



June 21, 2018

Mr. Paul Herring
Top Operating Co.
3609 Wadsworth Blvd, Ste 340
Lakewood, CO 80235

**Soil Boring and Groundwater Assessment Report
Rider #1
Historical Release
40.178822 / -105.058512
NE1/4 SE1/4 Sec.36 T3N R69W 6PM
Boulder County, Colorado
Remediation #11300**

Dear Mr. Herring,

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

1.0 SITE BACKGROUND

On December 21, 2017, the City of Longmont (Longmont) submitted to the Colorado Oil and Gas Conservation Commission (COGCC) a report entitled *Limited Soil, Groundwater, and Soil Gas Investigation* for the Rider #1 Oil and Gas Well Site (Rider #1) located in Longmont, Colorado. Based on analytical results reported by Longmont, soil and groundwater samples collected by Terracon Consultants, Inc. (Terracon) on September 15, 2017 and October 18, 2017, exceeded COGCC Table 910-1 regulatory limits. These results were reported by Longmont to the COGCC on December 21, 2017 and were first reported to Top Operating Company (TOP) upon issuance of NOAV on March, 5 2018.

In April 2018, EAGLE was retained by TOP to perform assessment activities at the site in response to Longmont's report (COGCC Document No. 2496197) (Report) and the COGCC Notice of Alleged Violation (NOAV) (COGCC Document No. 401562368). The following narrative details soil boring and groundwater assessment activities completed by EAGLE at the site in May 2018.

1.1 Site Description

The Rider #1 site is located within the northeast quarter of the southeast quarter of Section 36, Township 3 North, Range 69 West of the 6th Prime Meridian. The site was located at latitude: 40.178822 and longitude: -105.058512. A topographic site location map is presented as Figure 1. An aerial site location map is presented in Figure 2.

1.2 Site Hydrogeology

The soil lithology observed beneath the site consists of stiff, silty clay from the surface to approximately 13 feet below ground surface (bgs), underlain by medium dense, gravelly clay from approximately 13 feet bgs to 15 feet bgs. Groundwater was observed at a depth of approximately 9 feet bgs during assessment

activities. A detailed description of the subsurface lithology beneath the site is presented in the boring logs included in Attachment A.

2.0 SOIL BORING ASSESSMENT ACTIVITIES

In response to COGCC Document No. 2496197, TOP retained EAGLE to perform subsurface assessment activities to evaluate potential soil contamination identified by Terracon and Longmont on September 15, 2017 and October 18, 2017 and the COGCC NOAV (COGCC Document No. 401562368). Based on soil analytical results reported by Terracon, soil collected from soil borings SB-06, SB-07, and SB-11 contained concentrations of total petroleum hydrocarbons (TPH) exceeding applicable COGCC Table 910-1 regulatory limits. Per TOP's request, EAGLE mobilized to the Rider #1 site to collect soil samples adjacent to these previously assessment locations, in order to identify potential petroleum hydrocarbon impacts associated with operations at the site.

2.1 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 unmarked utilities or other obstacles were present within the proposed drilling locations. Tier II facility owners were also contacted to confirm the necessary buried utility notifications were completed.

2.2 Soil Boring Advancement Activities

On May 17, 2018, thirteen (13) soil borings (SB-01 through SB-13) were advanced adjacent to the three areas of suspected soil petroleum hydrocarbon impacts identified in Longmont's Report. Soil boring advancement activities were completed by EAGLE utilizing 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. Groundwater was observed at a depth of approximately 9 feet bgs during soil boring advancement activities. Soil borings (SB-01 through SB-13) were advanced to a total depth of 15 feet bgs.

EAGLE recorded the spatial location of the soil boring using a Trimble GeoXT 6000 series instrument. The soil boring log is included in Attachment A. Soil boring locations are presented in Figure 3.

2.3 Soil Sampling Procedures

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

Based on the PID reading and sample locations, two (2) soil samples from each soil boring were submitted to Origins Laboratory, Inc. (Origins), following standard chain of custody (COC) procedures. A soil sample from each boring from within the root zone (0-2.5 feet bgs) was analyzed for Sodium Adsorption Ratio (SAR) following United States Department of Agriculture (USDA) Method 20B, specific conductance (EC) following USDA Method 3, and pH following Environmental Protection Agency (EPA) Method 9045D. A soil sample within the root zone for soil boring SB-05 was not submitted due to its location in the backfill of the previously removed produced water vessel.

Additionally, a soil sample from each boring was analyzed for benzene, toluene, ethylbenzene, total xylenes (BTEX), naphthalene, total petroleum hydrocarbons – gasoline range organics (TPH-GRO) following modified EPA Methods 8260c, total petroleum hydrocarbons – diesel range organics (TPH-DRO) and total petroleum hydrocarbons – residual range organics (TPH-RRO) following modified EPA 8015. The laboratory received the soil samples within the required holding time for each laboratory analysis.

2.4 Laboratory Analytical Results

Terracon's report indicated 11 soil borings were installed at the site in September and October, 2017. Based on analytical results of soil samples collected by Terracon, TPH concentrations in soil borings SB-06, SB-07, and SB-11 exceeded COGCC Table 910-1 regulatory limits. Based on these results, at the request of TOP, EAGLE advanced 13 soil borings adjacent to the previous locations of SB-06, SB-07, and SB-11. EAGLE submitted two soil samples from each boring at different depths (surficial and subsurface) for laboratory analysis. Based on laboratory analytical results:

- Soil samples SB-03@7.5-10', SB-07@7.5-10', and SB-11@7.5-10' contained a concentration of TPH (520.0 mg/kg, 1,033 mg/kg, and 915.5 mg/kg, respectively) exceeding the COGCC Table 910-1 regulatory limit of 500 milligrams per kilogram (mg/kg).
- Soil samples SB-01@10-12.5', SB-02@7.5-10', SB-04@7.5-10', SB-05@7.5-10', SB-06@7.5-10', SB-08@7.5-10', SB-09@7.5-10', SB-10@10-12.5', SB-12@10-12.5', and SB-13@12.5-15' did not contain concentrations of BTEX, naphthalene, or TPH exceeding applicable COGCC Table 910-1 regulatory limits.
- Soil samples' SB-01@0-2.5', SB-02@0-2.5', SB-03@0-2.5', SB-04@0-2.5', SB-06@0-2.5', SB-07@0-2.5', SB-08@0-2.5', SB-09@0-2.5', SB-10@0-2.5', SB-11@0-2.5', SB-12@0-2.5', and SB-13@0-2.5' EC, pH, and SAR values were within COGCC Table 910-1 regulatory limits

Soil analytical results are summarized in Table 1. Soil analytical results from soil boring advancement activities are presented in Figure 3. The soil sample laboratory analytical report is included in Attachment B.

3.0 GROUNDWATER MONITORING ACTIVITIES

Based on groundwater analytical results from Terracon groundwater sampling activities completed October 19, 2017, monitoring well MW-01R contained concentrations of ethylbenzene and total xylenes exceeding applicable COGCC Table 910-1 regulatory limits. In addition to soil boring activities, TOP requested EAGLE to perform groundwater monitoring at the site on previously installed monitoring well MW-01R.

3.1 Groundwater Sampling Procedures

On May 17, 2018, EAGLE collected groundwater samples from monitoring well MW-01R. Prior to sample collection, the monitoring well was purged a minimum of three well volumes using disposable PVC bailers. Following recharge, groundwater samples were collected in 40 milliliter (mL) amber vials and submitted for laboratory analysis for BTEX following EPA Method 8260C. The samples were transported in an iced cooler under standard COC procedures to Origins and were received within the required holding time.

3.2 Laboratory Analytical Results

Based on laboratory analytical results:

- The groundwater sample collected from monitoring well MW-01R did not contain concentrations of BTEX exceeding applicable COGCC Table 910-1 regulatory limits.

Groundwater analytical results are summarized in Table 2 and presented in Figure 4. Groundwater laboratory analytical reports are included in Attachment B.

4.0 CONCLUSIONS

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

- On May 17, 2018, EAGLE advanced 13 soil borings (SB-01 through SB-13) at the Rider #1 site in response to potential petroleum hydrocarbon impacts reported by Longmont in Fall 2017.
- Three of the samples, soil samples SB-03@7.5-10', SB-07@7.5-10', and SB-11@7.5-10', contained concentrations of TPH exceeding the COGCC Table 910-1 regulatory limit
- Soil samples SB-01@10-12.5', SB-02@7.5-10', SB-04@7.5-10', SB-05@7.5-10', SB-06@7.5-10', SB-08@7.5-10', SB-09@7.5-10', SB-10@10-12.5', SB-12@10-12.5', and SB-13@12.5-15' did not contain concentrations of BTEX, naphthalene, or TPH exceeding applicable COGCC Table 910-1 regulatory limits.
- Soil samples' SB-01@0-2.5', SB-02@0-2.5', SB-03@0-2.5', SB-04@0-2.5', SB-06@0-2.5', SB-07@0-2.5', SB-08@0-2.5', SB-09@0-2.5', SB-10@0-2.5', SB-11@0-2.5', SB-12@0-2.5', and SB-13@0-2.5' EC, pH, and SAR values were within COGCC Table 910-1 regulatory limits
- On May 17, 2018, EAGLE collected a grab groundwater sample from the previously installed MW-01R. Unlike the results conducted by Terracon on October 19, 2017, the groundwater sample did not contain concentrations of BTEX exceeding COGCC Table 910-1 regulatory limits.
- Groundwater was observed at approximately 9 feet bgs during soil boring assessment activities at the site.

5.0 RECOMMENDATIONS

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

- Continued sampling of groundwater monitoring well MW-01R for a minimum of 3 additional quarters to monitor for natural attenuation
- Conduct source excavation activities to remove soil impacts adjacent to SB-03, SB-07, and SB-11.

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.



Alex Romansky
Project Geologist



Andrew Newberry
Project Geologist

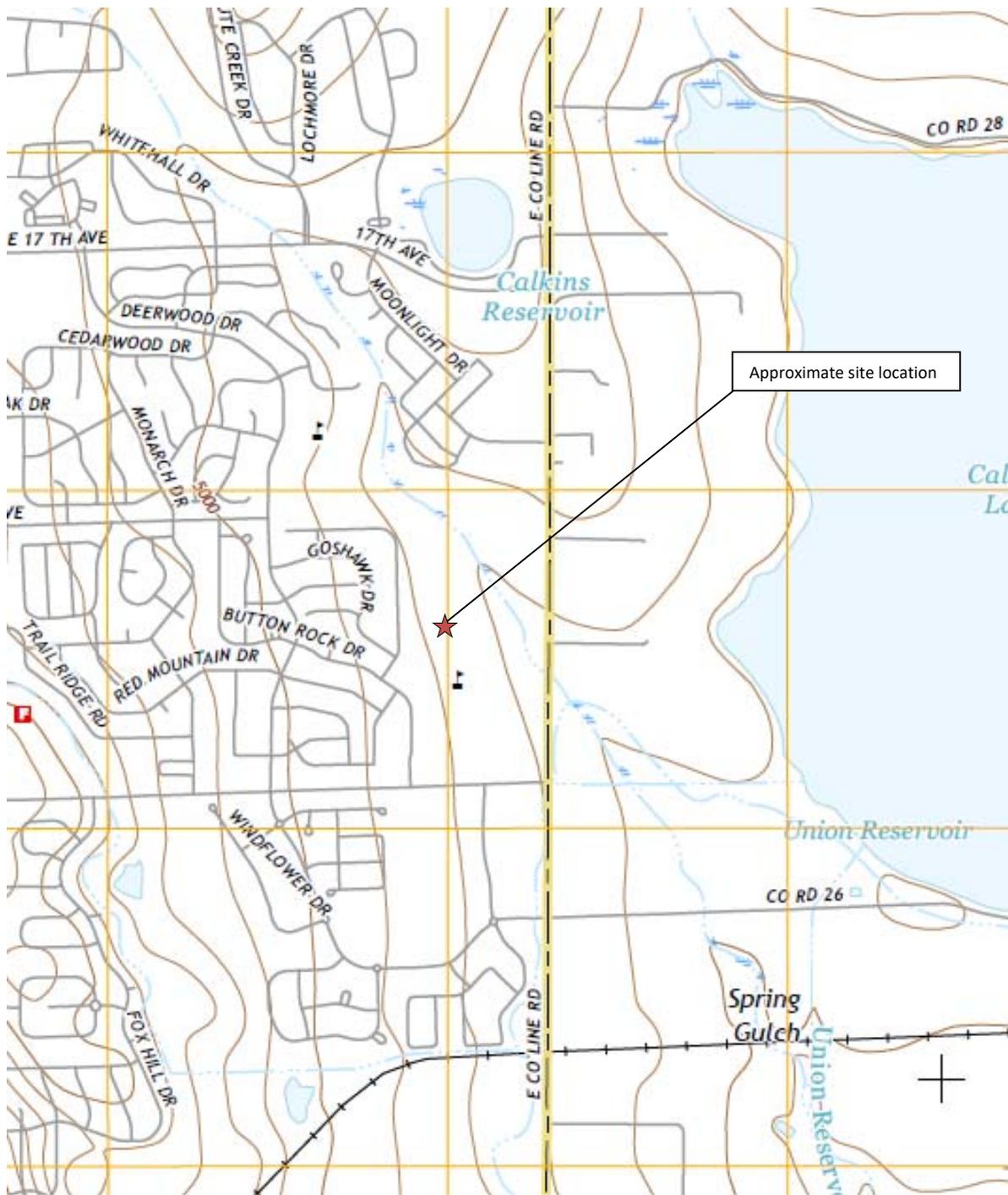
FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Boring Analytical Map

Figure 4: Groundwater Analytical Map



Topographic Site Location Map

Rider #1

Historical Release

40.178822 / -104.058512

NE¼ SE¼ SEC.36 T3N R69W 6PM

Boulder County, Colorado

Remediation #11300



Source: USGS 7.5 Minute Topographic Map, Longmont, CO Quadrangle 2016

Figure 1

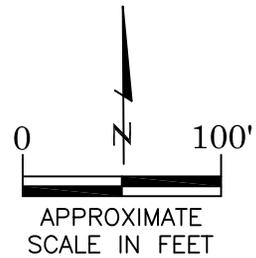


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LEGEND

- RIDER #1 TANK BATTERY
- RIDER #1 WELL HEAD
- APPROXIMATE WATER VAULT LOCATION



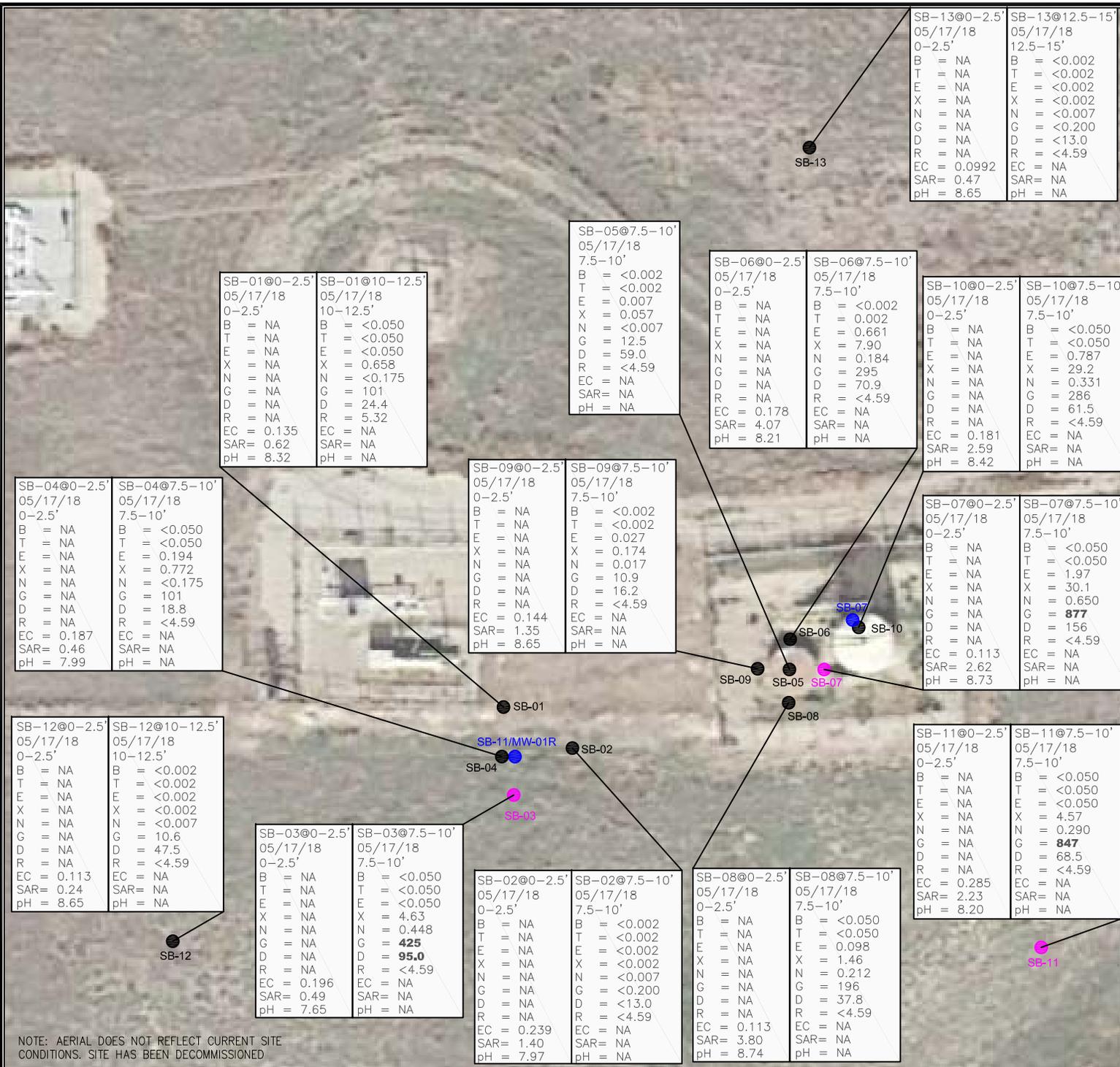
AERIAL SITE LOCATION MAP
RIDER #1
HISTORICAL RELEASE
40.178822 / -105.058512
NE1/4 SE1/4 SEC.36 T3N R69W 6PM
BOULDER COUNTY, COLORADO
REMEDIATION #11300

DATE:
05/11/18

FIG. NO. DRAWN BY:
2 ar



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



LEGEND

- SB-01 APPROXIMATE LOCATION OF PREVIOUS SOIL BORINGS/MONITORING WELLS
- SB-01 APPROXIMATE SOIL BORING LOCATIONS
- SB-01 APPROXIMATE SOIL BORING LOCATIONS ABOVE COGCC TABLE 910-1 LIMITS

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)
 R = TPH-RRO (mg/kg)
 EC = SPECIFIC CONDUCTANCE (mmhos/cm)
 SAR= SODIUM ADSORPTION RATIO
 pH = pH (pH UNITS)

mg/kg = MILLIGRAMS PER KILOGRAM
 mmhos/cm = MILLIMHOS PER CENTIMETER

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

NA = NOT ANALYZED

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

VALUES PRESENTED IN **BOLD** TYPEFACE EXCEED COGCC TABLE 910-1 REGULATORY LIMITS FOR THE COMPOUND

COGCC - COLORADO OIL AND GAS CONSERVATION COMMISSION

APPROXIMATE SCALE IN FEET

SOIL ANALYTICAL MAP
 RIDER #1
 HISTORICAL RELEASE
 40.178822 / -105.058512
 NE1/4 SE1/4 SEC.36 T3N R69W 6PM
 BOULDER COUNTY, COLORADO
 REMEDIATION # 11300

DATE:	05/31/18
DRAWN BY:	or
FIG. NO.	3

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NOTE: AERIAL DOES NOT REFLECT CURRENT SITE CONDITIONS. SITE HAS BEEN DECOMMISSIONED



SB-11/MW-01R
 05/17/18
 B = <4.00
 T = <4.00
 E = 27.4
 X = 180

SB-11/MW-01R

LEGEND

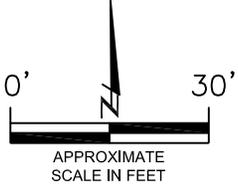
● SB-01 APPROXIMATE LOCATION OF PREVIOUS SOIL BORINGS/MONITORING WELLS

PARAMETERS

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

µg/L = MICROGRAMS PER LITER

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



GROUNDWATER ANALYTICAL MAP
 RIDER #1
 HISTORICAL RELEASE
 40.178822 / -105.058512
 NE1/4 SE1/4 SEC.36 T3N R69W 6PM
 BOULDER COUNTY, COLORADO
 REMEDIATION # 11300

NOTE: AERIAL DOES NOT REFLECT CURRENT SITE CONDITIONS. SITE HAS BEEN DECOMMISSIONED

DATE:
 05/31/18
 DRAWN BY:
 or
 FIG.
 NO. 4



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TABLES

Table 1: Soil Analytical Results Summary

Table 2: Groundwater Analytical Results Summary

TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
RIDER #1
HISTORICAL RELEASE
40.178822 / -105.058512
NE¼ SE¼ SEC.36 T3N R69W 6PM
BOULDER COUNTY, COLORADO
REMEDATION #11300

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
COGCC - Regulatory Limits (Table 910-1) (mg/kg)			0.17	85	100	175	23	500			<4	6 to 9	<12
SB-01@0-2.5' (40.178806/-105.058722)	05/17/18	0-2.5	NA	NA	NA	NA	NA	NA	NA	NA	0.135	8.32	0.62
SB-01@10-12.5' (40.178806/-105.058722)	05/17/18	10-12.5	<0.050	<0.050	<0.050	0.658	<0.175	101	24.4	5.32	NA	NA	NA
SB-02@0-2.5' (40.178782/-105.058673)	05/17/18	0-2.5	NA	NA	NA	NA	NA	NA	NA	NA	0.239	7.97	1.40
SB-02@7.5-10' (40.178782/-105.058673)	05/17/18	7.5-10	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<13.0	<4.59	NA	NA	NA
SB-03@0-2.5' (40.178756/-105.058741)	05/17/18	0-2.5	NA	NA	NA	NA	NA	NA	NA	NA	0.196	7.65	0.49
SB-03@7.5-10' (40.178756/-105.058741)	05/17/18	7.5-10	<0.050	<0.050	<0.050	4.63	0.448	425	95.0	<4.59	NA	NA	NA
SB-04@0-2.5' (40.178778/-105.058722)	05/17/18	0-2.5	NA	NA	NA	NA	NA	NA	NA	NA	0.187	7.99	0.46
SB-04@7.5-10' (40.178778/-105.058722)	05/17/18	7.5-10	<0.050	<0.050	0.194	0.772	<0.175	101	18.8	<4.59	NA	NA	NA
SB-05@7.5-10' (40.178827/-105.058516)	05/17/18	7.5-10	<0.002	<0.002	0.007	0.057	<0.007	12.5	59.0	<4.59	NA	NA	NA
SB-06@0-2.5' (40.178845/-105.058516)	05/17/18	0-2.5	NA	NA	NA	NA	NA	NA	NA	NA	0.178	8.21	4.07
SB-06@7.5-10' (40.178845/-105.058516)	05/17/18	7.5-10	<0.002	0.002	0.661	7.90	0.184	295	70.9	<4.59	NA	NA	NA
SB-07@0-2.5' (40.178826/-105.058485)	05/17/18	0-2.5	NA	NA	NA	NA	NA	NA	NA	NA	0.113	8.73	2.62
SB-07@7.5-10' (40.178826/-105.058485)	05/17/18	7.5-10	<0.050	<0.050	1.97	30.1	0.650	877	156	<4.59	NA	NA	NA
SB-08@0-2.5' (40.178805/-105.058517)	05/17/18	0-2.5	NA	NA	NA	NA	NA	NA	NA	NA	0.113	8.74	3.80
SB-08@7.5-10' (40.178805/-105.058517)	05/17/18	7.5-10	<0.050	<0.050	0.098	1.46	0.212	196	37.8	<4.59	NA	NA	NA
SB-09@0-2.5' (40.178821/-105.058550)	05/17/18	0-2.5	NA	NA	NA	NA	NA	NA	NA	NA	0.144	8.65	1.35
SB-09@7.5-10' (40.178821/-105.058550)	05/17/18	7.5-10	<0.002	<0.002	0.027	0.174	0.017	10.9	16.2	<4.59	NA	NA	NA
SB-10@0-2.5' (40.178853/-105.058453)	05/17/18	0-2.5	NA	NA	NA	NA	NA	NA	NA	NA	0.181	8.42	2.59
SB-10@10-12.5' (40.178853/-105.058453)	05/17/18	10-12.5	<0.050	<0.050	0.787	29.2	0.331	286	61.5	<4.59	NA	NA	NA
SB-11@0-2.5' (40.178672/-105.058327)	05/17/18	0-2.5	NA	NA	NA	NA	NA	NA	NA	NA	0.285	8.20	2.23
SB-11@7.5-10' (40.178672/-105.058327)	05/17/18	7.5-10	<0.050	<0.050	<0.050	4.57	0.290	847	68.5	<4.59	NA	NA	NA
SB-12@0-2.5' (40.178674/-105.058974)	05/17/18	0-2.5	NA	NA	NA	NA	NA	NA	NA	NA	0.113	8.65	0.24
SB-12@10-12.5' (40.178674/-105.058974)	05/17/18	10-12.5	<0.002	<0.002	<0.002	<0.002	<0.007	10.6	47.5	<4.59	NA	NA	NA
SB-13@0-2.5' (40.179119/-105.058492)	05/17/18	0-2.5	NA	NA	NA	NA	NA	NA	NA	NA	0.0992	8.65	0.47
SB-13@12.5-15' (40.179119/-105.058492)	05/17/18	12.5-15	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<13.0	<4.59	NA	NA	NA

COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram NA - Not Applicable
 TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics
 TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics
 TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics
 Values presented in **bold** indicate concentrations exceeded COGCC Table 910-1 regulatory limits.
 Values presented with a "<" symbol indicate concentrations were not observed above the laboratory reporting limit.



TABLE 2
GROUNDWATER ANALYTICAL RESULTS SUMMARY
RIDER #1
HISTORICAL RELEASE
40.178822 / -105.058512
NE¼ SE¼ SEC.36 T3N R69W 6PM
WELD COUNTY, COLORADO
REMEDIATION #11300

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-01R (40.178764 / -105.058722)	05/17/18	<4.00	<4.00	27.4	180
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.					

ATTACHMENT A

Boring Logs

Boring Log/Well Completion Diagram: SB-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	(0-13.5') silty CLAY - brown, dry-wet, stiff, low plasticity, poorly graded w/ 20% silt black HC staining + odor @ 10-12'	CL	DP	1	75	0.0	N/A	5		Wet at 9'
5						0.0				
10			DP	2	75	0.0	N/A			
10						503.5				
15			DP	3	75	618.4	N/A			
15						29.5				
15	SW									
15	BoB @ 15'									
20										
25										
30										

DP - Direct Push
 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: 05/17/2018	SAND PACK INTERVAL (FEET): N/A
PROJECT: RIDER #1	BENTONITE/GROUT INTERVAL (FEET): N/A
LOGGED BY: A. ROMANSKY	WELL SCREEN INTERVAL (FEET): N/A
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): N/A
BORING DEPTH (FEET): 15'	WELL DEPTH (FEET): N/A
PID INSTRUMENT: MiniRAE 3000 - PID #13	
TIME STARTED/COMPLETED: 0915/0945	
SAMPLE COLLECTION DEPTH (FEET)/TIME: 0-2.5'/0920; 10-12.5/0935	



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Boring Log/Well Completion Diagram: SB-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	(0-14') silty CLAY - brown, dry-wet, stiff, low plasticity, poorly graded w/ 20% silt black HC staining + odor @ 10-12'	CL	DP	1	50	1.0	N/A			Wet at 9'
5						0.0				
5			DP	2	75	0.0	N/A			
10						8.1				
10			DP	3	50	7.2	N/A			
15						4.9				
15	SW									
15	BoB @ 15'									
20										
25										
30										

DP - Direct Push
 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: 05/17/2018	SAND PACK INTERVAL (FEET): N/A
PROJECT: RIDER #1	BENTONITE/GROUT INTERVAL (FEET): N/A
LOGGED BY: A. ROMANSKY	WELL SCREEN INTERVAL (FEET): N/A
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): N/A
BORING DEPTH (FEET): 15'	WELL DEPTH (FEET): N/A
PID INSTRUMENT: MiniRAE 3000 - PID #13	
TIME STARTED/COMPLETED: 0950/1015	
SAMPLE COLLECTION DEPTH (FEET)/TIME: 0-2.5'/0955; 7.5-10/1005	



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Boring Log/Well Completion Diagram: SB-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	(0-13') silty CLAY - brown, dry-wet, stiff, low plasticity, poorly graded w/ 20% silt black HC staining + odor @ 9-12'	CL	DP	1	75	0.0	N/A			
5						0.0				
10			(13-15') gravelly SAND - brown, wet, medium dense, medium to coarse grained, well graded w/ 20% gravel N/O N/S	SW	DP	2	75	0.0	N/A	
15	389.6									
15	BoB @ 15'					195.8	N/A			
20						13.4				
25										
30										

DP - Direct Push
 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: 05/17/2018	SAND PACK INTERVAL (FEET): N/A
PROJECT: RIDER #1	BENTONITE/GROUT INTERVAL (FEET): N/A
LOGGED BY: A. ROMANSKY	WELL SCREEN INTERVAL (FEET): N/A
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): N/A
BORING DEPTH (FEET): 15'	WELL DEPTH (FEET): N/A
PID INSTRUMENT: MiniRAE 3000 - PID #13	
TIME STARTED/COMPLETED: 1020/1100	
SAMPLE COLLECTION DEPTH (FEET)/TIME: 0-2.5'/1025; 7.5-10/1035	



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Boring Log/Well Completion Diagram: SB-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	(0-13') silty CLAY - brown, dry-wet, stiff, low plasticity, poorly graded w/ 20% silt black HC staining + odor @ 9-12'	CL	DP	1	75	0.0	N/A			
5						0.0				
5			DP	2	30	NS	N/A			
10		587.4								
10		DP	3	50	503.2	N/A				
15					12.4					
15	SW									
15	BoB @ 15'									
20										
25										
30										

NS - no sample, low recovery

Wet at 9'

DP - Direct Push
 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: 05/17/2018		SAND PACK INTERVAL (FEET): N/A
PROJECT: RIDER #1		BENTONITE/GROUT INTERVAL (FEET): N/A
LOGGED BY: A. ROMANSKY		WELL SCREEN INTERVAL (FEET): N/A
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): N/A
BORING DEPTH (FEET): 15'	WELL DEPTH (FEET): N/A	 <p>EAGLE ENVIRONMENTAL CONSULTING, INC. 4101 INCA STREET, DENVER, CO 80211 Ph: 303-433-0479 • F: 303-325-5449</p>
PID INSTRUMENT: MiniRAE 3000 - PID #13		
TIME STARTED/COMPLETED: 1110/1145		
SAMPLE COLLECTION DEPTH (FEET)/TIME: 0-2.5'/1115; 7.5-10/1135		

Boring Log/Well Completion Diagram: SB-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	(0-8') Backfill					NS	N/A		NS - no sample, low recovery	
		DP	1	0	NS					
5	(8-13') silty CLAY - brown, dry-wet, stiff, low plasticity, poorly graded w/ 20% silt black HC staining + odor @ 9-10'					0.0	N/A		Wet at 9'	
		DP	2	40	53.9					
10	(13-15') gravelly SAND - brown, wet, medium dense, medium to coarse grained, well graded w/ 10% gravel N/O N/S	CL				3.3	N/A			
		DP	3	75	0.4					
15	BoB @ 15'	SW								
20										
25										
30										

DP - Direct Push
 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: 05/17/2018		SAND PACK INTERVAL (FEET): N/A
PROJECT: RIDER #1		BENTONITE/GROUT INTERVAL (FEET): N/A
LOGGED BY: A. ROMANSKY		WELL SCREEN INTERVAL (FEET): N/A
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): N/A
BORING DEPTH (FEET): 15'	WELL DEPTH (FEET): N/A	 <p>EAGLE ENVIRONMENTAL CONSULTING, INC. 4101 INCA STREET, DENVER, CO 80211 Ph: 303-433-0479 • F: 303-325-5449</p>
PID INSTRUMENT: MiniRAE 3000 - PID #13		
TIME STARTED/COMPLETED: 1215/1245		
SAMPLE COLLECTION DEPTH (FEET)/TIME: 7.5-10/1230		

Boring Log/Well Completion Diagram: SB-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	(0-12') silty CLAY - brown, dry-wet, stiff, low plasticity, poorly graded w/ 20% silt black HC staining + odor @ 9-12'	CL	DP	1	75	0.5	N/A			
						0.4				
5			CL	DP	2	75	0.2	N/A		
							50.1			
10		(12-15') gravelly SAND - brown, wet, medium dense, medium to coarse grained, well graded w/ 10% gravel N/O N/S	SW	DP	3	75	19.9	N/A		
15	BoB @ 15'									
20										
25										
30										

Wet at 9'

DP - Direct Push
 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: 05/17/2018		SAND PACK INTERVAL (FEET): N/A
PROJECT: RIDER #1		BENTONITE/GROUT INTERVAL (FEET): N/A
LOGGED BY: A. ROMANSKY		WELL SCREEN INTERVAL (FEET): N/A
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): N/A
BORING DEPTH (FEET): 15'	WELL DEPTH (FEET): N/A	 <p>EAGLE ENVIRONMENTAL CONSULTING, INC. 4101 INCA STREET, DENVER, CO 80211 Ph: 303-433-0479 • F: 303-325-5449</p>
PID INSTRUMENT: MiniRAE 3000 - PID #13		
TIME STARTED/COMPLETED: 1245/1330		
SAMPLE COLLECTION DEPTH (FEET)/TIME: 0-2.5/1250; 7.5-10/1315		

Boring Log/Well Completion Diagram: SB-07

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS				
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %									
0	(0-12') silty CLAY - brown, dry-wet, stiff, low plasticity, poorly graded w/ 20% silt black HC staining + odor @ 8-11'	CL	DP	1	50	0.7	N/A	-		Wet at 9'				
5						0.4								
10			DP	2	75	0.5								
10						2026								
15		(12-15') gravelly SAND - brown, wet, medium dense, medium to coarse grained, well graded w/ 10% gravel N/O N/S	SW	DP	3	75	25.8				N/A	-		
15							7.2							
15	BoB @ 15'													
20														
25														
30														

DP - Direct Push
 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: 05/17/2018	SAND PACK INTERVAL (FEET): N/A
PROJECT: RIDER #1	BENTONITE/GROUT INTERVAL (FEET): N/A
LOGGED BY: A. ROMANSKY	WELL SCREEN INTERVAL (FEET): N/A
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): N/A
BORING DEPTH (FEET): 15'	WELL DEPTH (FEET): N/A
PID INSTRUMENT: MiniRAE 3000 - PID #13	
TIME STARTED/COMPLETED: 1335/1410	
SAMPLE COLLECTION DEPTH (FEET)/TIME: 0-2.5/1340; 7.5-10/1400	



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Boring Log/Well Completion Diagram: SB-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	(0-12') silty CLAY - brown, dry-wet, stiff, low plasticity, poorly graded w/ 20% silt black HC staining + odor @ 9-10'	CL	DP	1	50	0.6	N/A			Wet at 9'
5						0.7				
10			DP	2	50	1.7	N/A			
15						408.8				
15	(12-15') gravelly SAND - brown, wet, medium dense, medium to coarse grained, well graded w/ 10% gravel N/O N/S	SW	DP	3	75	10.5	N/A			
20						5.6				
25	BoB @ 15'									

DP - Direct Push
 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: 05/17/2018		SAND PACK INTERVAL (FEET): N/A	
PROJECT: RIDER #1		BENTONITE/GROUT INTERVAL (FEET): N/A	
LOGGED BY: A. ROMANSKY		WELL SCREEN INTERVAL (FEET): N/A	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): N/A	
BORING DEPTH (FEET): 15'	WELL DEPTH (FEET): N/A	 <p>EAGLE ENVIRONMENTAL CONSULTING, INC. 4101 INCA STREET, DENVER, CO 80211 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000 - PID #13			
TIME STARTED/COMPLETED: 1410/1440			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 0-2.5/1415; 7.5-10/1430			

Boring Log/Well Completion Diagram: SB-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	(0-12.5') silty CLAY - brown, dry-wet, stiff, low plasticity, poorly graded w/ 20% silt black HC staining + odor @ 9-10'	CL	DP	1	75	0.3	N/A			Wet at 9'
5						0.3				
10			DP	2	75	1.1	N/A			
15						51.5				
20			DP	3	75	2.3	N/A			
25						0.7				
30		SW								
	BoB @ 15'									

DP - Direct Push
 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: 05/17/2018		SAND PACK INTERVAL (FEET): N/A
PROJECT: RIDER #1		BENTONITE/GROUT INTERVAL (FEET): N/A
LOGGED BY: A. ROMANSKY		WELL SCREEN INTERVAL (FEET): N/A
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): N/A
BORING DEPTH (FEET): 15'	WELL DEPTH (FEET): N/A	 <p>EAGLE ENVIRONMENTAL CONSULTING, INC. 4101 INCA STREET, DENVER, CO 80211 Ph: 303-433-0479 • F: 303-325-5449</p>
PID INSTRUMENT: MiniRAE 3000 - PID #13		
TIME STARTED/COMPLETED: 1445/1515		
SAMPLE COLLECTION DEPTH (FEET)/TIME: 0-2.5/1450; 7.5-10/1505		

Boring Log/Well Completion Diagram: SB-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	(0-12') silty CLAY - brown, dry-wet, stiff, low plasticity, poorly graded w/ 20% silt black HC staining + odor @ 8-12'	CL	DP	1	50	1.2	N/A			Wet at 9'
5						1.0				
5		CL	DP	2	50	3.5	N/A			
10						311.5				
10		SW	DP	3	75	433.7	N/A			
15						16.8				
15	BoB @ 15'									
20										
25										
30										

DP - Direct Push
 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: 05/17/2018		SAND PACK INTERVAL (FEET): N/A
PROJECT: RIDER #1		BENTONITE/GROUT INTERVAL (FEET): N/A
LOGGED BY: A. ROMANSKY		WELL SCREEN INTERVAL (FEET): N/A
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): N/A
BORING DEPTH (FEET): 15'	WELL DEPTH (FEET): N/A	 <p>EAGLE ENVIRONMENTAL CONSULTING, INC. 4101 INCA STREET, DENVER, CO 80211 Ph: 303-433-0479 • F: 303-325-5449</p>
PID INSTRUMENT: MiniRAE 3000 - PID #13		
TIME STARTED/COMPLETED: 1530/1605		
SAMPLE COLLECTION DEPTH (FEET)/TIME: 0-2.5/1535; 10-12.5/1555		

Boring Log/Well Completion Diagram: SB-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	(0-12') silty CLAY - brown, dry-wet, stiff, low plasticity, poorly graded w/ 20% silt black HC staining + odor @ 8-10'	CL	DP	1	75	0.9	N/A		Wet at 9'	
5						0.7				
5		CL	DP	2	75	0.6	N/A			
10						503.0				
10		SW	DP	3	75	11.9	N/A			
15						4.0				
15	BoB @ 15'									
20										
25										
30										

DP - Direct Push
 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: 05/17/2018		SAND PACK INTERVAL (FEET): N/A
PROJECT: RIDER #1		BENTONITE/GROUT INTERVAL (FEET): N/A
LOGGED BY: A. ROMANSKY		WELL SCREEN INTERVAL (FEET): N/A
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): N/A
BORING DEPTH (FEET): 15'	WELL DEPTH (FEET): N/A	 <p>EAGLE ENVIRONMENTAL CONSULTING, INC. 4101 INCA STREET, DENVER, CO 80211 Ph: 303-433-0479 • F: 303-325-5449</p>
PID INSTRUMENT: MiniRAE 3000 - PID #13		
TIME STARTED/COMPLETED: 1610/1640		
SAMPLE COLLECTION DEPTH (FEET)/TIME: 0-2.5/1615; 7.5-10/1635		

Boring Log/Well Completion Diagram: SB-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	(0-12') silty CLAY - brown, dry-wet, stiff, low plasticity, poorly graded w/ 20% silt slight black HC staining @ 11'	CL	DP	1	75	0.9	N/A	5		
						1.3				
5			DP	2	75	0.7	N/A	10		
						0.4				
10		(12-15') gravelly SAND - brown, wet, medium dense, medium to coarse grained, well graded w/ 10% gravel N/O N/S	SW	DP	3	75	17.9	N/A		15
15	BoB @ 15'									
20										
25										
30										

Wet at 9'

DP - Direct Push
 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: 05/17/2018		SAND PACK INTERVAL (FEET): N/A
PROJECT: RIDER #1		BENTONITE/GROUT INTERVAL (FEET): N/A
LOGGED BY: A. ROMANSKY		WELL SCREEN INTERVAL (FEET): N/A
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): N/A
BORING DEPTH (FEET): 15'	WELL DEPTH (FEET): N/A	 <p>EAGLE ENVIRONMENTAL CONSULTING, INC. 4101 INCA STREET, DENVER, CO 80211 Ph: 303-433-0479 • F: 303-325-5449</p>
PID INSTRUMENT: MiniRAE 3000 - PID #13		
TIME STARTED/COMPLETED: 1645/1710		
SAMPLE COLLECTION DEPTH (FEET)/TIME: 0-2.5/1650; 10-12.5/1705		

Boring Log/Well Completion Diagram: SB-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	(0-10') silty CLAY - brown, dry-wet, stiff, low plasticity, poorly graded w/ 20% silt N/O N/S	CL	DP	1	75	0.0	N/A		Wet at 9'	
5						0.0				
10		CL	DP	2	75	0.0	N/A			
15						0.0				
15		(10-15') gravelly SAND - brown, wet, medium dense, medium to coarse grained, well graded w/ 10% gravel N/O N/S	SW	DP	3	75	0.0	N/A		
20							0.0			
30	BoB @ 15'									

DP - Direct Push
 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: 05/17/2018	SAND PACK INTERVAL (FEET): N/A
PROJECT: RIDER #1	BENTONITE/GROUT INTERVAL (FEET): N/A
LOGGED BY: A. ROMANSKY	WELL SCREEN INTERVAL (FEET): N/A
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): N/A
BORING DEPTH (FEET): 15'	WELL DEPTH (FEET): N/A
PID INSTRUMENT: MiniRAE 3000 - PID #13	
TIME STARTED/COMPLETED: 1715/1740	
SAMPLE COLLECTION DEPTH (FEET)/TIME: 0-2.5/1720; 12.5-15/1735	



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ATTACHMENT B

Laboratory Analytical Report



May 31, 2018

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver CO 80211

Project Name - Rider #1

Project Number - [none]

Attached are your analytical results for Rider #1 received by Origins Laboratory, Inc. May 22, 2018. This project is associated with Origins project number Y805324-01.

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

Martin C Eckert III
Project Number: [none]
Project: Rider #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-01@0-2.5'	Y805324-01	Soil	May 17, 2018 9:20	05/22/2018 09:25
SB-01@10-12.5'	Y805324-02	Soil	May 17, 2018 9:35	05/22/2018 09:25
SB-02@0-2.5'	Y805324-03	Soil	May 17, 2018 9:55	05/22/2018 09:25
SB-02@7.5-10'	Y805324-04	Soil	May 17, 2018 10:05	05/22/2018 09:25
SB-03@0-2.5'	Y805324-05	Soil	May 17, 2018 10:25	05/22/2018 09:25
SB-03@7.5-10'	Y805324-06	Soil	May 17, 2018 10:35	05/22/2018 09:25
SB-04@0-2.5'	Y805324-07	Soil	May 17, 2018 11:15	05/22/2018 09:25
SB-04@7.5-10'	Y805324-08	Soil	May 17, 2018 11:35	05/22/2018 09:25
SB-05@7.5-10'	Y805324-09	Soil	May 17, 2018 12:30	05/22/2018 09:25
SB-06@0-2.5'	Y805324-10	Soil	May 17, 2018 12:50	05/22/2018 09:25
SB-06@7.5-10'	Y805324-11	Soil	May 17, 2018 13:15	05/22/2018 09:25
SB-07@0-2.5'	Y805324-12	Soil	May 17, 2018 13:40	05/22/2018 09:25
SB-07@7.5-10'	Y805324-13	Soil	May 17, 2018 14:00	05/22/2018 09:25
SB-08@0-2.5'	Y805324-14	Soil	May 17, 2018 14:15	05/22/2018 09:25

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-08@7.5-10'	Y805324-15	Soil	May 17, 2018 14:30	05/22/2018 09:25
SB-09@0-2.5'	Y805324-16	Soil	May 17, 2018 14:50	05/22/2018 09:25
SB-09@7.5-10'	Y805324-17	Soil	May 17, 2018 15:05	05/22/2018 09:25
SB-10@0-2.5'	Y805324-18	Soil	May 17, 2018 15:35	05/22/2018 09:25
SB-10@10-12.5'	Y805324-19	Soil	May 17, 2018 15:55	05/22/2018 09:25
SB-11@0-2.5'	Y805324-20	Soil	May 17, 2018 16:15	05/22/2018 09:25
SB-11@7.5-10'	Y805324-21	Soil	May 17, 2018 16:35	05/22/2018 09:25
SB-12@0-2.5'	Y805324-22	Soil	May 17, 2018 16:50	05/22/2018 09:25
SB-12@10-12.5'	Y805324-23	Soil	May 17, 2018 17:05	05/22/2018 09:25
SB-13@0-2.5'	Y805324-24	Soil	May 17, 2018 17:20	05/22/2018 09:25
SB-13@12.5-15'	Y805324-25	Soil	May 17, 2018 17:35	05/22/2018 09:25
MW-01R	Y805324-26	Water	May 17, 2018 18:05	05/22/2018 09:25

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

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1465324 page 1 of 3

ORIGINS
 LABORATORY, INC

Client: EMBLE ENV CONSULTING
 Address: 4101 INCA ST
DENVER, CO
 Telephone Number: 303 433 0479
 Email Address: m.c.eckert@originslab.com

Project Manager: MARTIN ECKERT III
 Project Name: REDELL #1
 Project Number:
 Samples Collected By: ME

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 Sample #	Other	GC/MS	DIC	NPH/THAN	REC		EC, PA, SQZ	
SB-01@0-2.5	5/17/18	920	2	X						X							X	
SB-01@10-12.5		935																
SB-02@0-2.5		935																
SB-02@7.5-10		1005																
SB-03@0-2.5		1025																
SB-03@7.5-10		1035																
SB-04@0-2.5		1115																
SB-04@7.5-10		1135																
SB-05@7.5-10		1230																
SB-06@0-2.5		1250																
Relinquished By: <u>[Signature]</u>	Date: 5/17/18	Time: 925	Time: 925	Received By: <u>[Signature]</u>	Date: 5/22/18	Time: 925	Time: 925	Received By: <u>[Signature]</u>	Date: 5/22/18	Time: 925	Time: 925	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard <input checked="" type="checkbox"/>						

Report ID: ALEX, ANJOLEN, MARTIN, TIZESHIA Temp Received: 5/1 Date Results Needed

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

www.originslaboratory.com

1225084

ORIGINS
 LABORATORY, INC

page 2 of 3

Client: EAGLE ENV CONSULTING
 Address: 4101 INCA ST
DENVER, CO
 Telephone Number: 303 433 0179
 Email Address: MIC3@eagle-env.com

Project Manager: MARTIN ECKERT III
 Project Name: RIDER #1
 Project Number: _____
 Samples Collected By: MC

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	GREX	DRO	MPH/MSK		REU	EPL/SLK		
SB-06 @ 7.5-10	5/17/18	1315	2	X				X				X	X	X					
SB-07 @ 0-2.5		1340	1										X	X					
SB-07 @ 7.5-10		1400											X	X					
SB-08 @ 0-2.5		1415											X	X					
SB-08 @ 7.5-10		1430											X	X					
SB-09 @ 0-2.5		1450											X	X					
SB-09 @ 7.5-10		1505											X	X					
SB-10 @ 0-2.5		1535											X	X					
SB-10 @ 10-12.5		1555											X	X					
SB-11 @ 0-2.5		1615											X	X					
Relinquished By: <u>[Signature]</u>	Date: <u>5/22/18</u>	Time: <u>925</u>		Receivd By: <u>[Signature]</u>	Date: <u>5/22/18</u>	Time: <u>925</u>		Standard <input checked="" type="checkbox"/>	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/>										
Relinquished By:	Date:	Time:		Received By:	Date:	Time:													

Date Results Needed

Temp Received: 5.1

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini For Noelle Doyle Mathis, President

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

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1805324

Client: Eagle

Client Project ID: Rider #1

Checklist Completed by: JG

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

Date/time completed: 5/22/2018

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 5.1 °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⁾ ?	/			
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 (> ¼ inch bubble) 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 in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JG

Date/Time Reviewed 5/23/18

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

SB-01@0-2.5'
5/17/2018 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
Y805324-01 (Soil)

Metals (Saturated Paste Prep)

Calcium	2.11			me/L	1	'[none]'	05/23/2018	05/25/2018	
Magnesium	1.38			"	"	"	"	"	
Sodium	0.82			"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.32			pH Units	1	B8E2404	05/24/2018	05/25/2018	
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SAR by 20B Saturated Paste

SAR	0.62				1	'[none]'	05/23/2018	05/25/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.135			mmhos/cm	1	B8E2405	05/24/2018	05/27/2018	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

SB-01@10-12.5'
5/17/2018 9:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805324-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	24.4	13.0	50.0	mg/kg	1	B8E2403	05/24/2018	05/25/2018	
Residual Range Organics (C28-C40)	5.32	4.59	200	"	"	"	"	"	

Surrogate: *o*-Terphenyl 78.2 % 59-131 " " "

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	101		5.00	mg/kg	25	B8E2402	05/24/2018	05/27/2018	
Benzene	ND		0.050	"	"	"	"	"	U
Toluene	ND		0.050	"	"	"	"	"	U
Ethylbenzene	ND		0.050	"	"	"	"	"	U
Xylenes, total	0.658		0.050	"	"	"	"	"	
Napthalene	ND		0.175	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 91.8 % 70-130 " " "
 Surrogate: Toluene-d8 98.6 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.5 % 70-130 " " "

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

SB-02@0-2.5'

5/17/2018 9:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
Y805324-03 (Soil)

Metals (Saturated Paste Prep)

Calcium	1.99			me/L	1	'[none]'	05/23/2018	05/25/2018	
Magnesium	1.05			"	"	"	"	"	
Sodium	1.72			"	"	"	"	"	

pH in Soil by EPA 9045D

pH	7.97			pH Units	1	B8E2404	05/24/2018	05/25/2018	
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SAR by 20B Saturated Paste

SAR	1.40				1	'[none]'	05/23/2018	05/25/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.239			mmhos/cm	1	B8E2405	05/24/2018	05/27/2018	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

SB-02@7.5-10'

5/17/2018 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805324-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	13.0	50.0	mg/kg	1	B8E2403	05/24/2018	05/25/2018	U
Residual Range Organics (C28-C40)	ND	4.59	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.1 %		59-131			"	"	"	
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B8E2402	05/24/2018	05/27/2018	U
Benzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Xylenes, total	ND		0.002	"	"	"	"	"	U
Naphthalene	ND		0.007	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.0 %		70-130			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

SB-03@0-2.5'

5/17/2018 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
Y805324-05 (Soil)

Metals (Saturated Paste Prep)

Calcium	2.20			me/L	1	'[none]'	05/23/2018	05/25/2018	
Magnesium	0.93			"	"	"	"	"	
Sodium	0.61			"	"	"	"	"	

pH in Soil by EPA 9045D

pH	7.65			pH Units	1	B8E2404	05/24/2018	05/25/2018	
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SAR by 20B Saturated Paste

SAR	0.49				1	'[none]'	05/23/2018	05/25/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.196			mmhos/cm	1	B8E2405	05/24/2018	05/27/2018	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

SB-03@7.5-10'

5/17/2018 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805324-06 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	95.0	13.0	50.0	mg/kg	1	B8E2403	05/24/2018	05/25/2018	
Residual Range Organics (C28-C40)	ND	4.59	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	78.2 %		59-131			"	"	"	
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	425		5.00	mg/kg	25	B8E2402	05/24/2018	05/27/2018	
Benzene	ND		0.050	"	"	"	"	"	U
Toluene	ND		0.050	"	"	"	"	"	U
Ethylbenzene	ND		0.050	"	"	"	"	"	U
Xylenes, total	4.63		0.050	"	"	"	"	"	
Napthalene	0.448		0.175	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.0 %		70-130			"	"	"	
Surrogate: Toluene-d8	95.9 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	131 %		70-130			"	"	"	S-DUP

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

SB-04@0-2.5'

5/17/2018 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
Y805324-07 (Soil)

Metals (Saturated Paste Prep)

Calcium	1.66			me/L	1	'[none]'	05/23/2018	05/25/2018	
Magnesium	0.73			"	"	"	"	"	
Sodium	0.50			"	"	"	"	"	

pH in Soil by EPA 9045D

pH	7.99			pH Units	1	B8E2404	05/24/2018	05/25/2018	
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SAR by 20B Saturated Paste

SAR	0.46				1	'[none]'	05/23/2018	05/25/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.187			mmhos/cm	1	B8E2405	05/24/2018	05/27/2018	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

SB-04@7.5-10'

5/17/2018 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805324-08 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	18.8	13.0	50.0	mg/kg	1	B8E2403	05/24/2018	05/25/2018	
Residual Range Organics (C28-C40)	ND	4.59	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.2 %		59-131			"	"	"	
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	101		5.00	mg/kg	25	B8E2402	05/24/2018	05/27/2018	
Benzene	ND		0.050	"	"	"	"	"	U
Toluene	ND		0.050	"	"	"	"	"	U
Ethylbenzene	0.194		0.050	"	"	"	"	"	
Xylenes, total	0.772		0.050	"	"	"	"	"	
Napthalene	ND		0.175	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.0 %		70-130			"	"	"	
Surrogate: Toluene-d8	99.2 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %		70-130			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

SB-05@7.5-10'

5/17/2018 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805324-09 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	59.0	13.0	50.0	mg/kg	1	B8E2403	05/24/2018	05/25/2018	
Residual Range Organics (C28-C40)	ND	4.59	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.6 %		59-131			"	"	"	
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	12.5		0.200	mg/kg	1	B8E2402	05/24/2018	05/27/2018	
Benzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	0.007		0.002	"	"	"	"	"	
Xylenes, total	0.057		0.002	"	"	"	"	"	
Napthalene	ND		0.007	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			"	"	"	
Surrogate: Toluene-d8	111 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	130 %		70-130			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

SB-06@0-2.5'

5/17/2018 12:50:00PM

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

AAL, Inc.
Y805324-10 (Soil)

Metals (Saturated Paste Prep)

Calcium	1.41			me/L	1	'[none]'	05/23/2018	05/25/2018	
Magnesium	0.65			"	"	"	"	"	
Sodium	4.13			"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.21			pH Units	1	B8E2404	05/24/2018	05/25/2018	
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SAR by 20B Saturated Paste

SAR	4.07				1	'[none]'	05/23/2018	05/25/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.178			mmhos/cm	1	B8E2405	05/24/2018	05/27/2018	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

SB-06@7.5-10'
5/17/2018 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805324-11 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	70.9	13.0	50.0	mg/kg	1	B8E2403	05/24/2018	05/25/2018	
Residual Range Organics (C28-C40)	ND	4.59	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 80.5 % 59-131 " " "

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	295		5.00	mg/kg	25	B8E2402	05/24/2018	05/29/2018	
Benzene	ND		0.002	"	1	"	"	05/27/2018	U
Toluene	0.002		0.002	"	"	"	"	"	
Ethylbenzene	0.661		0.050	"	25	"	"	05/29/2018	
Xylenes, total	7.90		0.050	"	"	"	"	"	
Naphthalene	0.184		0.007	"	1	"	"	05/27/2018	

Surrogate: 1,2-Dichloroethane-d4 96.2 % 70-130 " " 05/29/2018
 Surrogate: Toluene-d8 97.2 % 70-130 " " 05/27/2018
 Surrogate: 4-Bromofluorobenzene 115 % 70-130 " " 05/29/2018

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

SB-07@0-2.5'
5/17/2018 1:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
Y805324-12 (Soil)

Metals (Saturated Paste Prep)

Calcium	1.21			me/L	1	'[none]'	05/23/2018	05/25/2018	
Magnesium	0.48			"	"	"	"	"	
Sodium	2.41			"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.73			pH Units	1	B8E2404	05/24/2018	05/25/2018	
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SAR by 20B Saturated Paste

SAR	2.62				1	'[none]'	05/23/2018	05/25/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.113			mmhos/cm	1	B8E2405	05/24/2018	05/27/2018	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

SB-07@7.5-10'
5/17/2018 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805324-13 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	156	13.0	50.0	mg/kg	1	B8E2403	05/24/2018	05/25/2018	
Residual Range Organics (C28-C40)	ND	4.59	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 79.5 % 59-131 " " "

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	877		50.0	mg/kg	250	B8E2402	05/24/2018	05/29/2018	
Benzene	ND		0.050	"	25	"	"	05/28/2018	U
Toluene	ND		0.050	"	"	"	"	"	U
Ethylbenzene	1.97		0.050	"	"	"	"	"	
Xylenes, total	30.1		0.498	"	250	"	"	05/29/2018	
Naphthalene	0.650		0.175	"	25	"	"	05/28/2018	

Surrogate: 1,2-Dichloroethane-d4 93.7 % 70-130 " " "
 Surrogate: Toluene-d8 97.4 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 129 % 70-130 " " "

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

SB-08@0-2.5'

5/17/2018 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
Y805324-14 (Soil)

Metals (Saturated Paste Prep)

Calcium	0.79			me/L	1	'[none]'	05/23/2018	05/25/2018	
Magnesium	0.32			"	"	"	"	"	
Sodium	2.83			"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.74			pH Units	1	B8E2404	05/24/2018	05/25/2018	
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SAR by 20B Saturated Paste

SAR	3.80				1	'[none]'	05/23/2018	05/25/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.113			mmhos/cm	1	B8E2405	05/24/2018	05/27/2018	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

SB-08@7.5-10'
5/17/2018 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805324-15 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	37.8	13.0	50.0	mg/kg	1	B8E2403	05/24/2018	05/25/2018	
Residual Range Organics (C28-C40)	ND	4.59	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	75.2 %		59-131			"	"	"	
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	196		5.00	mg/kg	25	B8E2402	05/24/2018	05/27/2018	
Benzene	ND		0.050	"	"	"	"	"	U
Toluene	ND		0.050	"	"	"	"	"	U
Ethylbenzene	0.098		0.050	"	"	"	"	"	
Xylenes, total	1.46		0.050	"	"	"	"	"	
Naphthalene	0.212		0.175	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	92.0 %		70-130			"	"	"	
Surrogate: Toluene-d8	103 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	116 %		70-130			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

SB-09@0-2.5'
5/17/2018 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
Y805324-16 (Soil)

Metals (Saturated Paste Prep)

Calcium	1.57			me/L	1	'[none]'	05/23/2018	05/25/2018	
Magnesium	0.75			"	"	"	"	"	
Sodium	1.45			"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.65			pH Units	1	B8E2404	05/24/2018	05/25/2018	
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SAR by 20B Saturated Paste

SAR	1.35				1	'[none]'	05/23/2018	05/25/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.144			mmhos/cm	1	B8E2405	05/24/2018	05/27/2018	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

SB-09@7.5-10'
5/17/2018 3:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805324-17 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	16.2	13.0	50.0	mg/kg	1	B8E2403	05/24/2018	05/25/2018	
Residual Range Organics (C28-C40)	ND	4.59	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	83.8 %		59-131			"	"	"	
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	10.9		0.200	mg/kg	1	B8E2402	05/24/2018	05/27/2018	
Benzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	0.027		0.002	"	"	"	"	"	
Xylenes, total	0.174		0.002	"	"	"	"	"	
Naphthalene	0.017		0.007	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			"	"	"	
Surrogate: Toluene-d8	94.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	129 %		70-130			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

SB-10@0-2.5'
5/17/2018 3:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
Y805324-18 (Soil)

Metals (Saturated Paste Prep)

Calcium	2.56			me/L	1	'[none]'	05/23/2018	05/25/2018	
Magnesium	1.39			"	"	"	"	"	
Sodium	3.64			"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.42			pH Units	1	B8E2404	05/24/2018	05/25/2018	
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SAR by 20B Saturated Paste

SAR	2.59				1	'[none]'	05/23/2018	05/25/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.181			mmhos/cm	1	B8E2405	05/24/2018	05/27/2018	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

SB-10@10-12.5'
5/17/2018 3:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805324-19 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	61.5	13.0	50.0	mg/kg	1	B8E2403	05/24/2018	05/25/2018	
Residual Range Organics (C28-C40)	ND	4.59	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.1 %		59-131			"	"	"	
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	286		5.00	mg/kg	25	B8E2402	05/24/2018	05/27/2018	
Benzene	ND		0.050	"	"	"	"	"	U
Toluene	ND		0.050	"	"	"	"	"	U
Ethylbenzene	0.787		0.050	"	"	"	"	"	
Xylenes, total	29.2		0.498	"	250	"	"	"	
Naphthalene	0.331		0.175	"	25	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	93.6 %		70-130			"	"	"	
Surrogate: Toluene-d8	99.1 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	112 %		70-130			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

SB-11@0-2.5'
5/17/2018 4:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
Y805324-20 (Soil)

Metals (Saturated Paste Prep)

Calcium	5.44			me/L	1	'[none]'	05/23/2018	05/25/2018	
Magnesium	3.53			"	"	"	"	"	
Sodium	4.72			"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.20			pH Units	1	B8E2404	05/24/2018	05/25/2018	
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SAR by 20B Saturated Paste

SAR	2.23				1	'[none]'	05/23/2018	05/25/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.285			mmhos/cm	1	B8E2405	05/24/2018	05/27/2018	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

SB-11@7.5-10'
5/17/2018 4:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805324-21 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	68.5	13.0	50.0	mg/kg	1	B8E2403	05/24/2018	05/25/2018	
Residual Range Organics (C28-C40)	ND	4.59	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 91.9 % 59-131 " " "

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	847		50.0	mg/kg	250	B8E2402	05/24/2018	05/28/2018	
Benzene	ND		0.050	"	25	"	"	"	U
Toluene	ND		0.050	"	"	"	"	"	U
Ethylbenzene	ND		0.050	"	"	"	"	"	U
Xylenes, total	4.57		0.050	"	"	"	"	"	
Napthalene	0.290		0.175	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 93.6 % 70-130 " " "
 Surrogate: Toluene-d8 97.7 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 94.3 % 70-130 " " "

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

SB-12@0-2.5'
5/17/2018 4:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
Y805324-22 (Soil)

Metals (Saturated Paste Prep)

Calcium	2.80			me/L	1	'[none]'	05/23/2018	05/25/2018	
Magnesium	1.11			"	"	"	"	"	
Sodium	0.34			"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.65			pH Units	1	B8E2404	05/24/2018	05/25/2018	
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SAR by 20B Saturated Paste

SAR	0.24				1	'[none]'	05/23/2018	05/25/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.113			mmhos/cm	1	B8E2405	05/24/2018	05/27/2018	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

SB-12@10-12.5'
5/17/2018 5:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805324-23 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	47.5	13.0	50.0	mg/kg	1	B8E2403	05/24/2018	05/25/2018	
Residual Range Organics (C28-C40)	ND	4.59	200	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 75.6 % 59-131 " " "

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	10.6		0.200	mg/kg	1	B8E2402	05/24/2018	05/27/2018	
Benzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Xylenes, total	ND		0.002	"	"	"	"	"	U
Naphthalene	ND		0.007	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 97.6 % 70-130 " " "
 Surrogate: Toluene-d8 99.4 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

SB-13@0-2.5'
5/17/2018 5:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
Y805324-24 (Soil)

Metals (Saturated Paste Prep)

Calcium	1.22			me/L	1	'[none]'	05/23/2018	05/25/2018	
Magnesium	0.67			"	"	"	"	"	
Sodium	0.46			"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.65			pH Units	1	B8E2404	05/24/2018	05/25/2018	
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SAR by 20B Saturated Paste

SAR	0.47				1	'[none]'	05/23/2018	05/25/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0992			mmhos/cm	1	B8E2405	05/24/2018	05/27/2018	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

SB-13@12.5-15'
5/17/2018 5:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805324-25 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	13.0	50.0	mg/kg	1	B8E2403	05/24/2018	05/25/2018	U
Residual Range Organics (C28-C40)	ND	4.59	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	79.4 %		59-131			"	"	"	
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B8E2402	05/24/2018	05/27/2018	U
Benzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Xylenes, total	ND		0.002	"	"	"	"	"	U
Naphthalene	ND		0.007	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.5 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.7 %		70-130			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

MW-01R

5/17/2018 6:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805324-26 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B8E2701	05/27/2018	05/30/2018	U
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	27.4	4.00	"	"	"	"	"	
Xylenes, total	180	4.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121	"	"	"	"	"	
Surrogate: Toluene-d8	101 %	85-115	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	84-114	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8E2402 - EPA 5030 (soil)

Blank (B8E2402-BLK1)

Prepared: 05/24/2018 Analyzed: 05/27/2018

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	0.007	"							U
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8E2402 - EPA 5030 (soil)

LCS (B8E2402-BS1)

Prepared: 05/24/2018 Analyzed: 05/27/2018

Benzene	0.106	0.002	mg/kg	0.100		106	70-130			
Toluene	0.103	0.002	"	0.100		103	70-130			
Ethylbenzene	0.104	0.002	"	0.100		104	70-130			
m,p-Xylene	0.189	0.004	"	0.200		94.3	70-130			
o-Xylene	0.106	0.002	"	0.100		106	70-130			
Naphthalene	0.101	0.007	"	0.100		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8E2402 - EPA 5030 (soil)

Matrix Spike (B8E2402-MS1)	Source: Y805324-04			Prepared: 05/24/2018 Analyzed: 05/27/2018						
Benzene	0.079	0.002	mg/kg	0.100	ND	79.2	70-130			
Toluene	0.084	0.002	"	0.100	ND	83.7	70-130			
Ethylbenzene	0.090	0.002	"	0.100	ND	90.4	70-130			
m,p-Xylene	0.169	0.004	"	0.200	ND	84.3	70-130			
o-Xylene	0.092	0.002	"	0.100	ND	92.1	70-130			
Naphthalene	0.089	0.007	"	0.100	0.006	83.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.9	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.6	70-130			

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 Project: Rider #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8E2402 - EPA 5030 (soil)

Matrix Spike Dup (B8E2402-MSD1)	Source: Y805324-04			Prepared: 05/24/2018 Analyzed: 05/27/2018						
Benzene	0.088	0.002	mg/kg	0.100	ND	87.7	70-130	10.1	20	
Toluene	0.070	0.002	"	0.100	ND	70.4	70-130	17.2	20	
Ethylbenzene	0.090	0.002	"	0.100	ND	89.9	70-130	0.555	20	
m,p-Xylene	0.164	0.004	"	0.200	ND	81.8	70-130	3.02	20	
o-Xylene	0.094	0.002	"	0.100	ND	93.8	70-130	1.83	20	
Naphthalene	0.089	0.007	"	0.100	0.006	83.9	70-130	0.112	20	
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	55		"	62.5		88.6	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8E2701 - EPA 5030B (Water)

Blank (B8E2701-BLK1)

Prepared: 05/27/2018 Analyzed: 05/27/2018

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5	111		84-121			
Surrogate: Toluene-d8	62		"	62.5	98.5		85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	101		84-114			

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 Project: Rider #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8E2701 - EPA 5030B (Water)

Blank (B8E2701-BLK2)

Prepared: 05/27/2018 Analyzed: 05/27/2018

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	68		"	62.5	110		84-121			
Surrogate: Toluene-d8	61		"	62.5	97.6		85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	101		84-114			

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 Project Number: [none]
 Project: Rider #1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8E2701 - EPA 5030B (Water)

LCS (B8E2701-BS1)

Prepared: 05/27/2018 Analyzed: 05/27/2018

Benzene	51.2	1.00	ug/L	50.0		102	73.3-129			
Toluene	51.8	1.00	"	50.0		104	76.2-123			
Ethylbenzene	54.4	1.00	"	50.0		109	73.6-130			
m,p-Xylene	108	2.00	"	100		108	76.1-126			
o-Xylene	54.1	1.00	"	50.0		108	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		103	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.4	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

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 Project: Rider #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8E2701 - EPA 5030B (Water)

LCS (B8E2701-BS2)

Prepared: 05/27/2018 Analyzed: 05/27/2018

Benzene	55.1	1.00	ug/L	50.0		110	73.3-129			
Toluene	53.8	1.00	"	50.0		108	76.2-123			
Ethylbenzene	55.4	1.00	"	50.0		111	73.6-130			
m,p-Xylene	110	2.00	"	100		110	76.1-126			
o-Xylene	55.3	1.00	"	50.0		111	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	84-121			
Surrogate: Toluene-d8	60		"	62.5		96.1	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8E2701 - EPA 5030B (Water)

Matrix Spike (B8E2701-MS1)	Source: Y805337-01			Prepared: 05/27/2018 Analyzed: 05/27/2018						
Benzene	55.4	1.00	ug/L	50.0	ND	111	74-130			
Toluene	52.9	1.00	"	50.0	ND	106	73-131			
Ethylbenzene	54.8	1.00	"	50.0	ND	110	76-132			
m,p-Xylene	109	2.00	"	100	ND	109	69-139			
o-Xylene	54.9	1.00	"	50.0	ND	110	74-131			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.3	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	84-114			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8E2701 - EPA 5030B (Water)

Matrix Spike (B8E2701-MS2)	Source: Y805337-07			Prepared: 05/27/2018 Analyzed: 05/27/2018						
Benzene	56.0	1.00	ug/L	50.0	ND	112	74-130			
Toluene	53.5	1.00	"	50.0	ND	107	73-131			
Ethylbenzene	55.8	1.00	"	50.0	ND	112	76-132			
m,p-Xylene	110	2.00	"	100	ND	110	69-139			
o-Xylene	55.5	1.00	"	50.0	ND	111	74-131			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	84-121			
Surrogate: Toluene-d8	60		"	62.5		96.7	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

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Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8E2701 - EPA 5030B (Water)

Matrix Spike Dup (B8E2701-MSD1)	Source: Y805337-01			Prepared: 05/27/2018 Analyzed: 05/27/2018						
Benzene	55.3	1.00	ug/L	50.0	ND	111	74-130	0.181	20	
Toluene	53.2	1.00	"	50.0	ND	106	73-131	0.565	20	
Ethylbenzene	56.2	1.00	"	50.0	ND	112	76-132	2.41	20	
m,p-Xylene	112	2.00	"	100	ND	112	69-139	3.19	20	
o-Xylene	56.4	1.00	"	50.0	ND	113	74-131	2.66	20	
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	84-121			
Surrogate: Toluene-d8	60		"	62.5		96.7	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	84-114			

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 Project Number: [none]
 Project: Rider #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8E2701 - EPA 5030B (Water)

Matrix Spike Dup (B8E2701-MSD2)	Source: Y805337-07			Prepared: 05/27/2018 Analyzed: 05/27/2018						
Benzene	55.4	1.00	ug/L	50.0	ND	111	74-130	1.13	20	
Toluene	53.0	1.00	"	50.0	ND	106	73-131	0.901	20	
Ethylbenzene	54.5	1.00	"	50.0	ND	109	76-132	2.38	20	
m,p-Xylene	108	2.00	"	100	ND	108	69-139	2.16	20	
o-Xylene	54.9	1.00	"	50.0	ND	110	74-131	1.10	20	
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.9	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		102	84-114			

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Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Extractable Petroleum Hydrocarbons by 8015C - 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 B8E2403 - EPA 3580

Blank (B8E2403-BLK1)

Prepared: 05/24/2018 Analyzed: 05/25/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	47		"	50.0		94.9	59-131			

LCS (B8E2403-BS1)

Prepared: 05/24/2018 Analyzed: 05/25/2018

Diesel (C10-C28)	1030	50.0	mg/kg	1000		103	64-121			
Residual Range Organics (C28-C40)	969	200	"	1000		96.9	58-124			
Surrogate: o-Terphenyl	51		"	50.0		101	59-131			

Matrix Spike (B8E2403-MS1)

Source: Y805324-04

Prepared: 05/24/2018 Analyzed: 05/25/2018

Diesel (C10-C28)	1020	50.0	mg/kg	1000	ND	102	53-125			
Residual Range Organics (C28-C40)	964	200	"	1000	ND	96.4	47-133			
Surrogate: o-Terphenyl	53		"	50.0		106	59-131			

Matrix Spike Dup (B8E2403-MSD1)

Source: Y805324-04

Prepared: 05/24/2018 Analyzed: 05/25/2018

Diesel (C10-C28)	1040	50.0	mg/kg	1000	ND	104	53-125	1.94	20	
Residual Range Organics (C28-C40)	987	200	"	1000	ND	98.7	47-133	2.39	20	
Surrogate: o-Terphenyl	48		"	50.0		95.0	59-131			

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 Project Number: [none]
 Project: Rider #1

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B8E2404 - EPA 1311											
Duplicate (B8E2404-DUP1)		Source: Y805324-01			Prepared: 05/24/2018 Analyzed: 05/25/2018						
pH	7.31		pH Units		8.32			12.9	25		
Duplicate (B8E2404-DUP2)		Source: Y805392-01			Prepared: 05/24/2018 Analyzed: 05/25/2018						
pH	8.07		pH Units		8.51			5.31	25		
Batch B8E2405 - EPA 1311											
Blank (B8E2405-BLK1)											Prepared: 05/24/2018 Analyzed: 05/27/2018
Specific Conductance (EC)	0.00200		mmhos/cm								
Blank (B8E2405-BLK2)											Prepared: 05/24/2018 Analyzed: 05/27/2018
Specific Conductance (EC)	0.00230		mmhos/cm								
Duplicate (B8E2405-DUP1)		Source: Y805324-01			Prepared: 05/24/2018 Analyzed: 05/27/2018						
Specific Conductance (EC)	0.131		mmhos/cm		0.135			3.00	25		
Duplicate (B8E2405-DUP2)		Source: Y805392-01			Prepared: 05/24/2018 Analyzed: 05/27/2018						
Specific Conductance (EC)	0.187		mmhos/cm		0.195			4.13	25		

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

Martin C Eckert III
Project Number: [none]
Project: Rider #1

Notes and Definitions

U Sample is Non-Detect.

S-DUP Duplicate analysis confirmed surrogate failure due to matrix effects.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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