a silty fine to medium-grained sand from the surface to approximately 6 feet below ground surface (bgs), underlain by a clayey fine-grained sand from approximately 6 to 12 feet bgs. The soil lithology observed at MW-05, MW-06, MW-08, MW-09 consists of a fine-grained sandy clay from approximately 6 to 15 feet bgs. Groundwater beneath the site ranges from approximately 5.2 to 7.1 feet bgs and generally flows to the north-northwest.

2.0 MONITORING WELL INSTALLATION ACTIVITIES

On February 3, 2020, EAGLE advanced nine soil borings to assess potential petroleum hydrocarbon impacts beneath the site. The soil borings were completed as monitoring wells MW-01 through MW-09. EAGLE advanced MW-01 and MW-03 through MW-07 to approximately 12 feet bgs and MW-02, MW-08, and MW-09 were advanced to approximately 15 feet bgs utilizing a 7822DT Series Geoprobe track rig.

2.1 Field Work Preparation and Planning

The Utility Notification Center of Colorado (UNCC) was contacted at least 72 hours in advance of drilling activities to confirm that no unmarked utilities or other obstacles were present within the proposed drilling locations. Tier II facility owners were also contacted to confirm the necessary buried utility notifications were completed.

2.2 Soil Boring Screening Activities

EAGLE field screened and logged each soil boring location for soil description, soil classification, moisture content, staining, and volatile organic compound (VOC) concentrations. EAGLE also recorded the spatial location of each soil boring using a Trimble GeoXT 6000 series instrument. Well completion diagrams/boring logs for MW-01 through MW-09 are included in Attachment A.

2.3 Soil Sampling Procedures

During soil boring advancement activities, soil samples were collected continuously within 5-foot, plastic sample liners. The samples within the plastic liners were separated in 2.5-foot intervals for soil identification and analysis. A portion of soil from each interval was placed in a sealable plastic bag for VOC headspace analysis utilizing a field calibrated photoionization detector (PID). Another portion of the soil sample was placed in a 2-ounce glass jar and packed in an iced cooler.

Based on the PID reading and sample locations, soil samples MW-01@5-7.5', MW-02@2.5-5', MW-03@5-7.5', MW-04@2.5-5', MW-05@2.5-5', MW-06@2.5-5', MW-07@5-7.5', MW-08@7.5-10', and MW-09@7.5-10' were submitted to Origins Laboratory, Inc. (Origins), following standard chain-of-custody (COC) procedures. The soil samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) and total petroleum hydrocarbons – gasoline range organics (TPH-GRO) following Environmental Protection Agency (EPA) Method 8260D and TPH – diesel range organics (DRO) following EPA Method 8015D.

2.4 Soil Sample Analytical Results

Based on laboratory analytical results, soil sample MW-03@5-7.5' contained a concentration of TPH exceeding the Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 regulatory limit of 500 milligrams per kilogram (mg/kg) with a concentration of 598.9 mg/kg. All other soil samples submitted for laboratory analysis did not contain concentrations of BTEX or TPH exceeding the applicable COGCC Table 910-1 regulatory limits. Soil sample locations and analytical results are presented in Figure 1. Soil sample analytical results are also summarized in Table 1. The soil laboratory analytical report is included in Attachment B.

3.0 GROUNDWATER MONITORING ACTIVITIES

EAGLE completed the 1st quarter 2020 groundwater monitoring event at the site on February 13, 2020. Groundwater samples were collected from MW-01 through MW-09. In addition, EAGLE developed and surveyed MW-01 through MW-09.

3.1 Groundwater Sampling Procedures

Prior to groundwater sample collection, each monitoring well was gauged for depth to water and purged a minimum of three well volumes using a disposable polyvinyl chloride (PVC) bailer. Following recharge, groundwater samples were collected in 40 milliliter (mL) amber vials and submitted for laboratory analysis of BTEX following EPA Method 8260D. The samples were transported in an iced cooler, under standard COC procedures, to Origins.

3.2 Groundwater Elevation Data

Groundwater elevation contours were constructed utilizing groundwater elevation data collected during the February 13, 2020 groundwater monitoring event. Groundwater elevation data is presented in Figure 2 and included in Table 2.

3.3 Groundwater Analytical Results

Based on laboratory analytical results, the groundwater sample collected from MW-02 contained a benzene concentration exceeding the COGCC Table 910-1 regulatory limit of 5 micrograms per liter ($\mu\text{g/L}$) with a concentration of 153 $\mu\text{g/L}$. All other groundwater samples submitted for laboratory analysis did not contain concentrations of BTEX exceeding the applicable COGCC Table 910-1 regulatory limits. Groundwater analytical results are presented in Figure 3 and included in Table 3. The groundwater laboratory analytical report is included in Attachment B.

4.0 CONCLUSION

Monitoring wells MW-01 through MW-09 were installed at the site on February 3, 2020. Soil sample MW-03@5-7.5' contained a concentration of TPH exceeding the COGCC Table 910-1 regulatory limit. Soil sample MW-03@5-7.5' was collected within the saturated zone as depth to groundwater in MW-03 was observed at 5.19 feet bgs on February 13, 2020. EAGLE recommends completing confirmation soil sampling activities following the third consecutive quarter of groundwater samples below COGCC Table 910-1 regulatory limits. Based on the confirmation soil sample laboratory analytical results, if TPH exceeds the COGCC Table 910-1 regulatory limit then excavation activities will be completed to remove the remaining TPH impacts.

On February 13, 2020, EAGLE developed, sampled, and surveyed MW-01 through MW-09. Based on laboratory analytical results, the groundwater sample collected from MW-02 contained a benzene concentration exceeding the COGCC Table 910-1 regulatory limit. EAGLE recommends the installation of two point-of-compliance (POC) monitoring wells MW-10 and MW-11 northeast and northwest of MW-02. Monitoring wells MW-10 and MW-11 will be installed prior to the 2nd quarter 2020 groundwater monitoring event anticipated for May 2020. Proposed POC monitoring well locations are presented on Figure 3.

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

Sincerely,

EAGLE ENVIRONMENTAL CONSULTING, INC.



Daniel Coloccia
Project Scientist

FIGURES

Figure 1: Monitoring Well Soil Sample Location Map (2/3/20)

Figure 2: Groundwater Elevation Map (2/13/20)

Figure 3: Groundwater Sample Location Map (2/13/20)



MW-02@2.5-5'
2/3/2020
2.5-5'
B = <0.0500
T = <0.0500
E = <0.0500
X = <0.0500
G = <5.00
D = <50.0

MW-03@5-7.5'
2/3/2020
5-7.5'
B = <0.0500
T = <0.0500
E = <0.0500
X = <0.0500
G = **51.9**
D = **547**

MW-07@5-7.5'
2/3/2020
5-7.5'
B = <0.0500
T = <0.0500
E = <0.0500
X = <0.0500
G = <5.00
D = <50.0

MW-01@5-7.5'
2/3/2020
5-7.5'
B = <0.0500
T = <0.0500
E = <0.0500
X = <0.0500
G = <5.00
D = <50.0

MW-06@2.5-5'
2/3/2020
2.5-5'
B = <0.0500
T = <0.0500
E = <0.0500
X = <0.0500
G = <5.00
D = <50.0

MW-04@2.5-5'
2/3/2020
2.5-5'
B = <0.0500
T = <0.0500
E = <0.0500
X = <0.0500
G = <5.00
D = <50.0

MW-08@7.5-10'
2/3/2020
7.5-10'
B = <0.0500
T = <0.0500
E = <0.0500
X = <0.0500
G = <5.00
D = <50.0

MW-05@2.5-5'
2/3/2020
2.5-5'
B = <0.0500
T = <0.0500
E = <0.0500
X = <0.0500
G = <5.00
D = <50.0

MW-09@7.5-10'
2/3/2020
7.5-10'
B = <0.0500
T = <0.0500
E = <0.0500
X = <0.0500
G = <5.00
D = <50.0

LEGEND

- X APPROXIMATE RELEASE LOCATION
- APPROXIMATE EXCAVATION EXTENTS (2019)
- APPROXIMATE MONITORING WELL LOCATION

PARAMETERS

SOIL SAMPLE LOCATION	
DATE	
DEPTH (FEET)	
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)	

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 LABORATORY DETECTION LIMITS

VALUES PRESENTED IN **BOLD** FONT INDICATE CONCENTRATION EXCEEDS THE APPLICABLE COGCC TABLE 910-1 REGULATORY LIMIT.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

APPROXIMATE SCALE IN FEET

MONITORING WELL SOIL SAMPLE LOCATION MAP
WARREN MCMILLAN 2
LAT./LONG. 40.293236/-104.711610
SW 1/4 SW 1/4 SEC.19 T4N R65W 6PM
WELD COUNTY, COLORADO
REMEDATION PROJECT #13978

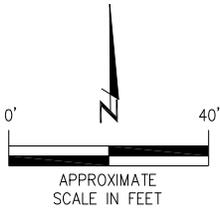
DATE: 3/25/20	<p>EAGLE ENVIRONMENTAL CONSULTING, INC. 8900 W 44th Ave, Wheat Ridge, CO 80033 Ph: 303-433-0479 F: 303-325-5449</p>
FIG. NO. 1	
DRAWN BY: DAC	



LEGEND

- X APPROXIMATE RELEASE LOCATION
- APPROXIMATE EXCAVATION EXTENTS (2019)
- ⊕ APPROXIMATE MONITORING WELL LOCATION
- (98.25) RELATIVE GROUNDWATER ELEVATION (FT.)
- - - INFERRED GROUNDWATER ELEVATION CONTOUR (FT.)
- ➡ APPROXIMATE GROUNDWATER FLOW DIRECTION
- FT. = FEET

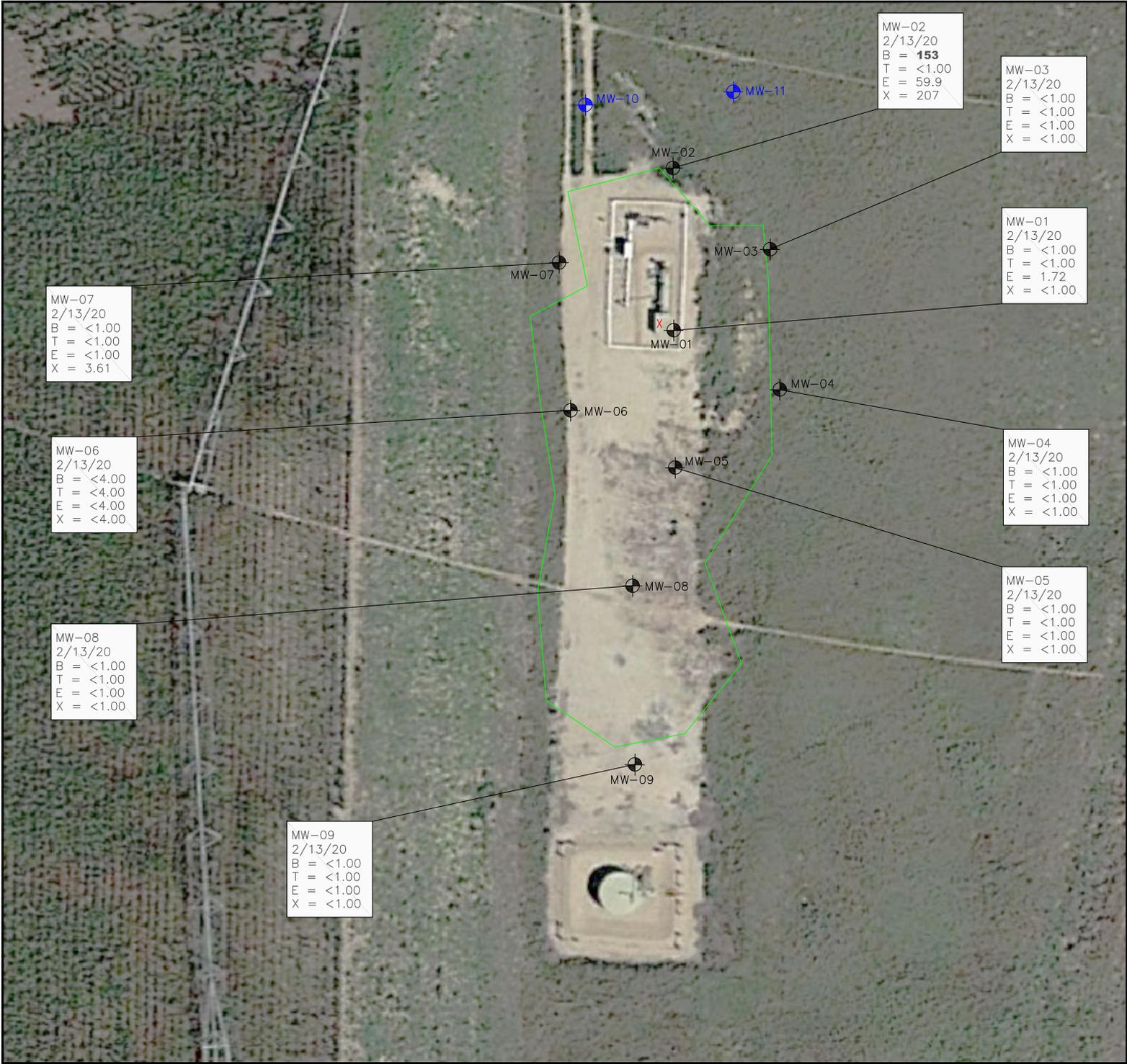
HYDRAULIC GRADIENT = 0.0198 FEET PER FOOT
(MEASURED BETWEEN MW-09 AND MW-07)



GROUNDWATER ELEVATION MAP
(2/13/20)
WARREN MCMILLAN 2
LAT./LONG. 40.293236/-104.711610
SW 1/4 SW 1/4 SEC.19 T4N R65W 6PM
WELD COUNTY, COLORADO
REMEDATION PROJECT #13978

DATE:
3/25/20
FIG. NO.
2
DRAWN BY:
DAC

EAGLE
ENVIRONMENTAL
CONSULTING, INC.
8900 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-433-0479 F: 303-325-5449



LEGEND

- X APPROXIMATE RELEASE LOCATION
- APPROXIMATE EXCAVATION EXTENTS (2019)
- ⊕ APPROXIMATE MONITORING WELL LOCATION
- ⊕ (with blue dot) APPROXIMATE PROPOSED MONITORING WELL LOCATION

PARAMETERS

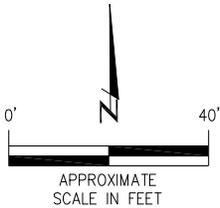
GROUNDWATER SAMPLE LOCATION DATE
 B = BENZENE (µg/L)
 T = TOLUENE (µg/L)
 E = ETHYLBENZENE (µg/L)
 X = TOTAL XYLENES (µg/L)

µg/L = MICROGRAMS PER LITER

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

VALUES IN **BOLD** TYPEFACE EXCEED COGCC TABLE 910-1 REGULATORY LIMITS

COGCC - COLORADO OIL AND GAS CONSERVATION COMMISSION



GROUNDWATER SAMPLE LOCATION MAP
 WARREN MCMILLAN 2
 LAT./LONG. 40.293236/-104.711610
 SW 1/4 SW 1/4 SEC.19 T4N R65W 6PM
 WELD COUNTY, COLORADO
 REMEDIATION PROJECT #13978

DATE:
3/25/20
 FIG. NO.
3
 DRAWN BY:
DAC

EAGLE ENVIRONMENTAL CONSULTING, INC.
 8900 W 44th Ave, Wheat Ridge, CO 80033
 Ph: 303-433-0479 F: 303-325-5449

MW-07
2/13/20
B = <1.00
T = <1.00
E = <1.00
X = 3.61

MW-06
2/13/20
B = <4.00
T = <4.00
E = <4.00
X = <4.00

MW-08
2/13/20
B = <1.00
T = <1.00
E = <1.00
X = <1.00

MW-09
2/13/20
B = <1.00
T = <1.00
E = <1.00
X = <1.00

MW-07
2/13/20
B = <1.00
T = <1.00
E = <1.00
X = 3.61

MW-06
2/13/20
B = <4.00
T = <4.00
E = <4.00
X = <4.00

MW-08
2/13/20
B = <1.00
T = <1.00
E = <1.00
X = <1.00

MW-09
2/13/20
B = <1.00
T = <1.00
E = <1.00
X = <1.00

MW-02
2/13/20
B = **153**
T = <1.00
E = 59.9
X = 207

MW-03
2/13/20
B = <1.00
T = <1.00
E = <1.00
X = <1.00

MW-05
2/13/20
B = <1.00
T = <1.00
E = <1.00
X = <1.00

MW-02
2/13/20
B = **153**
T = <1.00
E = 59.9
X = 207

MW-03
2/13/20
B = <1.00
T = <1.00
E = <1.00
X = <1.00

MW-01
2/13/20
B = <1.00
T = <1.00
E = 1.72
X = <1.00

MW-04
2/13/20
B = <1.00
T = <1.00
E = <1.00
X = <1.00

MW-05
2/13/20
B = <1.00
T = <1.00
E = <1.00
X = <1.00

TABLES

Table 1: Soil Analytical Results Summary

Table 2: Groundwater Elevation Summary

Table 3: Groundwater Analytical Results Summary

TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
WARREN MCMILLAN 2
LAT./LONG. 40.293236/ -104.711610
SWSW SEC.19 T4N R65W 6PM
WELD COUNTY, COLORADO
REMEDIATION PROJECT #13978

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
COGCC Table 910-1 Regulatory Limits (mg/kg)			0.17	85	100	175	500	
SS1 @ 4' (40.293236/-104.711610)	07/30/19	4	0.580	0.810	1.28	19.2	482	536
BSS1 @ 9' (40.293233/-104.711589)	08/07/19	9	<0.0500	<0.0500	<0.0500	<0.0500	<5.00	<50.0
ESS1 @ 8' (40.293265/-104.711493)	08/08/19	8	<0.0500	<0.0500	<0.0500	<0.0500	<5.00	<50.0
SESS1 @ 8' (40.293128/-104.711490)	08/13/19	8	<0.0500	<0.0500	<0.0500	<0.0500	<5.00	<50.0
SSS1 @ 7' (40.293128/-104.711584)	08/14/19	7	<0.0500	<0.0500	0.662	4.39	293	962
SWSS1 @ 7' (40.293149/-104.711635)	08/14/19	7	<0.0500	<0.0500	1.32	1.18	296	981
WSS1 @ 7' (40.293205/-104.711631)	08/14/19	7	<0.0500	<0.0500	0.838	<0.0500	60.8	1080
NWSS1 @ 6' (40.293287/-104.711613)	08/14/19	6	<0.0500	<0.0500	0.0695	<0.0500	202	1000
NSS1 @ 6' (40.293300/-104.711554)	08/14/19	6	<0.0500	<0.0500	<0.0500	<0.0500	23.1	177
NESS1 @ 6' (40.293306/-104.711500)	08/14/19	6	<0.0500	<0.0500	<0.0500	<0.0500	<5.00	<50.0
SSS2 @ 8' (40.293044/-104.711555)	10/08/19	8	<0.0500	<0.0500	<0.0500	<0.0500	<5.00	<50.0
WSS2 @ 8' (40.293024/-104.711721)	10/09/19	8	<0.00200	<0.00200	<0.00200	<0.00200	12.3	264
SWSS2 @ 8' (40.292943/-104.711718)	10/09/19	8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<50.0
SSS4 @ 8' (40.292907/-104.711644)	10/09/19	8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<50.0
SESS2 @ 8' (40.292921/-104.711576)	10/09/19	8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<50.0
SSS3 @ 8' (40.292971/-104.711520)	10/09/19	8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<50.0
WSS3 @ 8' (40.293101/-104.711709)	10/14/19	8	<0.0500	<0.0500	<0.0500	<0.0500	<5.00	<50.0

TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
WARREN MCMILLAN 2
LAT./LONG. 40.293236/ -104.711610
SWSW SEC.19 T4N R65W 6PM
WELD COUNTY, COLORADO
REMEDIATION PROJECT #13978

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
COGCC Table 910-1 Regulatory Limits (mg/kg)			0.17	85	100	175	500	
WSS4 @ 8' (40.293173/-104.711722)	10/14/19	8	<0.0500	<0.0500	<0.0500	<0.0500	<5.00	<50.0
NSS2 @ 8' (40.293351/-104.711601)	10/14/19	8	<0.0500	<0.0500	<0.0500	<0.0500	<5.00	<50.0
NWSS2 @ 8' (40.293235/-104.711733)	10/14/19	8	<0.0500	<0.0500	<0.0500	<0.0500	<5.00	<50.0
NWSS3 @ 8' (40.293264/-104.711673)	10/14/19	8	<0.0500	<0.0500	<0.0500	<0.0500	<5.00	<50.0
NWSS4 @ 8' (40.293333/-104.711697)	12/12/19	8	<0.0500	<0.0500	<0.0500	<0.0500	<5.00	<50.0
MW-01 @ 5-7.5' (40.293231, -104.711592)	02/03/20	5 - 7.5	<0.0500	<0.0500	<0.0500	<0.0500	<5.00	<50.0
MW-02 @ 2.5-5' (40.293357, -104.711591)	02/03/20	2.5 - 5	<0.0500	<0.0500	<0.0500	<0.0500	<5.00	<50.0
MW-03 @ 5-7.5' (40.293295, -104.711492)	02/03/20	5 - 7.5	<0.0500	<0.0500	<0.0500	<0.0500	51.9	547
MW-04 @ 2.5-5' (40.293186, -104.711483)	02/03/20	2.5 - 5	<0.0500	<0.0500	<0.0500	<0.0500	<5.00	<50.0
MW-05 @ 2.5-5' (40.293124, -104.711586)	02/03/20	2.5 - 5	<0.0500	<0.0500	<0.0500	<0.0500	<5.00	<50.0
MW-06 @ 2.5-5' (40.293168, -104.711701)	02/03/20	2.5 - 5	<0.0500	<0.0500	<0.0500	<0.0500	<5.00	<50.0
MW-07 @ 5-7.5' (40.293283, -104.711704)	02/03/20	5 - 7.5	<0.0500	<0.0500	<0.0500	<0.0500	<5.00	<50.0
MW-08 @ 7.5-10' (40.293034, -104.711628)	02/03/20	7.5 - 10	<0.0500	<0.0500	<0.0500	<0.0500	<5.00	<50.0
MW-09 @ 7.5-10' (40.292899, -104.711625)	02/03/20	7.5 - 10	<0.0500	<0.0500	<0.0500	<0.0500	<5.00	<50.0

COGCC = Colorado Oil and Gas Conservation Commission

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 laboratory detection limits.

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

TABLE 2
GROUNDWATER ELEVATION SUMMARY
WARREN MCMILLAN 2
LAT./LONG. 40.293236/-104.711610
SW 1/4 SW 1/4 SEC.19 T4N R65W 6PM
WELD COUNTY, COLORADO
REMEDIAION PROJECT #13978

Sample Location (Latitude/Longitude)	Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Depth to Groundwater from Ground Surface (feet)	Groundwater Elevation (feet)
MW-01 (40.293231, -104.711592)	02/13/20	99.13	8.83	5.73	90.30
MW-02 (40.293357, -104.711591)	02/13/20	98.29	8.41	5.49	89.88
MW-03 (40.293295, -104.711492)	02/13/20	98.34	8.22	5.19	90.12
MW-04 (40.293186, -104.711483)	02/13/20	98.78	8.34	5.51	90.44
MW-05 (40.293124, -104.711586)	02/13/20	99.03	8.37	5.45	90.66
MW-06 (40.293168, -104.711701)	02/13/20	99.49	8.99	5.79	90.50
MW-07 (40.293283, -104.711704)	02/13/20	99.08	10.32	7.15	88.76
MW-08 (40.293034, -104.711628)	02/13/20	100.00	9.10	5.85	90.90
MW-09 (40.292899, -104.711625)	02/13/20	99.80	8.45	6.24	91.55

Note: Depth to groundwater from ground surface is calculated from subtracting the well stickup height from the measured depth of groundwater.

TABLE 3
GROUNDWATER ANALYTICAL RESULTS SUMMARY
WARREN MCMILLAN 2
LAT./LONG. 40.293236/-104.711610
SW 1/4 SW 1/4 SEC.19 T4N R65W 6PM
WELD COUNTY, COLORADO
REMEDIATION PROJECT #13978

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 @ 9' (40.293233/-104.711589)	08/07/19	107	11.1	180	667
MW-01 (40.293231, -104.711592)	02/13/20	<1.00	<1.00	1.72	<1.00
MW-02 (40.293357, -104.711591)	02/13/20	153	<1.00	59.9	207
MW-03 (40.293295, -104.711492)	02/13/20	<1.00	<1.00	<1.00	<1.00
MW-04 (40.293186, -104.711483)	02/13/20	<1.00	<1.00	<1.00	<1.00
MW-05 (40.293124, -104.711586)	02/13/20	<1.00	<1.00	<1.00	<1.00
MW-06 (40.293168, -104.711701)	02/13/20	<4.00	<4.00	<4.00	<4.00
MW-07 (40.293283, -104.711704)	02/13/20	<1.00	<1.00	<1.00	3.61
MW-08 (40.293034, -104.711628)	02/13/20	<1.00	<1.00	<1.00	<1.00
MW-09 (40.292899, -104.711625)	02/13/20	<1.00	<1.00	<1.00	<1.00

COGCC = Colorado Oil and Gas Conservation Commission

µg/L - micrograms per liter

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

Note: Values presented with a less than symbol (<) did not contain concentrations at or above laboratory detection limits.



ATTACHMENT A

Well Completion Diagrams/Boring Logs

Boring Log/Well Completion Diagram: MW-01

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') silty SAND - brown, fine to medium grained sand, well graded with approx. 30% silt, dry to moist, N/O, N/S	SW		1	100	2.1	N/A		Wet @ ~5'	
5	@6-6.5' HC/O, black staining			2	100	8.5				
6-12'	(6-12') clayey SAND - brown, fine grained sand, moderately graded with approx. 10% clay, wet, N/O, N/S	DP			101.5					
10		SC		3	100	9.5				
							3.1			
	BoB @12'					1.6				

PVC - Polyvinyl Chloride
 DP - Direct Push
 N/A - Not Applicable
 HC/O - Hydrocarbon Odor
 HC/S - Hydrocarbon Staining
 HA - Hand Auger
 BoB - Bottom of Boring
 N/O - No odor
 N/S - No staining

START/COMPLETION DATE: 2-3-2020		SAND PACK INTERVAL (FEET): 1.5-12	
PROJECT: WARREN MCMILLAN UNIT 2		BENTONITE/GROUT INTERVAL (FEET): 0-1.5	
LOGGED BY: S. QUATTROCHI		WELL SCREEN INTERVAL (FEET): 2-12	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (IN): 2	BOREHOLE DIAMETER (IN): 3.25
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC. 8000 W 44th Ave, Wheat Ridge, CO 80033 Ph: 303-433-0479 F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000			
TIME STARTED/COMPLETED: 1051/1111			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 5-7.5/1106			

Boring Log/Well Completion Diagram: MW-02

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	(0-15') silty/clayey SAND - brown, fine to medium grained sand, well graded with approx. 5% clay, 5% silt, dry to moist N/O, N/S			1	70	7.8			Wet @ ~6'	
5	@6' silty/clayey SAND - wet, N/O, N/S			2	80	11.3	N/A			
10		SM	DP	3	100	2.9				
15						5.3				
20						1.7				
30						1.2				
	BoB @15'									

PVC - Polyvinyl Chloride
 DP - Direct Push
 N/A - Not Applicable
 HC/O - Hydrocarbon Odor
 HC/S - Hydrocarbon Staining
 HA - Hand Auger
 BoB - Bottom of Boring
 N/O - No odor
 N/S - No staining

START/COMPLETION DATE: 2-3-2020		SAND PACK INTERVAL (FEET): 4-15	
PROJECT: WARREN MCMILLAN UNIT 2		BENTONITE/GROUT INTERVAL (FEET): 0-4	
LOGGED BY: S. QUATTROCHI		WELL SCREEN INTERVAL (FEET): 5-15	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (IN): 2	BOREHOLE DIAMETER (IN): 3.25
BORING DEPTH (FEET): 15	WELL DEPTH (FEET): 15	<p>EAGLE ENVIRONMENTAL CONSULTING, INC. 8000 W 44th Ave, Wheat Ridge, CO 80033 Ph: 303-433-0479 F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000			
TIME STARTED/COMPLETED: 1004/1011			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5-5/1008			

Boring Log/Well Completion Diagram: MW-03

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') silty SAND - brown, fine grained sand, well graded with approx. 15% silt, dry to moist, N/O, N/S	SW	1	90	7.4	N/A	5		Wet @ ~5'	
5	@5-7' HC/O, black staining (6-12') clayey SAND - brown, fine grained sand, well graded with approx. 10% clay, moist, N/O, N/S				DP					2
10		SC	3	100	11.9		10			
					1.6					1.0
	BoB @12'									

PVC - Polyvinyl Chloride
 DP - Direct Push
 N/A - Not Applicable
 HC/O - Hydrocarbon Odor
 HC/S - Hydrocarbon Staining
 HA - Hand Auger
 BoB - Bottom of Boring
 N/O - No odor
 N/S - No staining

START/COMPLETION DATE: 2-3-2020		SAND PACK INTERVAL (FEET): 1.5-12	
PROJECT: WARREN MCMILLAN UNIT 2		BENTONITE/GROUT INTERVAL (FEET): 0-1.5	
LOGGED BY: S. QUATTROCHI		WELL SCREEN INTERVAL (FEET): 2-12	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (IN): 2	BOREHOLE DIAMETER (IN): 3.25
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC. 8000 W 44th Ave, Wheat Ridge, CO 80033 Ph: 303-433-0479 F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000			
TIME STARTED/COMPLETED: 1137/1150			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 5-7.5/1141			

Boring Log/Well Completion Diagram: MW-04

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	(0-12') silty SAND - brown, fine grained sand, well graded with 10% silt, dry to moist, N/O, N/S	SC	DP	1	100	3.7	N/A		Wet @ ~5'	
5	@5' silty SAND - brown, wet, N/O, N/S			2	90	4.0				
10				3	90	2.7				
						2.3				
						1.8				
						1.6				
	BoB @12'									

PVC - Polyvinyl Chloride
 DP - Direct Push
 N/A - Not Applicable
 HC/O - Hydrocarbon Odor
 HC/S - Hydrocarbon Staining
 HA - Hand Auger
 BoB - Bottom of Boring
 N/O - No odor
 N/S - No staining

START/COMPLETION DATE: 2-3-2020		SAND PACK INTERVAL (FEET): 1.5-12	
PROJECT: WARREN MCMILLAN UNIT 2		BENTONITE/GROUT INTERVAL (FEET): 0-1.5	
LOGGED BY: S. QUATTROCHI		WELL SCREEN INTERVAL (FEET): 2-12	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (IN): 2	BOREHOLE DIAMETER (IN): 3.25
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC. 8000 W 44th Ave, Wheat Ridge, CO 80033 Ph: 303-433-0479 F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000			
TIME STARTED/COMPLETED: 1122/1133			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5-5/1127			

Boring Log/Well Completion Diagram: MW-05

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') silty SAND - brown, fine grained sand, well graded with approx. 10% silt, dry to moist, N/O, N/S	SC	1	100	7.4	N/A	5		Wet @ ~5'	
5	@5' silty SAND - brown, wet, N/O, N/S				7.9					
7-12'	sandy CLAY - light brown, wet, low plasticity, well graded with approx. 10% fine grained sand, N/O, N/S	CL	2	90	3.5	N/A	10			
					3.6					
	BoB @12'				0					
					0					

PVC - Polyvinyl Chloride
 DP - Direct Push
 N/A - Not Applicable
 HC/O - Hydrocarbon Odor
 HC/S - Hydrocarbon Staining
 HA - Hand Auger
 BoB - Bottom of Boring
 N/O - No odor
 N/S - No staining

START/COMPLETION DATE: 2-3-2020		SAND PACK INTERVAL (FEET): 1.5-12	
PROJECT: WARREN MCMILLAN UNIT 2		BENTONITE/GROUT INTERVAL (FEET): 0-1.5	
LOGGED BY: S. QUATTROCHI		WELL SCREEN INTERVAL (FEET): 2-12	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (IN): 2	BOREHOLE DIAMETER (IN): 3.25
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC. 8000 W 44th Ave, Wheat Ridge, CO 80033 Ph: 303-433-0479 F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000			
TIME STARTED/COMPLETED: 1156/1208			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5-5/1205			

Boring Log/Well Completion Diagram: MW-06

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') silty SAND - brown, fine grained sand, well graded with approx. 10% silt, dry to moist, N/O, N/S	SC	1	100	4.3	N/A			Wet @ ~5'	
5	@5' silty SAND - brown, wet, N/O, N/S				6.6					
7-12'	sandy CLAY - light brown, low plasticity, well graded with approx. 10% fine grained sand, wet, N/O, N/S	CL	2	100	3.0					
					2.4					
			3	100	2.1					
					0.8					
	BoB @12'									

PVC - Polyvinyl Chloride
 DP - Direct Push
 N/A - Not Applicable
 HC/O - Hydrocarbon Odor
 HC/S - Hydrocarbon Staining
 HA - Hand Auger
 BoB - Bottom of Boring
 N/O - No odor
 N/S - No staining

START/COMPLETION DATE: 2-3-2020		SAND PACK INTERVAL (FEET): 1.5-12	
PROJECT: WARREN MCMILLAN UNIT 2		BENTONITE/GROUT INTERVAL (FEET): 0-1.5	
LOGGED BY: S. QUATTROCHI		WELL SCREEN INTERVAL (FEET): 2-12	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (IN): 2	BOREHOLE DIAMETER (IN): 3.25
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC. 8000 W 44th Ave, Wheat Ridge, CO 80033 Ph: 303-433-0479 F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000			
TIME STARTED/COMPLETED: 1212/1220			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5-5/1215			

Boring Log/Well Completion Diagram: MW-07

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	(0-12') silty clayey SAND - brown, medium grained sand with approx. 15% fine grained sand, moderately graded with approx. and, 5% silt, 5% clay, dry to moist, N/O, N/S	SC	DP	1	100	5.9	N/A		Wet @ ~5'	
5	@5' silty clayey SAND - brown, wet, N/O, N/S			2	100	4.5				
10				3	100	6.9				
12	BoB @12'					2.5				
15										
20										
25										
30										

PVC - Polyvinyl Chloride
 DP - Direct Push
 N/A - Not Applicable
 HC/O - Hydrocarbon Odor
 HC/S - Hydrocarbon Staining
 HA - Hand Auger
 BoB - Bottom of Boring
 N/O - No odor
 N/S - No staining

START/COMPLETION DATE: 02-03-2020		SAND PACK INTERVAL (FEET): 1.5-12	
PROJECT: WARREN MCMILLAN UNIT 2		BENTONITE/GROUT INTERVAL (FEET): 0-1.5	
LOGGED BY: S. QUATTROCHI		WELL SCREEN INTERVAL (FEET): 2-12	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (IN): 2	BOREHOLE DIAMETER (IN): 3.25
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC. 8000 W 44th Ave, Wheat Ridge, CO 80033 Ph: 303-433-0479 F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000			
TIME STARTED/COMPLETED: 1030/1042			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 5-7.5/1035			

Boring Log/Well Completion Diagram: MW-08

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') silty SAND - brown, fine grained sand, well graded with approx. 5% silt, dry to moist, N/O, N/S	SM	1	100	1.5	N/A	5		Wet @ ~7'	
5	@7' silty SAND - brown, wet, N/O, N/S				2.8					
5	(8-15') silty CLAY - light brown, low plasticity, well graded with approx. 5% silt, wet, N/O, N/S	DP	2	90	1.1	N/A	10		Wet @ ~7'	
10					4.7					
10		CL	3	100	0.6	N/A	15		Wet @ ~7'	
15					0.5					
15	BoB @15'									

PVC - Polyvinyl Chloride
 DP - Direct Push
 N/A - Not Applicable
 HC/O - Hydrocarbon Odor
 HC/S - Hydrocarbon Staining
 HA - Hand Auger
 BoB - Bottom of Boring
 N/O - No odor
 N/S - No staining

START/COMPLETION DATE: 2-3-2020		SAND PACK INTERVAL (FEET): 4-15	
PROJECT: WARREN MCMILLAN UNIT 2		BENTONITE/GROUT INTERVAL (FEET): 0-4	
LOGGED BY: S. QUATTROCHI		WELL SCREEN INTERVAL (FEET): 5-15	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (IN): 2	BOREHOLE DIAMETER (IN): 3.25
BORING DEPTH (FEET): 15	WELL DEPTH (FEET): 15	<p>EAGLE ENVIRONMENTAL CONSULTING, INC. 8000 W 44th Ave, Wheat Ridge, CO 80033 Ph: 303-433-0479 F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000			
TIME STARTED/COMPLETED: 1225/1242			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 7.5-10/1230			

Boring Log/Well Completion Diagram: MW-09

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 SAND - brown, fine grained sand, well graded with approx. 5% silt, dry to moist, N/O, N/S	SM	1	100	1.8	N/A	0		Wet @ ~8'	
5	(5-15') sandy CLAY - brown, low plasticity, moderately graded with approx. 10% fine grained sand, moist, N/O, N/S @7' sandy CLAY - brown, wet, N/O, N/S				DP					2
10		CS	3	100		0.7	10			
15	BoB @15'								9.7	15
20					0	20				
25					0		25			
30						30				

PVC - Polyvinyl Chloride
 DP - Direct Push
 N/A - Not Applicable
 HC/O - Hydrocarbon Odor
 HC/S - Hydrocarbon Staining
 HA - Hand Auger
 BoB - Bottom of Boring
 N/O - No odor
 N/S - No staining

START/COMPLETION DATE: 2-3-2020		SAND PACK INTERVAL (FEET): 4-15	
PROJECT: WARREN MCMILLAN UNIT 2		BENTONITE/GROUT INTERVAL (FEET): 0-4	
LOGGED BY: S. QUATTROCHI		WELL SCREEN INTERVAL (FEET): 5-15	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (IN): 2	BOREHOLE DIAMETER (IN): 3.25
BORING DEPTH (FEET): 15	WELL DEPTH (FEET): 15	<p>EAGLE ENVIRONMENTAL CONSULTING, INC. 8000 W 44th Ave, Wheat Ridge, CO 80033 Ph: 303-433-0479 F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000			
TIME STARTED/COMPLETED: 1320/1333			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 7.5-10/1325			

ATTACHMENT B

Laboratory Analytical Reports



February 05, 2020

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - SRC - Warren McMilan Unit 2

Project Number - [none]

Attached are your analytical results for SRC - Warren McMilan Unit 2 received by Origins Laboratory, Inc. February 03, 2020. This project is associated with Origins project number Y002017-01.

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.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: SRC - Warren McMilan Unit 2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01@5-7.5'	Y002017-01	Soil	February 3, 2020 11:06	02/03/2020 15:45
MW-02@2.5-5'	Y002017-02	Soil	February 3, 2020 10:08	02/03/2020 15:45
MW-03@5-7.5'	Y002017-03	Soil	February 3, 2020 11:41	02/03/2020 15:45
MW-04@2.5-5'	Y002017-04	Soil	February 3, 2020 11:27	02/03/2020 15:45
MW-05@2.5-5'	Y002017-05	Soil	February 3, 2020 12:05	02/03/2020 15:45
MW-06@2.5-5'	Y002017-06	Soil	February 3, 2020 12:15	02/03/2020 15:45
MW-07@5-7.5'	Y002017-07	Soil	February 3, 2020 10:35	02/03/2020 15:45
MW-08@7.5-10'	Y002017-08	Soil	February 3, 2020 12:30	02/03/2020 15:45
MW-09@7.5-10'	Y002017-09	Soil	February 3, 2020 13:25	02/03/2020 15:45

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: SRC - Warren McMilan Unit 2

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y002017

Client: Eagle
 Client Project ID: Warren McMilan Unit 2

Checklist Completed by: JG
 Date/time completed: 2/3/2020

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

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

Cooler Number/Temperature: 1 / 2.5 °C _____ / _____ °C _____ / _____ °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⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? if yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
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)			<input checked="" type="checkbox"/>	
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) JG

Date/Time Reviewed 2/4/20

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: SRC - Warren McMilan Unit 2

MW-01@5-7.5'
2/3/2020 11:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002017-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0B0401	ZZZ	02/04/2020	02/04/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0B0402	KDK	"	02/04/2020	U
Surrogate: o-Terphenyl	65.7 %	50-150			"	"	"	"	

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: SRC - Warren McMilan Unit 2

MW-02@2.5-5'
2/3/2020 10:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002017-02 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0B0401	ZZZ	02/04/2020	02/04/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"		
Surrogate: Toluene-d8	96.3 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"		

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0B0402	KDK	"	02/04/2020	U
Surrogate: o-Terphenyl	65.6 %	50-150			"	"	"		

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: SRC - Warren McMilan Unit 2

MW-03@5-7.5'
2/3/2020 11:41:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002017-03 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0B0401	ZZZ	02/04/2020	02/04/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	51.9	5.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	118 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	547	50.0	mg/kg	1	B0B0402	KDK	"	02/04/2020	
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Surrogate: o-Terphenyl	60.9 %	50-150			"	"	"	"	
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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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: SRC - Warren McMilan Unit 2

MW-04@2.5-5'
2/3/2020 11:27:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002017-04 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0B0401	ZZZ	02/04/2020	02/04/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"		
Surrogate: Toluene-d8	95.8 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	98.8 %	70-130			"	"	"		

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0B0402	KDK	"	02/04/2020	U
Surrogate: o-Terphenyl	52.0 %	50-150			"	"	"		

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: SRC - Warren McMilan Unit 2

MW-05@2.5-5'
2/3/2020 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002017-05 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0B0401	ZZZ	02/04/2020	02/04/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.2 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0B0402	KDK	"	02/04/2020	U
Surrogate: o-Terphenyl	57.3 %	50-150			"	"	"	"	

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: SRC - Warren McMilan Unit 2

MW-06@2.5-5'
2/3/2020 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002017-06 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0B0401	ZZZ	02/04/2020	02/04/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"		
Surrogate: Toluene-d8	96.9 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	99.3 %	70-130			"	"	"		

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0B0402	KDK	"	02/04/2020	U
Surrogate: o-Terphenyl	57.3 %	50-150			"	"	"		

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: SRC - Warren McMilan Unit 2

MW-07@5-7.5'
2/3/2020 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002017-07 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0B0401	ZZZ	02/04/2020	02/04/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"		
Surrogate: Toluene-d8	97.3 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	96.8 %	70-130			"	"	"		

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0B0402	KDK	"	02/04/2020	U
Surrogate: o-Terphenyl	58.8 %	50-150			"	"	"		

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: SRC - Warren McMilan Unit 2

MW-08@7.5-10'
2/3/2020 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002017-08 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0B0401	ZZZ	02/04/2020	02/04/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"		
Surrogate: Toluene-d8	101 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	94.7 %	70-130			"	"	"		

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0B0402	KDK	"	02/04/2020	U
Surrogate: o-Terphenyl	55.9 %	50-150			"	"	"		

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: SRC - Warren McMilan Unit 2

MW-09@7.5-10'

2/3/2020 1:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y002017-09 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0B0401	ZZZ	02/04/2020	02/04/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.9 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0B0402	KDK	"	02/04/2020	U
Surrogate: o-Terphenyl	56.8 %	50-150			"	"	"	"	

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: SRC - Warren McMilan Unit 2

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B0B0401 - EPA 5030 (soil)

Blank (B0B0401-BLK1)

Prepared: 02/04/2020 Analyzed: 02/04/2020

Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	70-130			

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: SRC - Warren McMilan Unit 2

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B0B0401 - EPA 5030 (soil)

LCS (B0B0401-BS1)

Prepared: 02/04/2020 Analyzed: 02/04/2020

Benzene	0.100	0.00200	mg/kg	0.100		100	70-130			
Toluene	0.0981	0.00200	"	0.100		98.1	70-130			
Ethylbenzene	0.103	0.00200	"	0.100		103	70-130			
m,p-Xylene	0.203	0.00400	"	0.200		101	70-130			
o-Xylene	0.105	0.00200	"	0.100		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.7	70-130			

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: SRC - Warren McMilan Unit 2

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B0B0401 - EPA 5030 (soil)

Matrix Spike (B0B0401-MS1)	Source: Y002017-02			Prepared: 02/04/2020 Analyzed: 02/04/2020						
Benzene	0.122	0.00200	mg/kg	0.100	ND	122	70-130			
Toluene	0.123	0.00200	"	0.100	ND	123	70-130			
Ethylbenzene	0.123	0.00200	"	0.100	ND	123	70-130			
m,p-Xylene	0.243	0.00400	"	0.200	ND	121	70-130			
o-Xylene	0.125	0.00200	"	0.100	ND	125	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.6	70-130			

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.
 8000 W 44th Ave
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Martin C Eckert III
 Project Number: [none]
 Project: SRC - Warren McMilan Unit 2

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B0B0401 - EPA 5030 (soil)

Matrix Spike Dup (B0B0401-MSD1)	Source: Y002017-02			Prepared: 02/04/2020 Analyzed: 02/04/2020						
Benzene	0.106	0.00200	mg/kg	0.100	ND	106	70-130	13.5	20	
Toluene	0.109	0.00200	"	0.100	ND	109	70-130	12.8	20	
Ethylbenzene	0.111	0.00200	"	0.100	ND	111	70-130	10.6	20	
m,p-Xylene	0.217	0.00400	"	0.200	ND	109	70-130	11.0	20	
o-Xylene	0.110	0.00200	"	0.100	ND	110	70-130	12.1	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.6	70-130			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: SRC - Warren McMilan Unit 2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0B0402 - EPA 3580										
Blank (B0B0402-BLK1)										
					Prepared: 02/04/2020 Analyzed: 02/04/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Surrogate: o-Terphenyl	14		"	25.0		56.8	50-150			

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: SRC - Warren McMilan Unit 2

Extractable Petroleum Hydrocarbons by 8015D - 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 B0B0402 - EPA 3580

LCS (B0B0402-BS1)

Prepared: 02/04/2020 Analyzed: 02/04/2020

Diesel (C10-C28)	859	50.0	mg/kg	1000		85.9	70-130			
Surrogate: <i>o</i> -Terphenyl	39		"	50.0		77.0	50-150			

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: SRC - Warren McMilan Unit 2

Extractable Petroleum Hydrocarbons by 8015D - 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 B0B0402 - EPA 3580

Matrix Spike (B0B0402-MS1)	Source: Y002017-02			Prepared: 02/04/2020 Analyzed: 02/04/2020						
Diesel (C10-C28)	798	50.0	mg/kg	1000	ND	79.8	70-130			
Surrogate: o-Terphenyl	36		"	50.0		72.7	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: SRC - Warren McMilan Unit 2

Extractable Petroleum Hydrocarbons by 8015D - 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 B0B0402 - EPA 3580

Matrix Spike Dup (B0B0402-MSD1)	Source: Y002017-02			Prepared: 02/04/2020 Analyzed: 02/04/2020						
Diesel (C10-C28)	918	50.0	mg/kg	1000	ND	91.8	70-130	14.0	35	
Surrogate: o-Terphenyl	44		"	50.0		88.3	50-150			

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.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: SRC - Warren McMilan Unit 2

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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.



February 20, 2020

Eagle Environmental Consulting, Inc.

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - PDC - Warren McMilan Unit 2

Project Number - [none]

Attached are your analytical results for PDC - Warren McMilan Unit 2 received by Origins Laboratory, Inc. February 13, 2020. This project is associated with Origins project number Y002187-01.

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.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: PDC - Warren McMilan Unit 2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y002187-01	Water	February 13, 2020 12:59	02/13/2020 15:04
MW-02	Y002187-02	Water	February 13, 2020 13:04	02/13/2020 15:04
MW-03	Y002187-03	Water	February 13, 2020 13:09	02/13/2020 15:04
MW-04	Y002187-04	Water	February 13, 2020 13:14	02/13/2020 15:04
MW-05	Y002187-05	Water	February 13, 2020 13:19	02/13/2020 15:04
MW-06	Y002187-06	Water	February 13, 2020 13:24	02/13/2020 15:04
MW-07	Y002187-07	Water	February 13, 2020 13:29	02/13/2020 15:04
MW-08	Y002187-08	Water	February 13, 2020 13:34	02/13/2020 15:04
MW-09	Y002187-09	Water	February 13, 2020 13:39	02/13/2020 15:04

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: PDC - Warren McMilan Unit 2

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y002187

Client: Eagle

Client Project ID: PDC - Warren McMilan

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 2/14/2020

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.1 °C _____ / _____ °C _____ / _____ °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⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? if yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
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)		<input checked="" type="checkbox"/>		
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.

o/p
 Reviewed by (Project Manager)

2/17/20
 Date/Time Reviewed

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: PDC - Warren McMilan Unit 2

MW-01

2/13/2020 12:59:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002187-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B1403	ZZZ	02/14/2020	02/17/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	1.72	1.00	"	"	"	ZZZ	"	"	
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"		02/17/2020	
Surrogate: Toluene-d8	96.4 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	97.2 %	70-130			"	"		"	

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: PDC - Warren McMilan Unit 2

MW-02
2/13/2020 1:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002187-02 (Water)

BTEX by EPA 8260D

Benzene	153	1.00	ug/L	1	B0B1403	KDK	02/14/2020	02/18/2020	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	59.9	1.00	"	"	"	KDK	"	"	
Xylenes, total	207	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.8 %	70-130			"	"	"	"	

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: PDC - Warren McMilan Unit 2

MW-03

2/13/2020 1:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002187-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B1403	KDK	02/14/2020	02/17/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.7 %	70-130			"	"	"	"	

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: PDC - Warren McMilan Unit 2

MW-04
2/13/2020 1:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002187-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B1403	KDK	02/14/2020	02/17/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.8 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: PDC - Warren McMilan Unit 2

MW-05

2/13/2020 1:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002187-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B1403	KDK	02/14/2020	02/17/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.8 %	70-130			"	"	"	"	

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: PDC - Warren McMilan Unit 2

MW-06
2/13/2020 1:24:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002187-06 (Water)

BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B0B1403	KDK	02/14/2020	02/17/2020	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.4 %	70-130			"	"	"	"	

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: PDC - Warren McMilan Unit 2

MW-07
2/13/2020 1:29:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002187-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B1403	KDK	02/14/2020	02/17/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	3.61	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.5 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: PDC - Warren McMilan Unit 2

MW-08
2/13/2020 1:34:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002187-08 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B1403	KDK	02/14/2020	02/17/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.5 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: PDC - Warren McMilan Unit 2

MW-09
2/13/2020 1:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002187-09 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B1403	KDK	02/14/2020	02/17/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.3 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: PDC - Warren McMilan Unit 2

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B0B1403 - EPA 5030B (Water)

Blank (B0B1403-BLK1)

Prepared: 02/14/2020 Analyzed: 02/15/2020

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	67		"	62.5	108		70-130			
Surrogate: Toluene-d8	60		"	62.5	96.2		70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	97.6		70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: PDC - Warren McMilan Unit 2

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B0B1403 - EPA 5030B (Water)

LCS (B0B1403-BS1)

Prepared: 02/14/2020 Analyzed: 02/15/2020

Benzene	52.5	1.00	ug/L	50.0		105	70-130			
Toluene	52.9	1.00	"	50.0		106	70-130			
Ethylbenzene	51.1	1.00	"	50.0		102	70-130			
m,p-Xylene	106	2.00	"	100		106	70-130			
o-Xylene	54.1	1.00	"	50.0		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.4	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: PDC - Warren McMilan Unit 2

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B0B1403 - EPA 5030B (Water)

Matrix Spike (B0B1403-MS1)	Source: Y002186-01			Prepared: 02/14/2020 Analyzed: 02/15/2020						
Benzene	50.8	1.00	ug/L	50.0	1.86	97.8	70-130			
Toluene	47.8	1.00	"	50.0	ND	95.6	70-130			
Ethylbenzene	47.3	1.00	"	50.0	0.130	94.4	70-130			
m,p-Xylene	97.2	2.00	"	100	0.190	97.0	70-130			
o-Xylene	50.6	1.00	"	50.0	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.7	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: PDC - Warren McMilan Unit 2

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B0B1403 - EPA 5030B (Water)

Matrix Spike Dup (B0B1403-MSD1)	Source: Y002186-01			Prepared: 02/14/2020 Analyzed: 02/15/2020						
Benzene	51.2	1.00	ug/L	50.0	1.86	98.7	70-130	0.863	20	
Toluene	48.9	1.00	"	50.0	ND	97.8	70-130	2.21	20	
Ethylbenzene	48.3	1.00	"	50.0	0.130	96.4	70-130	2.07	20	
m,p-Xylene	99.6	2.00	"	100	0.190	99.5	70-130	2.49	20	
o-Xylene	51.3	1.00	"	50.0	ND	103	70-130	1.26	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	65		"	62.5		104	70-130			
<i>Surrogate: Toluene-d8</i>	61		"	62.5		97.0	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	62		"	62.5		99.4	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: PDC - Warren McMilan Unit 2

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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.