



January 23, 2020

Mr. Jacob Evans
Noble Energy, Inc.
2115 117th Avenue
Greeley, CO 80631

**Soil and Groundwater Assessment Report
Edward Hemple Unit 1
Historical Release
40.302039 / -104.692251
SW 1/4 NW 1/4 SEC.20 T4N R65W 6PM
Weld County, Colorado
Remediation # 12591**

Dear Mr. Evans,

Eagle Environmental Consulting, Inc. (EAGLE) is pleased to present this Soil and Groundwater Assessment Report for the above referenced site.

1.0 SITE DESCRIPTION

The Edward Hemple Unit 1 is located within the southwest quarter of the northwest quarter of Section 20, Township 4 north, Range 65 west of the 6th Prime Meridian. The historical release was located at latitude: 40.302039 and longitude: -104.692251. A topographic site location map is presented as Figure 1. An aerial site location map is presented as Figure 2.

1.1 Site Hydrogeology

The soil lithology observed beneath the release location consists of loose, silty sand from the ground surface to approximately 7 feet below ground surface (bgs), underlain by silty clay from approximately 7 to 10 feet bgs, and sandy clay from approximately 10 to 12 feet bgs. Groundwater during excavation activities was observed at approximately 6.5 feet bgs. Groundwater during sampling and gauging activities was observed ranging from approximately 2.9 to 8.6 feet bgs. A detailed description of the subsurface lithology beneath the site is presented in the boring logs included in Attachment A.

2.0 SITE BACKGROUND

AECOM was retained by Noble Energy, Inc. (Noble) to perform subsurface assessment activities at the site in response to historical petroleum hydrocarbon impacts discovered during site maintenance. On December 4, 2018, AECOM collected soil samples from five (5) soil borings (SB-1 through SB-5) around the suspected release area to identify any petroleum hydrocarbon impacts above Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 regulatory limits. Based on soil analytical results, a historical release was confirmed, and excavation activities were initiated. AECOM collected excavation soil samples through December 14, 2018. During AECOM's assessment activities, the site figures and labs were labeled Archibald Site.

From December 14, 2018 through June 10, 2019, Noble supervised excavation activities to remove adsorbed petroleum hydrocarbon impacts at the site. Affirm Oilfield Services (Affirm) provided the necessary equipment and personnel to remove and transport impacted soil from the site. On December 19, 2018, EAGLE was requested by Noble to assume environmental oversight on current and future assessment and remediation activities and EAGLE began to collect soil samples on an “on-call basis”.

EAGLE collected waste characterization/confirmation soil samples (SS-01 through SS-133) along the side walls of the excavation and adjacent to pressurized lines and facilities. Excavation activities were limited onsite due to above-ground infrastructure and pressurized lines. Anadarko Petroleum Corporation (Anadarko) personnel were onsite during mechanical excavation activities adjacent to their facilities. Due to safety concerns, phreatic soil impacts could not be removed adjacent to the active pressurized lines and facilities, and remain in place. A site map presenting the residual phreatic soil impacts remaining at the site is included as Figure 3.

Prior to backfill, a total of 2,650 pounds of granular activated carbon (GAC) and 2,650 pounds of gypsum were applied to the base of the excavation. The final limits of the Edward Hemple Unit 1 excavation extended approximately 340 feet north to south and 230 feet east to west. The excavation was advanced to a depth of approximately 7 feet bgs. Approximately 13,050 cubic yards of soil and 1,200 barrels of slurry (approx. 108 cubic yards) were removed during source excavation activities and transported offsite for disposal at Buffalo Ridge Landfill located in Keenesburg, Colorado, and Republic Services in Commerce City, Colorado, respectively.

The following narrative details soil and groundwater assessment activities completed at the site.

3.0 SOIL BORING ADVANCEMENT/MONITORING WELL INSTALLATION ACTIVITIES

To laterally define adsorbed and dissolved petroleum hydrocarbon impacts at the site, EAGLE proposed 22 soil borings (MW-01 through MW-22) at the site. Following approval, installation activities were scheduled. Based on groundwater laboratory analytical results, EAGLE proposed the installation of additional monitoring wells (MW-23 through MW-42) to achieve point of compliance (POC) with the groundwater.

3.1 Field Work Preparation and Planning

The Utility Notification Center of Colorado (UNCC) was called at least 48 hours in advance of drilling activities to confirm that no utilities or other obstacles were present within the proposed drilling locations. Based on proximity to above ground and below ground utilities, Energes Oilfield Services (Energes) was utilized to hydrovac select locations to a depth of approximately 5 feet bgs to ensure clearance from all marked or unmarked utilities.

3.2 Soil Boring Advancement/Monitoring Well Completion Activities

On July 18, 2019, July 19, 2019, August 30, 2019, and December 9, 2019, EAGLE advanced forty-two (42) soil borings (MW-01 through MW-42) around the historical release area. 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.

Each location was logged in the field according to soil description, soil classification, moisture content, staining, and volatile organic compound (VOC) concentrations. Monitoring wells, MW-01 through MW-

42, were completed with 1-inch, schedule 40, poly vinyl chloride (PVC) pipe, each to a total depth of approximately 12 feet bgs. Ten (10) feet of 0.010 slot, 1-inch, PVC screen was placed at the bottom of each boring followed by 2-feet of PVC riser. The well annulus of each monitoring well was backfilled with 10/20 silica sand to approximately 1-foot above screen, followed by a hydrated bentonite seal to the surface. Monitoring wells MW-01, MW-02, MW-07, MW-11 through MW-20, MW-22 through MW-30, and MW-38 through MW-42 were completed as approximately 3-foot PVC stickups. Monitoring wells MW-03 through MW-06, MW-08 through MW-10, MW-21, and MW-31 through MW-37 were completed with 8-inch traffic rated steel flush mounts. Following monitoring well completions, each monitoring well was developed through purging the location a minimum of six well volumes using disposable PVC bailers.

EAGLE recorded spatial locations of each monitoring well using a Trimble GeoXT 6000 series instrument. Soil boring logs/monitoring well completion diagrams are included in Attachment A. Monitoring well locations are presented in Figure 4. A geological cross section is included as Figure 5.

3.3 Soil Sampling Procedures

During soil boring advancement/monitoring well installation 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, where applicable, for soil identification and analysis. A portion 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 PID readings and sample location above the observed phreatic zone, soil samples from soil borings MW-01, MW-02, MW-06, MW-07, MW-09, MW-11, MW-15, MW-16, MW-17, and MW-21 through MW-42 were submitted to Origins Laboratory, Inc. (Origins), following standard chain of custody (COC) procedures, for laboratory analysis. Each soil sample collected was analyzed for benzene, toluene, ethylbenzene, total xylenes (BTEX), naphthalene, total petroleum hydrocarbons – gasoline range organics (TPH-GRO), and total petroleum hydrocarbons – diesel range organics (TPH-DRO) following modified Environmental Protection Agency (EPA) Methods 8260D and 8015D. The laboratory received the soil samples within the required holding time for each laboratory analysis. Soil analytical results are detailed below, and included in Table 1.

Based on location within the previous excavation boundaries, soil samples were not collected for laboratory analysis from soil borings MW-03, MW-04, MW-05, MW-08, MW-10, MW-12, MW-13, MW-14, MW-18, MW19, and MW-21.

3.3.1 Monitoring Well Soil Laboratory Analytical Results

Based on soil laboratory analytical results:

- Soil sample MW-25@5-7.5' contained a concentration of benzene exceeding the COGCC Table 910-1 regulatory limit of 0.17 milligrams per kilogram (mg/kg).
- Soil samples collected from monitoring wells MW-01, MW-02, MW-06, MW-07, MW-09, MW-11, MW-15, MW-16, MW-17, MW-21 through MW-24, and MW-26 through MW-42 did not contain concentrations of BTEX, naphthalene, or total petroleum hydrocarbons (TPH) exceeding applicable COGCC Table 910-1 regulatory limits.

Monitoring well soil analytical results are presented in Figure 4 and summarized in Table 1. Soil laboratory reports are included in Attachment B.

3.4 Groundwater Sampling Procedures

Following monitoring well installation activities in July 2019, groundwater samples were collected from monitoring wells MW-01 through MW-22 on July 25, 2019. Groundwater analytical results from July 2019 are summarized in Table 2. Based on analytical results, EAGLE installed additional POC monitoring wells MW-23 through MW-35 at the site on August 30, 2019, and collected groundwater samples from monitoring wells MW-23 through MW-35 on September 9, 2019. Groundwater analytical results from September 2019 are summarized in Table 2.

Monitoring wells MW-01 through MW-35 were sampled on November 6, 2019 to confirm dissolved BTEX concentrations for additional monitoring well placements. Monitoring wells MW-36 through MW-42 were installed on December 9, 2019, and groundwater samples were collected December 12, 2019. Prior to groundwater sample collection, depth to groundwater data was collected using 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.

Groundwater elevations for all monitoring wells (MW-01 through MW-42) were collected on January 15, 2020. Relative groundwater elevations within each monitoring well ranged from 88.07 (MW-25) to 94.38 (MW-33). The groundwater flow direction beneath the site on January 15, 2020 was predominantly northwest, with an average hydraulic gradient of 0.048 feet per foot (ft./ft.) across the site (measured from MW-33 to MW-25). Groundwater elevation data from January 15, 2020 is presented in Figure 6 and summarized in Table 3.

Prior to sampling, each monitoring well was developed through purging each location a minimum of three (3) well volumes using disposable, 1-inch PVC bailers. Following recharge, groundwater samples were collected from each monitoring well in 40 milliliter (mL) amber vials. The groundwater samples were transported in an iced cooler under standard COC procedures to Origins, and submitted for laboratory analysis of BTEX following EPA Method 8260D. The laboratory received the groundwater samples within the required holding time.

3.4.1 Groundwater Analytical Results

Based on groundwater laboratory analytical results from the November 6, 2019 and December 12, 2019 sampling events:

- Groundwater samples collected from monitoring wells MW-02, MW-03, MW-04, MW-06, MW-08 through MW-11, MW-14, MW-23, MW-25, MW40, and MW-41 contained concentrations of benzene exceeding the COGCC Table 910-1 regulatory limit of 5 micrograms per liter ($\mu\text{g/L}$).
- Groundwater samples collected from monitoring wells MW-06, MW-09, and MW-40 contained concentrations of toluene exceeding the COGCC Table 910-1 regulatory limit of 560 $\mu\text{g/L}$.
- Groundwater samples collected from monitoring wells MW-06, MW-08, MW-09, MW-16, MW-40, and MW-41 contained concentrations of total xylenes exceeding the COGCC Table 910-1 regulatory limit of 1,400 $\mu\text{g/L}$.

Groundwater analytical results from November 6, 2019 and December 12, 2019 are presented in Figure 7 and summarized in Table 2. Groundwater laboratory reports are included in Attachment B.

4.0 CONCLUSIONS

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

- On July 18, 2019 and July 19, 2019, EAGLE installed monitoring wells MW-01 through MW-22 at the site.
- Soil samples collected from monitoring wells MW-01, MW-02, MW-06, MW-07, MW-09, MW-11, MW-15, MW-16, MW-17, MW-21, and MW-22 did not contain concentrations of BTEX, naphthalene, or TPH exceeding applicable COGCC Table 910-1 regulatory limits.
- Groundwater samples were collected from monitoring wells MW-01 through MW-22 on July 25, 2019.
- Groundwater samples collected from monitoring wells MW-02, MW-03, MW-04, MW-06, MW-13, MW-14, MW-16, MW-19, MW-20, MW-21, and MW-22 on July 25, 2019 contained concentrations of benzene exceeding the COGCC Table 910-1 regulatory limit.
- Groundwater samples collected from monitoring wells MW-02, MW-06, MW-09, and MW-16 on July 25, 2019, contained concentrations of toluene and total xylenes exceeding the applicable COGCC Table 910-1 regulatory limits.
- The groundwater sample collected from MW-09 on July 25, 2019 also contained a concentration of ethylbenzene exceeding the COGCC Table 910-1 regulatory limit.
- On August 30, 2019, EAGLE installed monitoring wells MW-23 through MW-35 at the site.

- Soil sample MW-25@5-7.5' contained a concentration of benzene exceeding the COGCC Table 910-1 regulatory limit.
- Soil samples collected from monitoring wells MW-23, MW-24, and MW-26 through MW-35 did not contain concentrations of BTEX, naphthalene, or TPH exceeding applicable COGCC Table 910-1 regulatory limits.
- Groundwater samples were collected from monitoring wells MW-23 through MW-35 on September 9, 2019.
- Groundwater samples collected from monitoring wells MW-23, MW-25, MW-26, and MW-27 on September 9, 2019, contained concentrations of benzene exceeding the COGCC Table 910-1 regulatory limit.
- The groundwater sample collected from monitoring well MW-25 on September 9, 2019 contained concentrations of toluene and total xylenes exceeding applicable COGCC Table 910-1 regulatory limits.
- Groundwater samples were collected from monitoring wells MW-01 through MW-35 on November 6, 2019.
- Groundwater samples collected from monitoring wells MW-02, MW-03, MW-04, MW-06, MW-08 through MW-11, MW-14, MW-23, and MW-25 on November 6, 2019 contained concentrations of benzene exceeding the COGCC Table 910-1 regulatory limit.
- Groundwater samples collected from monitoring wells MW-06 and MW-09 on November 6, 2019 contained concentrations of toluene exceeding the COGCC Table 910-1 regulatory limit.
- Groundwater samples collected from monitoring wells MW-06, MW-08, MW-09, and MW-16 on November 6, 2019 contained concentrations of total xylenes exceeding the COGCC Table 910-1 regulatory limit.
- On December 9, 2019, EAGLE installed monitoring wells MW-36 through MW-42 at the site.
- Soil samples collected from monitoring wells MW-36 through MW-42 did not contain concentrations of BTEX, naphthalene, or TPH exceeding applicable COGCC Table 910-1 regulatory limits.
- Groundwater samples were collected from MW-36 through MW-42 on December 12, 2019.
- Groundwater samples collected from monitoring wells MW-40 and MW-41 on December 12, 2019 contained concentrations of benzene and total xylenes exceeding applicable COGCC Table 910-1 regulatory limits.
- The groundwater sample collected from monitoring well MW-40 on December 12, 2019 also contained a concentration of toluene exceeding the COGCC Table 910-1 regulatory limit.
- Groundwater elevation data was collected from all monitoring wells (MW-01 through MW-42) on January 15, 2020. The groundwater flow direction was predominantly northwest with an

average hydraulic gradient of 0.048 ft/ft measured across the site.

5.0 RECOMMENDATIONS

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

- Install additional monitoring wells to achieve point of compliance;
- Following site decommissioning/abandonment, complete additional source removal activities adjacent to residual phreatic soil impacts lefts in vicinity of pressurized lines and above-ground infrastructure at the site;
- Continue quarterly groundwater sampling activities to monitor natural attenuation and determine additional remedial actions at the site once additional source removal is complete and dissolved BTEX impacts are fully delineated.

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.



Andrew Newberry
Project Geologist



Robin Lockwood
Project Scientist

FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

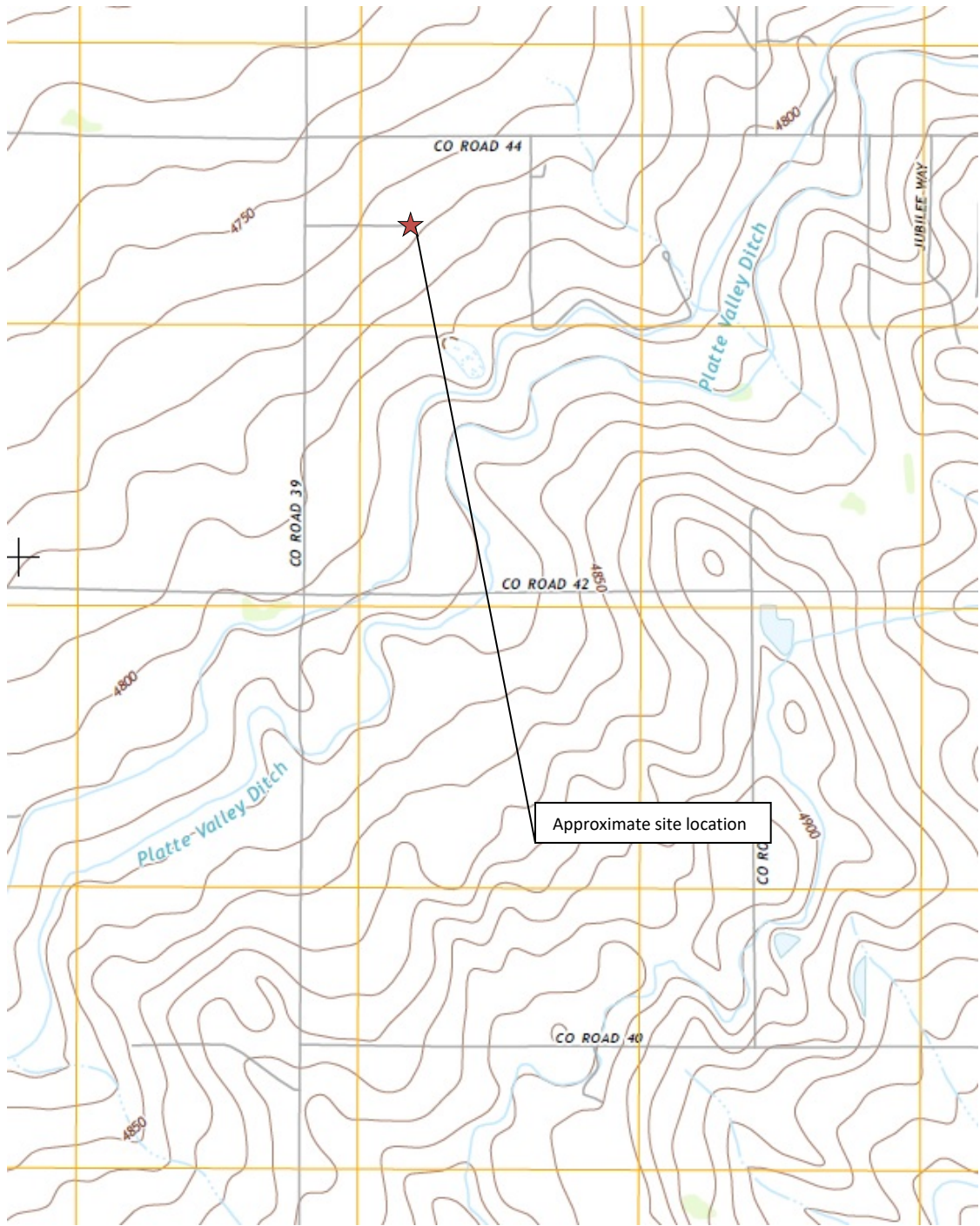
Figure 3: Residual Phreatic Soil Location Map

Figure 4: Monitoring Well Soil Analytical Map

Figure 5: Geologic Cross-Section (A-A')

Figure 6: Groundwater Elevation Map (01/15/20)

Figure 7: Groundwater Analytical Map (11/06/19 & 12/12/19)



Topographic Site Location Map

Edward Hemple Unit 1
 Historical Release
 40.302039 / -104.692251
 NW ¼ NW ¼ SEC.20 T4N R65W 6PM
 Weld County, Colorado
 Remediation # 12591



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

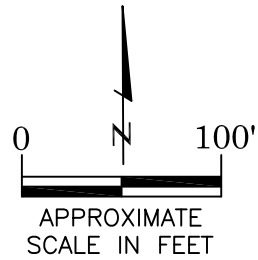
Figure 1



LEGEND

 EDWARD HEMPLE UNIT 1 TANK BATTERY

 APPROXIMATE RELEASE LOCATION (40.302039 / -104.692251)



AERIAL SITE LOCATION MAP
 EDWARD HEMPLE UNIT 1
 HISTORICAL RELEASE
 40.302039 / -104.692251
 SW¼ NW¼ SEC.20 T4N R65W 6PM
 WELD COUNTY, COLORADO
 REMEDIATION # 12591

DATE:
05/20/19

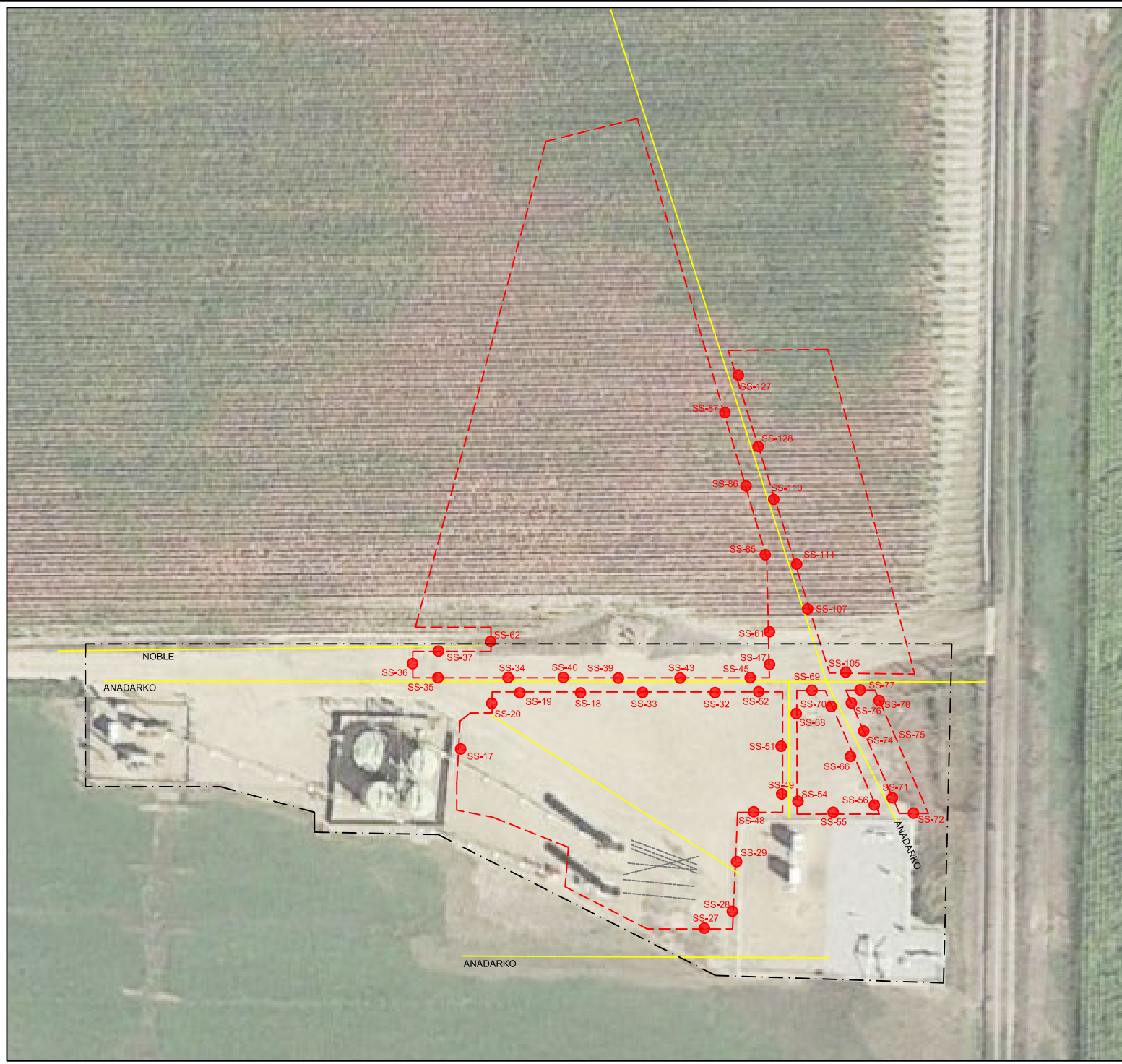
FIG. NO.
2

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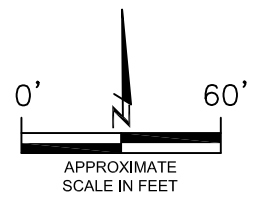


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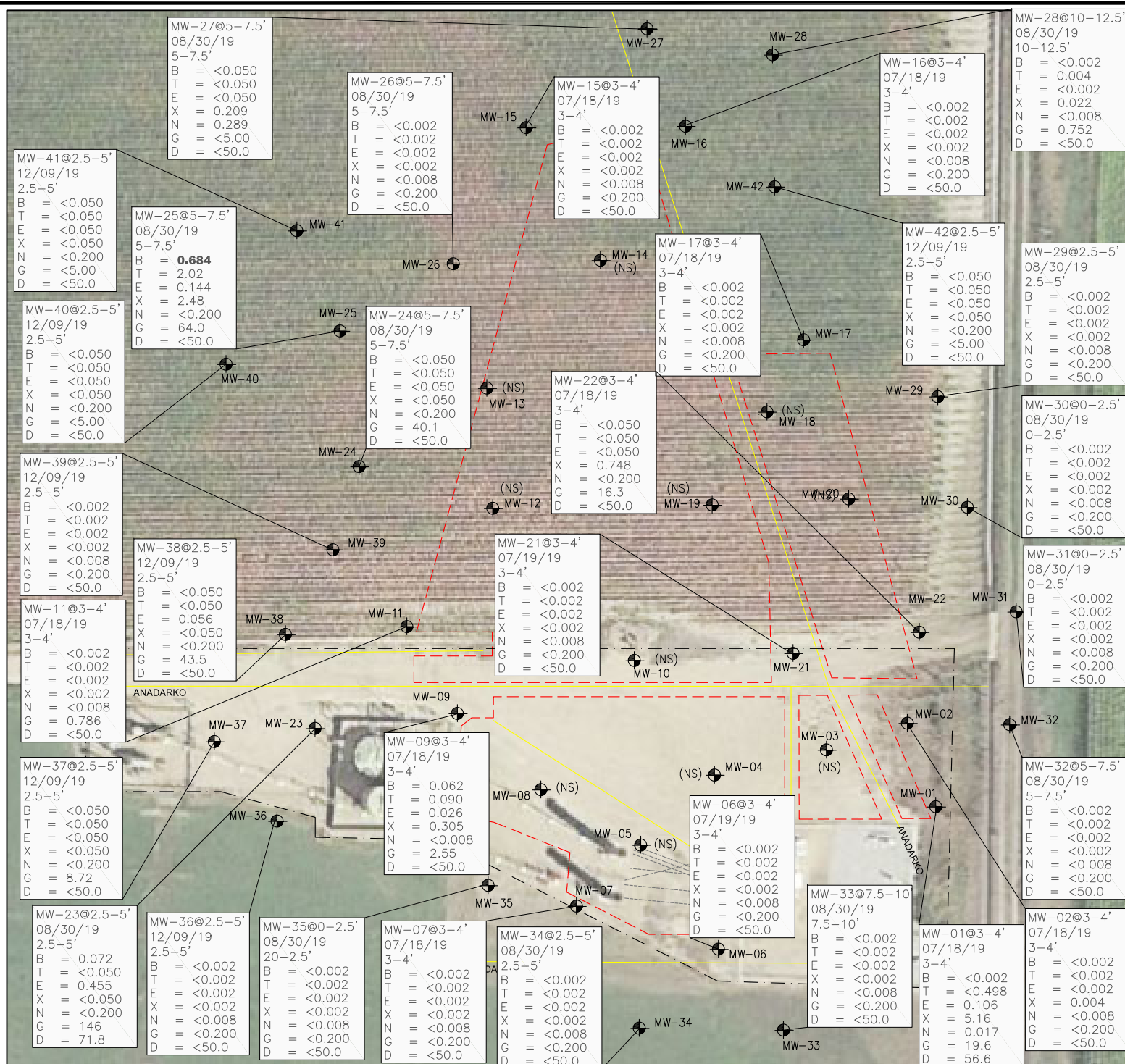
- LEGEND**
- APPROXIMATE TANK BATTERY BOUNDARY
 - APPROXIMATE UTILITY LINE LOCATION (ACTIVE)
 - APPROXIMATE UTILITY LINE LOCATIONS (INACTIVE)
 - - - APPROXIMATE EXCAVATION BOUNDARIES
 - APPROXIMATE LOCATION OF PHREATIC SOIL IMPACTS* LEFT IN PLACE
- *(BASED ON FIELD OBSERVATIONS AND/OR LAB RESULTS)



RESIDUAL PHREATIC SOIL IMPACT LOCATION MAP
 EDWARD HEMPLE UNIT 1
 HISTORICAL RELEASE
 40.302039 / -104.692251
 SW¼ NW¼ SEC.20 T4N R65W 6PM
 WELD COUNTY, COLORADO
 REMEDIATION # 12591

DATE:
01/20/20
 DRAWN BY:
KTP
 FIG.
NO. 3

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LEGEND

- APPROXIMATE TANK BATTERY BOUNDARY
- APPROXIMATE UTILITY LINE LOCATION (ACTIVE)
- APPROXIMATE UTILITY LINE LOCATIONS (INACTIVE)
- - - APPROXIMATE EXCAVATION BOUNDARIES
- ⊕ APPROXIMATE MONITORING WELL LOCATIONS

PARAMETERS

SOIL 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

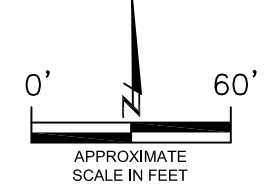
NOTE:

VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS.

VALUES PRESENTED IN **BOLD** TYPEFACE CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 910-1 REGULATORY LIMITS.

COGCC - COLORADO OIL AND GAS CONSERVATION COMMISSION

BASED ON LOCATIONS WITHIN THE PREVIOUS EXCAVATION BOUNDARIES, SOIL SAMPLES WERE NOT COLLECTED FOR LABORATORY ANALYSIS FROM MONITORING WELLS MW-03, MW-04, MW-05, MW-08, MW-10, MW-12, MW-13, MW-14, MW-18, MW-19, AND MW-21. THESE WELLS ARE INDICATED AS NOT SAMPLED (NS).

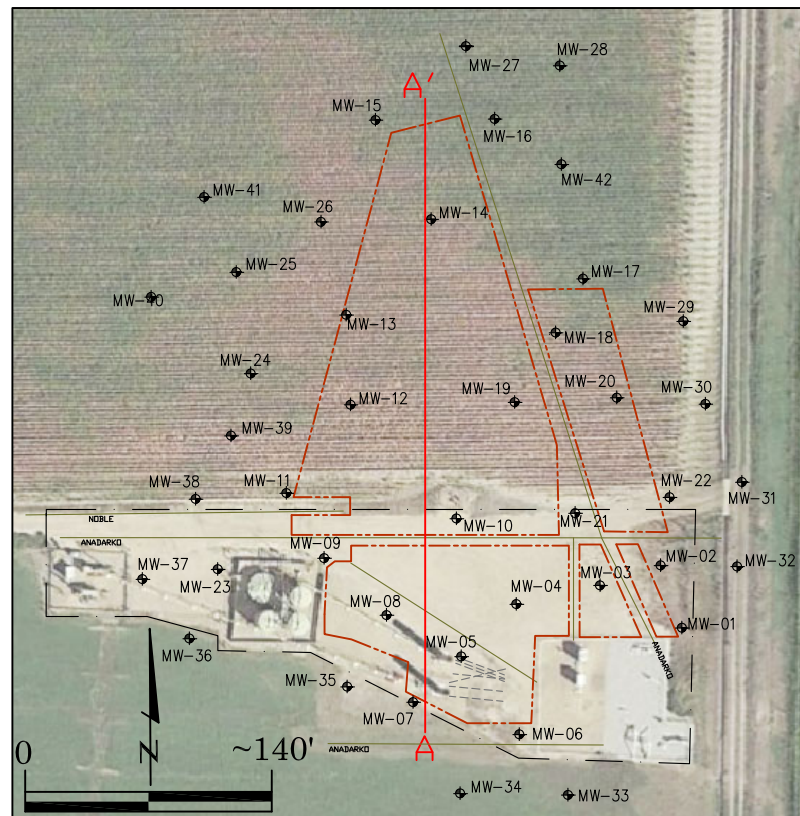
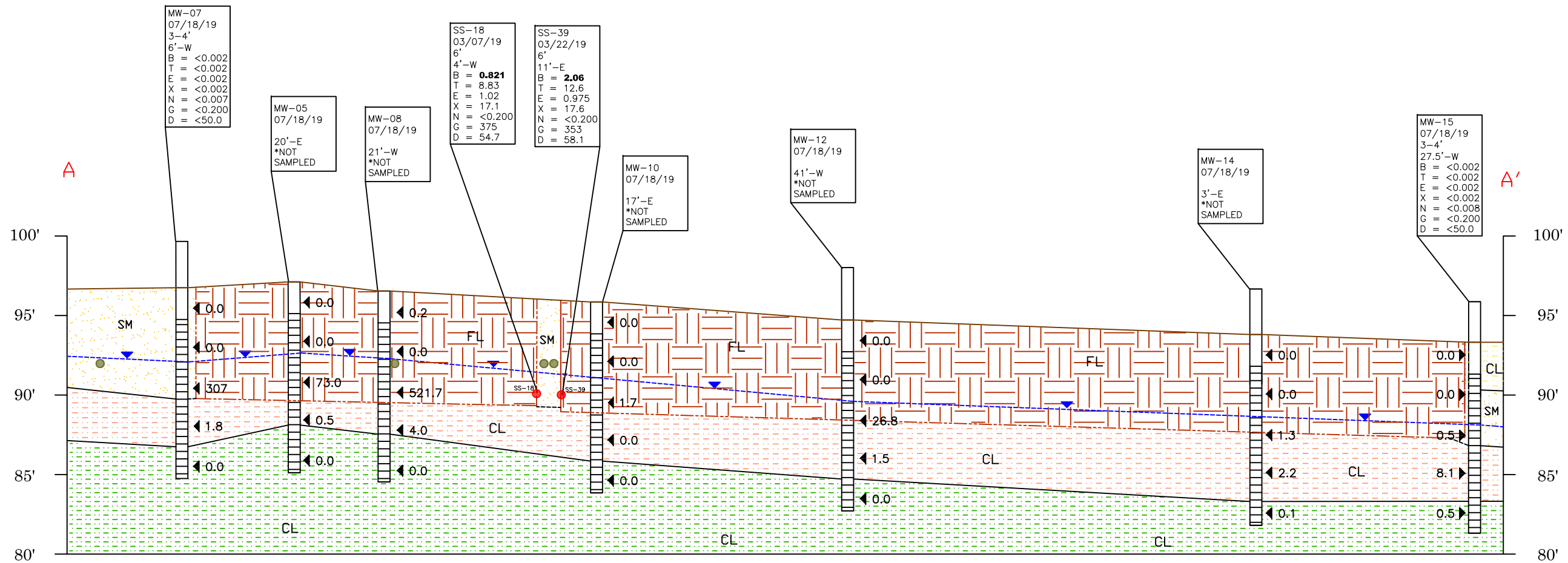


MONITORING WELL SOIL ANALYTICAL MAP
 EDWARD HEMPLE UNIT 1
 HISTORICAL RELEASE
 40.302039 / -104.692251
 SW¼ NW¼ SEC.20 T4N R65W 6PM
 WELD COUNTY, COLORADO
 REMEDIATION # 12591

DATE: 01/20/20
 DRAWN BY: KTP
 FIG. NO. 4



GEOLOGIC CROSS SECTION A-A'



LEGEND

- FILL
- SILTY SANDY CLAY
- SILTY SAND
- SILTY CLAY
- SANDY CLAY
- GROUND SURFACE
- EXCAVATION BOUNDARIES
- OBSERVED CONTACT
- INFERRED CONTACT
- OBSERVED GROUNDWATER (01/15/20)
- LINE OF CROSS SECTION
- APPROXIMATE FLOW LINE LOCATIONS

PARAMETERS

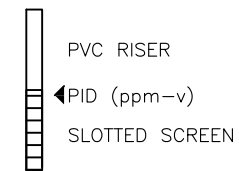
SAMPLE LOCATION
DATE
DEPTH (FEET)
OFFSET FROM A-A'(FEET-DIRECTION)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
G = TPH-GRO (mg/kg)
D = TPH-DRO (mg/kg)
N = NAPHTHALENE (mg/kg)

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 EXCEEDED THEIR RESPECTIVE COGCC TABLE 910-1 REGULATORY LIMITS.

COGCC - COLORADO OIL AND GAS CONSERVATION COMMISSION

*SOIL SAMPLES WERE COLLECTED FROM MONITORING WELLS MW-05, MW-08, MW-12, AND MW-14 FOR LABORATORY ANALYSIS



SS-01 EXCAVATION SOIL SAMPLE LOCATIONS ABOVE COGCC TABLE 910-1 REGULATORY LIMITS

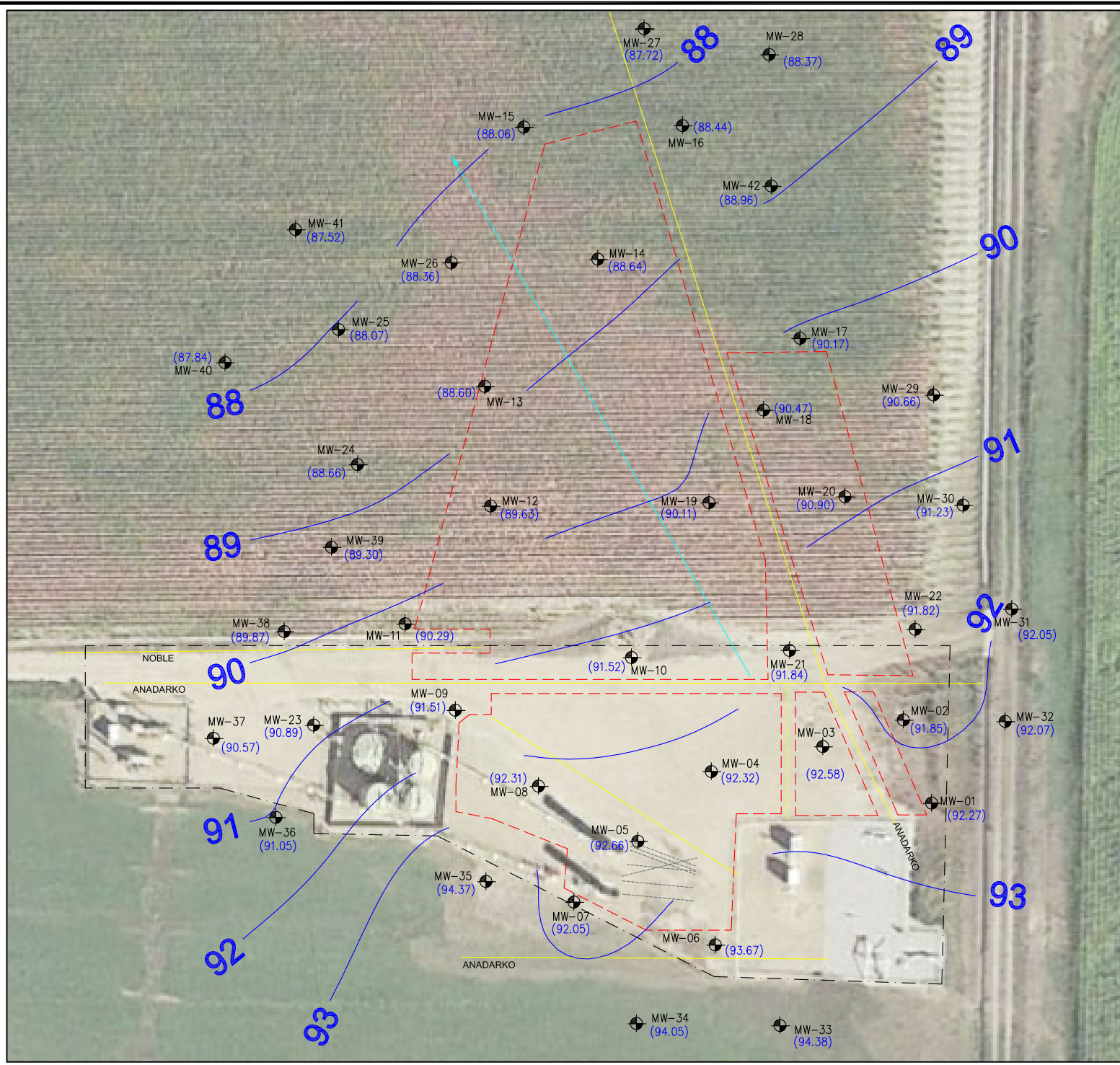


APPROXIMATE HORIZONTAL SCALE IN FEET
4x VERTICAL EXAGGERATION

GEOLOGIC CROSS SECTION (A-A')
EDWARD HEMPLE UNIT 1
HISTORICAL RELEASE
40.302039 / -104.692251
SW1/4 NW1/4 SEC.20 T4N R65W 6PM
WELD COUNTY, COLORADO
REMEDATION # 12591

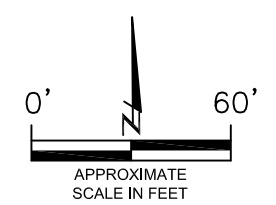


FIG. NO. 5	DATE: 01/21/20	DRAWN BY: KTP
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LEGEND

- — — APPROXIMATE TANK BATTERY BOUNDARY
 - — — APPROXIMATE UTILITY LINE LOCATION (ACTIVE)
 - - - - - APPROXIMATE UTILITY LINE LOCATIONS (INACTIVE)
 - - - - - APPROXIMATE EXCAVATION BOUNDARIES
 - ⊕ APPROXIMATE MONITORING WELL LOCATIONS
 - (92.26) RELATIVE GROUNDWATER ELEVATION (FT.)
 - — — INFERRED GROUNDWATER ELEVATION CONTOUR (FT.)
 - ↗ APPROXIMATE GROUNDWATER FLOW DIRECTION
- FT. = FEET
- GROUNDWATER ELEVATION DATA WAS COLLECTED FROM ALL MONITORING WELLS ON 01/15/20.



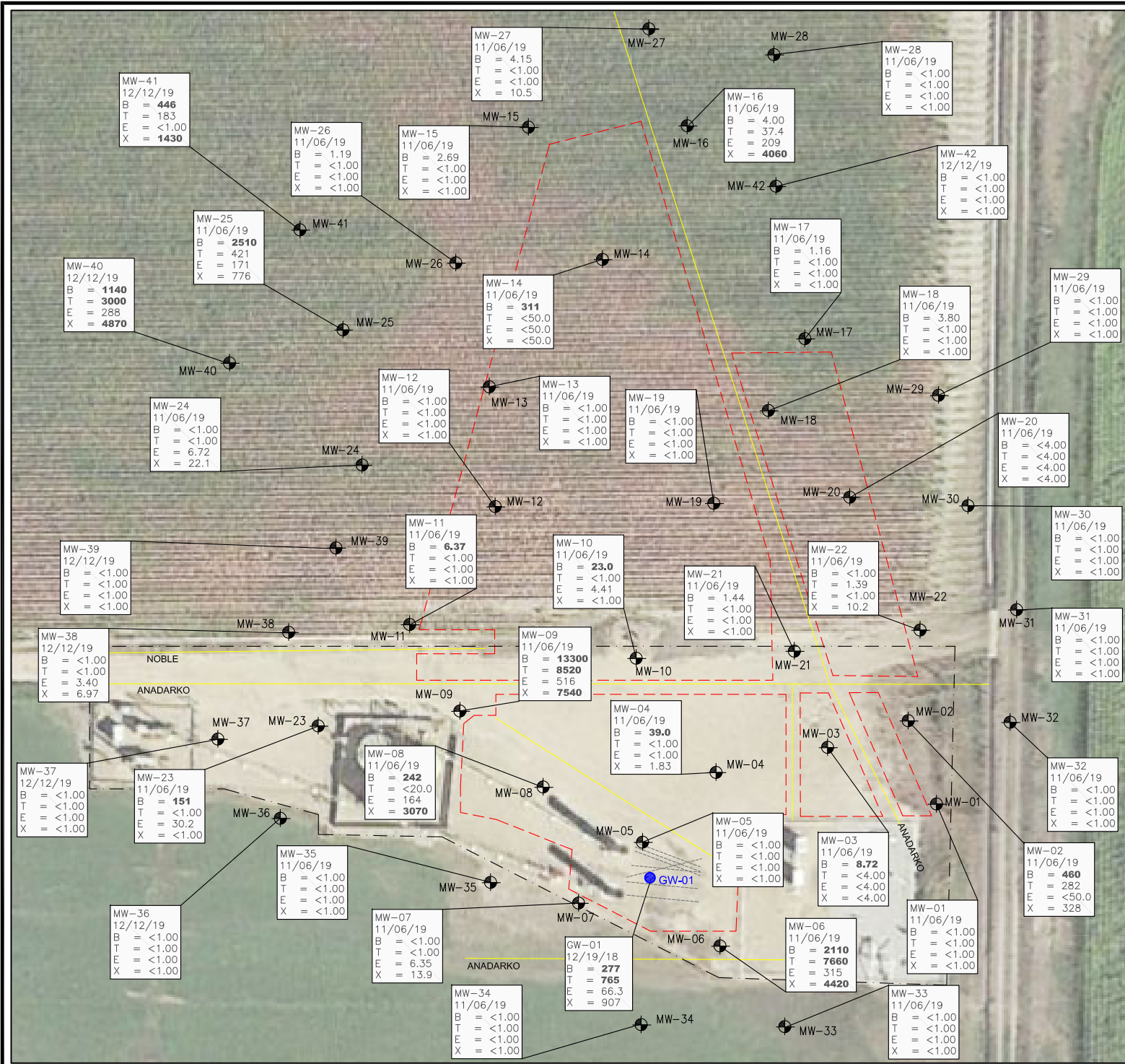
GROUNDWATER ELEVATION MAP
 (01/15/20)
 EDWARD HEMPLE UNIT 1
 HISTORICAL RELEASE
 40.302039 / -104.692251
 SW¼ NW¼ SEC.20 T4N R65W 6PM
 WELD COUNTY, COLORADO
 REMEDIATION # 12591

DATE:
01/20/20

DRAWN BY:
KTP

FIG. NO. 6

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LEGEND

- APPROXIMATE TANK BATTERY BOUNDARY
- APPROXIMATE UTILITY LINE LOCATION (ACTIVE)
- - - - - APPROXIMATE UTILITY LINE LOCATIONS (INACTIVE)
- - - - - APPROXIMATE EXCAVATION BOUNDARIES
- ⊕ APPROXIMATE MONITORING WELL LOCATIONS
- ⊕ APPROXIMATE LOCATION OF EXCAVATION GRAB GROUNDWATER SAMPLE SUBMITTED FOR LABORATORY ANALYSIS

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

VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS.

VALUES PRESENTED IN **BOLD** TYPEFACE CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 910-1 REGULATORY LIMITS.

COGCC – COLORADO OIL AND GAS CONSERVATION COMMISSION

0' 60'

APPROXIMATE SCALE IN FEET

GROUNDWATER ANALYTICAL MAP
 (11/06/19 & 12/12/19)
 EDWARD HEMPLE UNIT 1
 HISTORICAL RELEASE
 40.302039 / -104.692251
 SW¼ NW¼ SEC.20 T4N R65W 6PM
 WELD COUNTY, COLORADO
 REMEDIATION # 12591

DATE: 01/20/20
 DRAWN BY: KTP
 FIG. NO. 7

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TABLES

Table 1: Soil Analytical Results Summary

Table 2: Groundwater Analytical Results Summary

Table 3: Groundwater Elevation Summary

**TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
EDWARD HEMPLE UNIT 1
HISTORICAL RELEASE
40.302039 / -104.692251
SW1/4 NW1/4 SEC.20 T4N R65W 6PM
WELD COUNTY, COLORADO
REMEDIATION # 12591**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenz ene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
COGCC Table 910-1 Regulatory Limits (mg/kg)			0.17	85	100	175	23	500	
SB-1 (2)** (40.302085 / -104.085)	12/04/18	2	0.68	2.9	0.25	4.5	0.021	<50	57
SB-2 (4)** (40.302022 / -104.692148)	12/04/18	4	2.7	15	0.98	21	0.049	370	53
SB-3 (4)** (40.302040 / -104.692231)	12/04/18	4	0.19	1.7	0.29	8.1	0.046	<50	67
SB-4 (5)** (40.302013 / -104.692231)	12/04/18	5	0.21	1.3	0.28	2.9	0.027	55	<50
SB-5 (2.5)** (40.302121 / -104.692207)	12/04/18	3	13	130	11	170	0.12	2800	740
Floor (6)** (40.302035 / -104.692198)	12/14/18	6	3.84	17.8	1.58	27.2	<0.200	694	213
East Wall 1 (4') 121418 ** (40.302049 / -104.692125)	12/14/18	4	5.42	32.7	2.73	41.3	<0.200	999	<50.0
East Walls 2 (3') 121418 ** (40.302094 / -104.692160)	12/14/18	3	16.8	151	11.9	204	0.328	5310	519
West Wall 1 (5') 121418 ** (40.302040 / -104.692254)	12/14/18	5	3.06	31.5	8.50	134	0.366	3610	458
West Wall 2 (3') 121418 ** (40.302058 / -104.692231)	12/14/18	3	1.94	18.1	1.88	12.0	<0.200	781	352
North Wall (3') 121418 ** (40.302076 / -104.692195)	12/14/18	3	0.510	10.0	1.36	24.5	<0.200	682	219
SS-01 @ 6' (40.302012 / -104.692278)	01/08/19	6	0.710	4.34	0.437	7.64	<0.200	115	<50.0
SS-05 @ 6' (40.302053 / -104.692329)	01/11/19	6	0.050	1.14	0.280	4.31	<0.200	125	<50.0
SS-06 @ 6' (40.302121 / -104.692321)	01/11/19	6	0.182	1.33	0.257	4.58	<0.200	118	<0.50
SS-07 @ 6' (40.302194 / -104.692309)	01/11/19	6	1.50	11.3	1.51	25.3	<0.200	627	161
SS-08 @ 6' (40.302214 / -104.692275)	01/11/19	6	0.444	4.73	0.622	10.2	<0.200	207	65.5
SS-09 @ 6' (40.302211 / -104.692209)	01/11/19	6	3.12	35.6	3.40	56.4	0.232	1230	289
SS-10 @ 6' (40.302211 / -104.692129)	01/11/19	6	16.4	151	11.4	204	0.406	4080	557
SS-11 @ 6' (40.302115 / -104.692321)	01/14/19	6	0.224	0.574	0.148	2.60	<0.200	64.8	<50.0
SS-12 @ 6' (40.302149 / -104.692336)	01/14/19	6	2.94	18.4	2.36	38.1	<0.200	1010	84.5
SS-13 @ 6' (40.302193 / -104.692325)	01/14/19	6	0.257	2.44	0.367	6.56	<0.200	192	<50.0
SS-14 @ 6' (40.302217 / -104.692279)	01/14/19	6	2.52	20.5	1.76	30.5	<0.200	620	<50.0
SS-15 @ 6' (40.302210 / -104.692224)	01/14/19	6	15.5	101	52.0	123	0.808	2030	677
SS-16 @ 6' (40.302204 / -104.692142)	01/14/19	6	2.20	8.46	0.657	10.6	<0.200	194	<50.0
SS-17 @ 6' (40.302204 / -104.692142)	02/19/19	6	0.090	<0.050	0.322	4.70	<0.200	536	91.7

**TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
EDWARD HEMPLE UNIT 1
HISTORICAL RELEASE
40.302039 / -104.692251
SW1/4 NW1/4 SEC.20 T4N R65W 6PM
WELD COUNTY, COLORADO
REMEDIATION # 12591**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenz ene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
COGCC Table 910-1 Regulatory Limits (mg/kg)			0.17	85	100	175	23	500	
SS-18 @ 6' (40.302249 / -104.6922274)	03/07/19	6	0.821	8.83	1.02	17.1	<0.200	375	54.7
SS-19 @ 6' (40.302249 / -104.692375)	03/07/19	6	2.12	17.1	1.69	29.2	<0.200	647	81.4
SS-20 @ 6' (40.302244 / -104.692425)	03/07/19	6	0.418	2.48	0.363	5.85	<0.200	153	<50.0
SS-21 @ 6' (40.302153 / -104.692478)	03/07/19	6	<0.050	<0.050	<0.050	<0.050	<0.200	23.9	<50.0
SS-22 @ 6' (40.302135 / -104.692386)	03/07/19	6	<0.050	<0.050	<0.050	0.302	<0.200	14.3	<50.0
SS-23 @ 6' (40.302120 / -104.692320)	03/07/19	6	0.094	1.44	0.248	4.71	<0.200	103	<50.0
SS-24 @ 6' (40.302082 / -104.692319)	03/07/19	6	<0.050	0.402	0.187	2.84	<0.200	120	<50.0
SS-25 @ 6' (40.302026 / -104.692303)	03/07/19	6	<0.050	1.98	0.292	5.11	<0.200	147	<50.0
SS-26 @ 6' (40.302999 / -104.692222)	03/07/19	6	<0.050	<0.050	<0.050	<0.050	<0.200	18.9	<50.0
SS-27 @ 6' (40.302003 / -104.692117)	03/07/19	6	7.32	42.6	2.86	49.7	<0.200	1010	129
SS-28 @ 6' (40.302023 / -104.692078)	03/07/19	6	0.228	2.33	0.426	8.82	<0.200	255	63.6
SS-29 @ 6' (40.302080 / -104.692077)	03/07/19	6	0.185	1.51	0.226	4.56	<0.200	230	61.9
SS-30 @ 6' (40.302132 / -104.692074)	03/07/19	6	4.11	63.9	6.28	107	0.268	2140	297
SS-31 @ 6' (40.302208 / -104.692067)	03/07/19	6	0.266	0.178	<0.050	0.122	<0.200	<5.00	<50.0
SS-32 @ 6' (40.302259 / -104.692093)	03/08/19	6	3.55	28.6	2.73	45.1	<0.200	875	208
SS-33 @ 6' (40.302254 / -104.692192)	03/08/19	6	0.359	2.55	0.254	4.45	<0.200	107	<50.0
SS-34 @ 6' (40.302265 / -104.692327)	03/21/19	6	1.94	11.7	1.16	19.4	<0.200	505	94.9
SS-35 @ 6' (40.302260 / -104.692414)	03/21/19	6	0.231	2.71	0.505	8.76	<0.200	202	58.5
SS-36 @ 6' (40.302276 / -104.692455)	03/21/19	6	0.228	1.67	<0.498	3.61	<0.200	88.3	<50.0
SS-37 @ 6' (40.302298 / -104.692417)	03/21/19	6	0.177	0.538	<0.050	0.736	<0.200	10.8	<50.0
SS-38 @ 6' (40.302229 / -104.692335)	03/21/19	6	1.02	7.59	0.665	12.1	<0.200	289	52.9
SS-39 @ 6' (40.302264 / -104.692144)	03/22/19	6	2.06	12.6	0.975	17.6	<0.200	353	58.1
SS-40 @ 6' (40.302264 / -104.692230)	03/22/19	6	0.660	3.33	0.305	5.11	<0.200	101	69.4
SS-41 @ 6' (40.302284 / -104.692228)	03/22/19	6	0.821	3.92	0.408	6.70	<0.200	128	52.3
SS-42 @ 6' (40.302293 / -104.692146)	03/22/19	6	3.93	39.5	3.29	54.0	0.290	931	295

TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
EDWARD HEMPLE UNIT 1
HISTORICAL RELEASE
40.302039 / -104.692251
SW1/4 NW1/4 SEC.20 T4N R65W 6PM
WELD COUNTY, COLORADO
REMEDIATION # 12591

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenz ene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
COGCC Table 910-1 Regulatory Limits (mg/kg)			0.17	85	100	175	23	500	
SS-43 @ 6' (40.302267 / -104.692065)	03/26/19	6	1.01	7.00	0.604	9.37	<0.200	211	<50.0
SS-45 @ 6' (40.302291 / -104.692078)	03/29/19	6	2.14	11.7	0.795	13.9	<0.200	393	<50.0
SS-47 @ 6' (40.302295 / -104.691960)	03/29/19	6	0.590	4.92	0.595	13.4	<0.200	290	91.5
SS-48 @ 6' (40.302106 / -104.692035)	03/29/19	6	0.700	8.12	0.865	16.6	<0.200	356	149
SS-49 @ 6' (40.302123 / -104.691994)	03/29/19	6	2.83	21.7	1.74	29.9	<0.200	657	145
SS-51 @ 6' (40.302195 / -104.691984)	04/01/19	6	0.654	9.52	1.43	21.9	<0.200	428	113
SS-52 @ 6' (40.302250 / -104.692010)	04/02/19	6	0.820	7.71	0.880	14.5	<0.200	371	96.1
SS-54 @ 6' (40.302123 / -104.691977)	04/02/19	6	2.36	15.8	1.76	24.0	<0.200	578	83.0
SS-55 @ 6' (40.302107 / -104.691940)	04/02/19	6	0.850	7.93	0.789	13.2	<0.200	281	54.0
SS-56 @ 6' (40.302129 / -104.691874)	04/02/19	6	0.108	5.23	1.12	19.9	<0.200	445	1360
SS-61 @ 6' (40.302314 / -104.691993)	04/03/19	6	0.938	28.3	3.63	69.7	0.302	1100	284
SS-66 @ 6' (40.302181 / -104.691913)	04/05/19	6	2.98	28.2	2.52	44.8	<0.200	813	103
SS-68 @ 6' (40.302229 / -104.691981)	04/09/19	6	0.224	4.02	0.468	9.10	0.354	69.2	54.7
SS-69 @ 6' (40.302247 / -104.691954)	04/09/19	6	0.308	3.23	0.377	7.26	<0.200	81.3	<50.0
SS-70 @ 6' (40.302245 / -104.691946)	04/09/19	6	0.635	12.6	1.26	23.4	<0.200	192	66.9
SS-71 @ 6' (40.302115 / -104.691862)	04/09/19	6	0.094	0.475	0.114	1.78	<0.200	29.7	<50.0
SS-72 @ 6' (40.302098 / -104.691828)	04/09/19	6	<0.050	0.594	0.110	2.23	<0.200	56.8	<0.50
SS-73 @ 6' (40.302116 / -104.691807)	04/09/19	6	<0.050	<0.050	<0.050	<0.050	<0.200	<5.00	<50.0
SS-74 @ 6' (40.302192 / -104.691891)	04/12/19	6	0.795	5.90	3.23	8.24	<0.200	146	52.3
SS-75 @ 6' (40.302200 / -104.691831)	04/12/19	6	0.585	4.62	2.94	7.08	<0.200	163	<50.0
SS-76 @ 6' (40.302257 / -104.691919)	04/17/19	6	17.9	145	10.4	182	0.388	3910	464
SS-77 @ 6' (40.302283 / -104.691886)	04/17/19	6	13.3	84.0	6.88	111	0.246	2340	155
SS-78 @ 6' (40.302260 / -104.691841)	04/17/19	6	2.68	26.0	2.10	42.4	<0.200	926	139
SS-79 @ 6' (40.302385 / -104.691994)	04/17/19	6	3.01	25.4	2.59	46.3	<0.200	847	189
SS-80 @ 6' (40.302400 / -104.692049)	04/17/19	6	1.99	9.17	0.958	13.4	<0.200	315	73.2

TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
EDWARD HEMPLE UNIT 1
HISTORICAL RELEASE
40.302039 / -104.692251
SW1/4 NW1/4 SEC.20 T4N R65W 6PM
WELD COUNTY, COLORADO
REMEDIATION # 12591

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenz ene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
COGCC Table 910-1 Regulatory Limits (mg/kg)			0.17	85	100	175	23	500	
SS-81 @ 6' (40.302399 / -104.692133)	04/17/19	6	1.08	6.56	0.718	10.9	<0.200	273	51.8
SS-82 @ 6' (40.302393 / -104.692221)	04/17/19	6	3.48	24.8	1.92	33.5	<0.200	687	56.5
SS-83 @ 6' (40.302388 / -104.692310)	04/17/19	6	0.150	1.04	0.141	2.51	<0.200	65.7	<50.0
SS-84 @ 6' (40.302363 / -104.692354)	04/17/19	6	0.163	0.586	0.088	0.983	<0.200	45.2	98.1
SS-85 @ 6' (40.302599 / -104.692107)	04/25/19	6	0.785	9.14	0.875	16.8	<0.200	280	<50.0
SS-86 @ 6' (40.302667 / -104.692135)	04/25/19	6	3.62	33.5	2.55	47.0	<2.00	689	188
SS-87 @ 6' (40.302734 / -104.692170)	04/25/19	6	0.056	5.37	0.454	33.8	<0.200	649	326
SS-88 @ 6' (40.302797 / -104.692198)	04/25/19	6	<0.050	<0.050	0.058	1.71	<0.200	59.7	109
SS-89 @ 6' (40.302858 / -104.692232)	04/25/19	6	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
SS-90 @ 6' (40.302923 / -104.692263)	04/25/19	6	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
SS-91 @ 6' (40.302977 / -104.692295)	04/25/19	6	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
SS-92 @ 6' (40.303062 / -104.692330)	05/08/19	6	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
SS-93 @ 6' (40.303088 / -104.692376)	05/08/19	6	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
SS-94 @ 6' (40.303074 / -104.692466)	05/15/19	6	<0.050	<0.050	<0.050	<0.050	<0.200	<5.00	<50.0
SS-95 @ 6' (40.303031 / -104.692466)	06/03/19	6	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
SS-96 @ 6' (40.302949 / -104.692490)	06/03/19	6	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
SS-97 @ 6' (40.302898 / -104.692493)	06/03/19	6	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
SS-98 @ 6' (40.302725 / -104.692483)	06/03/19	6	0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
SS-99 @ 6' (40.30265 / -104.692506)	06/03/19	6	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
SS-100 @ 6' (40.302513 / -104.692525)	06/03/19	6	0.026	0.046	0.002	0.032	0.008	0.218	<50.0
SS-101 @ 6' (40.302419 / -104.692551)	06/03/19	6	<0.002	<0.002	<0.002	<0.002	<0.008	0.668	<50.0
SS-102 @ 6' (40.302326 / -104.692570)	06/03/19	6	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
SS-103 @ 6' (40.302385 / -104.691915)	06/04/19	6	1.54	8.78	0.700	15.2	<0.200	351	120
SS-104 @ 6' (40.302319 / -104.691882)	06/04/19	6	3.33	20.9	1.18	29.2	<0.200	594	173
SS-105 @ 6' (40.302286 / -104.691907)	06/04/19	6	1.08	7.26	0.590	12.9	<0.200	278	115
SS-108 @ 6' (40.302348 / -104.691924)	06/05/19	6	1.59	24.0	2.70	63.7	0.214	1060	256
SS-109 @ 6' (40.302392 / -104.691954)	06/05/19	6	0.784	13.4	1.34	36.1	<0.200	755	167

TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
EDWARD HEMPLE UNIT 1
HISTORICAL RELEASE
40.302039 / -104.692251
SW1/4 NW1/4 SEC.20 T4N R65W 6PM
WELD COUNTY, COLORADO
REMEDIATION # 12591

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenz ene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
COGCC Table 910-1 Regulatory Limits (mg/kg)			0.17	85	100	175	23	500	
SS-114 @ 6' (40.302300 / -104.691931)	06/07/19	6	<0.050	<0.050	<0.050	<0.050	<0.200	<5.00	<50.0
SS-116 @ 6' (40.302464 / -104.691904)	06/07/19	6	<0.050	0.162	<0.050	<1.65	<0.200	13.9	62.2
SS-120 @ 6' (40.302688 / -104.692046)	06/07/19	6	<0.050	<0.050	<0.050	<0.050	<0.200	<5.00	<50.0
SS-121 @ 6' (40.302655 / -104.691998)	06/07/19	6	<0.050	<0.050	<0.050	<0.050	<0.200	<5.00	<50.0
SS-122 @ 6' (40.302598 / -104.691971)	06/07/19	6	<0.050	<0.050	<0.050	<0.050	<0.200	<5.00	<50.0
SS-123 @ 6' (40.302415 / -104.691839)	06/07/19	6	0.280	4.02	0.622	13.1	<0.200	193	<50.0
SS-124 @ 6' (40.302392 / -104.691788)	06/07/19	6	0.110	3.88	0.850	16.3	<0.200	285	129
SS-125 @ 6' (40.302340 / -104.691762)	06/07/19	6	<0.050	<0.050	<0.050	<0.050	<0.200	<5.00	<50.0
SS-126 @ 6' (40.302300 / -104.691787)	06/07/19	6	0.162	1.78	0.236	4.44	<0.200	55.8	<50.0
SS-129 @ 6' (40.302431 / -104.691803)	06/10/19	6	<0.050	<0.050	<0.050	<0.050	<0.200	<5.00	<50.0
SS-130 @ 6' (40.302483 / -104.691829)	06/10/19	6	<0.050	<0.050	<0.050	<0.050	<0.200	19.0	<50.0
SS-131 @ 6' (40.302525 / -104.691850)	06/10/19	6	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
SS-132 @ 6' 40.302619 / -104.691889)	06/10/19	6	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
SS-133 @ 6' (40.302701 / -104.691981)	06/10/19	6	<0.002	0.005	<0.002	<0.002	<0.008	<0.200	<50.0
PH-04 @ 5.5-6' (40.302195 / -104.692478)	01/17/19	5.5-6	0.300	0.908	0.206	2.93	<0.200	85.9	<50.0
PH-05 @ 5.5-6' (40.302164 / -104.692482)	01/17/19	5.5-6	<0.002	0.003	<0.002	0.005	<0.008	0.241	<50.0
PH-06 @ 5.5-6' (40.302274 / -104.692418)	01/17/19	5.5-6	0.630	3.96	0.622	9.56	<0.200	227	<50.0
PH-07 @ 5.5-6' (40.302276 / -104.692274)	01/17/19	5.5-6	1.34	8.06	0.680	12.8	<0.200	309	110
PH-08 @ 5.5-6' (40.302275 / -104.692118)	01/17/19	5.5-6	3.04	17.0	1.12	20.5	<0.200	508	<50.0
PH-10 @ 5.5-6' (40.302156 / -104.691967)	01/17/19	5.5-6	5.28	35.2	2.78	48.6	0.200	1200	233
PH-12 @ 5.5-6' (40.301985 / -104.692192)	01/17/19	5.5-6	0.003	0.033	0.003	0.063	<0.008	1.18	<50.0
PH-13 @ 5.5-6' (40.302254 / -104.692192)	01/17/19	5.5-6	<0.002	0.002	<0.002	<0.002	<0.008	<0.200	<50.0
PH-14 @ 5.5-6' (40.302254 / -104.692192)	01/17/19	5.5-6	0.416	1.12	0.449	4.04	<0.200	395	<50.0
PH-15 @ 6' (40.302332 / -104.692364)	03/25/19	6	3.89	21.2	1.48	24.6	0.436	586	<50.0
PH-16 @ 6' (40.302322 / -104.692268)	03/25/19	6	1.62	10.0	0.770	14.3	<0.200	253	<50.0
PH-17 @ 6' (40.302318 / -104.692229)	03/25/19	6	10.3	66.6	4.92	79.0	0.350	1560	174
PH-18 @ 6' (40.302320 / -104.692143)	03/25/19	6	1.93	15.3	1.25	23.1	<0.200	459	62.5
PH-19 @ 6' (40.302294 / -104.692268)	03/25/19	6	4.36	24.3	1.60	27.4	<0.200	586	<50.0

**TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
EDWARD HEMPLE UNIT 1
HISTORICAL RELEASE
40.302039 / -104.692251
SW1/4 NW1/4 SEC.20 T4N R65W 6PM
WELD COUNTY, COLORADO
REMIEDIATION # 12591**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenz ene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
COGCC Table 910-1 Regulatory Limits (mg/kg)			0.17	85	100	175	23	500	
PH-20 @ 6' (40.302285 / -104.692230)	03/25/19	6	2.10	12.6	0.900	16.3	<0.200	334	<50.0
PH-21 @ 6' (40.302075 / -104.692056)	04/08/19	6	0.490	7.59	0.727	13.5	<0.200	240	<50.0
PH-22 @ 6' (40.302034 / -104.692045)	04/08/19	6	<0.050	0.072	<0.050	0.142	<0.200	<5.00	<50.0
PH-23 @ 5' (40.302071 / -104.692017)	04/08/19	5	<0.050	0.917	0.269	5.46	<0.200	103	98.4
PH-24 @ 4' (40.302035 / -104.692017)	04/08/19	4	0.118	<0.050	<0.050	0.129	<0.200	13.1	<50.0
PH-25 @ 6' (40.302076 / -104.691954)	04/08/19	6	0.289	18.4	1.57	45.2	<0.200	931	119
PH-26 @ 6' (40.302339 / -104.692676)	04/22/19	6	<0.050	<0.050	0.054	0.450	<0.200	29.9	<50.0
PH-27 @ 6' (40.302506 / -104.692657)	04/22/19	6	<0.050	<0.050	<0.050	0.188	<0.200	40.2	<50.0
PH-28 @ 6' (40.302542 / -104.692427)	04/22/19	6	1.18	7.10	0.555	11.9	<4.00	219	<50.0
PH-29 @ 6' (40.302540 / -104.692185)	04/22/19	6	8.48	42.9	2.78	45.3	<0.200	894	<50.0
PH-30 @ 6' (40.302540 / -104.691985)	04/22/19	6	0.406	5.03	0.580	11.3	<0.200	150	<50.0
PH-31 @ 6' (40.302613 / -104.692180)	04/22/19	6	4.74	48.0	4.50	72.3	0.202	1230	253
PH-32 @ 6' (40.302361 / -104.692769)	04/22/19	6	<0.050	<0.050	0.129	1.97	<0.200	28.7	<50.0
PH-33 @ 6' (40.302667 / -104.692186)	04/23/19	6	2.02	11.5	1.26	21.1	<0.200	454	97.4
PH-34 @ 6' (40.302756 / -104.692191)	04/23/19	6	0.344	1.66	0.336	7.32	<0.200	193	<50.0
PH-35 @ 6' (40.302888 / -104.692277)	04/23/19	6	<0.050	<0.050	0.112	0.233	<0.200	7.65	<50.0
PH-36 @ 6' 40.302891 / -104.692151)	04/23/19	6	<0.050	<0.050	<0.050	<0.050	<0.200	<5.00	<50.0
PH-37 @ 6' (40.302459 / -104.691843)	05/07/19	6	<0.050	0.702	<0.050	8.50	<0.200	181	<50.0
PH-38 @ 6' (40.302667 / -104.691846)	05/07/19	6	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
PH-39 @ 6' (40.302901 / -104.691862)	05/07/19	6	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
PH-40 @ 6' (40.302459 / -104.691727)	05/07/19	6	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
PH-41 @ 6' (40.301872 / -104.692120)	05/07/19	6	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
PH-42 @ 3' (40.302206 / -104.692773)	05/07/19	3	<0.002	<0.002	<0.002	0.019	<0.008	1.98	<50.0
PH-42 @ 6' (40.302206 / -104.692773)	05/07/19	6	0.005	<0.002	0.013	0.117	<0.008	2.46	<50.0
PH-43 @ 6' (40.302041 / -104.691810)	06/11/19	6	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
PH-44 @ 6' (40.301940 / -104.691764)	06/11/19	6	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
PH-45 @ 6' (40.301901 / -104.691861)	06/11/19	6	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0

**TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
EDWARD HEMPLE UNIT 1
HISTORICAL RELEASE
40.302039 / -104.692251
SW1/4 NW1/4 SEC.20 T4N R65W 6PM
WELD COUNTY, COLORADO
REMEDIATION # 12591**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenz ene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
COGCC Table 910-1 Regulatory Limits (mg/kg)			0.17	85	100	175	23	500	
PH-46 @ 6' (40.301906 / -104.691999)	06/11/19	6	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
PH-47 @ 6' (40.302268 / -104.692698)	06/11/19	6	<0.050	<0.050	<0.050	<0.050	<0.200	32.5	<50.0
MW-01 @ 3-4' (40.302230 / -104.691816)	07/18/19	3-4	<0.002	<0.498	0.106	5.16	0.017	19.6	56.6
MW-02 @ 3-4' (40.302117 / -104.691797)	07/18/19	3-4	<0.002	<0.002	<0.002	0.004	<0.008	<0.200	<50.0
MW-06 @ 3-4' (40.301980 / -104.692122)	07/19/19	3-4	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
MW-07 @ 3-4' (40.302032 / -104.692301)	07/18/19	3-4	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
MW-09 @ 3-4' (40.302210 / -104.692475)	07/18/19	3-4	0.062	0.090	0.026	0.305	<0.008	2.55	<50.0
MW-11 @ 3-4' (40.302328 / -104.692572)	07/18/19	3-4	<0.002	<0.002	<0.002	<0.002	<0.008	0.786	<50.0
MW-15 @ 3-4' (40.302892 / -104.692434)	07/18/19	3-4	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
MW-16 @ 3-4' (40.302907 / -104.692197)	07/18/19	3-4	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
MW-17 @ 3-4' (40.302663 / -104.692010)	07/18/19	3-4	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
MW-21 @ 3-4' (40.302297 / -104.691993)	07/19/19	3-4	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
MW-22 @ 3-4' (40.302372 / -104.691781)	07/18/19	3-4	<0.050	<0.050	<0.050	0.748	<0.200	16.3	<50.0
MW-23 @ 2.5-5' (40.302197 / -104.692714)	08/30/19	2.5-5	0.072	<0.050	0.455	<0.050	<0.200	146	71.8
MW-24 @ 5-7.5' (40.302523 / -104.692634)	08/30/19	5-7.5	<0.050	<0.050	<0.050	<0.050	<0.200	40.1	<50.0
MW-25 @ 5-7.5' (40.302691 / -104.692665)	08/30/19	5-7.5	0.684	2.02	0.144	2.48	<0.200	64.0	<50.0
MW-26 @ 5-7.5' (40.302764 / -104.692514)	08/30/19	5-7.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
MW-27 @ 5-7.5' (40.303029 / -104.692245)	08/30/19	5-7.5	<0.050	<0.050	<0.050	0.209	0.289	<5.00	<50.0
MW-28 @ 10-12.5' (40.302977 / -104.692061)	08/30/19	10-12.5	<0.002	0.004	<0.002	0.022	<0.008	0.752	<50.0
MW-29 @ 2.5-5' (40.302601 / -104.691750)	08/30/19	2.5-5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
MW-30 @ 0-2.5' (40.302505 / -104.691721)	08/30/19	0-2.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
MW-31 @ 0-2.5' (40.302389 / -104.691657)	08/30/19	0-2.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
MW-32 @ 5-7.5' (40.202238 / -104.691662)	08/30/19	5-7.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
MW-33 @ 7.5-10' (40.301888 / -104.692032)	08/30/19	7.5-10	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
MW-34 @ 2.5-5' (40.301907 / -104.692205)	08/30/19	2.5-5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
MW-35 @ 0-2.5' (40.302054 / -104.692462)	08/30/19	0-2.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
MW-36 @ 2.5-5' (40.302110 / -104.692780)	12/09/19	2.5-5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
MW-37 @ 2.5-5' (40.302188 / -104.692834)	12/09/19	2.5-5	<0.050	<0.050	<0.050	<0.050	<0.200	8.72	<50.0

TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
EDWARD HEMPLE UNIT 1
HISTORICAL RELEASE
40.302039 / -104.692251
SW1/4 NW1/4 SEC.20 T4N R65W 6PM
WELD COUNTY, COLORADO
REMEDIATION # 12591

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenz ene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
COGCC Table 910-1 Regulatory Limits (mg/kg)			0.17	85	100	175	23	500	
MW-38 @ 2.5-5' (40.302326 / -104.692699)	12/09/19	2.5-5	<0.050	<0.050	0.056	<0.050	<0.200	43.5	<50.0
MW-39 @ 2.5-5' (40.302410 / -104.692676)	12/09/19	2.5-5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0
MW-40 @ 2.5-5' (40.302641 / -104.692774)	12/09/19	2.5-5	<0.050	<0.050	<0.050	<0.050	<0.200	<5.00	<50.0
MW-41 @ 2.5-5' (40.302744 / -104.692789)	12/09/19	2.5-5	<0.050	<0.050	<0.050	<0.050	<0.200	<5.00	<50.0
MW-42 @ 2.5-5' (40.302846 / -104.692092)	12/09/19	2.5-5	<0.050	<0.050	<0.050	<0.050	<0.200	<5.00	<50.0

**Data collected by AECOM and given to Eagle Environmental Consulting, Inc. (EAGLE). EAGLE retained as environmental consultant as of 12/19/18.

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 the laboratory reporting limit.

Values presented in **bold** typeface exceed COGCC Table 910-1 regulatory limits for that compound.

TABLE 2
GROUNDWATER ANALYTICAL RESULTS SUMMARY
EDWARD HEMPLE UNIT 1
HISTORICAL RELEASE
40.302039 / -104.692251
SW1/4 NW1/4 SEC.20 T4N R65W 6PM
WELD COUNTY, COLORADO
REMEDATION # 12591

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 (40.302031 / -104.692199)	12/19/18	277	765	66.3	907
MW-01 (40.302230 / -104.691816)	07/25/19	<1.00	<1.00	<1.00	<1.00
	11/06/19	<1.00	<1.00	<1.00	<1.00
MW-02 (40.302117 / -104.691797)	07/25/19	1200	3610	78.7	2260
	11/06/19	460	282	<50.0	328
MW-03 (40.302190 / -104.691955)	07/25/19	398	<4.00	<4.00	<4.00
	11/06/19	8.72	<4.00	<4.00	<4.00
MW-04 (40.302185 / -104.692112)	07/25/19	3840	<1.00	1.13	6.51
	11/06/19	39.0	<1.00	<1.00	1.83
MW-05 (40.302101 / -104.692203)	07/25/19	9.19	<1.00	<1.00	2.44
	11/06/19	<1.00	<1.00	<1.00	<1.00
MW-06 (40.301980 / -104.692122)	07/25/19	3250	8900	454	8010
	11/06/19	2110	7660	315	4420
MW-07 (40.302032 / -104.692301)	07/25/19	<1.00	2.28	38.9	278
	11/06/19	<1.00	<1.00	6.35	13.9
MW-08 (40.302119 / -104.692369)	07/25/19	411	<1.00	<1.00	4190
	11/06/19	242	<20.0	164	3070
MW-09 (40.302210 / -104.692475)	07/25/19	19800	22900	903	15700
	11/06/19	13300	8520	516	7540
MW-10 (40.302289 / -104.692234)	07/25/19	<1.00	<1.00	<1.00	<1.00
	11/06/19	23.0	<1.00	4.41	<1.00
MW-11 (40.302328 / -104.692572)	07/25/19	1.84	<1.00	<1.00	<1.00
	11/06/19	6.37	<1.00	<1.00	<1.00
MW-12 (40.302498 / -104.692436)	07/25/19	<1.00	<1.00	<1.00	<1.00
	11/06/19	<1.00	<1.00	<1.00	<1.00
MW-13 (40.302621 / -104.692524)	07/25/19	94.5	<1.00	<1.00	<1.00
	11/06/19	<1.00	<1.00	<1.00	<1.00
MW-14 (40.302809 / -104.692356)	07/25/19	2430	<1.00	12.5	44.4
	11/06/19	311	<50.0	<50.0	<50.0
MW-15 (40.302892 / -104.692434)	07/25/19	<1.00	<1.00	<1.00	<1.00
	11/06/19	2.69	<1.00	<1.00	<1.00
MW-16 (40.302907 / -104.692197)	07/25/19	32.0	701	45.4	1750
	11/06/19	<4.00	37.4	209	4060

TABLE 2
GROUNDWATER ANALYTICAL RESULTS SUMMARY
EDWARD HEMPLE UNIT 1
HISTORICAL RELEASE
40.302039 / -104.692251
SW1/4 NW1/4 SEC.20 T4N R65W 6PM
WELD COUNTY, COLORADO
REMEDATION # 12591

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-17 (40.302663 / -104.692010)	07/25/19	<1.00	<1.00	<1.00	<1.00
	11/06/19	1.16	<1.00	<1.00	<1.00
MW-18 (40.302576 / -104.692044)	07/25/19	<1.00	<1.00	<1.00	<1.00
	11/06/19	3.80	<1.00	<1.00	<1.00
MW-19 (40.302492 / -104.692130)	07/25/19	26.2	<1.00	<1.00	<1.00
	11/06/19	<1.00	<1.00	<1.00	<1.00
MW-20 (40.302489 / -104.691943)	07/25/19	372	5.29	8.08	118
	11/06/19	<4.00	<4.00	<4.00	<4.00
MW-21 (40.302297 / -104.691993)	07/25/19	17.7	1.28	<1.00	<1.00
	11/06/19	1.44	<1.00	<1.00	<1.00
MW-22 (40.302372 / -104.691781)	07/25/19	7.33	55.1	3.15	122
	11/06/19	<1.00	1.39	<1.00	10.2
MW-23 (40.302197 / -104.692714)	09/09/19	117	<1.00	98.6	26.4
	11/06/19	151	<1.00	30.2	<1.00
MW-24 (40.302523 / -104.692634)	09/09/19	<1.00	<1.00	29.6	135
	11/06/19	<1.00	<1.00	6.72	22.1
MW-25 (40.302691 / -104.692665)	09/09/19	3630	7000	218	3450
	11/06/19	2510	421	171	776
MW-26 (40.302764 / -104.692514)	09/09/19	32.8	<1.00	<1.00	<1.00
	11/06/19	1.19	<1.00	<1.00	<1.00
MW-27 (40.303029 / -104.692245)	09/09/19	25.8	2.85	<1.00	372
	11/06/19	4.15	<1.00	<1.00	10.5
MW-28 (40.302977 / -104.692061)	09/09/19	<1.00	<1.00	<1.00	<1.00
	11/06/19	<1.00	<1.00	<1.00	<1.00
MW-29 (40.302601 / -104.691750)	09/09/19	<1.00	<1.00	<1.00	<1.00
	11/06/19	<1.00	<1.00	<1.00	<1.00
MW-30 (40.302505 / -104.691721)	09/09/19	<1.00	<1.00	<1.00	<1.00
	11/06/19	<1.00	<1.00	<1.00	<1.00
MW-31 (40.302389 / -104.691657)	09/09/19	<1.00	<1.00	<1.00	<1.00
	11/06/19	<1.00	<1.00	<1.00	<1.00
MW-32 (40.202238 / -104.691662)	09/09/19	<1.00	<1.00	<1.00	<1.00
	11/06/19	<1.00	<1.00	<1.00	<1.00
MW-33 (40.301888 / -104.692032)	09/09/19	<1.00	<1.00	<1.00	<1.00
	11/06/19	<1.00	<1.00	<1.00	<1.00

TABLE 2
GROUNDWATER ANALYTICAL RESULTS SUMMARY
EDWARD HEMPLE UNIT 1
HISTORICAL RELEASE
40.302039 / -104.692251
SW1/4 NW1/4 SEC.20 T4N R65W 6PM
WELD COUNTY, COLORADO
REMEDATION # 12591

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-34 (40.301907 / -104.692205)	09/09/19	<1.00	<1.00	<1.00	<1.00
	11/06/19	<1.00	<1.00	<1.00	<1.00
MW-35 (40.302054 / -104.692462)	09/09/19	<1.00	<1.00	<1.00	<1.00
	11/06/19	<1.00	<1.00	<1.00	<1.00
MW-36 (40.302110 / -104.692780)	12/12/19	<1.00	<1.00	<1.00	<1.00
MW-37 (40.302188 / -104.692834)	12/12/19	<1.00	<1.00	<1.00	<1.00
MW-38 (40.302326 / -104.692699)	12/12/19	<1.00	<1.00	3.40	6.97
MW-39 (40.302410 / -104.692676)	12/12/19	<1.00	<1.00	<1.00	<1.00
MW-40 (40.302641 / -104.692774)	12/12/19	1140	3000	288	4870
MW-41 (40.302744 / -104.692789)	12/12/19	446	183	<1.00	1430
MW-42 (40.302846 / -104.692092)	12/12/19	<1.00	<1.00	<1.00	<1.00
COGCC = Colorado Oil and Gas Conservation Commission 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 presented in bold typeface exceed their respective COGCC - Regulatory Limits (Table 910-1).					

**TABLE 3
GROUNDWATER ELEVATION SUMMARY
EDWARD HEMPLE UNIT 1
HISTORICAL RELEASE
40.302039 / -104.692251
SW1/4 NW1/4 SEC.20 T4N R65W 6PM
WELD COUNTY, COLORADO
REMEDATION # 12591**

Sample Location (Latitude/Longitude)	Date	TOC Elevation (feet)	Depth to Groundwater from TOC (feet)	Relative Groundwater Elevation (feet)	Depth to Groundwater (bgs) (feet)	Stickup Height (feet)
MW-01 (40.302230 / -104.691816)	09/09/19	100.00	7.25	92.75	4.70	2.55
	11/06/19		7.05	92.95	4.50	
	01/15/20		7.73	92.27	5.18	
MW-02 (40.302117 / -104.691797)	09/09/19	99.97	7.61	92.36	5.03	2.58
	11/06/19		7.41	92.56	4.83	
	01/15/20		8.12	91.85	5.54	
MW-03 (40.302190 / -104.691955)	09/09/19	97.40	3.34	94.06	3.34	NA
	11/06/19		4.15	93.25	4.15	
	01/15/20		4.82	92.58	4.82	
MW-04 (40.302185 / -104.692112)	09/09/19	96.83	4.00	92.83	4.00	NA
	11/06/19		3.68	93.15	3.68	
	01/15/20		4.51	92.32	4.51	
MW-05 (40.302101 / -104.692203)	09/09/19	97.12	3.93	93.19	3.93	NA
	11/06/19		3.86	93.26	3.86	
	01/15/20		4.46	92.66	4.46	
MW-06 (40.301980 / -104.692122)	09/09/19	97.74	3.59	94.15	3.59	NA
	11/06/19		3.49	94.25	3.49	
	01/15/20		4.07	93.67	4.07	
MW-07 (40.302032 / -104.692301)	09/09/19	99.65	7.14	92.51	4.24	2.90
	11/06/19		6.98	92.67	4.08	
	01/15/20		7.60	92.05	4.70	
MW-08 (40.302119 / -104.692369)	09/09/19	96.54	3.71	92.83	3.71	NA
	11/06/19		3.65	92.89	3.65	
	01/15/20		4.23	92.31	4.23	
MW-09 (40.302210 / -104.692475)	09/09/19	95.92	3.88	92.04	3.88	NA
	11/06/19		3.81	92.11	3.81	
	01/15/20		4.41	91.51	4.41	
MW-10 (40.302289 / -104.692234)	09/09/19	95.85	3.74	92.11	3.74	NA
	11/06/19		3.63	92.22	3.63	
	01/15/20		4.33	91.52	4.33	
MW-11 (40.302328 / -104.692572)	09/09/19	97.70	6.78	90.92	3.75	3.03
	11/06/19		6.83	90.87	3.80	
	01/15/20		7.41	90.29	4.38	



**TABLE 3
GROUNDWATER ELEVATION SUMMARY
EDWARD HEMPLE UNIT 1
HISTORICAL RELEASE
40.302039 / -104.692251
SW1/4 NW1/4 SEC.20 T4N R65W 6PM
WELD COUNTY, COLORADO
REMEDATION # 12591**

Sample Location (Latitude/Longitude)	Date	TOC Elevation (feet)	Depth to Groundwater from TOC (feet)	Relative Groundwater Elevation (feet)	Depth to Groundwater (bgs) (feet)	Stickup Height (feet)
MW-12 (40.302498 / -104.692436)	09/09/19	98.02	7.78	90.24	4.48	3.30
	11/06/19		7.79	90.23	4.49	
	01/15/20		8.39	89.63	5.09	
MW-13 (40.302621 / -104.692524)	09/09/19	96.85	7.42	89.43	4.53	2.89
	11/06/19		7.59	89.26	4.70	
	01/15/20		8.25	88.60	5.36	
MW-14 (40.302809 / -104.692356)	09/09/19	96.67	7.17	89.50	4.31	2.86
	11/06/19		7.34	89.33	4.48	
	01/15/20		8.03	88.64	5.17	
MW-15 (40.302892 / -104.692434)	09/09/19	95.87	6.84	89.03	4.29	2.55
	11/06/19		7.11	88.76	4.56	
	01/15/20		7.81	88.06	5.26	
MW-16 (40.302907 / -104.692197)	09/09/19	96.53	7.17	89.36	4.74	2.43
	11/06/19		7.31	89.22	4.88	
	01/15/20		8.09	88.44	5.66	
MW-17 (40.302663 / -104.692010)	09/09/19	98.10	7.27	90.83	4.54	2.73
	11/06/19		7.14	90.96	4.41	
	01/15/20		7.93	90.17	5.20	
MW-18 (40.302576 / -104.692044)	09/09/19	98.18	7.16	91.02	4.46	2.70
	11/06/19		7.00	91.18	4.30	
	01/15/20		7.71	90.47	5.01	
MW-19 (40.302492 / -104.692130)	09/09/19	98.59	7.93	90.66	4.95	2.98
	11/06/19		7.81	90.78	4.83	
	01/15/20		8.48	90.11	5.50	
MW-20 (40.302489 / -104.691943)	09/09/19	98.87	7.44	91.43	4.59	2.85
	11/06/19		7.27	91.60	4.42	
	01/15/20		7.97	90.90	5.12	
MW-21 (40.302297 / -104.691993)	09/09/19	96.38	4.01	92.37	4.01	NA
	11/06/19		3.88	92.50	3.88	
	01/15/20		4.54	91.84	4.54	
MW-22 (40.302372 / -104.691781)	09/09/19	99.58	7.28	92.30	4.89	2.39
	11/06/19		7.25	92.33	4.86	
	01/15/20		7.76	91.82	5.37	



**TABLE 3
GROUNDWATER ELEVATION SUMMARY
EDWARD HEMPLE UNIT 1
HISTORICAL RELEASE
40.302039 / -104.692251
SW1/4 NW1/4 SEC.20 T4N R65W 6PM
WELD COUNTY, COLORADO
REMEDATION # 12591**

Sample Location (Latitude/Longitude)	Date	TOC Elevation (feet)	Depth to Groundwater from TOC (feet)	Relative Groundwater Elevation (feet)	Depth to Groundwater (bgs) (feet)	Stickup Height (feet)
MW-23 (40.302197 / -104.692714)	09/09/19	98.79	7.06	91.73	4.12	2.94
	11/06/19		7.44	91.35	4.50	
	01/15/20		7.90	90.89	4.96	
MW-24 (40.302523 / -104.692634)	09/09/19	97.06	7.52	89.54	4.46	3.06
	11/06/19		7.81	89.25	4.75	
	01/15/20		8.40	88.66	5.34	
MW-25 (40.302691 / -104.692665)	09/09/19	96.41	7.35	89.06	4.59	2.76
	11/06/19		7.71	88.70	4.95	
	01/15/20		8.34	88.07	5.58	
MW-26 (40.302764 / -104.692514)	09/09/19	96.29	6.68	89.61	3.76	2.92
	11/06/19		7.24	89.05	4.32	
	01/15/20		7.93	88.36	5.01	
MW-27 (40.303029 / -104.692245)	09/09/19	96.17	6.56	89.61	3.79	2.77
	11/06/19		7.66	88.51	4.89	
	01/15/20		8.45	87.72	5.68	
MW-28 (40.302977 / -104.692061)	09/09/19	97.14	7.09	90.05	4.05	3.04
	11/06/19		7.94	89.20	4.90	
	01/15/20		8.77	88.37	5.73	
MW-29 (40.302601 / -104.691750)	09/09/19	99.50	7.15	92.35	4.21	2.94
	11/06/19		8.16	91.34	5.22	
	01/15/20		8.84	90.66	5.90	
MW-30 (40.302505 / -104.691721)	09/09/19	99.49	6.61	92.88	3.96	2.65
	11/06/19		7.42	92.07	4.77	
	01/15/20		8.26	91.23	5.61	
MW-31 (40.302389 / -104.691657)	09/09/19	97.99	4.27	93.72	4.27	NA
	11/06/19		5.16	92.83	5.16	
	01/15/20		5.94	92.05	5.94	
MW-32 (40.202238 / -104.691662)	09/09/19	97.96	4.22	93.74	4.22	NA
	11/06/19		5.15	92.81	5.15	
	01/15/20		5.89	92.07	5.89	
MW-33 (40.301888 / -104.692032)	09/09/19	98.50	2.88	95.62	2.88	NA
	11/06/19		3.56	94.94	3.56	
	01/15/20		4.12	94.38	4.12	



**TABLE 3
GROUNDWATER ELEVATION SUMMARY
EDWARD HEMPLE UNIT 1
HISTORICAL RELEASE
40.302039 / -104.692251
SW1/4 NW1/4 SEC.20 T4N R65W 6PM
WELD COUNTY, COLORADO
REMEDIAION # 12591**

Sample Location (Latitude/Longitude)	Date	TOC Elevation (feet)	Depth to Groundwater from TOC (feet)	Relative Groundwater Elevation (feet)	Depth to Groundwater (bgs) (feet)	Stickup Height (feet)
MW-34 (40.301907 / -104.692205)	09/09/19	98.52	3.46	95.06	3.46	NA
	11/06/19		3.95	94.57	3.95	
	01/15/20		4.47	94.05	4.95	
MW-35 (40.302054 / -104.692462)	09/09/19	98.75	3.51	95.24	3.51	NA
	11/06/19		3.82	94.93	3.82	
	01/15/20		4.38	94.37	4.38	
MW-36 (40.302110 / -104.692780)	12/12/19	95.26	3.84	91.42	3.84	NA
	01/15/20		4.21	91.05	4.21	
MW-37 (40.302188 / -104.692834)	12/12/19	95.39	4.44	90.95	4.44	NA
	01/15/20		4.82	90.57	4.82	
MW-38 (40.302326 / -104.692699)	12/12/19	97.95	10.36	87.59	7.06	3.30
	01/15/20		8.08	89.87	4.78	
MW-39 (40.302410 / -104.692676)	12/12/19	97.11	11.34	85.77	8.59	2.75
	01/15/20		7.81	89.30	5.06	
MW-40 (40.302641 / -104.692774)	12/12/19	96.38	8.22	88.16	5.59	2.63
	01/15/20		8.54	87.84	5.91	
MW-41 (40.302744 / -104.692789)	12/12/19	96.42	8.59	87.83	5.52	3.07
	01/15/20		8.90	87.52	5.83	
MW-42 (40.302846 / -104.692092)	12/12/19	97.24	7.89	89.35	5.14	2.75
	01/15/20		8.28	88.96	5.53	
NOTES: bgs - below ground surface	TOC - top of casing NA - Not Applicable		DES - destroyed			



ATTACHMENT A

Soil Boring Logs / Well Completion Diagrams

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	(0-7') silty SAND - brown, moderately moist, medium dense, fine grained, poorly graded with 15% silt @ 3-7.5 - HC odor, N/S	SM	DP	1	50	1.7	N/A		@ 4.5' Wet	
5	(7-10') silty CLAY - light brown, wet, medium stiff to stiff, medium to high plasticity, poorly graded with 15% silt					1959				
10	(10-12') sandy CLAY - light brown, wet, soft to medium stiff, low plasticity, moderately graded with 30% fine grained sand, N/O, N/S	CL	DP	2	75	622	N/A			
						34.7				
		CL	DP	3	100	5.4	N/A			
12	BoB @ 12'									

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: 07/18/2019		SAND PACK INTERVAL (FEET): 12-1	
PROJECT: EDWARD HEMPLE UNIT #1		BENTONITE/GROUT INTERVAL (FEET): 1-0	
LOGGED BY: C. LaFONTE		WELL SCREEN INTERVAL (FEET): 12-2	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC. 8000 W 44th Avenue, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000 - PID #11			
TIME STARTED/COMPLETED: 0945 / 1015			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 3-4' / 0950			

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	(0-7') silty SAND - brown, moderately moist to wet, medium dense, fine grained, poorly graded with 15% silt, N/O, N/S	SM	DP	1	50	0.0	N/A		@ 4.5' Wet	
5	(7-10') silty CLAY - light brown, wet, medium stiff to stiff, medium to high plasticity, poorly graded with 15% silt, N/O, N/S					0.0				
10	(10-12') sandy CLAY - light brown, wet, soft to medium stiff, low plasticity, moderately graded with 25% fine grained sand, N/O, N/S	CL	DP	2	75	0.0	N/A			
12	BoB @ 12'	CL	DP	3	100	0.0	N/A			

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: 07/18/2019		SAND PACK INTERVAL (FEET): 12-1	
PROJECT: EDWARD HEMPLE UNIT #1		BENTONITE/GROUT INTERVAL (FEET): 1-0	
LOGGED BY: C. LaFONTE		WELL SCREEN INTERVAL (FEET): 12-2	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC. 8000 W 44th Avenue, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000 - PID #11			
TIME STARTED/COMPLETED: 0915 / 0945			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 3-4' / 0930			

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	(0-7') BACKFILL - @ 6.5-7' black carbon staining, N/O	FL	DP	1	100	0.0	N/A	5		@ 4.5' Wet
5	(7-9') silty CLAY - light brown, wet, medium stiff, medium to high plasticity, poorly graded with 20% silt, N/O, N/S					4.8				
10	(9-12') sandy CLAY - light brown, wet, soft to medium stiff, low plasticity, moderately graded with 25% fine grained sand, N/O, N/S	CL	DP	2	70	5.2	N/A	10		-Backfill, phreatic soil samples not submitted for lab analysis
					4.0					
		CL	DP	3	90	0.0	N/A			
12	BoB @ 12'									

START/COMPLETION DATE: 07/18/2019	SAND PACK INTERVAL (FEET): 12-1
PROJECT: EDWARD HEMPLE UNIT #1	BENTONITE/GROUT INTERVAL (FEET): 1-0
LOGGED BY: C. LaFONTE	WELL SCREEN INTERVAL (FEET): 12-2
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): 1
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12
PID INSTRUMENT: MiniRAE 3000 - PID #11	
TIME STARTED/COMPLETED: 1203 / 1225	
SAMPLE COLLECTION DEPTH (FEET)/TIME: N/A	



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

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	(0-7') BACKFILL - @6.5-7' black carbon staining, N/O	FL	DP	1	100	0.0	N/A	5		@ 4.5' Wet
5	(7-10') silty CLAY - light brown, wet, medium stiff, medium to high plasticity, poorly graded with 20% silt, N/O, N/S					CL				
10	(10-12') sandy CLAY - light brown, wet, soft to mod. stiff, low plasticity, mod. graded, with 30% fine grained sand, N/O, N/S	CL	DP	3	80	4.4	N/A	10	-Backfill, phreatic soil samples not submitted for lab analysis	
12	BoB @ 12'					0.3	N/A	12		

START/COMPLETION DATE: 07/18/2019	SAND PACK INTERVAL (FEET): 12-1
PROJECT: EDWARD HEMPLE UNIT #1	BENTONITE/GROUT INTERVAL (FEET): 1-0.5
LOGGED BY: C. LaFONTE	WELL SCREEN INTERVAL (FEET): 12-2
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): 1
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12
PID INSTRUMENT: MiniRAE 3000 - PID #11	
TIME STARTED/COMPLETED: 1125 / 1140	
SAMPLE COLLECTION DEPTH (FEET)/TIME: N/A	



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

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') BACKFILL - @6.5-7' black carbon staining, N/O	FL	DP	1	100	0.0	N/A	-		@ 4.5' Wet
5	(7-9') silty SAND - light brown, wet, medium dense, fine to medium grained, moderately graded with 40% silt, slight HC odor, gray staining					0.0				
5	(9-10') silty CLAY - brown, wet, stiff, medium plasticity, poorly graded with 20% silt, N/O, N/S	SM	DP	2	70	73.0	N/A	5		-Backfill, phreatic soil samples not submitted for lab analysis
10	(10-12') sandy CLAY - light brown, wet, soft to medium stiff, low plasticity, moderately graded with 25% fine grained sand, N/O, N/S	CL				0.5		10		
10		CL	DP	3	90	0.0	N/A	10		
12	BoB @ 12'									

START/COMPLETION DATE: 07/18/2019	SAND PACK INTERVAL (FEET): 12-1
PROJECT: EDWARD HEMPLE UNIT #1	BENTONITE/GROUT INTERVAL (FEET): 1-0
LOGGED BY: C. LaFONTE	WELL SCREEN INTERVAL (FEET): 12-2
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): 1
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12
PID INSTRUMENT: MiniRAE 3000 - PID #11	
TIME STARTED/COMPLETED: 1107 / 1122	
SAMPLE COLLECTION DEPTH (FEET)/TIME: N/A	



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

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	(0-1') ROAD BASE								@ 4.5' Wet		
1-6.5	(1-6.5') silty SAND - brown, moderately moist, medium dense, fine grained, moderately graded with 20% silt	SM	DP	1	100	0.0	N/A				
3-7	@ 3-7' - slight HC odor, gray staining					0.0					
6.5-9	(6.5-9') silty CLAY - light brown, wet, medium stiff to stiff, medium to high plasticity, poorly graded with 20% silt	CL	DP	2	70	84.7	N/A				
9-12	(9-12') sandy CLAY - light brown, wet, soft, low plasticity, moderately graded with 30% fine grained sand, N/O, N/S	CL	DP	3	90	0.0					
12	BoB @ 12'										

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: 07/19/2019		SAND PACK INTERVAL (FEET): 12-1	
PROJECT: EDWARD HEMPLE UNIT #1		BENTONITE/GROUT INTERVAL (FEET): 1-0.5	
LOGGED BY: C. LaFONTE		WELL SCREEN INTERVAL (FEET): 12-2	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC.</p> 8000 W 44th Avenue, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449	
PID INSTRUMENT: MiniRAE 3000 - PID #11			
TIME STARTED/COMPLETED: 0800 / 0815			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 3-4' / 0805			

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	(0-1') ROAD BASE					0.0	N/A		@ 4.5' Wet	
1-7	(1-7') silty SAND - brown, moderately moist, medium dense, fine to medium grained, moderately graded with 25% silt	SM	DP	1	30	0.0	N/A			
3-8	@-3-8 - slight HC odor, gray staining					0.0				
7-10	(7-10') silty CLAY - light brown, wet, medium stiff to stiff, medium to high plasticity, poorly graded with 20% silt	CL	DP	2	90	307	N/A			
10-12	(10-12') sandy CLAY - light brown, wet, soft, low plasticity, moderately graded with 25% fine grained sand, N/O, N/S	CL	DP	3	100	1.8	N/A			
12	BoB @ 12'									

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: 07/18/2019		SAND PACK INTERVAL (FEET): 12-1	
PROJECT: EDWARD HEMPLE UNIT #1		BENTONITE/GROUT INTERVAL (FEET): 1-0	
LOGGED BY: C. LaFONTE		WELL SCREEN INTERVAL (FEET): 12-2	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC.</p> 8000 W 44th Avenue, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449	
PID INSTRUMENT: MiniRAE 3000 - PID #11			
TIME STARTED/COMPLETED: 1015 / 1035			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 3-4' / 1030			

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	(0-7') BACKFILL	FL	DP	1	100	0.2	N/A		@ 4.5' Wet -Backfill, phreatic soil samples not submitted for lab analysis	
5	@6.5-7 - HC odor, N/S					0.0				
7-9	(7-9') silty SAND - brown, wet, medium dense, fine to medium grained, moderately graded with 40% silt	CL	DP	2	70	521.7	N/A			
9-12	(9-12') silty CLAY - brown, wet, stiff, medium to high plasticity, poorly graded with 15% silt, N/O, N/S					4.0				
10		CL	DP	3	85	0.0	N/A			
12	BoB @ 12'									

START/COMPLETION DATE: 07/18/2019	SAND PACK INTERVAL (FEET): 12-1
PROJECT: EDWARD HEMPLE UNIT #1	BENTONITE/GROUT INTERVAL (FEET): 1-0.5
LOGGED BY: C. LaFONTE	WELL SCREEN INTERVAL (FEET): 12-2
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): 1
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12
PID INSTRUMENT: MiniRAE 3000 - PID #11	
TIME STARTED/COMPLETED: 1245 / 1300	
SAMPLE COLLECTION DEPTH (FEET)/TIME: N/A	



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

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	(0-1') ROAD BASE								@ 4.5' Wet - Soil sample collected with hand auger	
1-7'	(1-7') silty SAND - brown, moderately moist, medium dense, fine grained, moderately graded with 20% silt	SM	PH	1	40	0.0	N/A			
3-8'	@3-8 - slight HC odor, gray staining					167.2				
7-10'	(7-10') silty CLAY - light brown, wet, medium stiff to stiff, medium to high plasticity, poorly graded with 15% silt	CL	DP	2	85	480.2	N/A			
						60.6				
10-12'	(10-12') sandy CLAY - light brown, wet, soft, low plasticity, moderately graded with 30% fine grained sand, N/O, N/S	CL	DP	3	95	12.5	N/A			
BoB @ 12'										

START/COMPLETION DATE: 07/18/2019		SAND PACK INTERVAL (FEET): 12-1	
PROJECT: EDWARD HEMPLE UNIT #1		BENTONITE/GROUT INTERVAL (FEET): 1-0	
LOGGED BY: C. LaFONTE		WELL SCREEN INTERVAL (FEET): 12-2	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC.</p> 8000 W 44th Avenue, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449	
PID INSTRUMENT: MiniRAE 3000 - PID #11			
TIME STARTED/COMPLETED: 1305 / 1320			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 3-4' / 0750			

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

Boring Log/Well Completion Diagram: MW-10

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') BACKFILL	FL	DP	1	100	0.0	N/A		@ 4.5' Wet -Backfill, phreatic soil samples not submitted for lab analysis	
5	(7-10') silty SAND - brown, wet, medium dense, fine grained, well graded with 20% silt, N/O, N/S					0.0				
10	(10-11.5') silty CLAY - brown, wet, stiff, medium to high plasticity, poorly graded with 20% silt, N/O, N/S	SM	DP	2	75	1.7	N/A			
10	(11.5-12') sandy CLAY - light brown, wet, soft to medium stiff, low plasticity, moderately graded with 20% fine grained sand, N/O, N/S					0.0				
12	BoB @ 12'	CL	DP	3	95	0.0	N/A			
15		CL								
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: 07/18/2019	SAND PACK INTERVAL (FEET): 12-1
PROJECT: EDWARD HEMPLE UNIT #1	BENTONITE/GROUT INTERVAL (FEET): 1-0
LOGGED BY: C. LaFONTE	WELL SCREEN INTERVAL (FEET): 12-2
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): 1
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12
PID INSTRUMENT: MiniRAE 3000 - PID #11	
TIME STARTED/COMPLETED: 1228 / 1240	
SAMPLE COLLECTION DEPTH (FEET)/TIME: N/A	



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Boring Log/Well Completion Diagram: MW-11

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') silty sandy CLAY - brown, moderately moist, low plasticity, moderately graded with 30% fine sand, N/O, N/S	CL	DP	1	60	4.4	N/A		@ 4.5' Wet	
3	(3-7.5') silty SAND - brown, moist to wet, medium dense, fine grained, moderately graded with 20% silt, @ 5-8' - slight HC odor, N/S	SM				30.1				
7.5	(7.5-10') silty CLAY - light brown, wet, medium stiff to stiff, medium to high plasticity, poorly graded with 20% silt,	CL	DP	2	80	75.6	N/A			
10	(10-12') sandy CLAY - light brown, wet, soft to medium stiff, low plasticity, moderately graded with 25% fine grained sand, N/O, N/S	CL	DP	3	100	5.8	N/A			
12	BoB @ 12'					0.0	N/A			

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: 07/18/2019		SAND PACK INTERVAL (FEET): 12-1	
PROJECT: EDWARD HEMPLE UNIT #1		BENTONITE/GROUT INTERVAL (FEET): 1-0	
LOGGED BY: C. LaFONTE		WELL SCREEN INTERVAL (FEET): 12-2	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC.</p> 8000 W 44th Avenue, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449	
PID INSTRUMENT: MiniRAE 3000 - PID #11			
TIME STARTED/COMPLETED: 1607 / 1620			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 3-4' / 1612			

Boring Log/Well Completion Diagram: MW-12

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') BACKFILL	FL	DP	1	50	0.0	N/A		@ 4.5' Wet -Backfill, phreatic soil samples not submitted for lab analysis	
5	@ 6-7.5' - slight HC odor, N/S					0.0				
7.5	(7-10') silty CLAY - light brown, wet, stiff, medium to high plasticity, poorly graded with 25% silt	CL	DP	2	75	26.8	N/A			
10	(10-12') sandy CLAY - light brown, wet, soft, low plasticity, moderately graded, with 25% fine grained sand, N/O, N/S					1.5				
10		CL	DP	3	80	0.0	N/A			
12	BoB @ 12'									
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: 07/18/2019		SAND PACK INTERVAL (FEET): 12-1	
PROJECT: EDWARD HEMPLE UNIT #1		BENTONITE/GROUT INTERVAL (FEET): 1-0	
LOGGED BY: C. LaFONTE		WELL SCREEN INTERVAL (FEET): 12-2	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC.</p> 8000 W 44th Avenue, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449	
PID INSTRUMENT: MiniRAE 3000 - PID #11			
TIME STARTED/COMPLETED: 1517 / 1531			
SAMPLE COLLECTION DEPTH (FEET)/TIME: N/A			

Boring Log/Well Completion Diagram: MW-13

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') BACKFILL - @ 6-7' slight HC odor, N/S	FL	DP	1	50	0.0	N/A		@ 4.5' Wet -Backfill, phreatic soil samples not submitted for lab analysis	
5	(7-8') silty SAND - brown, moderately moist, medium dense, moderately graded with 25% silt, N/O, N/S					0.5				
8	(8-11') silty CLAY - light brown, wet, medium stiff to stiff, medium to high plasticity, poorly graded with 15% silt, N/O, N/S	SM	DP	2	75	12.3	N/A			
10	(11-12') sandy CLAY - light brown, wet, soft, low plasticity, moderately graded, with 20% fine grained sand, N/O, N/S	CL				0.1				
12	BoB @ 12'	CL	DP	3	90	0.0	N/A			

START/COMPLETION DATE: 07/18/2019		SAND PACK INTERVAL (FEET): 12-1	
PROJECT: EDWARD HEMPLE UNIT #1		BENTONITE/GROUT INTERVAL (FEET): 1-0	
LOGGED BY: C. LaFONTE		WELL SCREEN INTERVAL (FEET): 12-2	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC.</p> <p>8000 W 44th Avenue, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000 - PID #11			
TIME STARTED/COMPLETED: 1533 / 1550			
SAMPLE COLLECTION DEPTH (FEET)/TIME: N/A			

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

Boring Log/Well Completion Diagram: MW-14

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') BACKFILL	FL	DP	1	50	0.0	N/A		@ 4.5' Wet -Backfill, phreatic soil samples not submitted for lab analysis	
5	(7-11') silty CLAY - light brown, wet, medium stiff to stiff, medium to high plasticity, poorly graded with 25% silt, N/O, N/S					0.0				
10	(11-12') sandy CLAY - light brown, wet, soft, low plasticity, moderately graded with 30% fine grained sand, N/O, N/S	CL	DP	2	70	1.3	N/A		-Backfill, phreatic soil samples not submitted for lab analysis	
10		CL	DP	3	80	2.2				0.1
12	BoB @ 12'									

START/COMPLETION DATE: 07/18/2019	SAND PACK INTERVAL (FEET): 12-1
PROJECT: EDWARD HEMPLE UNIT #1	BENTONITE/GROUT INTERVAL (FEET): 1-0
LOGGED BY: C. LaFONTE	WELL SCREEN INTERVAL (FEET): 12-2
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): 1
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12
PID INSTRUMENT: MiniRAE 3000 - PID #11	
TIME STARTED/COMPLETED: 1553 / 1605	
SAMPLE COLLECTION DEPTH (FEET)/TIME: N/A	



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

Boring Log/Well Completion Diagram: MW-15

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') silty sandy CLAY - brown, moderately moist, low plasticity, moderately graded with 20% fine sand, N/O, N/S	CL	DP	1	60	0.0	N/A		@ 4.5' Wet	
3-6.5	(3-6.5') silty SAND - brown, moist to wet, medium dense, fine grained, moderately graded with 25% silt, slight HC odor, N/S	SM				0.0				
6.5-10	(6.5-10') silty CLAY - light brown, wet, medium stiff to stiff, medium to high plasticity, poorly graded with 20% silt, N/O, N/S	CL	DP	2	80	0.5	N/A			
10-12	(10-12') sandy CLAY - light brown, wet, soft to medium stiff, low plasticity, moderately graded, with 20% fine grained sand, N/O, N/S	CL	DP	3	100	8.1	N/A			
12	BoB @ 12'					0.5	N/A			
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: 07/18/2019	SAND PACK INTERVAL (FEET): 12-1
PROJECT: EDWARD HEMPLE UNIT #1	BENTONITE/GROUT INTERVAL (FEET): 1-0
LOGGED BY: C. LaFONTE	WELL SCREEN INTERVAL (FEET): 12-2
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): 1
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12
PID INSTRUMENT: MiniRAE 3000 - PID #11	
TIME STARTED/COMPLETED: 1325 / 1345	
SAMPLE COLLECTION DEPTH (FEET)/TIME: 3-4' / 1335	



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Boring Log/Well Completion Diagram: MW-16

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') silty sandy CLAY - brown, moderately moist, low plasticity, moderately graded with 25% fine grained sand, N/O, N/S	CL	DP	1	60	4.3	N/A		@ 4.5' Wet	
3	(3-7') silty SAND - brown, moist to wet, medium dense, fine grained, moderately graded with 30% silt, slight HC/O at 4-7', N/S	SM				9.1				
7	(7-10') silty CLAY - light brown, wet, medium stiff to stiff, medium to high plasticity, poorly graded with 20% silt, N/O, N/S	CL	DP	2	80	300.2	N/A			
10	(10-12') sandy CLAY - light brown, wet, soft to medium stiff, low plasticity, moderately graded with 20% fine grained sand, N/O, N/S	CL	DP	3	95	22.5	N/A			
12	BoB @ 12'									

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: 07/18/2019		SAND PACK INTERVAL (FEET): 12-1	
PROJECT: EDWARD HEMPLE UNIT #1		BENTONITE/GROUT INTERVAL (FEET): 1-0	
LOGGED BY: C. LaFONTE		WELL SCREEN INTERVAL (FEET): 12-2	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC.</p> 8000 W 44th Avenue, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449	
PID INSTRUMENT: MiniRAE 3000 - PID #11			
TIME STARTED/COMPLETED: 1348 / 1400			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 3-4' / 1352			

Boring Log/Well Completion Diagram: MW-17

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') silty sandy CLAY - brown, moderately moist, low plasticity, moderately graded with 25% fine grained sand, N/O, N/S	CL	DP	1	60	0.0	N/A		@ 4.5' Wet	
3	(3-6') silty SAND, brown, moist to wet, medium dense, fine grained, moderately graded with 30% silt	SM				0.0				
5	@ 5-7' - slight HC odor, N/S									
6	(6-10') silty CLAY - light brown, wet, medium stiff to stiff, medium to high plasticity, poorly graded with 25% silt	CL	DP	2	80	39.5	N/A			
10	(10-12') sandy CLAY - light brown, wet, soft to medium stiff, low plasticity, moderately graded with 25% fine grained sand, N/O, N/S	CL	DP	3	100	0.0	N/A			
12	BoB @ 12'									

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: 07/18/2019	SAND PACK INTERVAL (FEET): 12-1
PROJECT: EDWARD HEMPLE UNIT #1	BENTONITE/GROUT INTERVAL (FEET): 1-0
LOGGED BY: C. LaFONTE	WELL SCREEN INTERVAL (FEET): 12-2
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): 1
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12
PID INSTRUMENT: MiniRAE 3000 - PID #11	
TIME STARTED/COMPLETED: 1403 / 1418	
SAMPLE COLLECTION DEPTH (FEET)/TIME: 3-4' / 1410	



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Boring Log/Well Completion Diagram: MW-18

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') BACKFILL	FL	DP	1	60	0.0	N/A		@ 4.5' Wet -Backfill, phreatic soil samples not submitted for lab analysis	
5	(7-10') silty CLAY - light brown, wet, stiff, medium to high plasticity, poorly graded with 20% silt, N/O, N/S					0.0				
10	(10-12') sandy CLAY - light brown, wet, soft to medium stiff, low plasticity, well graded with 25% fine grained sand, N/O, N/S	CL	DP	2	80	3.5	N/A		-Backfill, phreatic soil samples not submitted for lab analysis	
10		CL	DP	3	80	0.0	N/A			
12	BoB @ 12'									

START/COMPLETION DATE: 07/18/2019	SAND PACK INTERVAL (FEET): 12-1
PROJECT: EDWARD HEMPLE UNIT #1	BENTONITE/GROUT INTERVAL (FEET): 1-0
LOGGED BY: C. LaFONTE	WELL SCREEN INTERVAL (FEET): 12-2
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): 1
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12
PID INSTRUMENT: MiniRAE 3000 - PID #11	
TIME STARTED/COMPLETED: 1420 / 1430	
SAMPLE COLLECTION DEPTH (FEET)/TIME: N/A	



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Boring Log/Well Completion Diagram: MW-19

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') BACKFILL	FL	DP	1	80	0.0	N/A		@ 4.5' Wet -Backfill, phreatic soil samples not submitted for lab analysis	
5	(7-9.5') silty CLAY - light brown, wet, medium stiff, medium to high plasticity, poorly graded with 25% silt, N/O, N/S					0.0				
10	(9.5-12') sandy CLAY - light brown, wet, soft to medium stiff, low plasticity, well graded with 20% fine grained sand, N/O, N/S	CL	DP	2	90	2.5	N/A			
		CL	DP	3	90	1.6				
12	BoB @ 12'					0.0	N/A			

START/COMPLETION DATE: 07/18/2019		SAND PACK INTERVAL (FEET): 12-1	
PROJECT: EDWARD HEMPLE UNIT #1		BENTONITE/GROUT INTERVAL (FEET): 1-0	
LOGGED BY: C. LaFONTE		WELL SCREEN INTERVAL (FEET): 12-2	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC.</p> <p>8000 W 44th Avenue, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000 - PID #11			
TIME STARTED/COMPLETED: 1445 / 1456			
SAMPLE COLLECTION DEPTH (FEET)/TIME: N/A			

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

Boring Log/Well Completion Diagram: MW-20

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') BACKFILL	FL	DP	1	80	0.0	N/A		@ 4.5' Wet	
5	@ 6-8' - slight HC odor, N/S					0.0				
7	(7-11') silty CLAY - light brown, wet, medium stiff, medium to high plasticity, poorly graded with 20% silt	CL	DP	2	90	71.2	N/A			
10	(11-12') sandy CLAY - light brown, wet, soft to medium stiff, low plasticity, well graded with 20% fine grained sand, N/O, N/S					5.3				
10		CL	DP	3	90	0.0	N/A		-Backfill, phreatic soil samples not submitted for lab analysis	
12	BoB @ 12'									

START/COMPLETION DATE: 07/18/2019	SAND PACK INTERVAL (FEET): 12-1
PROJECT: EDWARD HEMPLE UNIT #1	BENTONITE/GROUT INTERVAL (FEET): 1-0
LOGGED BY: C. LaFONTE	WELL SCREEN INTERVAL (FEET): 12-2
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): 1
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12
PID INSTRUMENT: MiniRAE 3000 - PID #11	
TIME STARTED/COMPLETED: 1432 / 1442	
SAMPLE COLLECTION DEPTH (FEET)/TIME: N/A	

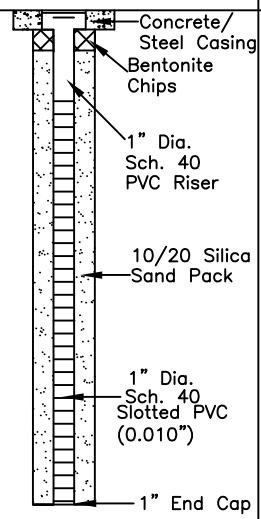


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Boring Log/Well Completion Diagram: MW-21

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') ROAD BASE					0.0	N/A			
1-7.5	(1-7.5') silty SAND - brown, moist to wet, medium dense, fine grained, moderately graded, with 30% silt, slight HC/O at 5-7', N/S	SM	DP	1	100	36.8				
7.5-10	(7.5-10') silty CLAY - light brown, wet, medium stiff to stiff, medium to high plasticity, poorly graded with 20% silt, N/O, N/S	CL	DP	2	70	34.5	N/A			
10-12	(10-12') sandy CLAY - light brown, wet, soft to medium stiff, low plasticity, moderately graded, with 20% fine grained sand, N/O, N/S	CL	DP	3	95	0.5	N/A			
12	BoB @ 12'									



@ 4.5' Wet

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: 07/19/2019		SAND PACK INTERVAL (FEET): 12-1	
PROJECT: EDWARD HEMPLE UNIT #1		BENTONITE/GROUT INTERVAL (FEET): 1-0	
LOGGED BY: C. LaFONTE		WELL SCREEN INTERVAL (FEET): 12-2	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	 <p>EAGLE ENVIRONMENTAL CONSULTING, INC. 8000 W 44th Avenue, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000 - PID #11			
TIME STARTED/COMPLETED: 0823 / 0840			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 3-4' / 0828			

Boring Log/Well Completion Diagram: MW-22

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') silty sandy CLAY - brown, moderately moist, low plasticity, moderately graded with 35% fine grained sand, N/O, N/S	CL	DP 1	60	0.0	N/A	5		@ 4.5' Wet	
3	(3-7.5') silty SAND - brown, moist to wet, medium dense, fine grained, moderately graded with 30% silt, slight HC/O at 5-7', N/S	SM			142.3					
7.5	(7.5-11') silty CLAY - light brown, wet, medium stiff, medium to high plasticity, poorly graded with 25% silt, N/O, N/S	CL	DP 2	80	56.8	N/A	10			
10	(11-12') sandy CLAY - light brown, wet, soft to medium stiff, low plasticity, moderately graded with 20% fine grained sand, N/O, N/S	CL	DP 3	95	0.0					
12	BoB @ 12'									

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: 07/18/2019	SAND PACK INTERVAL (FEET): 12-1
PROJECT: EDWARD HEMPLE UNIT #1	BENTONITE/GROUT INTERVAL (FEET): 1-0
LOGGED BY: C. LaFONTE	WELL SCREEN INTERVAL (FEET): 12-2
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): 1
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12
PID INSTRUMENT: MiniRAE 3000 - PID #11	
TIME STARTED/COMPLETED: 1500 / 1515	
SAMPLE COLLECTION DEPTH (FEET)/TIME: 3-4' / 1505	



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Boring Log/Well Completion Diagram: MW-23

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') sandy CLAY - light brown, moderately moist to wet, soft to medium stiff, medium plasticity, moderately graded with 20% fine grained sand. @0-7' - gray staining, HC odor @7.5' - N/O, N/S	CL	DP	1	70	573.2	N/A		@ 3' Wet	
5				2	80	475.1				
10				3	100	33.8				0.0
12	BoB @ 12'									

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: 08/30/2019		SAND PACK INTERVAL (FEET): 1-12	
PROJECT: EDWARD HEMPLE UNIT #1		BENTONITE/GROUT INTERVAL (FEET): 0-1	
LOGGED BY: G. CONGDON		WELL SCREEN INTERVAL (FEET): 2-12	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC. 8000 W 44th Avenue, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000 - PID #6			
TIME STARTED/COMPLETED: 0815/0823			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5-5' / 0818			

Boring Log/Well Completion Diagram: MW-24

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') sandy CLAY - light brown, moderately moist to wet, soft to medium stiff, medium plasticity, moderately graded with 20% fine grained sand. @6-8' - gray staining, HC odor	CL	DP	1	70	0.5	N/A		@ 4' Wet	
5				2	80	1.5				N/A
10				3	100	0.0	N/A			
12	BoB @ 12'									

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: 08/30/2019		SAND PACK INTERVAL (FEET): 1-12	
PROJECT: EDWARD HEMPLE UNIT #1		BENTONITE/GROUT INTERVAL (FEET): 0-1	
LOGGED BY: G. CONGDON		WELL SCREEN INTERVAL (FEET): 2-12	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC.</p> 8000 W 44th Avenue, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449	
PID INSTRUMENT: MiniRAE 3000 - PID #6			
TIME STARTED/COMPLETED: 0830/0840			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 5-7.5 / 0835			

Boring Log/Well Completion Diagram: MW-25

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') sandy CLAY - light brown, moderately moist to wet, soft to medium stiff, medium plasticity, moderately graded with 20% fine grained sand. @5-7.5' - gray staining, HC odor @8' - N/O, N/S	CL	DP	1	50	1.8	N/A		@ 7' Wet	
5				2	80	1037				
10				3	100	79.1				2.5
12	BoB @ 12'									

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: 08/30/2019		SAND PACK INTERVAL (FEET): 1-12	
PROJECT: EDWARD HEMPLE UNIT #1		BENTONITE/GROUT INTERVAL (FEET): 0-1	
LOGGED BY: G. CONGDON		WELL SCREEN INTERVAL (FEET): 2-12	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC. 8000 W 44th Avenue, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000 - PID #6			
TIME STARTED/COMPLETED: 0843/0854			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 5-7.5 / 0848			

Boring Log/Well Completion Diagram: MW-26

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') sandy CLAY - light brown, moderately moist to wet, soft to medium stiff, medium plasticity, moderately graded with 20% fine grained sand, N/O, N/S @0-5' - decompression fractures @5-6' sand lens	CL	DP	1	20	1.7	N/A		@ 4' Wet	
5				2	60	7.7				
10				3	100	0.0				
12	BoB @ 12'									

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: 08/30/2019		SAND PACK INTERVAL (FEET): 1-12	
PROJECT: EDWARD HEMPLE UNIT #1		BENTONITE/GROUT INTERVAL (FEET): 0-1	
LOGGED BY: G. CONGDON		WELL SCREEN INTERVAL (FEET): 2-12	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC. 8000 W 44th Avenue, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000 - PID #6			
TIME STARTED/COMPLETED: 0900/0912			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 5-7.5 / 0905			

Boring Log/Well Completion Diagram: MW-27

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') sandy CLAY - light brown, moderately moist to wet, soft to medium stiff, medium plasticity, well graded with 20% fine grained sand @5-7' - N/S, HC odor @8' - N/O, N/S	CL	DP	1	60	0.0	N/A		@ 7' Wet	
5				2	80	2.6				N/A
10				3	100	0.0	N/A			
12	BoB @ 12'									

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: 08/30/2019		SAND PACK INTERVAL (FEET): 1-12	
PROJECT: EDWARD HEMPLE UNIT #1		BENTONITE/GROUT INTERVAL (FEET): 0-1	
LOGGED BY: G. CONGDON		WELL SCREEN INTERVAL (FEET): 2-12	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC.</p> 8000 W 44th Avenue, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449	
PID INSTRUMENT: MiniRAE 3000 - PID #6			
TIME STARTED/COMPLETED: 0916/0925			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 5-7.5 / 0920			

Boring Log/Well Completion Diagram: MW-28

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') sandy CLAY - light brown, moderately moist to wet, soft to medium stiff, medium plasticity, moderately graded with 20%-40% fine grained sand, NO, N/S	CL	DP	1	70	0.0	N/A		@ 4' Wet	
5				2	80	0.0				
10				3	100	0.0				
12.5	BoB @ 12.5'									
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: 08/30/2019	SAND PACK INTERVAL (FEET): 1-12.5
PROJECT: EDWARD HEMPLE UNIT #1	BENTONITE/GROUT INTERVAL (FEET): 0-1
LOGGED BY: G. CONGDON	WELL SCREEN INTERVAL (FEET): 2-12
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): 1
BORING DEPTH (FEET): 12.5	WELL DEPTH (FEET): 12
PID INSTRUMENT: MiniRAE 3000 - PID #6	
TIME STARTED/COMPLETED: 0930/0944	
SAMPLE COLLECTION DEPTH (FEET)/TIME: 10-12.5/0943	



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Boring Log/Well Completion Diagram: MW-29

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') sandy CLAY - light brown, moderately moist to wet, soft to medium stiff, medium plasticity, moderately graded with 20%-40% fine grained sand, NO, N/S @ 5-6' - sand lens	CL	DP	1	40	1.1	N/A		@ 5' Wet	
5				2	90	2.0				
10				3	100	0.4	0.1			N/A
12	BoB @ 12'					0.0	N/A			

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: 08/30/2019		SAND PACK INTERVAL (FEET): 1-12	
PROJECT: EDWARD HEMPLE UNIT #1		BENTONITE/GROUT INTERVAL (FEET): 0-1	
LOGGED BY: G. CONGDON		WELL SCREEN INTERVAL (FEET): 2-12	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC.</p> 8000 W 44th Avenue, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449	
PID INSTRUMENT: MiniRAE 3000 - PID #6			
TIME STARTED/COMPLETED: 0955/1005			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5-5/1000			

Boring Log/Well Completion Diagram: MW-30

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') sandy CLAY - light brown, moderately moist to wet, soft to medium stiff, medium plasticity, moderately graded with 20%-40% fine grained sand, NO, N/S @ 4-5' - sand lens	CL	DP	1	70	1.0	N/A		@ 3' Wet	
5				2	80	0.0				
10				3	100	0.0	N/A			
12	BoB @ 12'									

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: 08/30/2019		SAND PACK INTERVAL (FEET): 1-12	
PROJECT: EDWARD HEMPLE UNIT #1		BENTONITE/GROUT INTERVAL (FEET): 0-1	
LOGGED BY: G. CONGDON		WELL SCREEN INTERVAL (FEET): 2-12	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC. 8000 W 44th Avenue, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000 - PID #6			
TIME STARTED/COMPLETED: 1006/1016			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 0-2.5/1007			

Boring Log/Well Completion Diagram: MW-31

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') sandy CLAY - light brown, moderately moist to wet, soft to medium stiff, low to medium plasticity, moderately graded with 30%-40% fine grained sand, NO, N/S @ 1-2' - decompression fractures	CL	DP	1	70	0.5	N/A		@ 5' Wet	
5				2	80	0.4				N/A
10				3	90	0.0	N/A			
12	BoB @ 12'									

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: 08/30/2019		SAND PACK INTERVAL (FEET): 1-12	
PROJECT: EDWARD HEMPLE UNIT #1		BENTONITE/GROUT INTERVAL (FEET): 0-1	
LOGGED BY: G. CONGDON		WELL SCREEN INTERVAL (FEET): 2-12	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC.</p> 8000 W 44th Avenue, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449	
PID INSTRUMENT: MiniRAE 3000 - PID #6			
TIME STARTED/COMPLETED: 1033/1043			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 0-2.5/1034			

Boring Log/Well Completion Diagram: MW-32

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') sandy CLAY - light brown, moderately moist to wet, soft to medium stiff, low to medium plasticity, moderately graded with 20%-40% fine grained sand, NO, N/S @ 1-2' - decompression fractures	CL	DP	1	70	0.0	N/A		@ 5' Wet	
5				2	70	1.9				N/A
10				3	70	1.6	N/A			
12	BoB @ 12'					1.1	N/A			
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: 08/30/2019		SAND PACK INTERVAL (FEET): 1-12	
PROJECT: EDWARD HEMPLE UNIT #1		BENTONITE/GROUT INTERVAL (FEET): 0-1	
LOGGED BY: G. CONGDON		WELL SCREEN INTERVAL (FEET): 2-12	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC.</p> 8000 W 44th Avenue, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449	
PID INSTRUMENT: MiniRAE 3000 - PID #6			
TIME STARTED/COMPLETED: 1053/1103			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 5-7.5/1058			

Boring Log/Well Completion Diagram: MW-33

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') sandy CLAY - light brown, moderately moist to wet, soft to medium stiff, medium plasticity, moderately graded with 30%-40% fine grained sand, NO, N/S	CL	DP	1	90	1.1	N/A		@ 5' Wet	
5				2	70	1.3				
10				3	100	2.9	N/A			
10	@ 9-10' - sand lens					3.7	N/A			
10						3.8				
12	BoB @ 12'									
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: 08/30/2019		SAND PACK INTERVAL (FEET): 1-12	
PROJECT: EDWARD HEMPLE UNIT #1		BENTONITE/GROUT INTERVAL (FEET): 0-1	
LOGGED BY: G. CONGDON		WELL SCREEN INTERVAL (FEET): 2-12	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC.</p> 8000 W 44th Avenue, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449	
PID INSTRUMENT: MiniRAE 3000 - PID #6			
TIME STARTED/COMPLETED: 1107/1117			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 7.5-10/1112			

Boring Log/Well Completion Diagram: MW-34

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') sandy CLAY - light brown, moderately moist to wet, medium stiff to very stiff, low to medium plasticity, moderately graded with 30% fine grained sand, NO, N/S	CL	DP	1	50	4.6	N/A	0	<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>	@ 5' Wet
5	(4-11') clayey SAND - light brown, moderately moist to wet, loose to medium dense, fine to medium graded, moderately graded with 35% clay, N/O, N/S @5-5.5 - clay lens	SC	DP	2	80	4.1				
10	(11-12') sandy CLAY - light brown, wet, medium stiff, medium plasticity, moderately graded with 30% fine to medium grained sand, N/O, N/S	CL	DP	3	100	1.4	N/A	10		
12	BoB @ 12'									
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: 08/30/2019	SAND PACK INTERVAL (FEET): 1-12
PROJECT: EDWARD HEMPLE UNIT #1	BENTONITE/GROUT INTERVAL (FEET): 0-1
LOGGED BY: G. CONGDON	WELL SCREEN INTERVAL (FEET): 2-12
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): 1
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12
PID INSTRUMENT: MiniRAE 3000 - PID #6	
TIME STARTED/COMPLETED: 1142/1152	
SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5-5/1147	



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Boring Log/Well Completion Diagram: MW-35

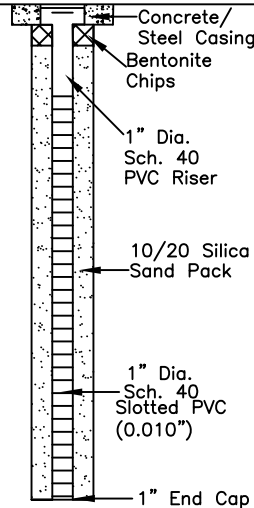
DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-12') sandy CLAY - light brown, moderately moist to wet, medium stiff to very stiff, medium plasticity, moderately graded with 30% fine grained sand, NO, N/S @4-5' - clay lens @ 6-7' - sand lens	CL	DP	1	80	4.3	N/A		@ 5' Wet	
5				2	90	3.2				
10				3	90	2.6	2.7			N/A
12	BoB @ 12'					1.1	N/A			

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: 08/30/2019		SAND PACK INTERVAL (FEET): 1-12	
PROJECT: EDWARD HEMPLE UNIT #1		BENTONITE/GROUT INTERVAL (FEET): 0-1	
LOGGED BY: G. CONGDON		WELL SCREEN INTERVAL (FEET): 2-12	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC.</p> <p>8000 W 44th Avenue, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000 - PID #6			
TIME STARTED/COMPLETED: 1204/1214			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 0-2.5/1205			

Boring Log/Well Completion Diagram: MW-36

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 CLAY - brown, moderately moist, medium stiff, medium plasticity, moderately graded with ~40% fine to medium grained sand, NO, N/S	CL				0.0	N/A		@ 6' - wet	
		DP	1	40	0.0					
5	(2-12') clayey SAND - brown, moderately moist to wet, medium dense, fine to medium grained, moderately graded with ~30% clay, N/O, N/S	SC				0.0	N/A		@ 6' - wet	
			DP	2	95	0.0				
			DP	3	50	0.0				
12	BoB @ 12'									



@ 6' - wet

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: 12/09/2019		SAND PACK INTERVAL (FEET): 12-1	
PROJECT: EDWARD HEMPLE UNIT #1		BENTONITE/GROUT INTERVAL (FEET): 1-0.5	
LOGGED BY: W. KLEINHEKSEL		WELL SCREEN INTERVAL (FEET): 12-2	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12		
PID INSTRUMENT: MiniRAE 3000 - PID #11			
TIME STARTED/COMPLETED: 1234/1255			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5-5/1253			



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Boring Log/Well Completion Diagram: MW-37

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)' - Road base								@ 5' - wet	
1-9	(1-9)' sandy CLAY - light brown, moderately moist to wet, soft to hard, low to medium plasticity, well graded with 20% fine to medium grained sand, trace gravel	CL	DP	1	80	62.4	N/A			
1-6	@ 1-6' - slight HC odor, black staining					55.4				
9-12	(9-12)' CLAY - gray, wet, very stiff, medium plasticity, poorly graded with trace gravel, N/O, N/S	CL	DP	2	80	0.0	N/A			
						0.0				
		CL	DP	3	50	0.0	N/A			
						0.0				
12	BoB @ 12'									

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: 12/09/2019		SAND PACK INTERVAL (FEET): 12-1	
PROJECT: EDWARD HEMPLE UNIT #1		BENTONITE/GROUT INTERVAL (FEET): 1-0.5	
LOGGED BY: W. KLEINHEKSEL		WELL SCREEN INTERVAL (FEET): 12-2	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC.</p> 8000 W 44th Avenue, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449	
PID INSTRUMENT: MiniRAE 3000 - PID #11			
TIME STARTED/COMPLETED: 1206/1225			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5-5/1222			

Boring Log/Well Completion Diagram: MW-38

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	(0-9') sandy CLAY - brown, moderately moist to wet, soft to hard, low to medium plasticity, moderately graded with ~20% fine to medium sand @ 3-6.5' - HC odor, black staining	CL	DP	1	60	4.7	N/A	0		
5						545.4				
10	(9-12') CLAY - gray, wet, very stiff, medium plasticity, poorly graded with trace gravel, N/O, N/S	CL	DP	2	100	8.0	N/A	10		@ 6' - wet
						2.4				
	BoB @ 12'					1.2	N/A	15		
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: 12/09/2019		SAND PACK INTERVAL (FEET): 12-1	
PROJECT: EDWARD HEMPLE UNIT #1		BENTONITE/GROUT INTERVAL (FEET): 1-0	
LOGGED BY: W. KLEINHEKSEL		WELL SCREEN INTERVAL (FEET): 12-2	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC. 8000 W 44th Avenue, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000 - PID #11			
TIME STARTED/COMPLETED: 1122 / 1148			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5-5/1144			

Boring Log/Well Completion Diagram: MW-39

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	(0-9') sandy CLAY - brown, moderately moist to wet, soft to medium stiff, low plasticity, moderately graded with 45% fine to medium grained sand, N/O, N/S	CL	DP	1	50	0.0	N/A			
5				2	80	0.0				
10	(9-12') CLAY - gray, wet, very stiff, medium plasticity, poorly graded with trace gravel, N/O, N/S	CL	DP	3	50	0.0	N/A			
12	BoB @ 12'									

@ 6' - wet

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: 12/09/2019		SAND PACK INTERVAL (FEET): 12-1	
PROJECT: EDWARD HEMPLE UNIT #1		BENTONITE/GROUT INTERVAL (FEET): 1-0	
LOGGED BY: W. KLEINHEKSEL		WELL SCREEN INTERVAL (FEET): 12-2	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC. 8000 W 44th Avenue, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000 - PID #11			
TIME STARTED/COMPLETED: 1102 / 1130			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5-5/1124			

Boring Log/Well Completion Diagram: MW-40

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	(0-10') sandy CLAY - brown, moderately moist to wet, soft to medium stiff, low to medium plasticity, moderately graded with 30% fine to medium grained sand		DP	1	50	0.0	N/A		@ 5.5' - wet	
5	@ 6-10' - HC odor, gray/black staining	CL				0.0				
10	(10-12') CLAY - gray, wet, very stiff, medium plasticity, poorly graded with trace gravel, N/O, N/S		DP	2	70	376.5	N/A			
		CL				217.8				
		CL	DP	3	50	8.8	N/A			
12	BoB @ 12'									

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: 12/09/2019	SAND PACK INTERVAL (FEET): 12-1
PROJECT: EDWARD HEMPLE UNIT #1	BENTONITE/GROUT INTERVAL (FEET): 1-0
LOGGED BY: W. KLEINHEKSEL	WELL SCREEN INTERVAL (FEET): 12-2
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): 1
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12
PID INSTRUMENT: MiniRAE 3000 - PID #11	
TIME STARTED/COMPLETED: 1039 / 1102	
SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5-5/1059	



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Boring Log/Well Completion Diagram: MW-41

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') clayey SAND - brown, moderately moist to wet, medium dense, fine grained, moderately graded with 20% clay	SC	DP	1	60	0.0	N/A		@ 5.5' - wet	
5	@ 6.5-9' - gray staining, HC odor					0.0				
6-12'	sandy silty CLAY - brown, wet, soft to medium stiff, low to medium plasticity, moderately graded with 15% silt, 20% fine grained sand	CL	DP	2	80	1471	N/A			
10	@ 10' - N/O, N/S					310.9				
10-12'			DP	3	100	10.8	N/A			
12'	BoB @ 12'									

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: 12/09/2019		SAND PACK INTERVAL (FEET): 12-1	
PROJECT: EDWARD HEMPLE UNIT #1		BENTONITE/GROUT INTERVAL (FEET): 1-0	
LOGGED BY: W. KLEINHEKSEL		WELL SCREEN INTERVAL (FEET): 12-2	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC. 8000 W 44th Avenue, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000 - PID #11			
TIME STARTED/COMPLETED: 0959 / 1020			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5-5/1000			

Boring Log/Well Completion Diagram: MW-42

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') sandy CLAY - brown, moderately moist to wet, soft to medium stiff, high plasticity, moderately graded with 20% fine grained sand, N/O, N/S	CL	DP	1	70	0.0	N/A		@ 5.5' - wet	
5						0.0				
10			DP	2	100	0.0	N/A			
10						0.0				
12	BoB @ 12'									

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: 12/09/2019		SAND PACK INTERVAL (FEET): 12-1	
PROJECT: EDWARD HEMPLE UNIT #1		BENTONITE/GROUT INTERVAL (FEET): 1-0	
LOGGED BY: W. KLEINHEKSEL		WELL SCREEN INTERVAL (FEET): 12-2	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 12	WELL DEPTH (FEET): 12	<p>EAGLE ENVIRONMENTAL CONSULTING, INC.</p> 8000 W 44th Avenue, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449	
PID INSTRUMENT: MiniRAE 3000 - PID #11			
TIME STARTED/COMPLETED: 0933 / 0956			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5-5/0954			

ATTACHMENT B

Laboratory Analytical Reports



July 29, 2019

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Edward Hemple Unit 1

Project Number - [none]

Attached are your analytical results for Noble - Edward Hemple Unit 1 received by Origins Laboratory, Inc. July 19, 2019. This project is associated with Origins project number Y907313-01.

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: Noble - Edward Hemple Unit 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01@3-4'	Y907313-01	Soil	July 18, 2019 9:50	07/19/2019 12:13
MW-02@3-4'	Y907313-02	Soil	July 18, 2019 9:30	07/19/2019 12:13
MW-06@3-4'	Y907313-03	Soil	July 19, 2019 8:09	07/19/2019 12:13
MW-07@3-4'	Y907313-04	Soil	July 18, 2019 10:30	07/19/2019 12:13
MW-09@3-4'	Y907313-05	Soil	July 18, 2019 7:50	07/19/2019 12:13
MW-11@3-4'	Y907313-06	Soil	July 18, 2019 16:12	07/19/2019 12:13
MW-15@3-4'	Y907313-07	Soil	July 18, 2019 13:35	07/19/2019 12:13
MW-16@3-4'	Y907313-08	Soil	July 18, 2019 13:52	07/19/2019 12:13
MW-17@3-4'	Y907313-09	Soil	July 18, 2019 14:10	07/19/2019 12:13
MW-21@3-4'	Y907313-10	Soil	July 19, 2019 8:28	07/19/2019 12:13
MW-22@3-4'	Y907313-11	Soil	July 18, 2019 15:05	07/19/2019 12:13

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: Noble - Edward Hemple Unit 1

www.originslaboratory.com



page 1 of 2

Client: EAGLE ENV CONSULTING
 Address: 8000 W 44TH AVE
WHEAT RIDGE, CO
 Telephone Number: 303-433-0479
 Email Address: MCE3@EAGLE-ENVIR.CO

Project Manager: MARTIN ECKERT III
 Project Name: EDWARD HEMPLE UNIT 1
 Project Number: _____
 Samples Collected By: JLP/LL

Fax: 303.265.9645 | Phone: 303.433.1322 | Denver, CO 80211

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	BTEX	CRD	PRD		VOCs	
Mu-01 @ 3-4'	7-18-19	0950	2	X				X					X	X	X	X	
Mu-02 @ 3-4'	7-18-19	0930	1														
Mu-06 @ 3-4'	7-19-19	0809	1														
Mu-07 @ 3-4'	7-18-19	1030	1														
Mu-09 @ 3-4'	7-19-19	0750	1														
Mu-11 @ 3-4'	7-18-19	1612	1														
Mu-15 @ 3-4'	7-18-19	1335	1														
Mu-16 @ 3-4'	7-18-19	1352	1														
Mu-17 @ 3-4'	7-18-19	1410	1														
Mu-21 @ 3-4'	7-19-19	0828	1														
Relinquished by: <i>[Signature]</i>	Date: 7-19-19	Time: 1213		Received By: <i>[Signature]</i>	Date: 7-19-19	Time: 1213		Received By: <i>[Signature]</i>	Date: 7-19-19	Time: 1213		Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>					

Date Results Needed ASAP

Temp Received: 33

Relinquished by: BILL TO MATHIS

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y907313

Client: Eagle
 Client Project ID: Edward Hemple

Checklist Completed by: JG
 Date/time completed: 7/23/2019

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

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

Cooler Number/Temperature: 1 3.3 °C / _____ °C / _____ °C / _____ °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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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.

MP
 Reviewed by (Project Manager)

7/29/19
 Date/Time Reviewed

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: Noble - Edward Hemple Unit 1

MW-01@3-4'

7/18/2019 9:50:00AM

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

Origins Laboratory, Inc.
 Y907313-01 (Soil)

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

Diesel (C10-C28)	56.6	50.0	mg/kg	1	B9G2304	KDK	07/23/2019	07/24/2019	
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Surrogate: o-Terphenyl	87.0 %	50-150			"	"	"	"	
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GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	19.6	0.200	mg/kg	1	B9G2312	KDK	07/23/2019	07/24/2019	
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.498	"	250	"	KDK	"	07/25/2019	U
Ethylbenzene	0.106	0.002	"	1	"	KDK	"	07/24/2019	
Xylenes, total	5.16	0.498	"	250	"	KDK	"	07/25/2019	
Naphthalene	0.017	0.008	"	1	"	KDK	"	07/24/2019	

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.1 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-02@3-4'

7/18/2019 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907313-02 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9G2304	KDK	07/23/2019	07/24/2019	U
Surrogate: o-Terphenyl	89.8 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9G2312	KDK	07/23/2019	07/24/2019	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	0.004	0.002	"	"	"	KDK	"	"	
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.3 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-06@3-4'

7/19/2019 8:09:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y907313-03 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9G2304	KDK	07/23/2019	07/24/2019	U
Surrogate: o-Terphenyl	94.8 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9G2312	KDK	07/23/2019	07/24/2019	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.9 %	70-130			"	"	"	"	

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-07@3-4'

7/18/2019 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907313-04 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9G2313	KDK	07/23/2019	07/24/2019	U
<i>Surrogate: o-Terphenyl</i>	79.2 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9G2312	KDK	07/23/2019	07/24/2019	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	97.6 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	100 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	96.9 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-09@3-4'

7/18/2019 7:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y907313-05 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9G2313	KDK	07/23/2019	07/24/2019	U
Surrogate: o-Terphenyl	75.8 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	2.55	0.200	mg/kg	1	B9G2312	KDK	07/23/2019	07/24/2019	
Benzene	0.062	0.002	"	"	"	KDK	"	"	
Toluene	0.090	0.002	"	"	"	KDK	"	"	
Ethylbenzene	0.026	0.002	"	"	"	KDK	"	"	
Xylenes, total	0.305	0.002	"	"	"	KDK	"	"	
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.4 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-11@3-4'
7/18/2019 4:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907313-06 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9G2313	KDK	07/23/2019	07/24/2019	U
Surrogate: o-Terphenyl	80.2 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	0.786	0.200	mg/kg	1	B9G2312	KDK	07/23/2019	07/25/2019	
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.8 %	70-130			"	"	"	"	

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-15@3-4'

7/18/2019 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907313-07 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9G2313	KDK	07/23/2019	07/24/2019	U
<i>Surrogate: o-Terphenyl</i>	77.1 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9G2312	KDK	07/23/2019	07/25/2019	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	101 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	98.6 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	96.9 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-16@3-4'

7/18/2019 1:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907313-08 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9G2313	KDK	07/23/2019	07/24/2019	U
Surrogate: <i>o</i> -Terphenyl	79.9 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9G2312	KDK	07/23/2019	07/25/2019	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U
Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.9 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-17@3-4'

7/18/2019 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907313-09 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9G2313	KDK	07/23/2019	07/24/2019	U
Surrogate: <i>o</i> -Terphenyl	74.4 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9G2312	KDK	07/23/2019	07/25/2019	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U
Surrogate: 1,2-Dichloroethane-d4	94.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.6 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-21@3-4'

7/19/2019 8:28:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y907313-10 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9G2313	KDK	07/23/2019	07/24/2019	U
Surrogate: o-Terphenyl	80.3 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9G2312	KDK	07/23/2019	07/25/2019	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.9 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-22@3-4'

7/18/2019 3:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907313-11 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9G2313	KDK	07/23/2019	07/25/2019	U
Surrogate: o-Terphenyl	76.2 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	16.3	5.00	mg/kg	25	B9G2312	KDK	07/23/2019	07/25/2019	
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	0.748	0.050	"	"	"	KDK	"	"	
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.0 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

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
Batch B9G2304 - EPA 3580										
Blank (B9G2304-BLK1)					Prepared: 07/23/2019 Analyzed: 07/23/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	41		"	50.0		82.6	50-150			

Origins Laboratory, Inc.



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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

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 B9G2304 - EPA 3580

LCS (B9G2304-BS1)

Prepared: 07/23/2019 Analyzed: 07/23/2019

Diesel (C10-C28)	1030	50.0	mg/kg	1000		103	70-130			
Surrogate: <i>o</i> -Terphenyl	51		"	50.0		103	50-150			

Origins Laboratory, Inc.



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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

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 B9G2304 - EPA 3580

Matrix Spike (B9G2304-MS1)	Source: Y907298-01			Prepared: 07/23/2019 Analyzed: 07/23/2019						
Diesel (C10-C28)	1120	50.0	mg/kg	1000	ND	112	70-130			
Surrogate: o-Terphenyl	51		"	50.0		102	50-150			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

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 B9G2304 - EPA 3580

Matrix Spike Dup (B9G2304-MSD1)	Source: Y907298-01			Prepared: 07/23/2019 Analyzed: 07/23/2019						
Diesel (C10-C28)	980	50.0	mg/kg	1000	ND	98.0	70-130	13.1	35	
Surrogate: o-Terphenyl	40		"	50.0		79.4	50-150			

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

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 B9G2312 - EPA 5030 (soil)

Blank (B9G2312-BLK1)

Prepared: 07/23/2019 Analyzed: 07/24/2019

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.7	70-130			

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: Noble - Edward Hemple Unit 1

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 B9G2312 - EPA 5030 (soil)

LCS (B9G2312-BS1)

Prepared: 07/23/2019 Analyzed: 07/24/2019

Benzene	0.085	0.002	mg/kg	0.100		85.1	70-130			
Toluene	0.086	0.002	"	0.100		86.1	70-130			
Ethylbenzene	0.089	0.002	"	0.100		88.7	70-130			
m,p-Xylene	0.179	0.004	"	0.200		89.6	70-130			
o-Xylene	0.088	0.002	"	0.100		87.5	70-130			
Naphthalene	0.080	0.008	"	0.100		80.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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: Noble - Edward Hemple Unit 1

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 B9G2312 - EPA 5030 (soil)

Matrix Spike (B9G2312-MS1)	Source: Y907313-02			Prepared: 07/23/2019 Analyzed: 07/24/2019						
Benzene	0.094	0.002	mg/kg	0.100	ND	94.5	70-130			
Toluene	0.094	0.002	"	0.100	0.0007	93.9	70-130			
Ethylbenzene	0.094	0.002	"	0.100	ND	94.2	70-130			
m,p-Xylene	0.192	0.004	"	0.200	0.004	93.9	70-130			
o-Xylene	0.095	0.002	"	0.100	0.001	93.6	70-130			
Naphthalene	0.085	0.008	"	0.100	ND	85.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		100	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: Noble - Edward Hemple Unit 1

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 B9G2312 - EPA 5030 (soil)

Matrix Spike Dup (B9G2312-MSD1)	Source: Y907313-02			Prepared: 07/23/2019 Analyzed: 07/24/2019						
Benzene	0.077	0.002	mg/kg	0.100	ND	77.4	70-130	19.9	20	
Toluene	0.077	0.002	"	0.100	0.0007	76.7	70-130	20.2	20	QR-02
Ethylbenzene	0.076	0.002	"	0.100	ND	76.0	70-130	21.4	20	QR-02
m,p-Xylene	0.155	0.004	"	0.200	0.004	75.4	70-130	21.5	20	QR-02
o-Xylene	0.077	0.002	"	0.100	0.001	76.0	70-130	20.5	20	QR-02
Naphthalene	0.073	0.008	"	0.100	ND	73.1	70-130	15.6	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.5	70-130			

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: Noble - Edward Hemple Unit 1

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 B9G2313 - EPA 3580										
Blank (B9G2313-BLK1)										
					Prepared: 07/23/2019 Analyzed: 07/24/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-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: Noble - Edward Hemple Unit 1

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B9G2313 - EPA 3580

LCS (B9G2313-BS1)

Prepared: 07/23/2019 Analyzed: 07/24/2019

Diesel (C10-C28)	1050	50.0	mg/kg	1000		105	70-130			
Surrogate: o-Terphenyl	43		"	50.0		85.8	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: Noble - Edward Hemple Unit 1

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B9G2313 - EPA 3580

Matrix Spike (B9G2313-MS1)	Source: Y907335-01			Prepared: 07/23/2019 Analyzed: 07/24/2019						
Diesel (C10-C28)	1120	50.0	mg/kg	1000	18.5	110	70-130			
Surrogate: o-Terphenyl	51		"	50.0		102	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: Noble - Edward Hemple Unit 1

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
Batch B9G2313 - EPA 3580										
Matrix Spike Dup (B9G2313-MSD1)		Source: Y907335-01			Prepared: 07/23/2019 Analyzed: 07/24/2019					
Diesel (C10-C28)	1090	50.0	mg/kg	1000	18.5	108	70-130	2.25	35	
Surrogate: o-Terphenyl	50		"	50.0		99.3	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: Noble - Edward Hemple Unit 1

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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.



August 01, 2019

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Edward Hemple Unit 1

Project Number - [none]

Attached are your analytical results for Noble - Edward Hemple Unit 1 received by Origins Laboratory, Inc. July 25, 2019. This project is associated with Origins project number Y907391-01.

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: Noble - Edward Hemple Unit 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y907391-01	Water	July 25, 2019 11:23	07/25/2019 14:22
MW-02	Y907391-02	Water	July 25, 2019 11:38	07/25/2019 14:22
MW-03	Y907391-03	Water	July 25, 2019 11:52	07/25/2019 14:22
MW-04	Y907391-04	Water	July 25, 2019 12:06	07/25/2019 14:22
MW-05	Y907391-05	Water	July 25, 2019 12:21	07/25/2019 14:22
MW-06	Y907391-06	Water	July 25, 2019 12:48	07/25/2019 14:22
MW-07	Y907391-07	Water	July 25, 2019 12:36	07/25/2019 14:22
MW-08	Y907391-08	Water	July 25, 2019 12:38	07/25/2019 14:22
MW-09	Y907391-09	Water	July 25, 2019 12:28	07/25/2019 14:22
MW-10	Y907391-10	Water	July 25, 2019 12:10	07/25/2019 14:22
MW-11	Y907391-11	Water	July 25, 2019 12:19	07/25/2019 14:22
MW-12	Y907391-12	Water	July 25, 2019 11:07	07/25/2019 14:22
MW-13	Y907391-13	Water	July 25, 2019 10:58	07/25/2019 14:22
MW-14	Y907391-14	Water	July 25, 2019 10:48	07/25/2019 14:22

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: Noble - Edward Hemple Unit 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-15	Y907391-15	Water	July 25, 2019 10:38	07/25/2019 14:22
MW-16	Y907391-16	Water	July 25, 2019 10:28	07/25/2019 14:22
MW-17	Y907391-17	Water	July 25, 2019 11:18	07/25/2019 14:22
MW-18	Y907391-18	Water	July 25, 2019 11:26	07/25/2019 14:22
MW-19	Y907391-19	Water	July 25, 2019 11:34	07/25/2019 14:22
MW-20	Y907391-20	Water	July 25, 2019 11:43	07/25/2019 14:22
MW-21	Y907391-21	Water	July 25, 2019 12:01	07/25/2019 14:22
MW-22	Y907391-22	Water	July 25, 2019 11:52	07/25/2019 14:22

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: Noble - Edward Hemple Unit 1

ORIGINS
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1907391

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page 1 of 3

Client: LABLG ENV CONSULTING Project Manager: MARTIN ECKERT III
 Address: 8000 W 44TH AVE Project Name: EDWARD HEMPLE UNIT 1
WHEAT RIDGE, CO Project Number: _____
 Telephone Number: 303-433-0474 Samples Collected By: KP/LC
 Email Address: MCE3@LABLG-ENVIR.CO

Fax: 303.265.9645 | Phone: 303.433.1322 | Denver, CO 80211

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other			
MW-01	7-25-19	1123	3	X				X					1	
MW-02		1138											2	
MW-03		1152											3	
MW-04		1206											4	
MW-05		1221											5	
MW-06		1248											6	
MW-07		1321											7	
MW-08		1338											8	
MW-09		1328											9	
MW-10		1210											10	
Relinquished by: Gene Condon	Date: 7/25/19	Time: 1422	# of Containers	Received By: 			Date: 7/25/19	Time: 1422	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/>		Standard <input checked="" type="checkbox"/>			
Relinquished by:	Date:	Time:		Received By:			Date:	Time:						

Date Results Needed NOBLE

Temp Received- 41

Bill To: ACO9

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

ORIGINS
 LABORATORY, INC

Y907391

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page 2 of 3

Client: Eagle Envs Consulting
 Address: 8000 W 44th Ave
Wheat Ridge, CO 80033
 Telephone Number: 303-433-0479
 Email Address: mc3@eagle-envi.co.com

Project Manager: Martin Eckert III
 Project Name: Edward Hemple Unit 1
 Project Number: —
 Samples Collected By: KF/GEC

Fax: 303.265.9645

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions			
				HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other						
MW-11	7/25/19	1219	3	X			X									
MW-12		1107														
MW-13		1058														
MW-14		1048														
MW-15		1038														
MW-16		1028														
MW-17		1118														
MW-18		1126														
MW-19		1134														
MW-20		1143														
Relinquished By: <u>Ginae Congdon</u>	Date: <u>7/25/19</u>	Time: <u>1422</u>	# of Containers: <u>3</u>	Preservative: <u>HCl</u>	Matrix: <u>Groundwater</u>	Analysis: <u>BTEX</u>	Received By: <u>[Signature]</u>	Date: <u>7/25/19</u>	Time: <u>1422</u>	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>						

Date Results Needed N/A

Temp Received: 4.1

* Bill to Jacob

Origins Laboratory, Inc.

Jefe Pellegrini

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

ORIGINS
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Y907391

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page 3 of 3

Client: EAGLE ENV. CONSULTING
 Address: 8000 W 44TH AVE
WHEAT RIDGE, CO
 Telephone Number: 303-433-0479
 Email Address: MILES@EAGLE-ENVIRONMENT.COM

Project Manager: MARTIN ECKERT III
 Project Name: EDWARD HEMPLE UNIT 1
 Project Number: EA/66
 Samples Collected By: EA/66

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Canister #			Other	
MW-21	7-25-19	1120	3	X				X					1	
MW-22	7-25-19	1152	3	X				X					2	
													3	
													4	
													5	
													6	
													7	
													8	
													9	
													10	

Relinquished By: Gina Longan
 Date: 7/25/19
 Time: 1423

Relinquished By: [Signature]
 Date: 7/25/19
 Time: 1423

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

Temp Received: 4.1
 Date Results Needed: N/A

Origins Laboratory, Inc.

Jefe Pellegrini

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y907391

Client: Eagle
 Client Project ID: Edward Hemple

Checklist Completed by: JG
 Date/time completed: 7/25/2019

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 / 4.1 °C _____ / _____ °C _____ / _____ °C _____ / _____ °C (Describe)

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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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) [Signature] Date/Time Reviewed 7/26/19

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-01

7/25/2019 11:23:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907391-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G2603	KDK	07/26/2019	07/27/2019	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	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.5 %	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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-02

7/25/2019 11:38:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907391-02 (Water)

BTEX by EPA 8260D

Benzene	1200	20.0	ug/L	20	B9G2603	KDK	07/26/2019	07/29/2019	
Toluene	3610	20.0	"	"	"	KDK	"	"	
Ethylbenzene	78.7	1.00	"	1	"	KDK	"	07/27/2019	
Xylenes, total	2260	20.0	"	20	"	KDK	"	07/29/2019	
Surrogate: 1,2-Dichloroethane-d4	102 %			70-130		"	"	07/27/2019	
Surrogate: Toluene-d8	103 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			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: Noble - Edward Hemple Unit 1

MW-03

7/25/2019 11:52:00AM

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

Origins Laboratory, Inc.
Y907391-03 (Water)

BTEX by EPA 8260D

Benzene	398	4.00	ug/L	4	B9G2603	KDK	07/26/2019	07/29/2019	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"		07/27/2019	
Surrogate: Toluene-d8	101 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	100 %	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: Noble - Edward Hemple Unit 1

MW-04

7/25/2019 12:06:00PM

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

Origins Laboratory, Inc.
Y907391-04 (Water)

BTEX by EPA 8260D

Benzene	3840	20.0	ug/L	20	B9G2603	KDK	07/26/2019	07/29/2019	
Toluene	ND	1.00	"	1	"	KDK	"	07/27/2019	U
Ethylbenzene	1.13	1.00	"	"	"	KDK	"	"	
Xylenes, total	6.51	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"		"	
Surrogate: Toluene-d8	98.8 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	99.2 %	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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-05

7/25/2019 12:21:00PM

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

Origins Laboratory, Inc.
Y907391-05 (Water)

BTEX by EPA 8260D

Benzene	9.19	1.00	ug/L	1	B9G2603	KDK	07/26/2019	07/27/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	2.44	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.0 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-06

7/25/2019 12:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907391-06 (Water)

BTEX by EPA 8260D

Benzene	3250	20.0	ug/L	20	B9G2603	KDK	07/26/2019	07/29/2019	
Toluene	8900	200	"	200	"	KDK	"	07/30/2019	
Ethylbenzene	454	20.0	"	20	"	KDK	"	07/29/2019	
Xylenes, total	8010	20.0	"	"	"	KDK	"	"	
Surrogate: 1,2-Dichloroethane-d4	105 %			70-130		"	"	07/27/2019	
Surrogate: Toluene-d8	107 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

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: Noble - Edward Hemple Unit 1

MW-07

7/25/2019 12:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907391-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G2603	KDK	07/26/2019	07/27/2019	U
Toluene	2.28	1.00	"	"	"	KDK	"	"	
Ethylbenzene	38.9	1.00	"	"	"	KDK	"	"	
Xylenes, total	278	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	104 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-08

7/25/2019 12:38:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907391-08 (Water)

BTEX by EPA 8260D

Benzene	411	10.0	ug/L	10	B9G2603	KDK	07/26/2019	07/29/2019	
Toluene	ND	1.00	"	1	"	KDK	"	07/27/2019	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	4190	10.0	"	10	"	KDK	"	07/29/2019	

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"		07/27/2019	
Surrogate: Toluene-d8	104 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"		"	

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: Noble - Edward Hemple Unit 1

MW-09

7/25/2019 12:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907391-09 (Water)

BTEX by EPA 8260D

Benzene	19800	200	ug/L	200	B9G2603	KDK	07/26/2019	07/30/2019	
Toluene	22900	200	"	"	"	KDK	"	"	
Ethylbenzene	903	20.0	"	20	"	KDK	"	07/29/2019	
Xylenes, total	15700	200	"	200	"	KDK	"	07/30/2019	
Surrogate: 1,2-Dichloroethane-d4	81.4 %			70-130		"	"	07/27/2019	
Surrogate: Toluene-d8	105 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	97.9 %			70-130		"	"	"	

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: Noble - Edward Hemple Unit 1

MW-10

7/25/2019 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907391-10 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G2603	KDK	07/26/2019	07/27/2019	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	96.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.9 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-11

7/25/2019 12:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907391-11 (Water)

BTEX by EPA 8260D

Benzene	1.84	1.00	ug/L	1	B9G2603	KDK	07/26/2019	07/27/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-12

7/25/2019 11:07:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907391-12 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G2603	KDK	07/26/2019	07/27/2019	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	97.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-13

7/25/2019 10:58:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907391-13 (Water)

BTEX by EPA 8260D

Benzene	94.5	1.00	ug/L	1	B9G2603	KDK	07/26/2019	07/27/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-14

7/25/2019 10:48:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907391-14 (Water)

BTEX by EPA 8260D

Benzene	2430	100	ug/L	100	B9G2603	KDK	07/26/2019	07/30/2019	
Toluene	ND	1.00	"	1	"	KDK	"	07/27/2019	U
Ethylbenzene	12.5	1.00	"	"	"	KDK	"	"	
Xylenes, total	44.4	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130			"	"		"	
Surrogate: Toluene-d8	100 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"		"	

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-15

7/25/2019 10:38:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907391-15 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G2603	KDK	07/26/2019	07/27/2019	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	97.6 %	70-130				"	"	"	
Surrogate: Toluene-d8	101 %	70-130				"	"	"	
Surrogate: 4-Bromofluorobenzene	99.8 %	70-130				"	"	"	

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-16

7/25/2019 10:28:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907391-16 (Water)

BTEX by EPA 8260D

Benzene	32.0	1.00	ug/L	1	B9G2603	KDK	07/26/2019	07/27/2019	
Toluene	701	4.00	"	4	"	KDK	"	07/29/2019	
Ethylbenzene	45.4	1.00	"	1	"	KDK	"	07/27/2019	
Xylenes, total	1750	4.00	"	4	"	KDK	"	07/29/2019	
Surrogate: 1,2-Dichloroethane-d4	96.0 %			70-130		"	"	07/27/2019	
Surrogate: Toluene-d8	104 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4 %			70-130		"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-17

7/25/2019 11:18:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907391-17 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G2603	KDK	07/26/2019	07/27/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	07/29/2019	U

Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130			"	"		07/27/2019	
Surrogate: Toluene-d8	101 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"		"	

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-18

7/25/2019 11:26:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907391-18 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G2603	KDK	07/26/2019	07/27/2019	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	96.8 %	70-130				"	"	"	
Surrogate: Toluene-d8	100 %	70-130				"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130				"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-19

7/25/2019 11:34:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907391-19 (Water)

BTEX by EPA 8260D

Benzene	26.2	1.00	ug/L	1	B9G2603	KDK	07/26/2019	07/27/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-20

7/25/2019 11:43:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907391-20 (Water)

BTEX by EPA 8260D

Benzene	372	4.00	ug/L	4	B9G2603	KDK	07/26/2019	07/29/2019	
Toluene	5.29	1.00	"	1	"	KDK	"	07/27/2019	
Ethylbenzene	8.08	1.00	"	"	"	KDK	"	"	
Xylenes, total	118	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-21

7/25/2019 12:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907391-21 (Water)

BTEX by EPA 8260D

Benzene	17.7	1.00	ug/L	1	B9G2602	KDK	07/26/2019	07/26/2019	
Toluene	1.28	1.00	"	"	"	KDK	"	"	
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-22

7/25/2019 11:52:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907391-22 (Water)

BTEX by EPA 8260D

Benzene	7.33	1.00	ug/L	1	B9G2602	KDK	07/26/2019	07/26/2019	
Toluene	55.1	1.00	"	"	"	KDK	"	"	
Ethylbenzene	3.15	1.00	"	"	"	KDK	"	"	
Xylenes, total	122	1.00	"	"	"	KDK	"	"	
Surrogate: 1,2-Dichloroethane-d4	102 %			70-130		"	"	"	
Surrogate: Toluene-d8	101 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	98.2 %			70-130		"	"	"	

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: Noble - Edward Hemple Unit 1

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 B9G2602 - EPA 5030B (Water)

Blank (B9G2602-BLK1)

Prepared: 07/26/2019 Analyzed: 07/26/2019

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	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	70-130			

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: Noble - Edward Hemple Unit 1

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 B9G2602 - EPA 5030B (Water)

LCS (B9G2602-BS1)

Prepared: 07/26/2019 Analyzed: 07/26/2019

Benzene	55.4	1.00	ug/L	50.0		111	70-130			
Toluene	54.3	1.00	"	50.0		109	70-130			
Ethylbenzene	54.5	1.00	"	50.0		109	70-130			
m,p-Xylene	111	2.00	"	100		111	70-130			
o-Xylene	55.6	1.00	"	50.0		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.1	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	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: Noble - Edward Hemple Unit 1

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 B9G2602 - EPA 5030B (Water)

Matrix Spike (B9G2602-MS1)	Source: Y907391-21			Prepared: 07/26/2019 Analyzed: 07/26/2019						
Benzene	561	1.00	ug/L	50.0	17.7	NR	70-130			QM-07
Toluene	54.3	1.00	"	50.0	1.28	106	70-130			
Ethylbenzene	52.6	1.00	"	50.0	0.270	105	70-130			
m,p-Xylene	106	2.00	"	100	1.11	105	70-130			
o-Xylene	53.1	1.00	"	50.0	0.640	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.4	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	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: Noble - Edward Hemple Unit 1

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 B9G2602 - EPA 5030B (Water)

Matrix Spike Dup (B9G2602-MSD1)	Source: Y907391-21			Prepared: 07/26/2019 Analyzed: 07/26/2019						
Benzene	526	1.00	ug/L	50.0	17.7	NR	70-130	6.51	20	QM-07
Toluene	53.9	1.00	"	50.0	1.28	105	70-130	0.776	20	
Ethylbenzene	52.9	1.00	"	50.0	0.270	105	70-130	0.569	20	
m,p-Xylene	108	2.00	"	100	1.11	107	70-130	1.24	20	
o-Xylene	54.0	1.00	"	50.0	0.640	107	70-130	1.66	20	
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	70-130			

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: Noble - Edward Hemple Unit 1

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 B9G2603 - EPA 5030B (Water)

Blank (B9G2603-BLK1)

Prepared: 07/26/2019 Analyzed: 07/27/2019

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	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	63		"	62.5		102	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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

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 B9G2603 - EPA 5030B (Water)

LCS (B9G2603-BS1)

Prepared: 07/26/2019 Analyzed: 07/27/2019

Benzene	52.4	1.00	ug/L	50.0		105	70-130			
Toluene	51.8	1.00	"	50.0		104	70-130			
Ethylbenzene	51.0	1.00	"	50.0		102	70-130			
m,p-Xylene	103	2.00	"	100		103	70-130			
o-Xylene	55.3	1.00	"	50.0		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.8	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

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 B9G2603 - EPA 5030B (Water)

Matrix Spike (B9G2603-MS1)	Source: Y907391-01			Prepared: 07/26/2019 Analyzed: 07/27/2019						
Benzene	47.5	1.00	ug/L	50.0	ND	95.1	70-130			
Toluene	47.2	1.00	"	50.0	ND	94.3	70-130			
Ethylbenzene	47.9	1.00	"	50.0	0.080	95.6	70-130			
m,p-Xylene	96.3	2.00	"	100	ND	96.3	70-130			
o-Xylene	50.8	1.00	"	50.0	ND	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.2	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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: Noble - Edward Hemple Unit 1

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 B9G2603 - EPA 5030B (Water)

Matrix Spike Dup (B9G2603-MSD1)	Source: Y907391-01			Prepared: 07/26/2019 Analyzed: 07/27/2019						
Benzene	52.9	1.00	ug/L	50.0	ND	106	70-130	10.6	20	
Toluene	52.6	1.00	"	50.0	ND	105	70-130	11.0	20	
Ethylbenzene	52.1	1.00	"	50.0	0.080	104	70-130	8.46	20	
m,p-Xylene	107	2.00	"	100	ND	107	70-130	10.5	20	
o-Xylene	55.5	1.00	"	50.0	ND	111	70-130	8.73	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.9	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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: Noble - Edward Hemple Unit 1

Notes and Definitions

U Sample is Non-Detect.

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.

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.

Jen Pellegrini For Noelle Doyle Mathis, President



September 06, 2019

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Edward Hemple Unit 1

Project Number - [none]

Attached are your analytical results for Noble - Edward Hemple Unit 1 received by Origins Laboratory, Inc. August 30, 2019. This project is associated with Origins project number Y909009-01.

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: Noble - Edward Hemple Unit 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-23@2.5-5'	Y909009-01	Soil	August 30, 2019 8:18	08/30/2019 14:23
MW-24@5-7.5'	Y909009-02	Soil	August 30, 2019 8:35	08/30/2019 14:23
MW-25@5-7.5'	Y909009-03	Soil	August 30, 2019 8:48	08/30/2019 14:23
MW-26@5-7.5'	Y909009-04	Soil	August 30, 2019 9:05	08/30/2019 14:23
MW-27@5-7.5'	Y909009-05	Soil	August 30, 2019 9:20	08/30/2019 14:23
MW-28@10-12.5'	Y909009-06	Soil	August 30, 2019 9:43	08/30/2019 14:23
MW-29@2.5-5'	Y909009-07	Soil	August 30, 2019 10:00	08/30/2019 14:23
MW-30@0-2.5'	Y909009-08	Soil	August 30, 2019 10:07	08/30/2019 14:23
MW-31@0-2.5'	Y909009-09	Soil	August 30, 2019 10:34	08/30/2019 14:23
MW-32@5-7.5'	Y909009-10	Soil	August 30, 2019 10:58	08/30/2019 14:23
MW-33@7.5-10'	Y909009-11	Soil	August 30, 2019 11:12	08/30/2019 14:23
MW-34@2.5-5'	Y909009-12	Soil	August 30, 2019 11:47	08/30/2019 14:23
MW-35@0-2.5'	Y909009-13	Soil	August 30, 2019 12:05	08/30/2019 14:23

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: Noble - Edward Hemple Unit 1

www.originslaboratory.com
 499009
 page 1 of 2

Project Manager: Martin Eckert III
 Project Name: Edward Hemple Unit 1
 Project Number:
 Samples Collected By: GC

Client: Eagle Env. Consulting
 Address: 8000 W 44th Ave
Wheat Ridge, CO 80033
 Telephone Number: 303-435-0479
 Email Address: mce3@eagle-enviro.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis			Sample Instructions			
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	BTEX	GR0		DRO	Naphthalene	
MW-23@2.5'	8/30/19	0818	2	X				X					X	X	X		
MW-24@5-7.5'		0835															
MW-25@5-7.5'		0848															
MW-26@5-7.5'		0905															
MW-27@5-7.5'		0920															
MW-28@10-12.5'		0943															
MW-29@2.5-5'		1000															
MW-30@2.5'		1007															
MW-31@2.5'		1034															
MW-32@5-7.5'		1058															
Relinquished By: <u>Grace Longson</u>	Date: <u>8/30/19</u>	Time: <u>1423</u>	Received By: <u>[Signature]</u>	Date: <u>8/30/19</u>	Time: <u>1423</u>	Turnaround Time: <input type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> Standard											
Relinquished By:	Date:	Time:	Received By:	Date:	Time:												

Temp Received: 4.1
 Date Results Needed: 4/1/20
 Date Results Needed: 4/1/20

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

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 7909208

Client: Eagle Env

Client Project ID: Noble - Edward Hemple Unit 1

Checklist Completed by: D. Lee

Shipped Via: HD

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

Date/time completed: 9/3/19

Airbill #: _____

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

Cooler Number/Temperature: 1 / 4.1 °C 1 / _____ °C 1 / _____ °C 1 / _____ °C (Describe)

Thermometer ID: 1003

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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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) CP

Date/Time Reviewed 9/4/19

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: Noble - Edward Hemple Unit 1

MW-23@2.5-5'
8/30/2019 8:18:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909009-01 (Soil)

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

Diesel (C10-C28)	71.8	50.0	mg/kg	1	B910309	KDK	09/03/2019	09/03/2019	
Surrogate: o-Terphenyl	94.4 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	146	5.00	mg/kg	25	B910308	KDK	09/03/2019	09/03/2019	
Benzene	0.072	0.050	"	"	"	KDK	"	"	
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	0.455	0.050	"	"	"	KDK	"	"	
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	84.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.2 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-24@5-7.5'
8/30/2019 8:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909009-02 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B910309	KDK	09/03/2019	09/03/2019	U
Surrogate: o-Terphenyl	81.4 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	40.1	5.00	mg/kg	25	B910308	KDK	09/03/2019	09/03/2019	
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	88.9 %	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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-25@5-7.5'
8/30/2019 8:48:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909009-03 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B910309	KDK	09/03/2019	09/03/2019	U
Surrogate: <i>o</i> -Terphenyl	78.1 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	64.0	5.00	mg/kg	25	B910308	KDK	09/03/2019	09/03/2019	
Benzene	0.684	0.050	"	"	"	KDK	"	"	
Toluene	2.02	0.050	"	"	"	KDK	"	"	
Ethylbenzene	0.144	0.050	"	"	"	KDK	"	"	
Xylenes, total	2.48	0.050	"	"	"	KDK	"	"	
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	89.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-26@5-7.5'
8/30/2019 9:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909009-04 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B910309	KDK	09/03/2019	09/03/2019	U
<i>Surrogate: o-Terphenyl</i>	79.8 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B910308	KDK	09/03/2019	09/03/2019	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	94.1 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	87.6 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	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
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-27@5-7.5'
8/30/2019 9:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909009-05 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B910309	KDK	09/03/2019	09/03/2019	U
Surrogate: o-Terphenyl	82.3 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B910308	KDK	09/03/2019	09/04/2019	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	0.209	0.050	"	"	"	KDK	"	"	
Naphthalene	0.289	0.200	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	75.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	87.7 %	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: Noble - Edward Hemple Unit 1

MW-28@10-12.5'
8/30/2019 9:43:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909009-06 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B910309	KDK	09/03/2019	09/05/2019	U
Surrogate: <i>o</i> -Terphenyl	80.5 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	0.752	0.200	mg/kg	1	B910308	KDK	09/03/2019	09/03/2019	
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	0.004	0.002	"	"	"	KDK	"	"	
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	0.022	0.002	"	"	"	KDK	"	"	
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U
Surrogate: 1,2-Dichloroethane-d4	89.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	89.3 %	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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-29@2.5-5'
8/30/2019 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909009-07 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B910309	KDK	09/03/2019	09/05/2019	U
Surrogate: <i>o</i> -Terphenyl	73.9 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B910308	KDK	09/03/2019	09/03/2019	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	87.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.5 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-30@0-2.5'
8/30/2019 10:07:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909009-08 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B910309	KDK	09/03/2019	09/05/2019	U
Surrogate: <i>o</i> -Terphenyl	78.4 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B910308	KDK	09/03/2019	09/04/2019	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.6 %	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: Noble - Edward Hemple Unit 1

MW-31@0-2.5'
8/30/2019 10:34:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909009-09 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B910309	KDK	09/03/2019	09/05/2019	U
Surrogate: <i>o</i> -Terphenyl	81.2 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B910308	KDK	09/03/2019	09/04/2019	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	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: Noble - Edward Hemple Unit 1

MW-32@5-7.5'
8/30/2019 10:58:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909009-10 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B910309	KDK	09/03/2019	09/05/2019	U
Surrogate: o-Terphenyl	77.9 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B910308	KDK	09/03/2019	09/05/2019	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-33@7.5-10'
8/30/2019 11:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909009-11 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B910309	KDK	09/03/2019	09/05/2019	U
<i>Surrogate: o-Terphenyl</i>	70.7 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B910308	KDK	09/03/2019	09/05/2019	U
Benzene	ND	0.002	"	"	"	KDK	"	09/05/2019	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	108 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	101 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	99.4 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-34@2.5-5'
8/30/2019 11:47:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909009-12 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B910309	KDK	09/03/2019	09/05/2019	U
<i>Surrogate: o-Terphenyl</i>	83.9 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B910308	KDK	09/03/2019	09/05/2019	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	106 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	101 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	99.7 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-35@0-2.5'
8/30/2019 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909009-13 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B910309	KDK	09/03/2019	09/03/2019	U
<i>Surrogate: o-Terphenyl</i>	80.4 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B910308	KDK	09/03/2019	09/05/2019	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	109 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	100 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	99.1 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

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 B9I0308 - EPA 5030 (soil)

Blank (B9I0308-BLK1)

Prepared: 09/03/2019 Analyzed: 09/03/2019

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.1	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		92.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.8	70-130			

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: Noble - Edward Hemple Unit 1

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 B9I0308 - EPA 5030 (soil)

LCS (B9I0308-BS1)

Prepared: 09/03/2019 Analyzed: 09/03/2019

Benzene	0.106	0.002	mg/kg	0.100		106	70-130			
Toluene	0.096	0.002	"	0.100		95.9	70-130			
Ethylbenzene	0.097	0.002	"	0.100		97.0	70-130			
m,p-Xylene	0.168	0.004	"	0.200		83.8	70-130			
o-Xylene	0.091	0.002	"	0.100		91.4	70-130			
Naphthalene	0.091	0.008	"	0.100		91.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.1	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: Noble - Edward Hemple Unit 1

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 B9I0308 - EPA 5030 (soil)

Matrix Spike (B9I0308-MS1)	Source: Y909009-07			Prepared: 09/03/2019 Analyzed: 09/03/2019						
Benzene	0.130	0.002	mg/kg	0.100	0.0007	129	70-130			
Toluene	0.097	0.002	"	0.100	0.0008	95.9	70-130			
Ethylbenzene	0.091	0.002	"	0.100	ND	91.4	70-130			
m,p-Xylene	0.159	0.004	"	0.200	ND	79.4	70-130			
o-Xylene	0.089	0.002	"	0.100	ND	88.9	70-130			
Naphthalene	0.084	0.008	"	0.100	0.003	80.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		86.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.0	70-130			

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: Noble - Edward Hemple Unit 1

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 B910308 - EPA 5030 (soil)

Matrix Spike Dup (B910308-MSD1)	Source: Y909009-07			Prepared: 09/03/2019 Analyzed: 09/03/2019						
Benzene	0.144	0.002	mg/kg	0.100	0.0007	143	70-130	10.4	20	QM-07
Toluene	0.108	0.002	"	0.100	0.0008	107	70-130	11.3	20	
Ethylbenzene	0.102	0.002	"	0.100	ND	102	70-130	10.8	20	
m,p-Xylene	0.178	0.004	"	0.200	ND	89.0	70-130	11.4	20	
o-Xylene	0.099	0.002	"	0.100	ND	99.2	70-130	11.0	20	
Naphthalene	0.096	0.008	"	0.100	0.003	93.4	70-130	14.2	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.8	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		86.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.8	70-130			

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Edward Hemple Unit 1

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 B910309 - EPA 3580

Blank (B910309-BLK1)

Prepared: 09/03/2019 Analyzed: 09/03/2019

Diesel (C10-C28)	ND	50.0	mg/kg							U
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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: Noble - Edward Hemple Unit 1

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 B910309 - EPA 3580

LCS (B910309-BS1)

Prepared: 09/03/2019 Analyzed: 09/03/2019

Diesel (C10-C28)	942	50.0	mg/kg	1000		94.2	70-130			
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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: Noble - Edward Hemple Unit 1

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 B910309 - EPA 3580

Matrix Spike (B910309-MS1)

Source: Y909009-13

Prepared: 09/03/2019 Analyzed: 09/03/2019

Diesel (C10-C28)	781	50.0	mg/kg	1000	9.55	77.1	70-130			
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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: Noble - Edward Hemple Unit 1

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 B910309 - EPA 3580

Matrix Spike Dup (B910309-MSD1)

Source: Y909009-13

Prepared: 09/03/2019 Analyzed: 09/03/2019

Diesel (C10-C28)	985	50.0	mg/kg	1000	9.55	97.5	70-130	23.1	35	
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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Edward Hemple Unit 1

Notes and Definitions

U Sample is Non-Detect.

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.

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.

Jen Pellegrini For Noelle Doyle Mathis, President



September 11, 2019

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Edward Hemple Unit 1

Project Number - [none]

Attached are your analytical results for Noble - Edward Hemple Unit 1 received by Origins Laboratory, Inc. September 09, 2019. This project is associated with Origins project number Y909105-01.

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: Noble - Edward Hemple Unit 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-23	Y909105-01	Water	September 9, 2019 11:52	09/09/2019 15:43
MW-24	Y909105-02	Water	September 9, 2019 12:00	09/09/2019 15:43
MW-25	Y909105-03	Water	September 9, 2019 12:10	09/09/2019 15:43
MW-26	Y909105-04	Water	September 9, 2019 12:19	09/09/2019 15:43
MW-27	Y909105-05	Water	September 9, 2019 12:30	09/09/2019 15:43
MW-28	Y909105-06	Water	September 9, 2019 13:37	09/09/2019 15:43
MW-29	Y909105-07	Water	September 9, 2019 13:39	09/09/2019 15:43
MW-30	Y909105-08	Water	September 9, 2019 13:30	09/09/2019 15:43
MW-31	Y909105-09	Water	September 9, 2019 13:22	09/09/2019 15:43
MW-32	Y909105-10	Water	September 9, 2019 13:14	09/09/2019 15:43
MW-33	Y909105-11	Water	September 9, 2019 12:59	09/09/2019 15:43
MW-34	Y909105-12	Water	September 9, 2019 13:47	09/09/2019 15:43
MW-35	Y909105-13	Water	September 9, 2019 12:50	09/09/2019 15:43

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: Noble - Edward Hemple Unit 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y909105
 Checklist Completed by: JG
 Date/time completed: 9/9/2019

Client: Eagle
 Client Project ID: Edward Hemple Unit 1
 Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)
 Cooler Number/Temperature: 1 5.3 °C / _____ °C / _____ °C / _____ °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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input 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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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: [Signature] Date/Time Reviewed: 9/10/19

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-23

9/9/2019 11:52:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909105-01 (Water)

BTEX by EPA 8260D

Benzene	117	1.00	ug/L	1	B9I1002	KDK	09/10/2019	09/10/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	98.6	1.00	"	"	"	KDK	"	"	
Xylenes, total	26.4	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	72.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	83.3 %	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: Noble - Edward Hemple Unit 1

MW-24
9/9/2019 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909105-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9I1002	KDK	09/10/2019	09/10/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	29.6	1.00	"	"	"	KDK	"	"	
Xylenes, total	135	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	75.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	83.2 %	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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-25

9/9/2019 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909105-03 (Water)

BTEX by EPA 8260D

Benzene	3630	50.0	ug/L	50	B9I1002	KDK	09/10/2019	09/10/2019	
Toluene	7000	50.0	"	"	"	KDK	"	"	
Ethylbenzene	218	50.0	"	"	"	KDK	"	"	
Xylenes, total	3450	50.0	"	"	"	KDK	"	"	
Surrogate: 1,2-Dichloroethane-d4	75.8 %			70-130		"	"	"	
Surrogate: Toluene-d8	97.3 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	84.8 %			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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-26
9/9/2019 12:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909105-04 (Water)

BTEX by EPA 8260D

Benzene	32.8	1.00	ug/L	1	B9I1002	KDK	09/10/2019	09/10/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	77.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	82.5 %	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: Noble - Edward Hemple Unit 1

MW-27

9/9/2019 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909105-05 (Water)

BTEX by EPA 8260D

Benzene	25.8	1.00	ug/L	1	B9I1002	KDK	09/10/2019	09/10/2019	
Toluene	2.85	1.00	"	"	"	KDK	"	"	
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	372	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	73.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	85.7 %	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: Noble - Edward Hemple Unit 1

MW-28

9/9/2019 1:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909105-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9I1002	KDK	09/10/2019	09/10/2019	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	75.9 %	70-130				"	"	"	
Surrogate: Toluene-d8	98.2 %	70-130				"	"	"	
Surrogate: 4-Bromofluorobenzene	83.3 %	70-130				"	"	"	

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: Noble - Edward Hemple Unit 1

MW-29

9/9/2019 1:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909105-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9I1002	KDK	09/10/2019	09/10/2019	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	73.6 %	70-130				"	"	"	
Surrogate: Toluene-d8	95.9 %	70-130				"	"	"	
Surrogate: 4-Bromofluorobenzene	83.7 %	70-130				"	"	"	

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: Noble - Edward Hemple Unit 1

MW-30

9/9/2019 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909105-08 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9I1002	KDK	09/10/2019	09/10/2019	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	76.6 %	70-130				"	"	"	
Surrogate: Toluene-d8	98.3 %	70-130				"	"	"	
Surrogate: 4-Bromofluorobenzene	83.3 %	70-130				"	"	"	

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: Noble - Edward Hemple Unit 1

MW-31

9/9/2019 1:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909105-09 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9I1002	KDK	09/10/2019	09/10/2019	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	76.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	83.0 %	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: Noble - Edward Hemple Unit 1

MW-32

9/9/2019 1:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909105-10 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9I1002	KDK	09/10/2019	09/10/2019	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	76.9 %	70-130				"	"	"	
Surrogate: Toluene-d8	97.0 %	70-130				"	"	"	
Surrogate: 4-Bromofluorobenzene	82.2 %	70-130				"	"	"	

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: Noble - Edward Hemple Unit 1

MW-33

9/9/2019 12:59:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909105-11 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9I1002	KDK	09/10/2019	09/10/2019	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	76.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	82.4 %	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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-34

9/9/2019 1:47:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909105-12 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9I1002	KDK	09/10/2019	09/10/2019	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	75.9 %	70-130				"	"	"	
Surrogate: Toluene-d8	96.7 %	70-130				"	"	"	
Surrogate: 4-Bromofluorobenzene	83.1 %	70-130				"	"	"	

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: Noble - Edward Hemple Unit 1

MW-35
9/9/2019 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909105-13 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9I1002	KDK	09/10/2019	09/10/2019	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	75.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	83.9 %	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: Noble - Edward Hemple Unit 1

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 B9I1002 - EPA 5030B (Water)

Blank (B9I1002-BLK1)

Prepared: 09/10/2019 Analyzed: 09/10/2019

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	48		"	62.5	76.2		70-130			
Surrogate: Toluene-d8	60		"	62.5	95.6		70-130			
Surrogate: 4-Bromofluorobenzene	51		"	62.5	81.0		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: Noble - Edward Hemple Unit 1

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 B9I1002 - EPA 5030B (Water)

LCS (B9I1002-BS1)

Prepared: 09/10/2019 Analyzed: 09/10/2019

Benzene	45.0	1.00	ug/L	50.0		90.0	70-130			
Toluene	50.7	1.00	"	50.0		101	70-130			
Ethylbenzene	42.3	1.00	"	50.0		84.5	70-130			
m,p-Xylene	84.1	2.00	"	100		84.1	70-130			
o-Xylene	41.0	1.00	"	50.0		82.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	46		"	62.5		74.0	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	53		"	62.5		84.6	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: Noble - Edward Hemple Unit 1

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 B911002 - EPA 5030B (Water)

Matrix Spike (B911002-MS1)	Source: Y909105-01			Prepared: 09/10/2019 Analyzed: 09/10/2019						
Benzene	195	1.00	ug/L	50.0	117	157	70-130			QM-07
Toluene	56.0	1.00	"	50.0	ND	112	70-130			
Ethylbenzene	168	1.00	"	50.0	98.6	139	70-130			QM-07
m,p-Xylene	128	2.00	"	100	26.4	102	70-130			
o-Xylene	45.7	1.00	"	50.0	0.130	91.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	43		"	62.5		68.9	70-130			QM-07
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	53		"	62.5		85.1	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: Noble - Edward Hemple Unit 1

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 B911002 - EPA 5030B (Water)

Matrix Spike Dup (B911002-MSD1)	Source: Y909105-01			Prepared: 09/10/2019 Analyzed: 09/10/2019						
Benzene	195	1.00	ug/L	50.0	117	156	70-130	0.0667	20	QM-07
Toluene	55.4	1.00	"	50.0	ND	111	70-130	1.11	20	
Ethylbenzene	167	1.00	"	50.0	98.6	137	70-130	0.734	20	QM-07
m,p-Xylene	126	2.00	"	100	26.4	99.8	70-130	1.48	20	
o-Xylene	43.8	1.00	"	50.0	0.130	87.4	70-130	4.04	20	
Surrogate: 1,2-Dichloroethane-d4	45		"	62.5		72.2	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	53		"	62.5		84.4	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

Martin C Eckert III
Project Number: [none]
Project: Noble - Edward Hemple Unit 1

Notes and Definitions

U Sample is Non-Detect.

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.

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.



November 12, 2019

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Edward Hemple Unit 1

Project Number - [none]

Attached are your analytical results for Noble - Edward Hemple Unit 1 received by Origins Laboratory, Inc. November 06, 2019. This project is associated with Origins project number Y911084-01.

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: Noble - Edward Hemple Unit 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y911084-01	Water	November 6, 2019 10:45	11/06/2019 14:21
MW-02	Y911084-02	Water	November 6, 2019 10:39	11/06/2019 14:21
MW-03	Y911084-03	Water	November 6, 2019 12:39	11/06/2019 14:21
MW-04	Y911084-04	Water	November 6, 2019 12:47	11/06/2019 14:21
MW-05	Y911084-05	Water	November 6, 2019 12:18	11/06/2019 14:21
MW-06	Y911084-06	Water	November 6, 2019 12:52	11/06/2019 14:21
MW-07	Y911084-07	Water	November 6, 2019 12:30	11/06/2019 14:21
MW-08	Y911084-08	Water	November 6, 2019 11:58	11/06/2019 14:21
MW-09	Y911084-09	Water	November 6, 2019 11:20	11/06/2019 14:21
MW-10	Y911084-10	Water	November 6, 2019 11:06	11/06/2019 14:21
MW-11	Y911084-11	Water	November 6, 2019 12:28	11/06/2019 14:21
MW-12	Y911084-12	Water	November 6, 2019 12:21	11/06/2019 14:21
MW-13	Y911084-13	Water	November 6, 2019 12:33	11/06/2019 14:21
MW-14	Y911084-14	Water	November 6, 2019 12:05	11/06/2019 14:21

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: Noble - Edward Hemple Unit 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-15	Y911084-15	Water	November 6, 2019 11:56	11/06/2019 14:21
MW-16	Y911084-16	Water	November 6, 2019 11:47	11/06/2019 14:21
MW-17	Y911084-17	Water	November 6, 2019 12:11	11/06/2019 14:21
MW-18	Y911084-18	Water	November 6, 2019 12:03	11/06/2019 14:21
MW-19	Y911084-19	Water	November 6, 2019 11:54	11/06/2019 14:21
MW-20	Y911084-20	Water	November 6, 2019 11:30	11/06/2019 14:21
MW-21	Y911084-21	Water	November 6, 2019 11:14	11/06/2019 14:21
MW-22	Y911084-22	Water	November 6, 2019 11:23	11/06/2019 14:21
MW-23	Y911084-23	Water	November 6, 2019 11:39	11/06/2019 14:21
MW-24	Y911084-24	Water	November 6, 2019 12:50	11/06/2019 14:21
MW-25	Y911084-25	Water	November 6, 2019 12:24	11/06/2019 14:21
MW-26	Y911084-26	Water	November 6, 2019 12:15	11/06/2019 14:21
MW-27	Y911084-27	Water	November 6, 2019 11:36	11/06/2019 14:21
MW-28	Y911084-28	Water	November 6, 2019 11:28	11/06/2019 14:21

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: Noble - Edward Hemple Unit 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-29	Y911084-29	Water	November 6, 2019 11:48	11/06/2019 14:21
MW-30	Y911084-30	Water	November 6, 2019 11:38	11/06/2019 14:21
MW-31	Y911084-31	Water	November 6, 2019 10:21	11/06/2019 14:21
MW-32	Y911084-32	Water	November 6, 2019 10:31	11/06/2019 14:21
MW-33	Y911084-33	Water	November 6, 2019 10:56	11/06/2019 14:21
MW-34	Y911084-34	Water	November 6, 2019 11:07	11/06/2019 14:21
MW-35	Y911084-35	Water	November 6, 2019 11:16	11/06/2019 14:21

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: Noble - Edward Hemple Unit 1



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Y911084

page 1 of 4

Client: Eagle Env. Consulting
 Address: 8000 W 44th Ave
Wheat Ridge, CO
 Telephone Number: 303-433-0479
 Email Address: MCE@EAGLE-ENV-CONS.COM

Project Manager: Martin Eckert III
 Project Name: Edward Hemple Unit 1
 Project Number: _____
 Samples Collected By: MP/LL/ML

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #			Other	
MW-D1	11-6-19	1045	7	X				X						
MW-D2		1039												
MW-D3		1239												
MW-D4		1247												
MW-D5		1218												
MW-D6		1252												
MW-D7		1230												
MW-D8		1158												
MW-D9		1120												
MW-D10		1106												
Relinquished By:		Date:	Time:	Received By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:				
<i>[Signature]</i>		11-6-19	1421	<i>[Signature]</i>	11-6-19	1421	<i>[Signature]</i>	11-6-19	1421	Some Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>				

Temp Received: 5.1 Date Results Needed: ASAP

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

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Y91084

page 2 of 4

ORIGINS
 LABORATORY, INC

Client: EAGLE ENV. CONSULTING
 Address: 8000 W 44TH AVE
WHEAT RIDGE, CO
 Telephone Number: 303-433-0479
 Email Address: MCE3@EAGLE-ENVIRONMENT.COM
 Project Manager: MARTIN ECKERT III
 Project Name: EDWARD HEMPLE UNIT 1
 Project Number: _____
 Samples Collected By: ICP/LL/WL

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis			Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Canister #	Other					
MW-11	11-6-19	1228	5	Y				Y								
MW-12		1221														
MW-13		1233														
MW-14		1205														
MW-15		1156														
MW-16		1147														
MW-17		1211														
MW-18		1203														
MW-19		1154														
MW-20		1130														
Relinquished By:	Date:	Time:	Time:	Received By:	Date:	Time:	Time:	Received By:	Date:	Time:	Time:	Turnaround Time:				
<i>[Signature]</i>	11-6-19	1421	1421	<i>[Signature]</i>	11-6-19	1421	1421	<i>[Signature]</i>	11-6-19	1421	1421	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/>				
Relinquished By:	Date:	Time:	Time:	Received By:	Date:	Time:	Time:	Received By:	Date:	Time:	Time:	48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/>	Standard <input checked="" type="checkbox"/>			

Date Results Needed None

Temp Received: 5.1

Bill to MCE

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

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911084

page 3 of 7

ORIGINS
 LABORATORY, INC

Client: EAGLE ENV CONSULTING
 Address: 8000 W 44TH AVE
WHEAT RIDGE, CO
 Telephone Number: 303-433-0179
 Email Address: MCE@EAGLE-ENVIRONMENT.COM
 Project Manager: MARTIN ECKERT III
 Project Name: EDWARD HEMPLE UNIT 1
 Project Number: _____
 Samples Collected By: KJ/LL/WC

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis			Sample Instructions			
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Sample #	Other						
MW-21	11-6-19	1114	3	X				X									
MW-22		1123															
MW-23		1139															
MW-24		1250															
MW-25		1204															
MW-26		1215															
MW-27		1136															
MW-28		1128															
MW-29		1148															
MW-30		1138															
Relinquished By: _____	Date: 11-6-19	Time: 1421	Time: 1421	Time: 1421	Time: 1421	Time: 1421	Time: 1421	Time: 1421	Time: 1421	Time: 1421	Time: 1421	Time: 1421	Time: 1421	Time: 1421	Time: 1421	Time: 1421	Time: 1421
Relinquished By: _____	Date: 11-6-19	Time: 1421	Time: 1421	Time: 1421	Time: 1421	Time: 1421	Time: 1421	Time: 1421	Time: 1421	Time: 1421	Time: 1421	Time: 1421	Time: 1421	Time: 1421	Time: 1421	Time: 1421	Time: 1421

Date Results Needed 5.1

Temp Received 5.1

APILL TO MW23

1725 Elk Place

Origins Laboratory, Inc.

Jefe Pellegrini

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

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

Sample Receipt Checklist

Origins Work Order: y911084 Client: Eagle
 Client Project ID: Edward Hemple

Checklist Completed by: JG Shipped Via: HD
 Date/time completed: 11/7/2019 (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 / 5.1 °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⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> 1/2 inch bubbles) present? If yes, contact client and note in narrative.		/		
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)		/		
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 be taken in the additional comments (above) and the case narrative.


 Reviewed by (Project Manager) 11/8/19
Date/Time Reviewed

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: Noble - Edward Hemple Unit 1

MW-01

11/6/2019 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K0702	KDK	11/07/2019	11/08/2019	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	88.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.9 %	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: Noble - Edward Hemple Unit 1

MW-02

11/6/2019 10:39:00AM

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

Origins Laboratory, Inc.
Y911084-02 (Water)

BTEX by EPA 8260D

Benzene	460	50.0	ug/L	50	B9K0702	KDK	11/07/2019	11/08/2019	
Toluene	282	50.0	"	"	"	KDK	"	"	
Ethylbenzene	ND	50.0	"	"	"	KDK	"	"	U
Xylenes, total	328	50.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	89.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.5 %	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: Noble - Edward Hemple Unit 1

MW-03

11/6/2019 12:39:00PM

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

Origins Laboratory, Inc.
Y911084-03 (Water)

BTEX by EPA 8260D

Benzene	8.72	4.00	ug/L	4	B9K0702	KDK	11/07/2019	11/08/2019	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	87.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.6 %	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: Noble - Edward Hemple Unit 1

MW-04

11/6/2019 12:47:00PM

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

Origins Laboratory, Inc.
Y911084-04 (Water)

BTEX by EPA 8260D

Benzene	39.0	1.00	ug/L	1	B9K0702	KDK	11/07/2019	11/08/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	1.83	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	89.1 %	70-130			"	"		11/08/2019	
Surrogate: Toluene-d8	96.8 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	93.9 %	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: Noble - Edward Hemple Unit 1

MW-05

11/6/2019 12:18:00PM

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

Origins Laboratory, Inc.
Y911084-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K0702	KDK	11/07/2019	11/08/2019	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	90.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.9 %	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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-06

11/6/2019 12:52:00PM

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

Origins Laboratory, Inc.
Y911084-06 (Water)

BTEX by EPA 8260D

Benzene	2110	100	ug/L	100	B9K0702	KDK	11/07/2019	11/08/2019	
Toluene	7660	100	"	"	"	KDK	"	"	
Ethylbenzene	315	100	"	"	"	KDK	"	"	
Xylenes, total	4420	100	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	88.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.8 %	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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-07

11/6/2019 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K0702	KDK	11/07/2019	11/08/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	6.35	1.00	"	"	"	KDK	"	"	
Xylenes, total	13.9	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	87.6 %	70-130			"	"	"		
Surrogate: Toluene-d8	98.3 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	95.0 %	70-130			"	"	"		

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: Noble - Edward Hemple Unit 1

MW-08

11/6/2019 11:58:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-08 (Water)

BTEX by EPA 8260D

Benzene	242	20.0	ug/L	20	B9K0702	KDK	11/07/2019	11/08/2019	
Toluene	ND	20.0	"	"	"	KDK	"	"	U
Ethylbenzene	164	20.0	"	"	"	KDK	"	"	
Xylenes, total	3070	20.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	87.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.0 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-09

11/6/2019 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-09 (Water)

BTEX by EPA 8260D

Benzene	13300	200	ug/L	200	B9K0702	KDK	11/07/2019	11/08/2019	
Toluene	8520	200	"	"	"	KDK	"	"	
Ethylbenzene	516	200	"	"	"	KDK	"	"	
Xylenes, total	7540	200	"	"	"	KDK	"	"	
Surrogate: 1,2-Dichloroethane-d4	87.8 %	70-130			"	"		"	
Surrogate: Toluene-d8	98.2 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	96.1 %	70-130			"	"		"	

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: Noble - Edward Hemple Unit 1

MW-10

11/6/2019 11:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-10 (Water)

BTEX by EPA 8260D

Benzene	23.0	1.00	ug/L	1	B9K0702	KDK	11/07/2019	11/08/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	4.41	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	88.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.8 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-11

11/6/2019 12:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-11 (Water)

BTEX by EPA 8260D

Benzene	6.37	1.00	ug/L	1	B9K0702	KDK	11/07/2019	11/08/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	89.1 %	70-130			"	"		"	
Surrogate: Toluene-d8	99.7 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	95.2 %	70-130			"	"		"	

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: Noble - Edward Hemple Unit 1

MW-12

11/6/2019 12:21:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-12 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K0702	KDK	11/07/2019	11/08/2019	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	87.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.6 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-13

11/6/2019 12:33:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-13 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K0702	KDK	11/07/2019	11/08/2019	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	88.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.0 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-14

11/6/2019 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-14 (Water)

BTEX by EPA 8260D

Benzene	311	50.0	ug/L	50	B9K0702	KDK	11/07/2019	11/08/2019	
Toluene	ND	50.0	"	"	"	KDK	"	"	U
Ethylbenzene	ND	50.0	"	"	"	KDK	"	"	U
Xylenes, total	ND	50.0	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	89.7 %	70-130			"	"		"	
Surrogate: Toluene-d8	98.2 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	95.3 %	70-130			"	"		"	

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: Noble - Edward Hemple Unit 1

MW-15

11/6/2019 11:56:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-15 (Water)

BTEX by EPA 8260D

Benzene	2.69	1.00	ug/L	1	B9K0702	KDK	11/07/2019	11/08/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	88.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.1 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-16

11/6/2019 11:47:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-16 (Water)

BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B9K0702	KDK	11/07/2019	11/11/2019	U
Toluene	37.4	10.0	"	10	"	KDK	"	11/08/2019	
Ethylbenzene	209	10.0	"	"	"	KDK	"	"	
Xylenes, total	4060	10.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	86.5 %	70-130			"	"		"	
Surrogate: Toluene-d8	97.2 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	95.7 %	70-130			"	"		"	

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: Noble - Edward Hemple Unit 1

MW-17

11/6/2019 12:11:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-17 (Water)

BTEX by EPA 8260D

Benzene	1.16	1.00	ug/L	1	B9K0702	KDK	11/07/2019	11/08/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	88.0 %	70-130			"	"		"	
Surrogate: Toluene-d8	95.7 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	93.1 %	70-130			"	"		"	

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: Noble - Edward Hemple Unit 1

MW-18

11/6/2019 12:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-18 (Water)

BTEX by EPA 8260D

Benzene	3.80	1.00	ug/L	1	B9K0702	KDK	11/07/2019	11/08/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.3 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-19

11/6/2019 11:54:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-19 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K0702	KDK	11/07/2019	11/08/2019	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	89.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.9 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-20

11/6/2019 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-20 (Water)

BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B9K0702	KDK	11/07/2019	11/08/2019	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	89.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.3 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-21

11/6/2019 11:14:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-21 (Water)

BTEX by EPA 8260D

Benzene	1.44	1.00	ug/L	1	B9K0703	KDK	11/07/2019	11/08/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	89.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.5 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-22

11/6/2019 11:23:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-22 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K0703	KDK	11/07/2019	11/08/2019	U
Toluene	1.39	1.00	"	"	"	KDK	"	"	
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	10.2	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	89.5 %	70-130			"	"	"		
Surrogate: Toluene-d8	96.9 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	96.2 %	70-130			"	"	"		

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-23

11/6/2019 11:39:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-23 (Water)

BTEX by EPA 8260D

Benzene	151	1.00	ug/L	1	B9K0703	KDK	11/07/2019	11/08/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	30.2	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	89.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.0 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-24

11/6/2019 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-24 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K0703	KDK	11/07/2019	11/08/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	6.72	1.00	"	"	"	KDK	"	"	
Xylenes, total	22.1	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	89.9 %	70-130			"	"	"		
Surrogate: Toluene-d8	98.1 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	94.0 %	70-130			"	"	"		

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: Noble - Edward Hemple Unit 1

MW-25

11/6/2019 12:24:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-25 (Water)

BTEX by EPA 8260D

Benzene	2510	20.0	ug/L	20	B9K0703	KDK	11/07/2019	11/11/2019	
Toluene	421	20.0	"	"	"	KDK	"	"	
Ethylbenzene	171	1.00	"	1	"	KDK	"	11/08/2019	
Xylenes, total	776	20.0	"	20	"	KDK	"	11/11/2019	
Surrogate: 1,2-Dichloroethane-d4	92.2 %			70-130		"	"	11/08/2019	
Surrogate: Toluene-d8	101 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6 %			70-130		"	"	"	

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: Noble - Edward Hemple Unit 1

MW-26

11/6/2019 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-26 (Water)

BTEX by EPA 8260D

Benzene	1.19	1.00	ug/L	1	B9K0703	KDK	11/07/2019	11/08/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.0 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-27

11/6/2019 11:36:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-27 (Water)

BTEX by EPA 8260D

Benzene	4.15	1.00	ug/L	1	B9K0703	KDK	11/07/2019	11/08/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	10.5	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	93.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	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
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-28

11/6/2019 11:28:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-28 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K0703	KDK	11/07/2019	11/08/2019	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	92.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.8 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-29

11/6/2019 11:48:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-29 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K0703	KDK	11/07/2019	11/08/2019	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	92.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.4 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-30

11/6/2019 11:38:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-30 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K0703	KDK	11/07/2019	11/08/2019	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	94.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.5 %	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: Noble - Edward Hemple Unit 1

MW-31

11/6/2019 10:21:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-31 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K0703	KDK	11/07/2019	11/08/2019	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	91.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.9 %	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: Noble - Edward Hemple Unit 1

MW-32

11/6/2019 10:31:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-32 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K0703	KDK	11/07/2019	11/09/2019	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	88.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.5 %	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: Noble - Edward Hemple Unit 1

MW-33

11/6/2019 10:56:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-33 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K0703	KDK	11/07/2019	11/08/2019	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	92.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.0 %	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: Noble - Edward Hemple Unit 1

MW-34

11/6/2019 11:07:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-34 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K0703	KDK	11/07/2019	11/08/2019	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	92.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.8 %	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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-35

11/6/2019 11:16:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911084-35 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K0703	KDK	11/07/2019	11/08/2019	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	92.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.1 %	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: Noble - Edward Hemple Unit 1

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 B9K0702 - EPA 5030B (Water)

Blank (B9K0702-BLK1)

Prepared: 11/07/2019 Analyzed: 11/07/2019

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	55		"	62.5		88.0	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.3	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: Noble - Edward Hemple Unit 1

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 B9K0702 - EPA 5030B (Water)

LCS (B9K0702-BS1)

Prepared: 11/07/2019 Analyzed: 11/07/2019

Benzene	42.5	1.00	ug/L	50.0		85.1	70-130			
Toluene	40.8	1.00	"	50.0		81.7	70-130			
Ethylbenzene	39.8	1.00	"	50.0		79.7	70-130			
m,p-Xylene	78.5	2.00	"	100		78.5	70-130			
o-Xylene	40.4	1.00	"	50.0		80.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	52		"	62.5		83.6	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.3	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: Noble - Edward Hemple Unit 1

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 B9K0702 - EPA 5030B (Water)

Matrix Spike (B9K0702-MS1)	Source: Y911084-01			Prepared: 11/07/2019 Analyzed: 11/07/2019						
Benzene	43.3	1.00	ug/L	50.0	ND	86.6	70-130			
Toluene	41.4	1.00	"	50.0	ND	82.8	70-130			
Ethylbenzene	40.3	1.00	"	50.0	ND	80.6	70-130			
m,p-Xylene	79.0	2.00	"	100	ND	79.0	70-130			
o-Xylene	39.6	1.00	"	50.0	ND	79.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	54		"	62.5		86.2	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.8	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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

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 B9K0702 - EPA 5030B (Water)

Matrix Spike Dup (B9K0702-MSD1)	Source: Y911084-01			Prepared: 11/07/2019 Analyzed: 11/07/2019						
Benzene	45.1	1.00	ug/L	50.0	ND	90.1	70-130	4.03	20	
Toluene	43.3	1.00	"	50.0	ND	86.5	70-130	4.39	20	
Ethylbenzene	43.2	1.00	"	50.0	ND	86.3	70-130	6.83	20	
m,p-Xylene	83.1	2.00	"	100	ND	83.1	70-130	5.08	20	
o-Xylene	41.7	1.00	"	50.0	ND	83.4	70-130	5.22	20	
Surrogate: 1,2-Dichloroethane-d4	54		"	62.5		86.3	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.5	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: Noble - Edward Hemple Unit 1

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 B9K0703 - EPA 5030B (Water)

Blank (B9K0703-BLK1)

Prepared: 11/07/2019 Analyzed: 11/11/2019

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	56		"	62.5		89.5	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.2	70-130			

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: Noble - Edward Hemple Unit 1

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 B9K0703 - EPA 5030B (Water)

LCS (B9K0703-BS1)

Prepared: 11/07/2019 Analyzed: 11/08/2019

Benzene	46.9	1.00	ug/L	50.0		93.8	70-130			
Toluene	45.5	1.00	"	50.0		91.1	70-130			
Ethylbenzene	46.8	1.00	"	50.0		93.5	70-130			
m,p-Xylene	90.2	2.00	"	100		90.2	70-130			
o-Xylene	43.8	1.00	"	50.0		87.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	54		"	62.5		86.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

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 B9K0703 - EPA 5030B (Water)

Matrix Spike (B9K0703-MS1)	Source: Y911090-01			Prepared: 11/07/2019 Analyzed: 11/08/2019						
Benzene	42.7	1.00	ug/L	50.0	ND	85.5	70-130			
Toluene	42.2	1.00	"	50.0	ND	84.3	70-130			
Ethylbenzene	41.6	1.00	"	50.0	ND	83.2	70-130			
m,p-Xylene	81.2	2.00	"	100	ND	81.2	70-130			
o-Xylene	40.8	1.00	"	50.0	ND	81.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.7	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.2	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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

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 B9K0703 - EPA 5030B (Water)

Matrix Spike Dup (B9K0703-MSD1)	Source: Y911090-01			Prepared: 11/07/2019 Analyzed: 11/08/2019						
Benzene	43.7	1.00	ug/L	50.0	ND	87.4	70-130	2.27	20	
Toluene	42.1	1.00	"	50.0	ND	84.2	70-130	0.142	20	
Ethylbenzene	42.6	1.00	"	50.0	ND	85.2	70-130	2.33	20	
m,p-Xylene	83.0	2.00	"	100	ND	83.0	70-130	2.19	20	
o-Xylene	41.0	1.00	"	50.0	ND	82.0	70-130	0.513	20	
Surrogate: 1,2-Dichloroethane-d4	53		"	62.5		85.2	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.0	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: Noble - Edward Hemple Unit 1

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.



December 13, 2019

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Edward Hemple Unit 1

Project Number - [none]

Attached are your analytical results for Noble - Edward Hemple Unit 1 received by Origins Laboratory, Inc. December 09, 2019. This project is associated with Origins project number Y912137-01.

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: Noble - Edward Hemple Unit 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-36@2.5-5	Y912137-01	Soil	December 9, 2019 12:53	12/09/2019 15:38
MW-37@2.5-5	Y912137-02	Soil	December 9, 2019 12:22	12/09/2019 15:38
MW-38@2.5-5	Y912137-03	Soil	December 9, 2019 11:44	12/09/2019 15:38
MW-39@2.5-5	Y912137-04	Soil	December 9, 2019 11:24	12/09/2019 15:38
MW-40@2.5-5	Y912137-05	Soil	December 9, 2019 10:59	12/09/2019 15:38
MW-41@2.5-5	Y912137-06	Soil	December 9, 2019 10:00	12/09/2019 15:38
MW-42@2.5-5	Y912137-07	Soil	December 9, 2019 9:54	12/09/2019 15:38

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: Noble - Edward Hemple Unit 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4912137

Client: Eagle Env
 Client Project ID: Edward Hemple

Checklist Completed by: JP

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

Date/time completed: 12/9/19

Airbill #: NA

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

Cooler Number/Temperature: 1 / 4.9 °C _____ / _____ °C _____ / _____ °C _____ / _____ °C

Thermometer ID: TOB

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)

Date/Time Reviewed 12-11-19

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: Noble - Edward Hemple Unit 1

MW-36@2.5-5

12/9/2019 12:53:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y912137-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9L1003	TEM	12/10/2019	12/10/2019	U
Surrogate: <i>o</i> -Terphenyl	95.1 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9L1002	ZZZ	12/10/2019	12/11/2019	U
Benzene	ND	0.002	"	"	"	ZZZ	"	"	U
Toluene	ND	0.002	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.002	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.002	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.008	"	"	"	ZZZ	"	"	U
Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.4 %	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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-37@2.5-5

12/9/2019 12:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y912137-02 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9L1003	TEM	12/10/2019	12/10/2019	U
Surrogate: o-Terphenyl	76.3 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	8.72	5.00	mg/kg	25	B9L1002	ZZZ	12/10/2019	12/11/2019	
Benzene	ND	0.050	"	"	"	ZZZ	"	"	U
Toluene	ND	0.050	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.050	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.050	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.5 %	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: Noble - Edward Hemple Unit 1

MW-38@2.5-5

12/9/2019 11:44:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y912137-03 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9L1003	TEM	12/10/2019	12/10/2019	U
Surrogate: o-Terphenyl	93.3 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	43.5	5.00	mg/kg	25	B9L1002	ZZZ	12/10/2019	12/11/2019	
Benzene	ND	0.050	"	"	"	ZZZ	"	"	U
Toluene	ND	0.050	"	"	"	ZZZ	"	"	U
Ethylbenzene	0.056	0.050	"	"	"	ZZZ	"	"	
Xylenes, total	ND	0.050	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	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: Noble - Edward Hemple Unit 1

MW-39@2.5-5

12/9/2019 11:24:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y912137-04 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9L1003	TEM	12/10/2019	12/10/2019	U
Surrogate: <i>o</i> -Terphenyl	92.4 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9L1002	ZZZ	12/10/2019	12/11/2019	U
Benzene	ND	0.002	"	"	"	ZZZ	"	"	U
Toluene	ND	0.002	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.002	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.002	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.008	"	"	"	ZZZ	"	"	U
Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.2 %	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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-40@2.5-5

12/9/2019 10:59:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y912137-05 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9L1005	TEM	12/10/2019	12/10/2019	U
<i>Surrogate: o-Terphenyl</i>	84.8 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B9L1004	KDK	12/10/2019	12/10/2019	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	90.5 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	95.9 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	90.7 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-41@2.5-5

12/9/2019 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y912137-06 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9L1005	TEM	12/10/2019	12/10/2019	U
<i>Surrogate: o-Terphenyl</i>	73.8 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B9L1004	KDK	12/10/2019	12/11/2019	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	85.8 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	97.0 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	91.8 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

MW-42@2.5-5
12/9/2019 9:54:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y912137-07 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9L1005	TEM	12/10/2019	12/10/2019	U
<i>Surrogate: o-Terphenyl</i>	91.5 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B9L1004	KDK	12/10/2019	12/11/2019	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	86.0 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	96.5 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	93.4 %	70-130			"	"	"	"	

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: Noble - Edward Hemple Unit 1

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 B9L1002 - EPA 5030 (soil)

Blank (B9L1002-BLK1)

Prepared: 12/10/2019 Analyzed: 12/10/2019

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	110		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.0		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

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 B9L1002 - EPA 5030 (soil)

LCS (B9L1002-BS1)

Prepared: 12/10/2019 Analyzed: 12/10/2019

Benzene	0.100	0.002	mg/kg	0.100		99.7	70-130			
Toluene	0.098	0.002	"	0.100		98.0	70-130			
Ethylbenzene	0.092	0.002	"	0.100		92.2	70-130			
m,p-Xylene	0.187	0.004	"	0.200		93.3	70-130			
o-Xylene	0.092	0.002	"	0.100		92.1	70-130			
Naphthalene	0.087	0.008	"	0.100		86.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.8	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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

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 B9L1002 - EPA 5030 (soil)

Matrix Spike (B9L1002-MS1)	Source: Y912134-01			Prepared: 12/10/2019 Analyzed: 12/11/2019						
Benzene	0.145	0.002	mg/kg	0.100	0.047	97.7	70-130			
Toluene	0.466	0.002	"	0.100	0.307	159	70-130			QM-07
Ethylbenzene	0.107	0.002	"	0.100	0.040	67.0	70-130			QM-07
m,p-Xylene	0.629	0.004	"	0.200	0.455	87.2	70-130			
o-Xylene	0.211	0.002	"	0.100	0.128	82.5	70-130			
Naphthalene	0.074	0.008	"	0.100	0.017	57.6	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	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: Noble - Edward Hemple Unit 1

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 B9L1002 - EPA 5030 (soil)

Matrix Spike Dup (B9L1002-MSD1)	Source: Y912134-01			Prepared: 12/10/2019 Analyzed: 12/11/2019						
Benzene	0.101	0.002	mg/kg	0.100	0.047	54.2	70-130	35.4	20	QM-07, QR-03
Toluene	0.223	0.002	"	0.100	0.307	NR	70-130	70.5	20	QM-07, QR-03
Ethylbenzene	0.098	0.002	"	0.100	0.040	57.7	70-130	9.14	20	QM-07
m,p-Xylene	0.402	0.004	"	0.200	0.455	NR	70-130	44.1	20	QM-07, QR-03
o-Xylene	0.150	0.002	"	0.100	0.128	22.2	70-130	33.4	20	QM-07, QR-03
Naphthalene	0.081	0.008	"	0.100	0.017	64.6	70-130	9.01	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.5	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: Noble - Edward Hemple Unit 1

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 B9L1003 - EPA 3580										
Blank (B9L1003-BLK1)										
					Prepared: 12/10/2019 Analyzed: 12/10/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	44		"	50.0		88.1	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: Noble - Edward Hemple Unit 1

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 B9L1003 - EPA 3580

LCS (B9L1003-BS1)

Prepared: 12/10/2019 Analyzed: 12/10/2019

Diesel (C10-C28)	998	50.0	mg/kg	1000		99.8	70-130			
Surrogate: o-Terphenyl	51		"	50.0		102	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: Noble - Edward Hemple Unit 1

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 B9L1003 - EPA 3580

Matrix Spike (B9L1003-MS1)	Source: Y912134-01			Prepared: 12/10/2019 Analyzed: 12/10/2019						
Diesel (C10-C28)	1450	50.0	mg/kg	1000	205	125	70-130			
Surrogate: o-Terphenyl	68		"	50.0		136	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: Noble - Edward Hemple Unit 1

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 B9L1003 - EPA 3580

Matrix Spike Dup (B9L1003-MSD1)	Source: Y912134-01			Prepared: 12/10/2019 Analyzed: 12/10/2019						
Diesel (C10-C28)	1140	50.0	mg/kg	1000	205	93.1	70-130	24.6	35	
Surrogate: o-Terphenyl	53		"	50.0		106	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: Noble - Edward Hemple Unit 1

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
Batch B9L1004 - EPA 5030 (soil)										
Blank (B9L1004-BLK1)										
					Prepared: 12/10/2019 Analyzed: 12/10/2019					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.1	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: Noble - Edward Hemple Unit 1

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 B9L1004 - EPA 5030 (soil)

LCS (B9L1004-BS1)

Prepared: 12/10/2019 Analyzed: 12/10/2019

Benzene	0.098	0.002	mg/kg	0.100		98.2	70-130			
Toluene	0.096	0.002	"	0.100		96.4	70-130			
Ethylbenzene	0.095	0.002	"	0.100		95.1	70-130			
m,p-Xylene	0.189	0.004	"	0.200		94.3	70-130			
o-Xylene	0.094	0.002	"	0.100		93.7	70-130			
Naphthalene	0.103	0.008	"	0.100		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		82.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.4	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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

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 B9L1004 - EPA 5030 (soil)

Matrix Spike (B9L1004-MS1)	Source: Y912137-05			Prepared: 12/10/2019 Analyzed: 12/10/2019						
Benzene	0.103	0.002	mg/kg	0.100	ND	103	70-130			
Toluene	0.097	0.002	"	0.100	ND	97.4	70-130			
Ethylbenzene	0.095	0.002	"	0.100	0.005	89.9	70-130			
m,p-Xylene	0.190	0.004	"	0.200	0.004	92.7	70-130			
o-Xylene	0.097	0.002	"	0.100	ND	96.6	70-130			
Naphthalene	0.108	0.008	"	0.100	0.021	87.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.5	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: Noble - Edward Hemple Unit 1

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 B9L1004 - EPA 5030 (soil)

Matrix Spike Dup (B9L1004-MSD1)	Source: Y912137-05			Prepared: 12/10/2019 Analyzed: 12/10/2019						
Benzene	0.094	0.002	mg/kg	0.100	ND	94.0	70-130	9.33	20	
Toluene	0.088	0.002	"	0.100	ND	88.0	70-130	10.1	20	
Ethylbenzene	0.086	0.002	"	0.100	0.005	81.1	70-130	9.81	20	
m,p-Xylene	0.171	0.004	"	0.200	0.004	83.2	70-130	10.5	20	
o-Xylene	0.088	0.002	"	0.100	ND	88.4	70-130	8.88	20	
Naphthalene	0.108	0.008	"	0.100	0.021	87.5	70-130	0.295	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		86.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.0	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: Noble - Edward Hemple Unit 1

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 B9L1005 - EPA 3580										
Blank (B9L1005-BLK1)										
					Prepared: 12/10/2019 Analyzed: 12/10/2019					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Surrogate: o-Terphenyl	21		"	25.0		83.1	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: Noble - Edward Hemple Unit 1

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 B9L1005 - EPA 3580

LCS (B9L1005-BS1)

Prepared: 12/10/2019 Analyzed: 12/10/2019

Diesel (C10-C28)	924	50.0	mg/kg	1000		92.4	70-130			
Surrogate: o-Terphenyl	49		"	50.0		97.3	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: Noble - Edward Hemple Unit 1

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 B9L1005 - EPA 3580

Matrix Spike (B9L1005-MS1)	Source: Y912137-05			Prepared: 12/10/2019 Analyzed: 12/10/2019						
Diesel (C10-C28)	965	50.0	mg/kg	1000	ND	96.5	70-130			
Surrogate: o-Terphenyl	47		"	50.0		94.3	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: Noble - Edward Hemple Unit 1

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 B9L1005 - EPA 3580

Matrix Spike Dup (B9L1005-MSD1)	Source: Y912137-05			Prepared: 12/10/2019 Analyzed: 12/10/2019						
Diesel (C10-C28)	1150	50.0	mg/kg	1000	ND	115	70-130	17.7	35	
Surrogate: o-Terphenyl	52		"	50.0		104	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: Noble - Edward Hemple Unit 1

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.

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.



December 19, 2019

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Edward Hemple Unit 1

Project Number - [none]

Attached are your analytical results for Noble - Edward Hemple Unit 1 received by Origins Laboratory, Inc. December 12, 2019. This project is associated with Origins project number Y912204-01.

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: Noble - Edward Hemple Unit 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-36	Y912204-01	Water	December 12, 2019 13:14	12/12/2019 16:36
MW-37	Y912204-02	Water	December 12, 2019 13:24	12/12/2019 16:36
MW-38	Y912204-03	Water	December 12, 2019 13:34	12/12/2019 16:36
MW-39	Y912204-04	Water	December 12, 2019 13:44	12/12/2019 16:36
MW-40	Y912204-05	Water	December 12, 2019 13:54	12/12/2019 16:36
MW-41	Y912204-06	Water	December 12, 2019 14:04	12/12/2019 16:36
MW-42	Y912204-07	Water	December 12, 2019 14:14	12/12/2019 16:36

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: Noble - Edward Hemple Unit 1



Y912204

www.originslaboratory.com

page 1 of 1

Client: Eagle Env. Consulting
 Address: 8000 W 44th Ave
 Wheat Ridge, CO 80033
 Telephone Number: 303-433-0479
 Email Address: mic3@eagle-enviro.com

Project Manager: Martin Eckert III
 Project Name: Edward Hemple Unit 1
 Project Number:
 Samples Collected By: GEC

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other				
MW-36	12/12/19	1314	3	X				X							
MW-37		1324													
MW-38		1334													
MW-39		1344													
MW-40		1354													
MW-41		1404													
MW-42		1414													
Relinquished By: <i>Rh</i>	Date: 12/12/19	Time: 1634	Received By: <i>[Signature]</i>	Date: 12-17	Time: 1836	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>									

Temp Received: 7-6 Date Results Needed: *None*
Bill to Jacob

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y912204

Client: Eagle Env Cons.

Client Project ID: Noble - Edward Hemple Unit 1

Checklist Completed by: JBE

Shipped Via: HD

Date/time completed: 12-12-19 1836

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

Airbill #: _____

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

Cooler Number/Temperature: 1 / 2-6 °C _____ °C _____ °C (Describe)

Thermometer ID: JDD3

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	X			
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	X			HCL
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) [Signature]

Date/Time Reviewed 12/16/19

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

MW-36

12/12/2019 1:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y912204-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L1307	ZZZ	12/13/2019	12/16/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	12/18/2019	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	12/16/2019	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	12/18/2019	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"	"		12/16/2019	
Surrogate: Toluene-d8	102 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	90.1 %	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: Noble - Edward Hemple Unit 1

MW-37

12/12/2019 1:24:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y912204-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L1307	ZZZ	12/13/2019	12/16/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	88.3 %	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: Noble - Edward Hemple Unit 1

MW-38

12/12/2019 1:34:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y912204-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L1307	ZZZ	12/13/2019	12/16/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	3.40	1.00	"	"	"	ZZZ	"	"	
Xylenes, total	6.97	1.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130			"	"	"		
Surrogate: Toluene-d8	103 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	88.3 %	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: Noble - Edward Hemple Unit 1

MW-39

12/12/2019 1:44:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y912204-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L1307	ZZZ	12/13/2019	12/16/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	90.0 %	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: Noble - Edward Hemple Unit 1

MW-40

12/12/2019 1:54:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y912204-05 (Water)

BTEX by EPA 8260D

Benzene	1140	50.0	ug/L	50	B9L1307	KDK	12/13/2019	12/18/2019	
Toluene	3000	50.0	"	"	"	KDK	"	"	
Ethylbenzene	288	50.0	"	"	"	KDK	"	"	
Xylenes, total	4870	50.0	"	"	"	KDK	"	"	
Surrogate: 1,2-Dichloroethane-d4	104 %			70-130		"	"	12/16/2019	
Surrogate: Toluene-d8	99.9 %			70-130		"	"	12/18/2019	
Surrogate: 4-Bromofluorobenzene	79.8 %			70-130		"	"	12/16/2019	

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: Noble - Edward Hemple Unit 1

MW-41

12/12/2019 2:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y912204-06 (Water)

BTEX by EPA 8260D

Benzene	446	50.0	ug/L	50	B9L1307	KDK	12/13/2019	12/18/2019	
Toluene	183	1.00	"	1	"	ZZZ	"	12/16/2019	
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	1430	50.0	"	50	"	KDK	"	12/18/2019	

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130			"	"		12/16/2019	
Surrogate: Toluene-d8	99.4 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	85.5 %	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: Noble - Edward Hemple Unit 1

MW-42

12/12/2019 2:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y912204-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L1307	KDK	12/13/2019	12/18/2019	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	116 %	70-130			"	"		12/16/2019	
Surrogate: Toluene-d8	99.4 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	88.0 %	70-130			"	"		"	

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Edward Hemple Unit 1

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 B9L1307 - EPA 5030B (Water)

Blank (B9L1307-BLK1)

Prepared: 12/13/2019 Analyzed: 12/16/2019

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	70		"	62.5	113		70-130			
Surrogate: Toluene-d8	61		"	62.5	97.5		70-130			
Surrogate: 4-Bromofluorobenzene	56		"	62.5	90.1		70-130			

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Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9L1307 - EPA 5030B (Water)

LCS (B9L1307-BS1)

Prepared: 12/13/2019 Analyzed: 12/16/2019

Benzene	52.1	1.00	ug/L	50.0		104	70-130			
Toluene	51.9	1.00	"	50.0		104	70-130			
Ethylbenzene	55.6	1.00	"	50.0		111	70-130			
m,p-Xylene	114	2.00	"	100		114	70-130			
o-Xylene	56.6	1.00	"	50.0		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	74		"	62.5		118	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	55		"	62.5		87.6	70-130			

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Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9L1307 - EPA 5030B (Water)

Matrix Spike (B9L1307-MS1)	Source: Y912182-01			Prepared: 12/13/2019 Analyzed: 12/16/2019						
Benzene	45.8	1.00	ug/L	50.0	ND	91.7	70-130			
Toluene	46.9	1.00	"	50.0	ND	93.7	70-130			
Ethylbenzene	48.4	1.00	"	50.0	ND	96.7	70-130			
m,p-Xylene	99.7	2.00	"	100	0.180	99.6	70-130			
o-Xylene	52.3	1.00	"	50.0	ND	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	74		"	62.5		119	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	54		"	62.5		85.7	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9L1307 - EPA 5030B (Water)

Matrix Spike Dup (B9L1307-MSD1)	Source: Y912182-01			Prepared: 12/13/2019 Analyzed: 12/16/2019						
Benzene	78.9	1.00	ug/L	50.0	ND	158	70-130	53.0	20	QM-07, QR-03
Toluene	80.7	1.00	"	50.0	ND	161	70-130	53.0	20	QM-07, QR-03
Ethylbenzene	83.0	1.00	"	50.0	ND	166	70-130	52.7	20	QM-07, QR-03
m,p-Xylene	171	2.00	"	100	0.180	171	70-130	52.9	20	QM-07, QR-03
o-Xylene	89.2	1.00	"	50.0	ND	178	70-130	52.2	20	QM-07, QR-03
Surrogate: 1,2-Dichloroethane-d4	76		"	62.5		122	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	54		"	62.5		85.8	70-130			

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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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