



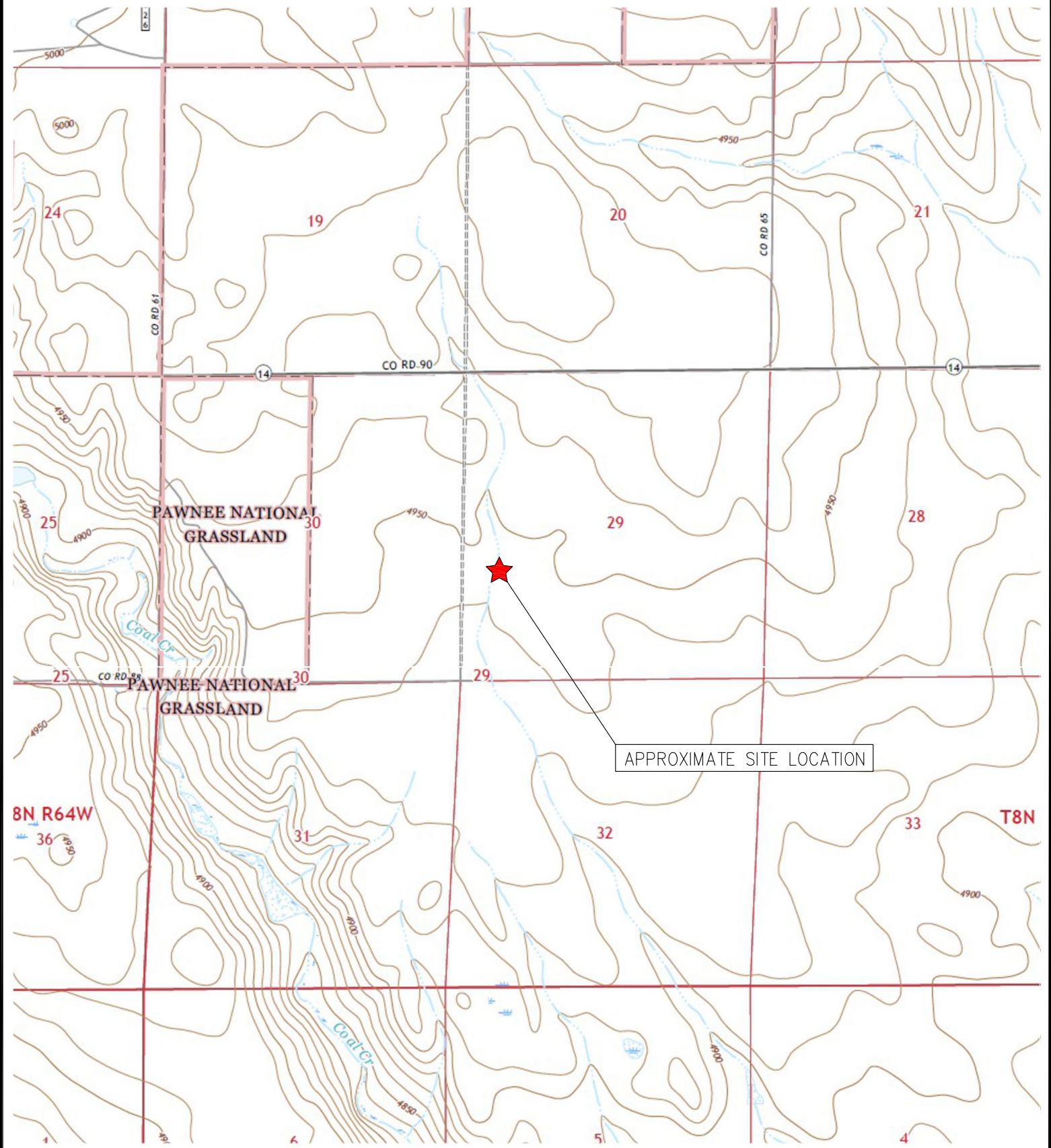
FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Source Excavation Soil Analytical Map

Figure 4: Source Excavation Metals in Soil Map



TOPOGRAPHIC SITE LOCATION MAP
 BETHYL GW #29-12
 HISTORICAL RELEASE
 40.629892 / -104.465929
 NW¼ SW¼ SEC.29 T8N R63W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-36782
 REMEDIATION # 30216



EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

8000 W 44th Ave, Wheat Ridge, CO 80033
 Ph: 303-433-0479 • F: 303-325-5449



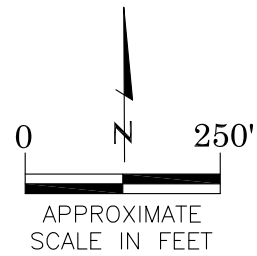
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAPS,
 BAKER DRAW AND CORNISH, CO
 QUADRANGLES 2022

FIGURE NO. 1



LEGEND

- FORMER BETHYL GW #29-12 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



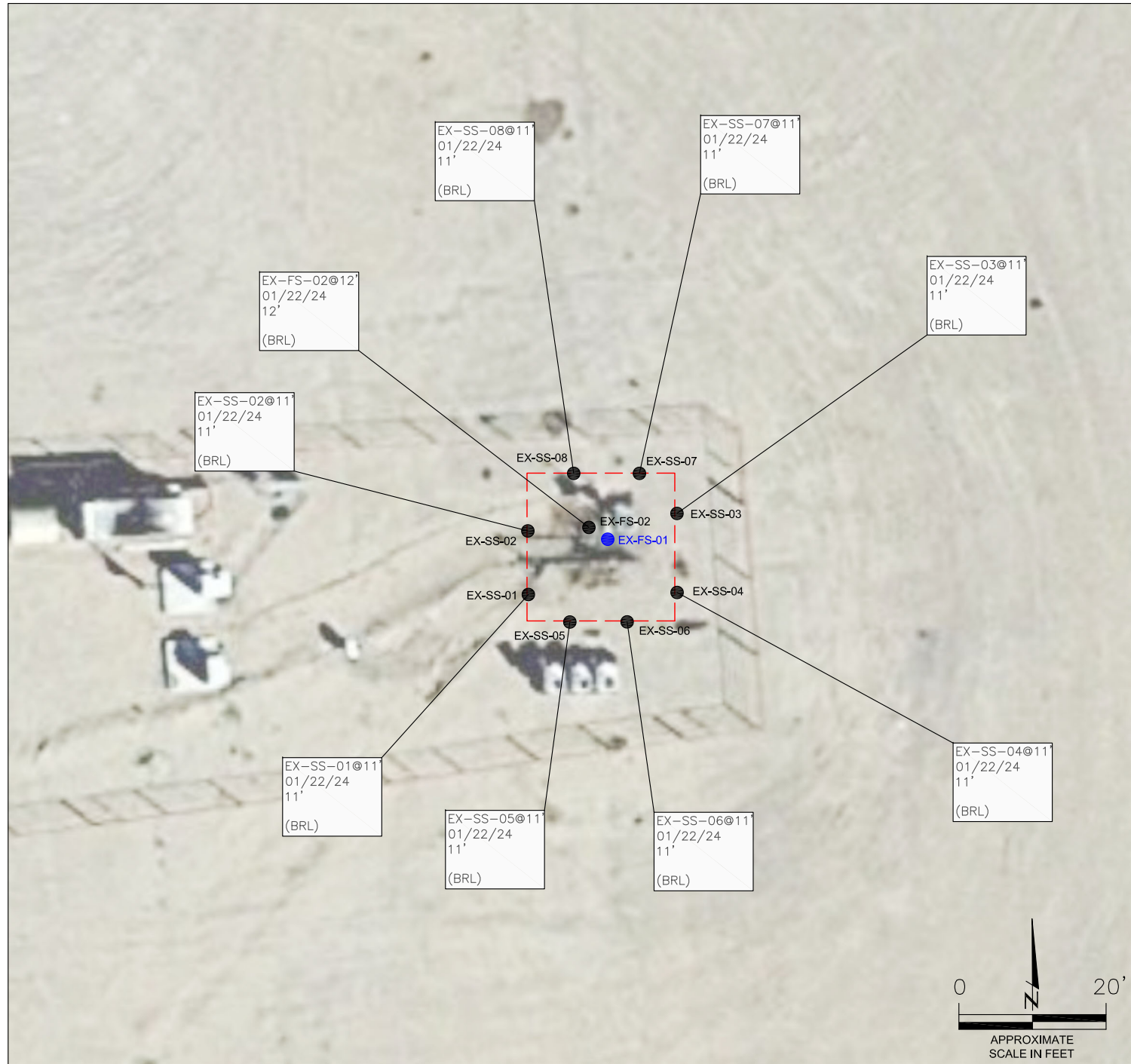
AERIAL SITE LOCATION MAP
 BETHYL GW #29-12
 HISTORICAL RELEASE
 40.629892 / -104.465929
 NW¼ SW¼ SEC.29 T8N R63W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-36782
 REMEDIATION # 30216

FIGURE NO.
2

DRAWN BY:
GEC



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LEGEND

- SOURCE EXCAVATION EXTENTS
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR

PARAMETERS

SAMPLE LOCATION
DATE
DEPTH (FEET)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
N = NAPHTHALENE (mg/kg)
G = TPH-GRO (mg/kg)
D = TPH-DRO (mg/kg)
R = TPH-RRO (mg/kg)
1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)
1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

(BRL) = ALL VALUES BELOW REGULATORY LIMITS

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

NOTES:
 VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOURCE EXCAVATION SOIL ANALYTICAL MAP

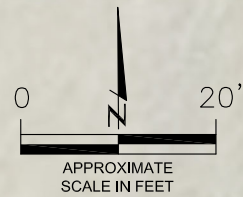
BETHYL GW #29-12
 HISTORICAL RELEASE
 40.629892 / -104.465929
 NW¼ SW¼ SEC.29 T8N R63W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-36782
 REMEDIATION # 30216

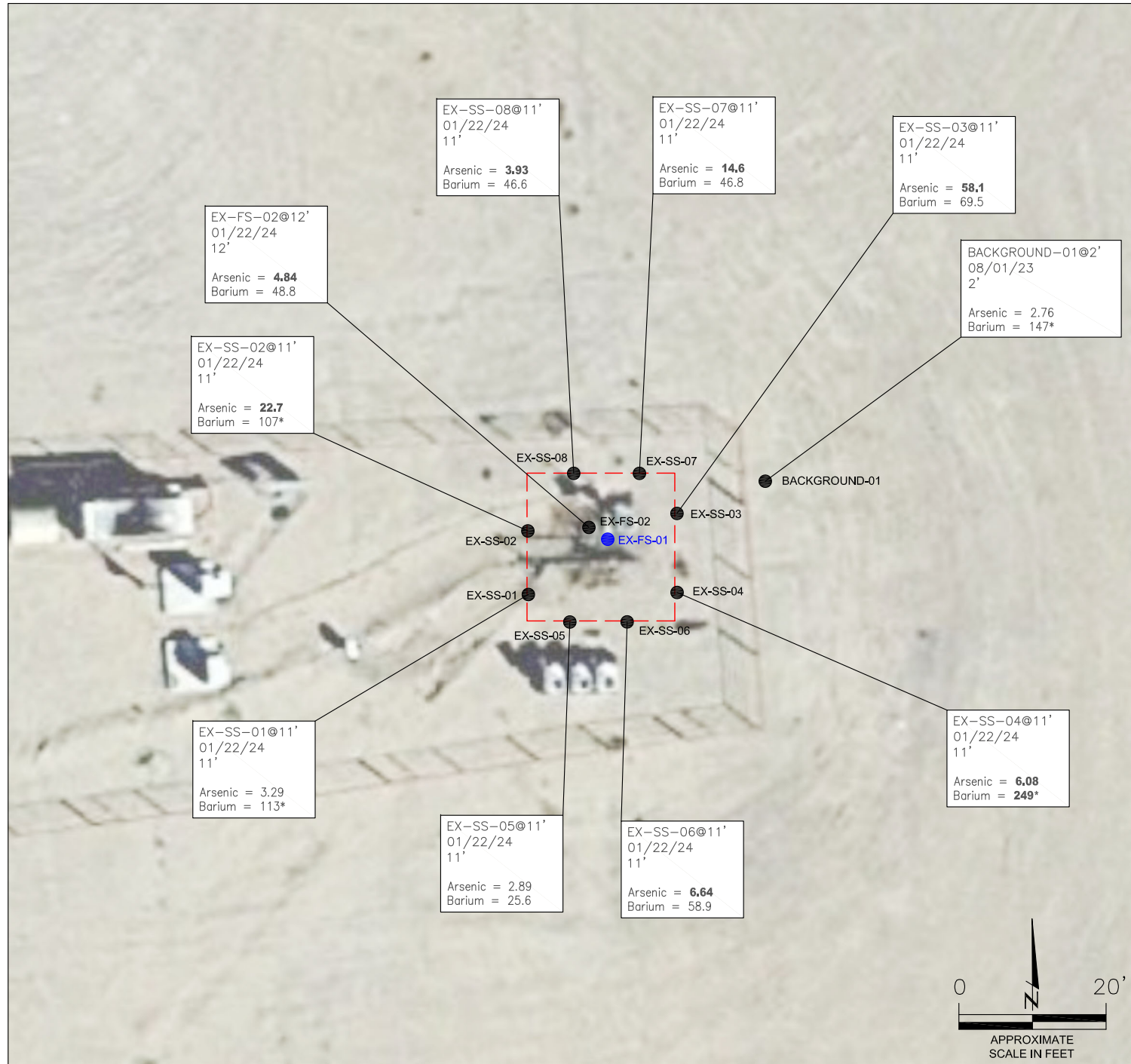
FIGURE NO.
3

DRAWN BY:
GK

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LEGEND

- - - SOURCE EXCAVATION EXTENTS
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR

PARAMETERS

SAMPLE LOCATION
 DATE SAMPLE COLLECTED
 APPROXIMATE DEPTH
 Arsenic = (mg/kg)
 Barium = (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

NOTES:
 VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT/OR ABOVE LABORATORY REPORTING LIMITS AND/OR MINIMUM DETECTION LIMITS.

ELEVATED METALS ARE NATURALLY OCCURRING IN COLORADO. LOCAL CLEAN-UP LEVELS ARE 1.25*BACKGROUND CONCENTRATIONS WHERE APPLICABLE.

VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS AND APPLICABLE LOCAL CLEAN-UP LEVELS.

*VALUES EXCEED ECMC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS, ONLY.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

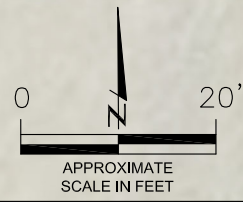
SOURCE EXCAVATION METALS IN SOIL MAP

BETHYL GW #29-12
 HISTORICAL RELEASE
 40.629892 / -104.465929
 NW¼ SW¼ SEC.29 T8N R63W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-36782
 REMEDIATION # 30216

FIGURE NO.
4

DRAWN BY:
GK

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TABLES

Table 1: Field Data Summary

Table 2: Summary of Volatile Organic Soil Chemistry Data

Table 3: Summary of PAH Soil Chemistry Data

Table 4: Summary of Soil Suitability for Reclamation

Table 5: Summary of Metals in Soil Chemistry Data

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE ENERGY 100322
BETHYL GW #29-12, WELD COUNTY, COLORADO
REM # 30216

Sample ID	Sample Date	Depth (ft)	GPS Data		VOC Concentration (ppm)
			Latitude/Longitude		
WH-SS-01 @ 7'	8/1/2023	7	40.629918	-104.465941	431.5
WH-SS-02 @ 7'	8/1/2023	7	40.629903	-104.465920	57.2
WH-SS-03 @ 7'	8/1/2023	7	40.629884	-104.465943	303.2
WH-SS-04 @ 7'	8/1/2023	7	40.629901	-104.465959	257.3
WH-FS-01 @ 8'	8/1/2023	8	40.629899	-104.465942	309.4
WH-N @ 0.5'	8/1/2023	0.5	40.629926	-104.465939	0.1
WH-E @ 0.5'	8/1/2023	0.5	40.629904	-104.465910	0.7
WH-S @ 0.5'	8/1/2023	0.5	40.629879	-104.465932	0.5
WH-W @ 0.5'	8/1/2023	0.5	40.629902	-104.465977	0.3
Background-01 @ 2'	8/1/2023	2	40.629921	-104.465853	2.5
EX-SS-01 @ 11'	1/22/2024	11	40.629880	-104.465964	2.3
EX-SS-02 @ 11'	1/22/2024	11	40.629906	-104.465964	3.1
EX-SS-03 @ 11'	1/22/2024	11	40.629908	-104.465885	3.1
EX-SS-04 @ 11'	1/22/2024	11	40.629880	-104.465891	3.0
EX-SS-05 @ 11'	1/22/2024	11	40.629865	-104.465948	2.9
EX-SS-06 @ 11'	1/22/2024	11	40.629864	-104.465918	2.4
EX-SS-07 @ 11'	1/22/2024	11	40.629923	-104.465909	1.2
EX-SS-08 @ 11'	1/22/2024	11	40.629924	-104.465945	0.7
EX-FS-01 @ 10'	1/22/2024	10	40.629903	-104.465929	101.3
EX-FS-02 @ 12'	1/22/2024	12	40.629904	-104.465936	10.8

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum (NAD) 83 UTMZone 13 North.
2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).

PDOP = Position Dilution of Precision

ppm = Parts per million

in. = Inches

ft. = Feet

bgs = Below ground surface

TABLE 2
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY 100322
BETHYL GW #29-12, WELD COUNTY, COLORADO
REM # 30216

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500**		
WH-SS-01 @ 7'	8/1/2023	7	<0.00200	0.00452	0.00290	0.103	0.0314	0.0506	0.233	2228.6	24.6	1520	684
WH-SS-02 @ 7'	8/1/2023	7	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
WH-SS-03 @ 7'	8/1/2023	7	<0.00200	<0.00200	<0.00200	0.00328	0.00238	0.0153	0.00860	1428	148	847	433
WH-SS-04 @ 7'	8/1/2023	7	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.00254	<0.00380	<500	<0.200	66.8	<100
WH-FS-01 @ 8'	8/1/2023	8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
EX-SS-01 @ 11'	1/22/2024	11	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
EX-SS-02 @ 11'	1/22/2024	11	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
EX-SS-03 @ 11'	1/22/2024	11	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
EX-SS-04 @ 11'	1/22/2024	11	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
EX-SS-05 @ 11'	1/22/2024	11	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
EX-SS-06 @ 11'	1/22/2024	11	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
EX-SS-07 @ 11'	1/22/2024	11	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
EX-SS-08 @ 11'	1/22/2024	11	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
EX-FS-02 @ 12'	1/22/2024	12	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100

1. Bold values are equal to or exceed the ECMC Table 915-1 limit(s)
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
3. * Indicates laboratory minimum detection limit in excess of SSL
4. ** Summation of GRO+DRO+ORO must be less than 500 mg/kg

TABLE 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY 100322
BETHYL GW #29-12, WELD COUNTY, COLORADO
REM # 30216

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
WH-SS-01 @ 7'	8/1/2023	7	<0.020	0.026	<0.005	<0.020	<0.020	<0.020	0.023	<0.020	<0.020	0.069	<0.020	<0.020	0.445	0.681
WH-SS-02 @ 7'	8/1/2023	7	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	0.004
WH-SS-03 @ 7'	8/1/2023	7	<0.020	0.040	<0.005	<0.020	<0.020	<0.020	0.046	<0.020	<0.020	0.112	<0.020	0.025	0.495	0.775
WH-SS-04 @ 7'	8/1/2023	7	<0.020	<0.020	<0.020	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	0.026	<0.080	<0.080	0.068	0.091
WH-FS-01 @ 8'	8/1/2023	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.003	0.005
EX-SS-01 @ 11'	1/22/2024	11	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002
EX-SS-02 @ 11'	1/22/2024	11	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002
EX-SS-03 @ 11'	1/22/2024	11	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002
EX-SS-04 @ 11'	1/22/2024	11	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002
EX-SS-05 @ 11'	1/22/2024	11	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002
EX-SS-06 @ 11'	1/22/2024	11	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002
EX-SS-07 @ 11'	1/22/2024	11	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002
EX-SS-08 @ 11'	1/22/2024	11	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002
EX-FS-02 @ 12'	1/22/2024	12	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002

1. Bold values are equal to or exceed the ECMC Table 915-1 limit(s)
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
3. * Indicates laboratory minimum detection limit in excess of SSL

TABLE 4
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY 100322
BETHYL GW #29-12, WELD COUNTY, COLORADO
REM # 30216

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
WH-SS-01 @ 7'	8/1/2023	7	7.80	0.316	0.0996	<0.982
WH-SS-02 @ 7'	8/1/2023	7	7.98	0.316	0.175	0.105
WH-SS-03 @ 7'	8/1/2023	7	7.41	0.760	0.0435	0.160
WH-SS-04 @ 7'	8/1/2023	7	7.97	0.460	0.526	0.771
WH-FS-01 @ 8'	8/1/2023	8	7.96	0.279	0.361	0.237
EX-SS-01 @ 11'	1/22/2024	11	NA	NA	NA	NA
EX-SS-02 @ 11'	1/22/2024	11	NA	NA	NA	NA
EX-SS-03 @ 11'	1/22/2024	11	NA	NA	NA	NA
EX-SS-04 @ 11'	1/22/2024	11	NA	NA	NA	NA
EX-SS-05 @ 11'	1/22/2024	11	NA	NA	NA	NA
EX-SS-06 @ 11'	1/22/2024	11	NA	NA	NA	NA
EX-SS-07 @ 11'	1/22/2024	11	NA	NA	NA	NA
EX-SS-08 @ 11'	1/22/2024	11	NA	NA	NA	NA
EX-FS-02 @ 12'	1/22/2024	12	NA	NA	NA	NA
Background-01 @ 2'	8/1/2023	2	NA	NA	NA	NA
Maximum Background Concentration						
Average Background Concentration						

1. Bold values are equal to or exceed the ECMC Table 915-1 limit(s)
 2. Blue highlighted soil analytical values indicate a regulatory exceedance
- NA - Not analyzed

TABLE 5
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE ENERGY 100322
BETHYL GW #29-12, WELD COUNTY, COLORADO
REM # 30216

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
WH-SS-01 @ 7'	8/1/2023	7	3.19	317	0.131	<0.244*	<9.76	<9.76	<9.76	0.107	<0.0976	<97.6
WH-SS-02 @ 7'	8/1/2023	7	2.74	252	0.119	<0.245*	<9.54	<9.54	<9.54	<0.0954	<0.0954	<95.4
WH-SS-03 @ 7'	8/1/2023	7	2.80	2870	<0.0914	<0.244*	14.9	<9.14	<9.14	0.118	<0.0914	<91.4
WH-SS-04 @ 7'	8/1/2023	7	3.95	1750	0.139	<0.244*	14.9	<9.36	<9.36	0.251	<0.0936	<93.6
WH-FS-01 @ 8'	8/1/2023	8	7.08	130	0.102	<0.249*	<8.49	9.92	<8.49	0.0900	<0.0849	<84.9
EX-SS-01 @ 11'	1/22/2024	11	3.29	113	NA	NA	NA	NA	NA	NA	NA	NA
EX-SS-02 @ 11'	1/22/2024	11	22.7	107	NA	NA	NA	NA	NA	NA	NA	NA
EX-SS-03 @ 11'	1/22/2024	11	58.1	69.5	NA	NA	NA	NA	NA	NA	NA	NA
EX-SS-04 @ 11'	1/22/2024	11	6.08	249	NA	NA	NA	NA	NA	NA	NA	NA
EX-SS-05 @ 11'	1/22/2024	11	2.89	25.6	NA	NA	NA	NA	NA	NA	NA	NA
EX-SS-06 @ 11'	1/22/2024	11	6.64	58.9	NA	NA	NA	NA	NA	NA	NA	NA
EX-SS-07 @ 11'	1/22/2024	11	14.6	46.8	NA	NA	NA	NA	NA	NA	NA	NA
EX-SS-08 @ 11'	1/22/2024	11	3.93	46.6	NA	NA	NA	NA	NA	NA	NA	NA
EX-FS-02 @ 12'	1/22/2024	12	4.84	48.8	NA	NA	NA	NA	NA	NA	NA	NA
Background-01 @ 2'	8/1/2023	2	2.76	147	NA	NA	NA	NA	NA	NA	NA	NA
Maximum Background Concentration			2.76	147								
125% Maximum Background Concentration			3.45	184								

1. Bold values are equal to or exceed the ECMC Table 915-1 limit(s)

2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed



ATTACHMENT A

Photolog

Bethyl GW #29-12
API # 05-123-36782
Remediation # 30216

Source Excavation

January 2024



Source Excavation / Confirmation Sampling – 01/22/24



Looking northeast

Black staining observed, possibly organic. Slight odor observed on floor sample. EX-FS-01 collected at 10' before the base was excavated an additional 2'. EX-FS-02 subsequently collected at 12'

Source Excavation / Confirmation Sampling – 01/22/24



Looking southwest

Black staining observed, possibly organic. Slight odor observed on floor sample. EX-FS-01 collected at 10' before the base was excavated an additional 2'. EX-FS-02 subsequently collected at 12'



ATTACHMENT B

Laboratory Analytical Report



February 02, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Bethyl GW 29-12

Project Number - [none]

Attached are your analytical results for Noble - Bethyl GW 29-12 received by Origins Laboratory, Inc. January 22, 2024. This project is associated with Origins project number Y401509-01.

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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EX-SS-01@11'	Y401509-01	Soil	January 22, 2024 14:50	01/22/2024 17:27
EX-SS-02@11'	Y401509-02	Soil	January 22, 2024 14:52	01/22/2024 17:27
EX-SS-03@11'	Y401509-03	Soil	January 22, 2024 14:55	01/22/2024 17:27
EX-SS-04@11'	Y401509-04	Soil	January 22, 2024 14:58	01/22/2024 17:27
EX-SS-05@11'	Y401509-05	Soil	January 22, 2024 15:01	01/22/2024 17:27
EX-SS-06@11'	Y401509-06	Soil	January 22, 2024 15:05	01/22/2024 17:27
EX-SS-07@11'	Y401509-07	Soil	January 22, 2024 15:10	01/22/2024 17:27
EX-SS-08@11'	Y401509-08	Soil	January 22, 2024 15:13	01/22/2024 17:27
EX-FS-02@12'	Y401509-09	Soil	January 22, 2024 14:40	01/22/2024 17:27

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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

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

ORIGINS
 LABORATORY, INC

4401509

www.originslaboratory.com

page 1 of 1

Client: Eagle Environmental Consulting
 Address: 8000 W 44th Ave
Wheat Ridge, CO 80033
 Telephone Number: 303-433-1322
 Email Address: andrewnewberry@eagle-environmental.com
 Project Manager: Andrew Newberry
 Project Name: Bethyl GW #29-12
 Project Number: 4401509
 Samples Collected By: EL

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater		
EX-SS-01@11'	1/23/24	1450	3	X					X	Other: <u>GHTEX, NapH, EMPS - 82100, ERD/RRO - 80150, PAHs - 82200 SEM, As, Pb - 100205</u>
EX-SS-02@11'		1452							X	MIS needed
EX-SS-03@11'		1455							X	
EX-SS-04@11'		1458							X	
EX-SS-05@11'		1501							X	
EX-SS-06@11'		1505							X	
EX-SS-07@11'		1510							X	
EX-SS-08@11'		1513							X	
EX-SS-09@11'		1440							X	

Relinquished By: [Signature]

Date: 1/23/24

Temp Received: 5

Date Results Needed: Noble

Relinquished By: [Signature]
 Date: 1/22/24
 Time: 1727
 Received By: [Signature]
 Date: 1/22/24
 Time: 1727
 Turnaround Time:
 Same Day
 24 Hr
 48 Hr
 72 Hr
 Standard

Origins Laboratory, Inc.
[Signature]

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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4401509

Client: Eagle

Client Project ID: Bethyl GW #29-12

Checklist Completed by: JAH

Shipped Via: HD

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

Date/time completed: 1/22/24

Airbill #: N/A

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

Cooler Number/Temperature: 1, 5 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: T004

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) JAH

Date/Time Reviewed 1/22/24

Origins Laboratory, Inc.

J. Bynon

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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

EX-SS-01@11'
1/22/2024 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401509-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A2230	ZZZ	01/22/2024	01/23/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 103 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A2233	ZZZ	01/22/2024	01/22/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "
 Surrogate: Toluene-d8 97.6 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A2225	agile	01/22/2024	01/23/2024	U
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Origins Laboratory, Inc.



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

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

EX-SS-01@11'
1/22/2024 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401509-01 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	ND	0.002	mg/kg	1	B4A2225	agile	01/22/2024	01/23/2024	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	96.7 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	96.1 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	89.9 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	106 %	60-130			"	"	"	"	

Table 915 metals by EPA 6020B

Arsenic	3.29	0.0872	mg/kg	10	B4A2226	JAH	01/22/2024	01/25/2024	
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Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Bethyl GW 29-12

EX-SS-01@11'
1/22/2024 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401509-01 (Soil)

Table 915 metals by EPA 6020B

Barium	113	8.72	mg/kg	10	B4A2226	JAH	01/22/2024	01/25/2024	
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Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

EX-SS-02@11'
1/22/2024 2:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401509-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A2230	ZZZ	01/22/2024	01/23/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 105 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A2233	ZZZ	01/22/2024	01/22/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "
 Surrogate: Toluene-d8 96.2 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A2225	agile	01/22/2024	01/23/2024	U
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Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

EX-SS-02@11'
1/22/2024 2:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401509-02 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	ND	0.002	mg/kg	1	B4A2225	agile	01/22/2024	01/23/2024	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	97.9 %	60-130			"	"	"
Surrogate: Anthracene-d10	105 %	60-130			"	"	"
Surrogate: Pyrene-d10	114 %	60-130			"	"	"
Surrogate: Benzo (a) pyrene-d12	106 %	60-130			"	"	"

Table 915 metals by EPA 6020B

Arsenic	22.7	0.0980	mg/kg	10	B4A2226	JAH	01/22/2024	01/25/2024
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Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Bethyl GW 29-12

EX-SS-02@11'
1/22/2024 2:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401509-02 (Soil)

Table 915 metals by EPA 6020B

Barium	107	9.80	mg/kg	10	B4A2226	JAH	01/22/2024	01/25/2024	
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Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

EX-SS-03@11'
1/22/2024 2:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401509-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A2230	ZZZ	01/22/2024	01/23/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 102 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A2233	ZZZ	01/22/2024	01/22/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "
 Surrogate: Toluene-d8 96.6 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A2225	agile	01/22/2024	01/23/2024	U
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Origins Laboratory, Inc.



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

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

EX-SS-03@11'
1/22/2024 2:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401509-03 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	ND	0.002	mg/kg	1	B4A2225	agile	01/22/2024	01/23/2024	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	100 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	97.7 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	99.6 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	114 %	60-130			"	"	"	"	

Table 915 metals by EPA 6020B

Arsenic	58.1	0.0983	mg/kg	10	B4A2226	JAH	01/22/2024	01/25/2024	
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Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: [none]
Project: Noble - Bethyl GW 29-12

EX-SS-03@11'
1/22/2024 2:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401509-03 (Soil)

Table 915 metals by EPA 6020B

Barium	69.5	9.83	mg/kg	10	B4A2226	JAH	01/22/2024	01/25/2024	
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Origins Laboratory, Inc.



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

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

EX-SS-04@11'
1/22/2024 2:58:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401509-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A2230	ZZZ	01/22/2024	01/23/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 105 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A2233	ZZZ	01/22/2024	01/22/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "
 Surrogate: Toluene-d8 96.7 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A2225	agile	01/22/2024	01/23/2024	U
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Origins Laboratory, Inc.



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

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

EX-SS-04@11'
1/22/2024 2:58:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401509-04 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	ND	0.002	mg/kg	1	B4A2225	agile	01/22/2024	01/23/2024	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	101 %	60-130			"	"	"	
Surrogate: Anthracene-d10	100 %	60-130			"	"	"	
Surrogate: Pyrene-d10	102 %	60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	113 %	60-130			"	"	"	

Table 915 metals by EPA 6020B

Arsenic	6.08	0.0864	mg/kg	10	B4A2226	JAH	01/22/2024	01/25/2024
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Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: [none]
Project: Noble - Bethyl GW 29-12

EX-SS-04@11'
1/22/2024 2:58:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401509-04 (Soil)

Table 915 metals by EPA 6020B

Barium	249	8.64	mg/kg	10	B4A2226	JAH	01/22/2024	01/25/2024	
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Origins Laboratory, Inc.



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

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

EX-SS-05@11'
1/22/2024 3:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401509-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A2230	ZZZ	01/22/2024	01/23/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 93.6 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A2233	ZZZ	01/22/2024	01/22/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "
 Surrogate: Toluene-d8 96.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A2225	agile	01/22/2024	01/23/2024	U
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Origins Laboratory, Inc.



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

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

EX-SS-05@11'
1/22/2024 3:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401509-05 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	ND	0.002	mg/kg	1	B4A2225	agile	01/22/2024	01/23/2024	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	97.4 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	96.2 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	104 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	113 %	60-130			"	"	"	"	

Table 915 metals by EPA 6020B

Arsenic	2.89	0.0922	mg/kg	10	B4A2226	JAH	01/22/2024	01/25/2024	
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Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: [none]
Project: Noble - Bethyl GW 29-12

EX-SS-05@11'
1/22/2024 3:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401509-05 (Soil)

Table 915 metals by EPA 6020B

Barium	25.6	9.22	mg/kg	10	B4A2226	JAH	01/22/2024	01/25/2024	
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Origins Laboratory, Inc.



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

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

EX-SS-06@11'
1/22/2024 3:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401509-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A2230	ZZZ	01/22/2024	01/23/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 90.8 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A2233	ZZZ	01/22/2024	01/22/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "
 Surrogate: Toluene-d8 97.7 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A2225	agile	01/22/2024	01/23/2024	U
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Origins Laboratory, Inc.



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

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

EX-SS-06@11'
1/22/2024 3:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401509-06 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	ND	0.002	mg/kg	1	B4A2225	agile	01/22/2024	01/23/2024	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	97.5 %	60-130			"	"	"
Surrogate: Anthracene-d10	103 %	60-130			"	"	"
Surrogate: Pyrene-d10	105 %	60-130			"	"	"
Surrogate: Benzo (a) pyrene-d12	110 %	60-130			"	"	"

Table 915 metals by EPA 6020B

Arsenic	6.64	0.0874	mg/kg	10	B4A2226	JAH	01/22/2024	01/25/2024
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Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: [none]
Project: Noble - Bethyl GW 29-12

EX-SS-06@11'
1/22/2024 3:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401509-06 (Soil)

Table 915 metals by EPA 6020B

Barium	58.9	8.74	mg/kg	10	B4A2226	JAH	01/22/2024	01/25/2024	
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Origins Laboratory, Inc.



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

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

EX-SS-07@11'
1/22/2024 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401509-07 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A2230	ZZZ	01/22/2024	01/23/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 91.5 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A2233	ZZZ	01/22/2024	01/22/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "
 Surrogate: Toluene-d8 96.7 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A2225	agile	01/22/2024	01/23/2024	U
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Origins Laboratory, Inc.



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

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

EX-SS-07@11'
1/22/2024 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401509-07 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	ND	0.002	mg/kg	1	B4A2225	agile	01/22/2024	01/23/2024	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	103 %	60-130			"	"	"	
Surrogate: Anthracene-d10	100 %	60-130			"	"	"	
Surrogate: Pyrene-d10	101 %	60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	116 %	60-130			"	"	"	

Table 915 metals by EPA 6020B

Arsenic	14.6	0.0911	mg/kg	10	B4A2232	JAH	01/22/2024	01/25/2024
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Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: [none]
Project: Noble - Bethyl GW 29-12

EX-SS-07@11'
1/22/2024 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401509-07 (Soil)

Table 915 metals by EPA 6020B

Barium	46.8	9.11	mg/kg	10	B4A2232	JAH	01/22/2024	01/25/2024	
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Origins Laboratory, Inc.



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

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

EX-SS-08@11'
1/22/2024 3:13:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401509-08 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A2230	ZZZ	01/22/2024	01/23/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 102 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A2233	ZZZ	01/22/2024	01/22/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "
 Surrogate: Toluene-d8 96.6 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A2225	agile	01/22/2024	01/23/2024	U
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Origins Laboratory, Inc.



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

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

EX-SS-08@11'
1/22/2024 3:13:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401509-08 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	ND	0.002	mg/kg	1	B4A2225	agile	01/22/2024	01/23/2024	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	98.4 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	98.5 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	94.3 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	114 %	60-130			"	"	"	"	

Table 915 metals by EPA 6020B

Arsenic	3.93	0.0940	mg/kg	10	B4A2232	JAH	01/22/2024	01/25/2024	
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Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: [none]
Project: Noble - Bethyl GW 29-12

EX-SS-08@11'
1/22/2024 3:13:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401509-08 (Soil)

Table 915 metals by EPA 6020B

Barium	46.6	9.40	mg/kg	10	B4A2232	JAH	01/22/2024	01/25/2024	
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Origins Laboratory, Inc.



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

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

EX-FS-02@12'
1/22/2024 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401509-09 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A2230	ZZZ	01/22/2024	01/23/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 102 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A2233	ZZZ	01/22/2024	01/23/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "
 Surrogate: Toluene-d8 96.3 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A2225	agile	01/22/2024	01/23/2024	U
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Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

EX-FS-02@12'
1/22/2024 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401509-09 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	ND	0.002	mg/kg	1	B4A2225	agile	01/22/2024	01/23/2024	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	93.8 %	60-130			"	"	"
Surrogate: Anthracene-d10	104 %	60-130			"	"	"
Surrogate: Pyrene-d10	101 %	60-130			"	"	"
Surrogate: Benzo (a) pyrene-d12	103 %	60-130			"	"	"

Table 915 metals by EPA 6020B

Arsenic	4.84	0.0843	mg/kg	10	B4A2232	JAH	01/22/2024	01/25/2024
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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Bethyl GW 29-12

EX-FS-02@12'
1/22/2024 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401509-09 (Soil)

Table 915 metals by EPA 6020B

Barium	48.8	8.43	mg/kg	10	B4A2232	JAH	01/22/2024	01/25/2024	
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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

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 B4A2230 - EPA 3550B										
Blank (B4A2230-BLK1)										
					Prepared: 01/22/2024 Analyzed: 01/23/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		89.7	50-150			

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

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 B4A2230 - EPA 3550B

LCS (B4A2230-BS1)

Prepared: 01/22/2024 Analyzed: 01/23/2024

Diesel (C10-C28)	954	50.0	mg/kg	1000		95.4	70-130			
Residual Range Organics (C28-C40)	940	200	"	1000		94.0	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

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 B4A2230 - EPA 3550B

Matrix Spike (B4A2230-MS1)	Source: Y401509-01			Prepared: 01/22/2024 Analyzed: 01/23/2024						
Diesel (C10-C28)	949	50.0	mg/kg	1000	ND	94.9	70-130			
Residual Range Organics (C28-C40)	938	200	"	1000	ND	93.8	70-130			
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

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 B4A2230 - EPA 3550B

Matrix Spike Dup (B4A2230-MSD1)	Source: Y401509-01		Prepared: 01/22/2024 Analyzed: 01/23/2024							
Diesel (C10-C28)	937	50.0	mg/kg	1000	ND	93.7	70-130	1.19	35	
Residual Range Organics (C28-C40)	942	200	"	1000	ND	94.2	70-130	0.411	35	
Surrogate: o-Terphenyl	59		"	49.8		118	50-150			

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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

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 B4A2233 - EPA 5030 (soil)

Blank (B4A2233-BLK1)

Prepared: 01/22/2024 Analyzed: 01/22/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	108		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	96.7		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	101		70-130			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

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 B4A2233 - EPA 5030 (soil)

LCS (B4A2233-BS1)

Prepared: 01/22/2024 Analyzed: 01/22/2024

1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100		104	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Benzene	0.120	0.00200	"	0.100		120	70-130			
Ethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Naphthalene	0.117	0.00380	"	0.100		117	70-130			
Toluene	0.113	0.00200	"	0.100		113	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.216	0.00400	"	0.200		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.4	70-130			

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

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 B4A2233 - EPA 5030 (soil)

Matrix Spike (B4A2233-MS1)	Source: Y401509-01			Prepared: 01/22/2024 Analyzed: 01/22/2024						
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130			
Benzene	0.119	0.00200	"	0.100	ND	119	70-130			
Ethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130			
Naphthalene	0.118	0.00380	"	0.100	ND	118	70-130			
Toluene	0.112	0.00200	"	0.100	ND	112	70-130			
o-Xylene	0.103	0.00200	"	0.100	ND	103	70-130			
m,p-Xylene	0.218	0.00400	"	0.200	ND	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.8	70-130			

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

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 B4A2233 - EPA 5030 (soil)

Matrix Spike Dup (B4A2233-MSD1)	Source: Y401509-01			Prepared: 01/22/2024 Analyzed: 01/22/2024						
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130	0.705	20	
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130	0.560	20	
Benzene	0.117	0.00200	"	0.100	ND	117	70-130	1.66	20	
Ethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	0.876	20	
Naphthalene	0.116	0.00380	"	0.100	ND	116	70-130	1.73	20	
Toluene	0.111	0.00200	"	0.100	ND	111	70-130	0.876	20	
o-Xylene	0.102	0.00200	"	0.100	ND	102	70-130	0.137	20	
m,p-Xylene	0.216	0.00400	"	0.200	ND	108	70-130	0.581	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.8	70-130			

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

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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Metals by EPA 6000/7000 Series Methods - 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 B4A2226 - EPA 3050B

Blank (B4A2226-BLK1)

Prepared: 01/22/2024 Analyzed: 01/25/2024

Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							

LCS (B4A2226-BS1)

Prepared: 01/22/2024 Analyzed: 01/25/2024

Arsenic	5.35	0.0100	mg/kg	5.00		107	80-120			
Barium	549	1.00	"	500		110	80-120			

Matrix Spike (B4A2226-MS1)

Source: Y401503-02

Prepared: 01/22/2024 Analyzed: 01/25/2024

Arsenic	7.13	0.0956	mg/kg	4.78	2.13	105	75-125			
Barium	611	9.56	"	478	82.2	111	75-125			

Matrix Spike Dup (B4A2226-MSD1)

Source: Y401503-02

Prepared: 01/22/2024 Analyzed: 01/25/2024

Arsenic	7.75	0.0898	mg/kg	4.49	2.13	125	75-125	8.35	20	
Barium	589	8.98	"	449	82.2	113	75-125	3.59	20	

Batch B4A2232 - EPA 3050B

Blank (B4A2232-BLK1)

Prepared: 01/22/2024 Analyzed: 01/25/2024

Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							

LCS (B4A2232-BS1)

Prepared: 01/22/2024 Analyzed: 01/25/2024

Arsenic	5.38	0.0100	mg/kg	5.00		108	80-120			
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Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A2232 - EPA 3050B										
LCS (B4A2232-BS1)					Prepared: 01/22/2024 Analyzed: 01/25/2024					
Barium	542	1.00	mg/kg	500		108	80-120			
Matrix Spike (B4A2232-MS1)		Source: Y401511-04			Prepared: 01/22/2024 Analyzed: 01/25/2024					
Arsenic	6.36	0.0949	mg/kg	4.74	1.36	105	75-125			
Barium	552	9.49	"	474	32.5	110	75-125			
Matrix Spike Dup (B4A2232-MSD1)		Source: Y401511-04			Prepared: 01/22/2024 Analyzed: 01/25/2024					
Arsenic	6.01	0.0913	mg/kg	4.57	1.36	102	75-125	5.59	20	
Barium	518	9.13	"	457	32.5	106	75-125	6.27	20	

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4A2225 - EPA 3580

Blank (B4A2225-BLK1)

Prepared: 01/22/2024 Analyzed: 01/22/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	180		ug/kg	200		90.3	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	200		"	200		98.3	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		110	60-130			

LCS (B4A2225-BS1)

Prepared: 01/22/2024 Analyzed: 01/22/2024

1-Methylnaphthalene	0.202	0.002	mg/kg	0.200		101	70-130			
2-Methylnaphthalene	0.198	0.002	"	0.200		99.0	70-130			
Acenaphthene	0.174	0.020	"	0.200		87.1	70-130			
Anthracene	0.194	0.020	"	0.200		97.0	70-130			

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4A2225 - EPA 3580

LCS (B4A2225-BS1)

Prepared: 01/22/2024 Analyzed: 01/22/2024

Benzo (a) anthracene	0.185	0.005	mg/kg	0.200		92.6	70-130			
Benzo (a) pyrene	0.194	0.020	"	0.200		96.9	70-130			
Benzo (b) fluoranthene	0.164	0.020	"	0.200		82.0	70-130			
Benzo (g,h,i) perylene	0.196	0.020	"	0.200		98.0	70-130			
Benzo (k) fluoranthene	0.165	0.020	"	0.200		82.6	70-130			
Chrysene	0.196	0.020	"	0.200		98.1	70-130			
Dibenz (a,h) anthracene	0.227	0.020	"	0.200		114	70-130			
Fluoranthene	0.196	0.020	"	0.200		98.1	70-130			
Fluorene	0.164	0.020	"	0.200		82.1	70-130			
Indeno (1,2,3-cd) pyrene	0.201	0.020	"	0.200		101	70-130			
Naphthalene	0.183	0.002	"	0.200		91.6	70-130			
Phenanthrene	0.188	0.020	"	0.200		93.8	70-130			
Pyrene	0.202	0.020	"	0.200		101	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		94.0	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	220		"	200		108	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

Matrix Spike (B4A2225-MS1)

Source: Y401491-01

Prepared: 01/22/2024 Analyzed: 01/22/2024

1-Methylnaphthalene	0.198	0.002	mg/kg	0.200	0.0005	98.5	70-130			
2-Methylnaphthalene	0.198	0.002	"	0.200	ND	98.9	70-130			
Acenaphthene	0.171	0.020	"	0.200	ND	85.6	70-130			
Anthracene	0.189	0.020	"	0.200	0.0006	94.2	70-130			
Benzo (a) anthracene	0.167	0.005	"	0.200	0.0005	83.4	70-130			
Benzo (a) pyrene	0.185	0.020	"	0.200	0.001	91.9	70-130			
Benzo (b) fluoranthene	0.167	0.020	"	0.200	0.0005	83.2	70-130			
Benzo (g,h,i) perylene	0.176	0.020	"	0.200	0.0006	87.5	70-130			

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Bethyl GW 29-12

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4A2225 - EPA 3580

Matrix Spike (B4A2225-MS1)		Source: Y401491-01			Prepared: 01/22/2024 Analyzed: 01/22/2024					
Benzo (k) fluoranthene	0.160	0.020	mg/kg	0.200	0.0007	79.7	70-130			
Chrysene	0.172	0.020	"	0.200	0.0004	85.7	70-130			
Dibenz (a,h) anthracene	0.203	0.020	"	0.200	ND	102	70-130			
Fluoranthene	0.182	0.020	"	0.200	ND	90.9	70-130			
Fluorene	0.166	0.020	"	0.200	0.0003	83.1	70-130			
Indeno (1,2,3-cd) pyrene	0.196	0.020	"	0.200	ND	98.1	70-130			
Naphthalene	0.179	0.002	"	0.200	ND	89.3	70-130			
Phenanthrene	0.183	0.020	"	0.200	ND	91.4	70-130			
Pyrene	0.174	0.020	"	0.200	ND	87.0	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		97.7	60-130			
Surrogate: Anthracene-d10	210		"	200		106	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

Matrix Spike Dup (B4A2225-MSD1)		Source: Y401491-01			Prepared: 01/22/2024 Analyzed: 01/22/2024					
1-Methylnaphthalene	0.193	0.002	mg/kg	0.200	0.0005	96.2	70-130	2.35	20	
2-Methylnaphthalene	0.190	0.002	"	0.200	ND	94.8	70-130	4.23	20	
Acenaphthene	0.172	0.020	"	0.200	ND	86.2	70-130	0.708	20	
Anthracene	0.181	0.020	"	0.200	0.0006	90.4	70-130	4.02	20	
Benzo (a) anthracene	0.176	0.005	"	0.200	0.0005	88.0	70-130	5.32	20	
Benzo (a) pyrene	0.183	0.020	"	0.200	0.001	90.9	70-130	1.06	20	
Benzo (b) fluoranthene	0.164	0.020	"	0.200	0.0005	82.0	70-130	1.46	20	
Benzo (g,h,i) perylene	0.183	0.020	"	0.200	0.0006	91.4	70-130	4.35	20	
Benzo (k) fluoranthene	0.167	0.020	"	0.200	0.0007	83.2	70-130	4.31	20	
Chrysene	0.179	0.020	"	0.200	0.0004	89.3	70-130	4.09	20	
Dibenz (a,h) anthracene	0.226	0.020	"	0.200	ND	113	70-130	10.8	20	
Fluoranthene	0.180	0.020	"	0.200	ND	90.1	70-130	0.886	20	

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EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4A2225 - EPA 3580

Matrix Spike Dup (B4A2225-MSD1)	Source: Y401491-01			Prepared: 01/22/2024 Analyzed: 01/22/2024						
Fluorene	0.165	0.020	mg/kg	0.200	0.0003	82.3	70-130	0.934	20	
Indeno (1,2,3-cd) pyrene	0.198	0.020	"	0.200	ND	99.0	70-130	0.941	20	
Naphthalene	0.179	0.002	"	0.200	ND	89.3	70-130	0.0532	20	
Phenanthrene	0.183	0.020	"	0.200	ND	91.3	70-130	0.165	20	
Pyrene	0.173	0.020	"	0.200	ND	86.7	70-130	0.385	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	210		"	200		107	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

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Andrew Newberry
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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.

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Jordan A. Bynon, Project Manager